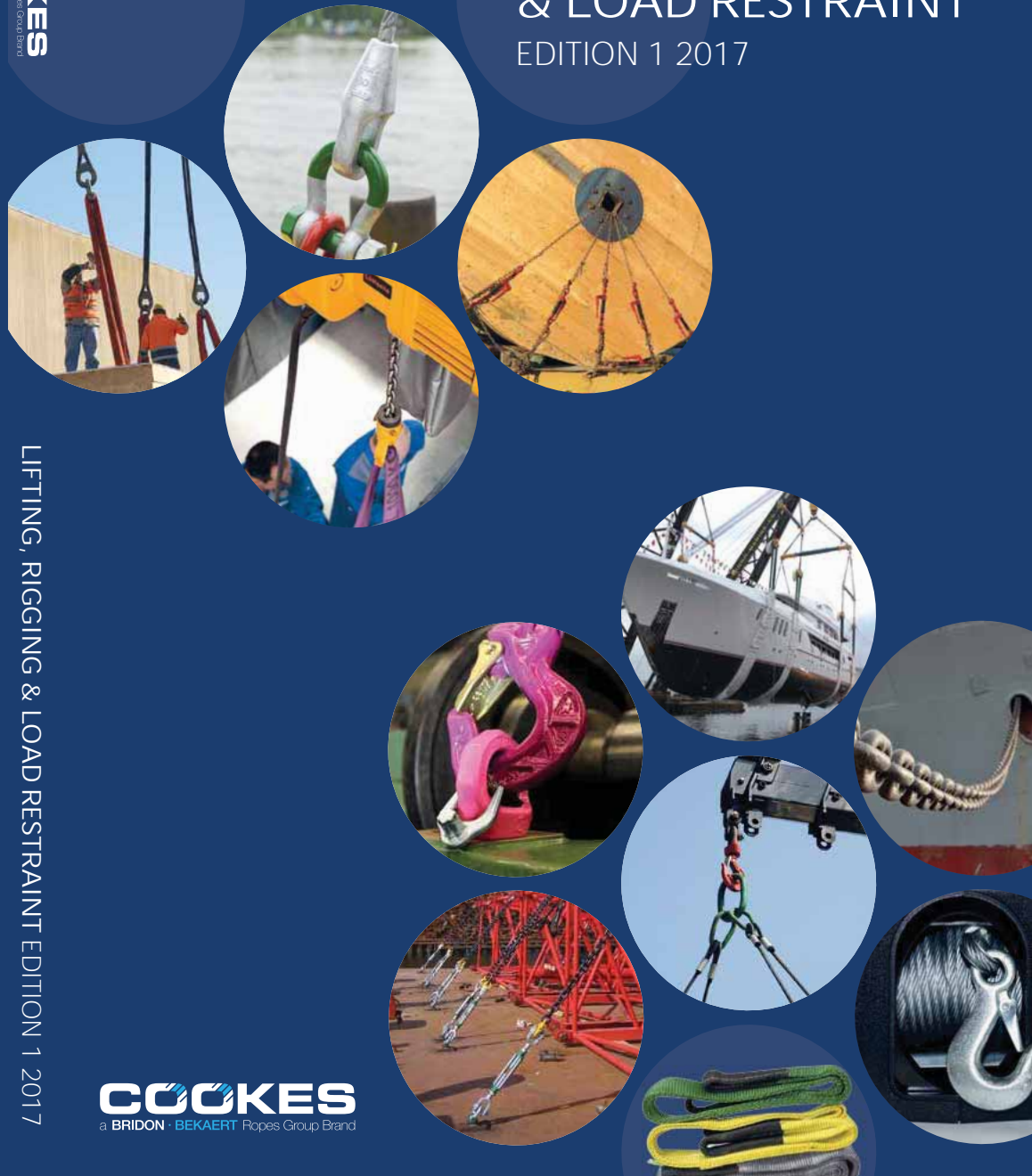


LIFTING, RIGGING & LOAD RESTRAINT

EDITION 1 2017

COOKES
a BRIDON · BEKAERT Ropes Group Brand



LIFTING, RIGGING & LOAD RESTRAINT EDITION 1 2017

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BRIDON · BEKAERT
THE ROPES GROUP

COOKES
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ABOUT COOKES

Cookes is the name at the very heart of how this country was built: our products have been doing New Zealand's heavy lifting, hauling, hoisting, trawling, digging (and more) for over a century.

As part of the Bridon-Bekaert Ropes Group we are a world leading wire and fibre rope technology company. We offer industrial services, knowledge and expertise through a network of branches and trade showrooms throughout New Zealand.

If you're looking for lifting and rigging equipment, wire rope, load restraint products, height safety equipment or marine products for use in a wide range of industries, Cookes will supply it.

Our products, technical knowhow and teamwork – with our suppliers, our customers and each other enables us to provide a total solution.

We are full members of the Lifting Equipment Engineers Association (LEEAA). LEEAA is the internationally recognised standard in the global lifting industry. By aligning our practices and procedures to LEEAA you can be sure your assets are tested by competent professionals.

World's best industrial brands

We are master distributors for the world's best and safest industrial lifting and securing products: Van Beest, Yoke, Peerless, Crosby and Rud, to name a few. Only Cookes can offer you such a choice of industrial brands sourced directly from the manufacturers.

We are problem solvers

Nationwide, our people collectively have the knowledge and experience that spans years of service; you benefit from that every day. No matter the industry you are in – construction, logging, marine, agriculture – if you have a problem, we have the ability to solve it. That means better performance and profitability for your business.

International quality from local branches

You can shop at your local Cookes branch for a huge range of world-class industrial products. Our people enjoy making relationships personal. So we get to know your business, and earn your trust. If what you need is not on the shelf or in the warehouse, we'll either supply it from another branch in our network or we'll design and make a perfect solution.

Health and safety come first

Our business revolves around the use and support of industrial machinery, where any unsafe practice can lead to serious harm, so safety always comes first.

Whether we're manufacturing, testing, certifying or supplying, health and safety is paramount for our

employees, contractors, visitors and customers.

As a manufacturer, we rigidly adhere to all the requirements for a safe workplace and monitor our practices to ensure constant improvement.

We are experts in ensuring that whatever equipment you use, it's fit for purpose, with our in-house and mobile load testing, non-destructive testing and specialist rigging services.

Quality Assured

Since 1992 Cookes has held its certification for ISO 9001. Building on this, we have now achieved ISO 14001 and ISO 18001 certification, demonstrating our commitment to quality, productivity and customer satisfaction. You can be confident in our ability to deliver products and services that consistently meet your requirements.



Helping lift
New Zealand
business
for over
100 years!

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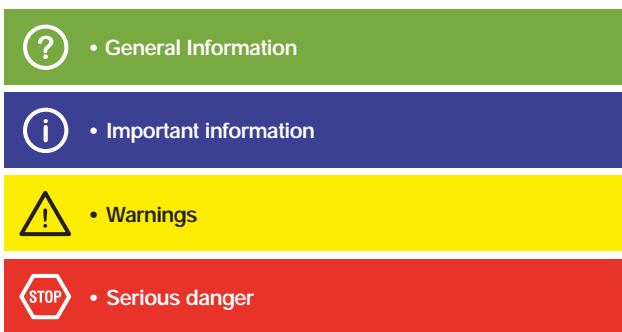
HOW TO USE THIS CATALOGUE

There are several ways to access a Cookes lifting and rigging products list, you can visit one of our nationwide branches or call our freephone for personal service, go to our company website or use this trusty catalogue.

We have always produced a range of product catalogues to complement other means of product listing and for this issue we have really pushed the boat out to give you more than just tables and codes. We call this, added value.

We have added value by including much more than just product codes and technical tables. You will find care and use information, handy hints and plenty of other material not seen before in other catalogues of this type.

What to look out for on each page



Quickly find the section you are looking for

Coloured finger tabs are provided to move you quickly to the required product line section. Inside you will find an overview and a contents page so you can easily locate the product you are looking for. Each of our product catalogues has its own finger tab colour, so you always know which one you are looking at.

Where to find care and use instructions

Each section includes product care and use information to help you get the most from the items you purchase. Following these guidelines will also help you keep operators safe from harm.

Glossary of Terms

The lifting and rigging industries have much in the way of specialised terminology. The glossary at the back of the catalogue is designed to demystify the terms applied to the products and services we offer. If you find abbreviations and words you don't understand, chances are you will find an explanation in the glossary. If the answer to your question is not shown or fully explained, please contact us and we will be happy to assist.

Guide to product load ratings

With so many different products designed for use in numerous markets, understanding the load rating information can be challenging. Our ratings guide will help you understand the various terminologies used and how these relate to the product itself.

WLL – Working Load Limit // Specified by the product manufacturer most often in line with a standard or industry specification. It is the maximum mass or force which the product is authorised to support in general service when the pull is applied in-line. Products rated for lifting most often have a Working Load Limit (WLL) applied. The WLL must never be exceeded.

MWL – Maximum Working Load // Where items are not designed for lifting applications, but minimum breaking load information is available from a reputable source, Maximum Working Load (MWL) may be used to enable users to make an informed choice of product for their intended application. MWL is the maximum load that a product may have applied in a non-lifting application.

Rated Capacity // Commonly used by hoisting product manufacturers to describe the maximum allowable lifting capacity of their product when the lift is a straight line pull. In real terms it carries the same meaning as WLL, except that a hoist may have other lifting equipment attached, such as a chain sling. In such cases, the sling weight should be added to that of the load being lifted to determine the rating of the hoist required.

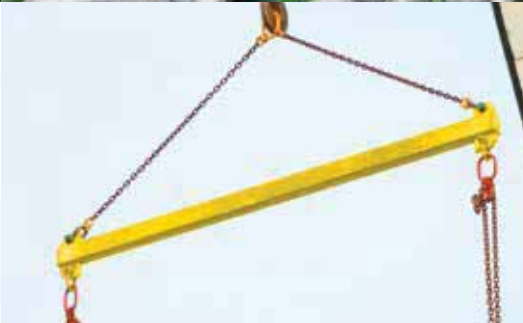
SWL – Safe Working Load // Following an assessment by a competent person, the WLL may be reduced and a Safe Working Load (SWL) applied. The SWL then becomes the maximum load that the item is permitted to sustain under the conditions in which it will be used.

LC – Lashing Capacity // The maximum allowed force on a load restraint or webbing tiedown restraint in straight pull.

Line Pull // The amount of force, shown in kgs or lbs, that a winch can pull. The rated line pull is quoted with the first layer of rope on the winch. The winch becomes less powerful with each subsequent layer. As a guide, deduct 10% from the rated line pull for each layer after the first.

MBL – Minimum Breaking Load // The lowest fracture point of a product based on statistical testing undertaken by the manufacturer.

Design Factor // A term usually computed by dividing the MBL by the WLL.

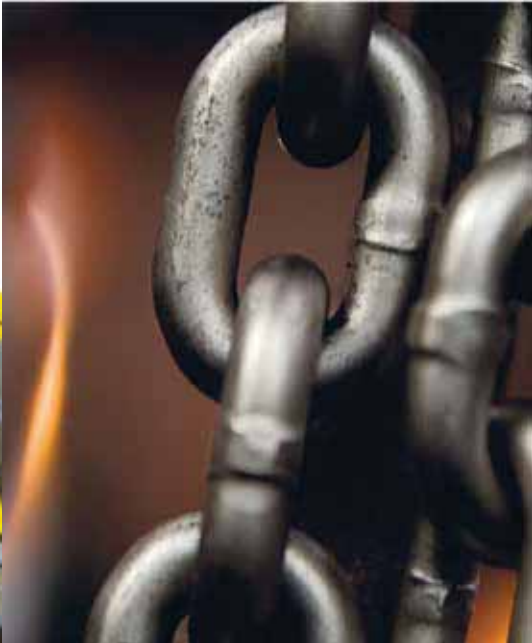


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INTRODUCTION

Cookes' has over 100 years of experience in lifting equipment and is proud to offer you New Zealand's finest lifting chains and components. Chain slings can be fabricated to your specific requirements, then tagged and supported by the necessary certification. With in-house and mobile testing facilities throughout New Zealand, we can ensure that your lifting chains remain safe for continued use.

LIFTING CHAIN & COMPONENTS

Which grade do I choose?

Grade 80

Has been the choice of many users for over 40 years and offers the widest range of matching strength component items.

Standard features include:

- Wide range of available sizes and components
- High strength to weight ratio
- Safe for overhead lifting and general purpose lifting slings

Cookes is the authorised New Zealand distributor for Grade 80 components manufacturer Yoke Industrial, and offer Grade 80 alloy lifting chain from both Peerless Industrial USA and PWB Anchor, Australia.

Grade 100

Developed in Europe in the late 1990s, and standard features include:

- Approximately 25% higher Working Load Limit (WLL) than Grade 80
- Wide range of available sizes
- Higher strength to weight ratio than Grade 80
- Safe for overhead lifting and general purpose lifting slings

Cookes is the authorised New Zealand distributor for Grade 100 components manufacturers Yoke Industrial and the Crosby Group (Kuplex). We offer Grade 100 alloy lifting chain from both Peerless Industrial USA and Crosby Group USA.

Grade 120

Developed in Europe in the mid-2000s, the German manufactured Rud ICE-120 chain and components offer several unique features:

- 50% higher Working Load Limit (WLL) than Grade 80 lifting chains of the same diameter
- ICE-120 chain and components dynamically loaded to 20,000 cycles at 1.5 times WLL
- Double the impact toughness of Grade

80 chain to EN 818

- 30% better surface hardness than Grade 80
- Duplex surface protection provides superior protection against corrosion
- Improved resistance to stress corrosion cracking and hydrogen embrittlement
- Significantly increased life expectancy due to superior alloys and special heat treatment
- Patented material provides increased resistance to sharp edges
- Higher elongation than Grade 80 chain
- Unique range of purpose-designed components
- Safe for overhead lifting and special purpose lifting slings

Cookes is the authorised New Zealand distributor for German manufacturer Rud and offers the ICE-120 range in sizes 4mm through 16mm.

VIP Maxi-Heavy Lift

A range of 28mm chain and special components from Rud Germany designed specifically for heavy lift applications featuring:

- Sling Working Load Limits up to 126 tonne
- Special top link design with integrated chain connection
- Edge wear resistance
- Powder coated finish

Grade 50 Stainless Steel

A range of chain and components manufactured in France and certified for overhead lifting featuring:

- A range of chain and components in sizes from 6mm to 13mm
- Highly resistant to corrosion in acid and alkaline environments
- Suitable for use in salt water and marine environments
- Recommended for food processing and chemical plants
- Safe for overhead lifting and special purpose lifting slings

OUR
WORLD LEADING
PARTNERS...



COOKES – helping lift New Zealand business for over 100 years!
a BRIDON • BEKAERT Pöpsel Group Brand

CHAIN SLING WORKING LOAD LIMITS

The Uniform Method for Rating GRADE 80 Chain Slings

Lifting Mode	1 Leg	2 Leg			3 & 4 Leg – Same Ratings		
Chain Ø	Factor 1	Factor 1.7	Factor 1.4	Factor 1	Factor 2.6	Factor 2.1	Factor 1.5
mm	0°	60°	90°	120°	60°	90°	120°
6.00	1.12	1.90	1.60	1.12	2.90	2.36	1.70
7.00	1.50	2.55	2.12	1.50	3.90	3.15	2.24
8.00	2.00	3.40	2.80	2.00	5.20	4.25	3.00
10.00	3.15	5.35	4.25	3.15	8.20	6.70	4.75
13.00	5.30	9.00	7.50	5.30	13.80	11.20	8.00
16.00	8.00	13.60	11.20	8.00	20.80	17.00	11.80
19.00	11.20	19.00	16.00	11.20	29.00	23.60	17.00
20.00	12.50	21.25	17.00	12.50	32.50	26.50	19.00
22.00	15.00	25.50	21.20	15.00	39.00	31.50	22.40
26.00	21.20	36.00	30.00	21.20	55.10	45.00	31.50
32.00	31.50	53.50	45.00	31.50	81.90	67.00	47.50

WORKING LOAD LIMITS (TONNES) IN ACCORDANCE WITH STANDARD EN818-4

The Working Load Limits (WLL) listed in the table above are the maximum weights which slings are designed to sustain in general lifting service according to the standard Uniform Load Method of rating. General purpose chain slings must always be rated by the Uniform Method. Under this method, four-leg chain slings have the same WLL rating as three-leg slings based on an assumption that at least one leg of a four-leg sling may not be accepting its full share of the load.

In exceptionally hazardous conditions or in any other circumstances which might indicate a need for the Working Load Limit lower than the designated figure, the degree of hazard should be assessed by a competent person and a Safe Working Load (SWL) determined.

RATING SPECIAL PURPOSE CHAIN SLINGS BY THE TRIGONOMETRIC METHOD

The alternative Trigonometric Method may only be used where a multi-leg sling is to be used for a **specific lifting application**, with the angle between the legs pre-determined and constant. In such cases the WLL can be calculated on the basis of the specific angle specified and the chain sling will be tagged accordingly.



• For further information on trigonometric rating of chain slings, please contact your local Cookes branch, Freephone 0508 274 366 or email customerservices@bridoncookes.co.nz.



• When slings are used in a choke hitch or grab hooks fitted as bottom hooks, the WLL must be reduced by 20%.
• For G100 chain sling ratings refer to page 41.



• Never exceed manufacturer's Working Load Limit (WLL).
• Never use a chain assembly for lifting unless it has been tagged and certified by a reputable supplier.
• Never exceed 120° included sling angle between legs.

GRADE 80

LIFTING CHAIN

Kito Grade 80 Alloy Chain



Product Code	Nominal Size	WLL t	Inside Link Dimensions (mm)		Approx. Weight kg / mtr
	mm		Length (Nom.)	Width (Min.)	
02399006	6	1.2	18	7.80	0.83
02399007	7	1.5	21	9.10	1.17
02399008	8	2.0	24	10.40	1.51
02399010	10	3.15	30	13.00	2.40
02399013	13	5.3	39	16.90	4.00
02399016	16	8.0	48	20.80	6.00
02399020	20	12.5	60	26.00	9.21
02398822	22	15.0	67	32.00	10.40
02398826	26	21.2	78	35.50	15.50



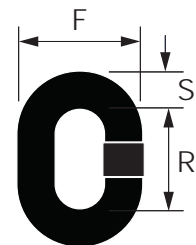
A rugged high strength Ni-Cr-Mo Alloy Steel chain.

- Complies with EN818.
- Sizes 6mm - 20mm manufactured by Kito Weissenfels, Italy.
- Sizes 22mm and 26mm manufactured by Kito Peerless, USA.

Herc-Alloy Grade 80 Alloy Chain



Product Code	Size (mm)	WLL t	Dimensions (mm)		Approx. Weight kg / mtr
	S		R	F	
02950010	7.1	1.6	23.8	25.9	1.14
02950012	8.0	2.0	23.8	27.0	1.40
02950014	10.0	3.2	29.8	33.8	2.10
02950018	13.0	5.3	38.0	43.0	3.49
02950022	16.0	8.0	47.8	54.0	5.64
02950026	20.0	12.5	59.2	67.5	8.78
02950030	22.0	15.0	65.0	74.2	10.70
02950034	26.0	20.2	78.0	96.2	15.10
02950040	32.0	31.5	96.0	112.0	23.00



Proven performance in high impact applications.

- Self-colour finish.
- Complies with AS2321.
- Sizes 6mm - 22mm manufactured in Australia.
Sizes 26mm - 32mm manufactured in Germany.



• Never exceed manufacturer's Working Load Limit (WLL).

GRADE 80

MASTER LINKS & MULTI OBLONG LINKS

Highest quality master links from world leading manufacturers.

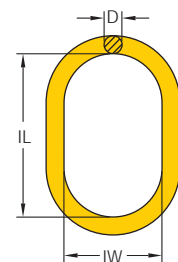


MASTER LINKS – 1 & 2 LEG SLINGS

Oblong Master Link – Type MF

YOKE

Product Code	Yoke Item No.	WLL β 0-45°	For G80 Chain (mm)		Dimensions (mm)			Weight
		t	1 Leg	2 Leg	D	IL	IW	kg
02457006	8-003-06	1.12	6	—	11	100	60	0.2
02457008	8-003-0806	2.36	7, 8	6	14	120	70	0.4
02457010	8-003-1008	4.25	10	7, 8	17	140	80	0.7
02457013	8-003-1310	6.70	13	10	22	160	95	1.5
02457016	8-003-1613	11.20	16	13	28	180	105	2.8
02457022	8-003-2216	17.00	20, 22	16	34	240	140	5.5
02457026	8-003-2619	26.50	26	19, 20	40	250	150	8.0
02457032	8-003-3222	31.50	32	22	45	300	180	12.7

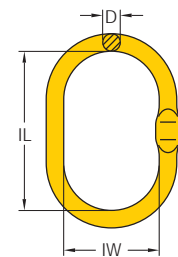


- Designed for use in 1 and 2 leg sling applications.
- Design factor 4:1 proof tested and certified.
- Complies with EN1677.
- Manufactured in Taiwan.

Oblong Master Link With Flat – Type MFF

YOKE

Product Code	Yoke Item No.	WLL β 0-45°	For G80 Chain (mm)		Dimensions (mm)			Weight
		t	1 Leg	2 Leg	D	IL	IW	kg
02456007	8-003F-0806	2.36	7, 8	6	14	120	70	0.4
02456010	8-003F-1008	4.25	10	7, 8	17	141	80	0.7
02456013	8-003F-1310	6.70	13	10	23	163	95	1.5
02456016	8-003F-1613	11.20	16	13	29	180	105	2.8
02456019	8-003F-2216	17.00	20, 22	16	34	245	140	5.3
02456026	8-003F-2619	26.50	26	19, 20	40	257	150	8.0



- Designed for use in 1 and 2 leg sling applications.
- Flat section enables chain connection using Omega Link, Kupler or Unilock Shackle.
- Design factor 4:1 proof tested and certified.
- Complies with EN1677
- Manufactured in Taiwan.



• Never exceed manufacturer's Working Load Limit (WLL).

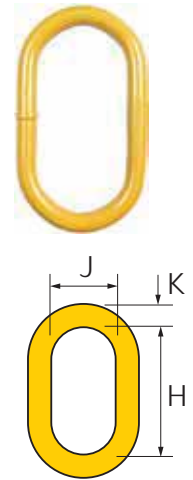
MASTER LINKS – 1 & 2 LEG SLINGS

Herc-Alloy Welded Oblong Link – Regular



Product Code	PWB Item No.	WLL	Chain Size (mm)		Dimensions (mm)			Weight
		t	1 Leg	2 Leg	H	J	K	kg
02951050*	40490	3.5	6.0 – 10.0	6.0 – 8.0	88	44	13	0.3
02951058*	40491	5.5	13.0	10.0	114	57	20	0.9
02951062*	40492	9.2	16.0	13.0	130	70	22	1.2
02951070	40493	13.8	20.0	16.0	160	80	30	2.7
02951072	40494	21.6	22.0	20.0	180	90	32	3.7
02951073	40495	26.0	26.0	22.0	200	100	40	5.5

* Available on indent.

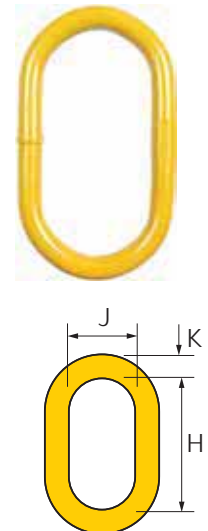


Herc-Alloy Welded Oblong Link – Large



Product Code	PWB Item No.	WLL	Chain Size (mm)		Dimensions (mm)			Weight
		t	1 Leg	2 Leg	H	J	K	kg
02951140*	40617	1.6	6.0 – 7.1	—	130	70	13	0.4
02951145*	40618	3.5	8.0 – 10.0	7.1 – 8.0	135	70	16	0.7
02951147*	40619	5.5	13.0	10.0	200	100	22	1.7
02951152*	40620	9.2	16.0	13.0	240	120	30	3.8
02951155*	40621	13.8	20.0	16.0	280	140	32	5.4
02951156	40622	21.6	22.0	20.0	300	150	40	8.5
02951157	40623	26.0	26.0	22.0	330	165	42	10.5
02951158	40624	36.7	32.0	26.0	360	180	50	15.0
02951159*	41767	54.5	32.0	32.0	410	220	60	30.0

* Available on indent.



Classic round section welded Herc-Alloy Master Links are designed for chain or wire rope slings. Available in Regular and Large sizes.

- Complies with AS3776.
- Design factor 4:1 proof tested and certified.
- Manufactured in Australia. Product Code 02951159 manufactured in South Africa.

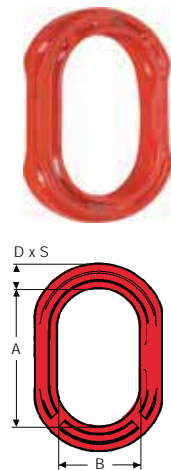
Master Link – Type KM



Product Code	KUPLEX Item No.	WLL	For G80 Chain	Dimensions (mm)				Weight
		t	1 Leg (mm)	A	B	D	S	kg
02439901	KM-A	1.6	7	152	76	17	12	0.47

A flat section Master Link suitable for use with 1-leg 7mm slings.

- For other sizes of Kuplex flat section master link, refer page 46.
- 4:1 design factor.
- Complies with EN1677.
- Connect to chain with Kupler Connecting Link or Yoke Omega Link.
- Manufactured in the U.K.



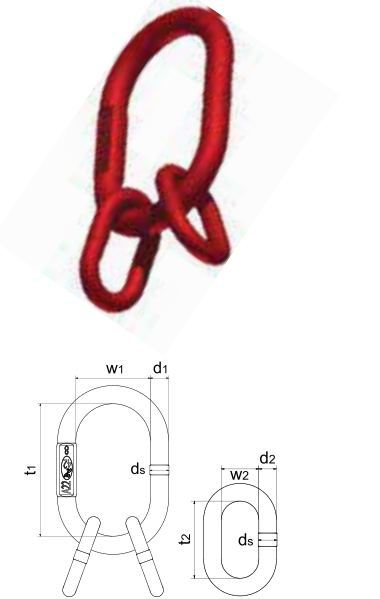
• Never exceed manufacturer's Working Load Limit (WLL).

MULTI OBLONG LINKS – 3 & 4 LEG SLINGS

Multi Link Assemblies – Small Droppers



Product Code	Drakena Code	For Chain	WLL	Dimensions (mm)			Dropper Dim. (mm)			Weight kg
		Ømm	t	d1	t1	w1	d2	t2	w2	
02265007	AK18	7	3.15	18	135	75	13	54	25	1.16
02265008	AK22	8	4.25	22	160	90	16	70	34	2.22
02265010	AK26	10	6.7	26	180	100	18	85	40	3.36
02265013	AK32	13	11.2	32	200	110	22	115	50	6.02
02265016	AK36	16	17.0	36	260	140	26	140	65	9.94
02265020	AK5132	20	26.5	51	350	190	32	150	70	23.3
02265022	AK5136	22	35.5	51	350	190	36	170	75	25.8
02265026	AK57	26	45.0	57	400	200	40	170	80	35.2



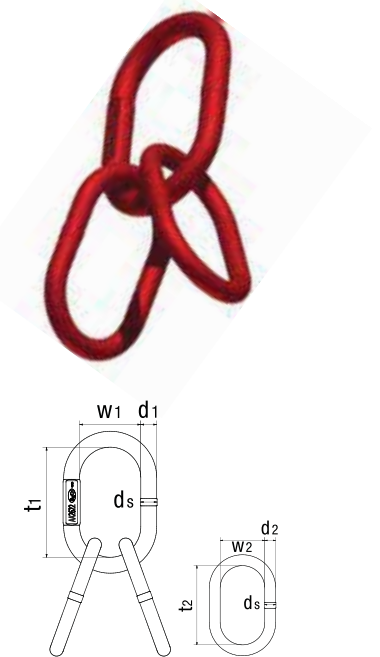
Designed for 3 and 4-leg chain assemblies.

- Red epoxy painted.
- Complies with EN1677-4.
- Manufactured in Germany.

Multi Link Assemblies – Large Droppers



Product Code	Drakena Code	WLL	Dimensions (mm)			Dropper Dimensions (mm)			Weight kg
		t	d1	t1	w1	d2	t2	w2	
02265101	AA1616	2.0	16	110	60	16	110	60	1.59
02265102	AA1816	3.0	18	135	75	16	110	60	1.86
02265103	AA2218	4.8	22	160	90	18	135	75	3.10
02265104	AA2622	7.8	26	180	100	22	160	90	5.30
02265105	AA3226	9.8	32	200	110	26	180	100	8.50
02265106	AA3626	11.8	36	260	140	26	180	100	10.95
02265107	AA3632	14.0	36	260	140	32	200	110	14.15
02265108	AA3636	16.5	36	260	140	36	260	140	19.05
02265109	AA4536	19.0	45	340	180	36	260	140	25.50
02265110	AA4545	25.0	45	340	180	45	340	180	38.40
02265111	AA5145	31.5	51	350	190	45	340	180	42.80



Large drop rings make these assemblies suitable for 3 and 4-leg wire rope and webbing slings.

- Red epoxy painted.
- Complies with EN1677-4.
- Manufactured in Germany.



• Never exceed manufacturer's Working Load Limit (WLL).

GRADE 80

PEAR LINKS

Clevis Pear Link – Type YG



Product Code	Yoke Item No.	WLL*	G80 Chain	Dimensions (mm)						Weight
		t	mm	A	G	H	K	L	T	kg
02470007	8-059-07	2.0	7, 8	9	65	15	99	80	15	0.4
02470010	8-059-10	3.15	10	11	80	18	125	100	19	0.8
02470013	8-059-13	5.3	13	14	108	22	168	136	25	1.5
02470016	8-059-16	8.0	16	18	124	26	198	158	27	2.4

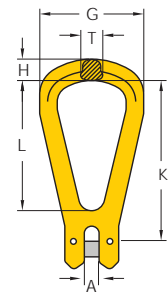
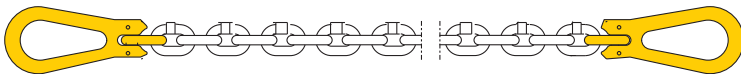


Pear Links are commonly used in choking applications.

- Design factor 4:1 proof tested and certified.
- Complies with EN1677.
- Manufactured in Taiwan.

Example of Use:

Single Leg Reeveable Collar Chain Sling.



• When choked, the sling Working Load Limit must be reduced by 20%.



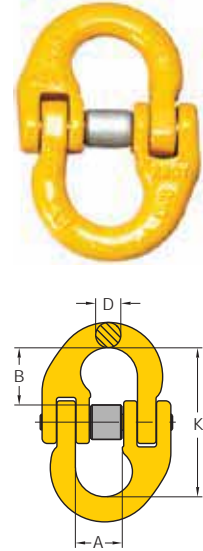
• Never exceed manufacturer's Working Load Limit (WLL).

CONNECTORS

Connecting Link – Type YA

YOKE

Product Code	Yoke Item No.	WLL	G80 Chain	Dimensions (mm)				Weight
		t	mm	A	B	D	K	kg
02459006	8-015-06	1.12	6	15	17	7	44	0.08
02459007	8-015-07	2.0	7, 8	18	22	9	57	0.2
02459010	8-015-10	3.15	10	25	26	11	68	0.3
02459013	8-015-13	5.3	13	30	35	16	91	0.7
02459016	8-015-16	8.0	16	36	38	19	100	1.1
02459019	8-015-20	12.5	18 – 20	42	46	22	122	1.9
02459022	8-015-22	15.0	22	49	59	24	152	3.0
02459026	8-015-26	21.2	26	55	62	30	162	5.0
02459032	8-015-32	31.5	32	69	79	36	202	9.0



Provides a fast and safe means of assembling, dismantling and reassembling chain slings.



DNV

- Design factor 4:1 proof tested and certified.
- Complies with EN1677.
- Manufactured in Taiwan.

Spare Pin & Sleeve Set – To Suit Type YA

YOKE

Product Code	Yoke Item No.	Suits Connector
02459507	8-P015-07	02459007
02459510	8-P015-10	02459010
02459513	8-P015-13	02459013
02459516	8-P015-16	02459016
02459519	8-P015-20	02459019
02459522	8-P015-22	02459022
02459526	8-P015-26	02459026



- Manufactured in Taiwan.



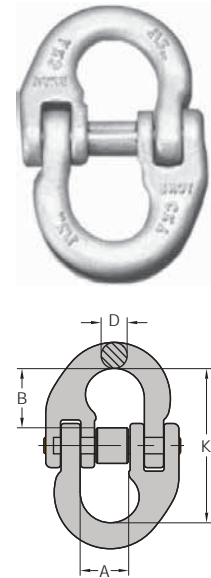
- Never exceed manufacturer's Working Load Limit (WLL).
- Safe Use: Each connector body half should not have in use more than one load bearing component or chain.
- Avoid over-crowding to ensure load will be transmitted axially.

CONNECTORS

Connecting Link – Dacromet® Protection



Product Code	Yoke Item No.	WLL	G80 Chain	Dimensions (mm)				Weight
		t	mm	A	B	D	K	kg
02459310	8-M015-10	3.15	10	25	26	11	68	0.3
02459313	8-M015-13	5.3	13	30	35	16	91	0.7
02459316	8-M015-16	8.0	16	36	38	19	100	1.2
02459319	8-M015-20	12.5	18 – 20	42	46	22	122	1.9
02459322	8-M015-22	15.0	22	49	59	24	152	3.0
02459326	8-M015-26	21.2	26	55	62	30	162	4.6



The special Dacromet® surface finish provides a high resistance to corrosion.



- Special pin and sleeve designed for regular re-use.
- Design factor 4:1 proof tested and certified.
- Complies with EN1677.
- Manufactured in Taiwan.

Spare Pin & Sleeve Set – To Suit Dacromet® Connector



Product Code	Yoke Item No.	Suits Connector
02459613	8-PM015-13	02459313
02459616	8-PM015-16	02459316
02459619	8-PM015-20	02459319
02459622	8-PM015-22	02459322



- Manufactured in Taiwan.



• Dacromet® Connecting Links have been proven effective in commercial trawling applications



- Never exceed manufacturer's Working Load Limit (WLL).
- Safe Use: Each connector body half should not have in use more than one load bearing component or chain.
- Avoid over-crowding to ensure load will be transmitted axially.

CONNECTORS

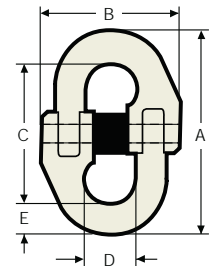
Component Connector – Type TL

Crosby® Kuplex®

Product Code	Kuplex Item No.	WLL	G80 Chain	Dimensions (mm)					Weight
		8 (t)	mm	A	B	C	D	E	kg
02419007	TL7	1.5	7	67	49	48	14.3	9	0.11
02419010	TL10	3.2	10	89	66	70	19.2	13	0.36
02419013	TL13	5.3	13	118	85	85	26.5	17	0.66
02419016	TL16	8.0	16	144	96	106	32.0	19	1.08
02419019	TL19	11.2	19	168	115	122	38.5	23	1.77
02419023	TL23	16.0	23	206	140	150	49.0	28	2.80
02419026	TL26	21.2	26	230	163	166	57.0	32	4.40
02419032	TL32	31.5	32	278	210	200	63.0	39	8.40

A general purpose link for connecting chain to eye-type components.

- Popular in trawling applications.
- Individually proof tested to 2.5 x WLL.
- 4:1 design factor.
- Manufactured in the U.K.



Spare Pin & Sleeve Set – To Suit Type TL Connector

Crosby® Kuplex®

Product Code	Kuplex Item No.	Suits Connector
02419710	TL10/3 – TL10/6	02419010
02419713	TL13/3 – TL13/6	02419013
02419716	TL16/3 – TL16/6	02419016
02419719	TL19/3 – TL19/6	02419019
02419723	TL23/3 – TL23/6	02419023
02419726	TL26/3 – TL26/6	02419026
02419732	TL32/3 – TL32/6	02419032



- Manufactured in the U.K.



• Crosby Kuplex TL Connectors have also been designed for the rigours of commercial fishing and proven effective over many years by a leading New Zealand deep sea fishing company.



- Never exceed manufacturer's Working Load Limit (WLL).
- Safe Use: Each connector body half should not have in use more than one load bearing component or chain.
- Avoid over-crowding to ensure load will be transmitted axially.

CONNECTORS

Unilock Bolt Type Connecting Link

Product Code	Pewag Item No.	WLL	G80 Chain	Dimensions (mm)						Weight
		t	mm	e	b	d	s	a	M	kg
02243506	U 5/6	1.12	5, 6	34	21	9.3	11	16	7	0.07
02243508	U 8	2.00	8	48	28	13	16	22	10	0.22
02243510	U 10	3.15	10	60	35	16	20	27	12	0.38
02243513	U 13	5.30	13	72	39	18	24	34	16	0.67

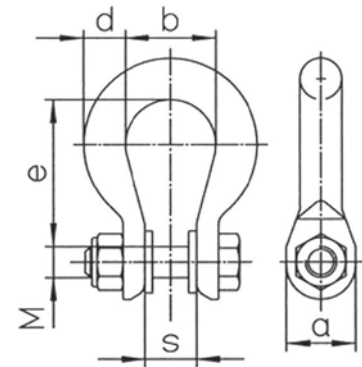


An alternative style of connecting link with bolt, washers and safety nut. Extensively used in the New Zealand forestry industry.

- Complies with EN1677.
- Manufactured in Austria.

Unilock Allowable Wear

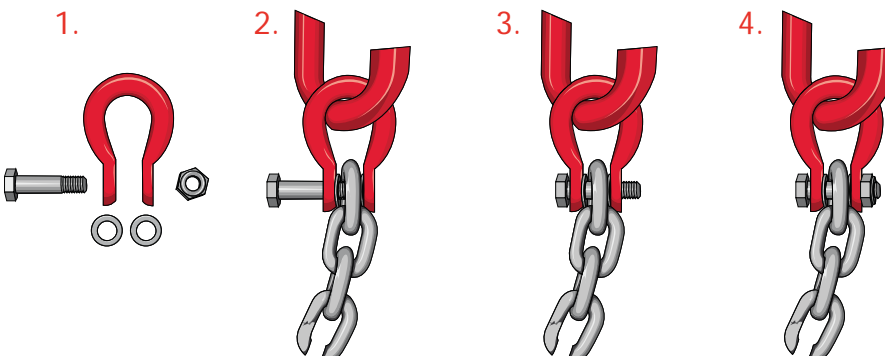
Measure	Maximum Permitted Change
Bolt must be free to move	Changes are not permitted
e	+5%
d and M	-10%



Unilock Assembly Instructions

The assembly may only be executed by a qualified person. Pewag Nicroman U Unilock connecting links are designed for the attachment of chains to master links/ master link assemblies or chains to hook.

After the assembly process, the U Unilock connecting link itself must also have sufficient mobility in order to be aligned to the direction of the load.



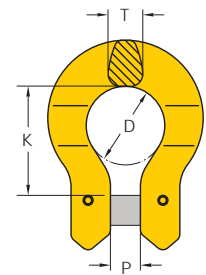
- Never exceed manufacturer's Working Load Limit (WLL).
- Do not over-tighten nut.
- Bolt must rotate freely.

CONNECTORS

Omega Link – Type YO

YOKE

Product Code	Yoke Item No.	WLL	G80 Chain	Dimensions (mm)				Weight
		t	mm	D	K	P	T	kg
02471006	8-018-06	1.12	6	21	30	8	9	0.1
02471007	8-018-07	2.0	7, 8	27	36	9	11	0.2
02471010	8-018-10	3.15	10	32	44	12	15	0.4
02471013	8-018-13	5.3	13	42	55	16	17	0.8
02471016	8-018-16	8.0	16	50	69	18	22	1.6
02471019	8-018-20	12.5	18 – 20	58	71	21	28	2.1



Use with Type MFF Masterlink, refer page 12.

- Design factor 4:1 proof tested & certified.
- Complies with EN1677.
- Manufactured in Taiwan.



Chain to Chain Connector – Type KJ

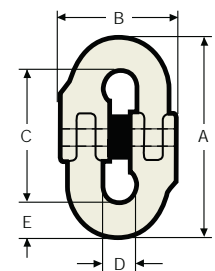
Crosby **Kuplex**

Product Code	Kuplex Item No.	WLL	G80 Chain	Dimensions (mm)					Weight
		t	mm	A	B	C	D	E	kg
02410007	KJ7	1.5	7	56	34	41	8	7.5	0.09
02410010	KJ10	3.2	10	73	45	51	11.5	11	0.27
02410013	KJ13	5.3	13	94	61	65	14.7	14	0.44
02410016*	KJ16	8.0	16	120	75	84	19.1	18	0.83
02410019*	KJ19	11.2	19	142	90	100	22.9	21	1.42

* Available on indent.

A flexible link for Grade 80 chain connection and suitable for making endless slings.

- 4:1 design factor.
- Complies with EN1677.
- Manufactured in the U.K.



• Kuplex KJ Chain-to-Chain Connectors are suitable for fabrication of endless chain slings.



• Never exceed manufacturer's Working Load Limit (WLL).

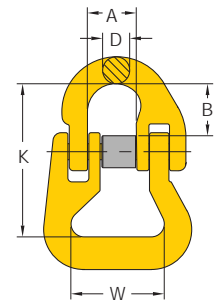
GRADE 80

CONNECTORS

Synthetic Sling Connector



Product Code	Yoke Item No.	WLL	G80 Chain	Dimensions (mm)					Weight
		t	mm	A	B	D	K	W	kg
02477007	8-016-07	2.0	7, 8	18	22	9	62	40	0.3
02477010	8-016-10	3.15	10	25	26	11	78	47	0.6
02477013	8-016-13	5.3	13	30	35	16	95	53	1.1
02477016	8-016-16	8.0	16	36	38	19	115	67	1.9
02477019	8-016-20	12.5	18 – 20	42	46	22	132	80	3.2
02477022	8-016-22	15.0	22	49	59	24	187	125	7.5
02477026	8-016-26	21.2	26	55	62	30	209	150	12.0



Ideal for flat web sling connections or attaching eye type hooks to endless roundslings as shown below.

- Design factor 4:1 proof tested and certified.
- Complies with EN1677.
- Manufactured in Taiwan.



• Never exceed manufacturer's Working Load Limit (WLL).

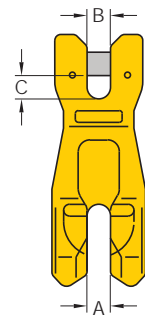
SHORTENING CLUTCHES

Shortening clutches enable a multi-leg chain sling to have different leg lengths as required to adjust to the balance or required lifting angle of the load. Cookes offers several styles of shortening clutch to meet users preferences.

Clevis Clutch – Type KC



Product Code	Yoke Item No.	WLL	G80 Chain	Dimensions (mm)			Weight kg
		t	mm	A	B	C	
02468007	8-060-07	2.0	7, 8	8	9	10	0.4
02468010	8-060-10	3.15	10	12	12	14	1.0
02468013	8-060-13	5.3	13	16	17	17	2.0
02468016	8-060-16	8.0	16	20	20	19	3.2
02468019	8-060-20	12.5	18 – 20	21	23	23	5.0



Conventional style clevis shortening clutch.

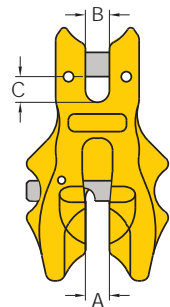
- Use with 3 links of chain to connector.
- Design factor 4:1 proof tested and certified.
- Complies with EN1677.
- Manufactured in Taiwan.



Clevis Locking Clutch – Type KCK



Product Code	Yoke Item No.	WLL	G80 Chain	Dimensions (mm)			Weight kg
		t	mm	A	B	C	
02468107	8-061-07	2.0	7, 8	10	10	10	0.5
02468110	8-061-10	3.15	10	12	12	12	0.9
02468113	8-061-13	5.3	13	15	15	16	2.2
02468116	8-061-16	8.0	16	18	21	19	3.7
02468119	8-061-20	12.5	18 – 20	22	23	23	5.8



Includes spring locking latch to engage and retain chain safety.

- Use with 3 links of chain to connector.
- Design factor 4:1 proof tested & certified.
- Complies with EN1677.
- Manufactured in Taiwan.



• Clevis Grab Hooks for shortening – Grade 80 cradle type Grab Hooks with supporting wings may also be used as chain leg shortening devices with no derating of WLL. For specifications refer page 32.



- Never exceed manufacturer's Working Load Limit (WLL).
- Shortening clutches must be used correctly with the load bearing chain always leading out from the bottom of the clutch.
- Ensure no one leg is overloaded once legs are shortened.

GRADE 80

SHORTENING CLUTCHES

Shortening Clutch – with Half Link



Product Code	Yoke Item No.	WLL	G80 Chain	Dimensions (mm)								Weight
		t	mm	A	C	D	E	F	H	G	K	kg
02468507	8-078-07	2.0	7, 8	12	20	10	23	70	22	9	128	0.7
02468510	8-078-10	3.15	10	13	26	12	29	87	26	11	154	1.3
02468513	8-078-13	5.3	13	15	33	16	37	115	36	15	203	2.8
02468516	8-078-16	8.0	16	21	39	19	46	143	39	19	248	5.3

Allows direct connection to master link.

- Design factor 4:1 proof tested and certified.
- Complies with EN1677.
- Manufactured in Taiwan.



• Clevis Grab Hooks for shortening – Grade 80 cradle type Grab Hooks with supporting wings may also be used as chain leg shortening devices with no derating of WLL. For specifications refer page 32.

• Never exceed manufacturer's Working Load Limit (WLL).
 • Shortening clutches must be used correctly with the load bearing chain always leading out from the bottom of the clutch.
 • Ensure no one leg is overloaded once legs are shortened.

HOOKS

Choosing the correct lifting hook.

The hook is a crucial element in ensuring safe lifting, therefore always give careful consideration to the type of lift, the shape of the load, and then select the hook best suited to the application.

**Self Locking Hooks**

May also be referred to as 'Safety Locking Hooks' or 'Latchlok Hooks'. Self locking hooks are designed to pivot in the middle and lock once the load is applied. It requires pressure on the trigger to release the hook when the load is grounded. The hook pivots fully open to give unrestricted access to the hook bowl. Always ensure the load is supported in the bowl of the hook.

**Swivel Self Locking Hooks**

Same operation as the conventional self locking hook but incorporates a bow and swivel assembly. Where the swivel action is required only to position a load choose a plain bearing model. When the swivel is required to rotate under load choose only a ball bearing model. Always ensure the load is supported in the bowl of the hook.

**Safety Handle Self-Locking Hooks**

A self-locking hook with added safety handle designed to eliminate the serious pinch and hand-trap hazards associated with traditional lifting hooks. Available as a standard eye type hook or with swivel top.

**Sling Hooks**

May also be referred to as 'Slip Hooks'. The sling hook was for many years the standard choice for lifting chains. It has been overtaken in popularity to some extent by the self locking hook but still remains very popular today. Always ensure the load is supported in the bowl of the hook and that the safety latch is engaged.

**Swivel Sling Hooks**

A version of the sling hook that incorporates a swivel assembly. When the swivel action is required only to position a load, choose a plain bearing model. When the swivel is required to rotate under load choose only a ball bearing model. Always ensure the load is supported in the bowl of the hook and that the safety latch is engaged.

HOOKS

Choosing the correct lifting hook.

The hook is a crucial element in ensuring safe lifting therefore always give careful consideration to the type of lift, the shape of the load, and then select the hook best suited to the application.



Grab Hooks

May also be referred to as a 'Snig Hook'. The narrow throat of a grab hook allows one link of chain to be seated and effectively grabbed. Grab hooks may be used to choke a load or are commonly used for shortening of chain legs. **Always insist on the cradle type grab hook with supporting wings.** Where used as a shortening device cradle type grab hooks maintain their full WLL. When cradle type grab hooks are used as bottom hooks for choking purposes, the sling WLL must be derated by 20%.



Foundry Hooks

Designed with a wide throat, these hooks are ideal for unusually bulky attachment points. Foundry hooks do not incorporate a safety latch. Under the Approved Code of Practice for Load Lifting Rigging, such hooks may only be used where fitting and removing of a load cannot be physically achieved with a hook incorporating a safety latch. It is the user's responsibility to ensure that a foundry hook is safe for the intended application and meets the requirements of the Code. Always ensure the load is supported in the bowl of the hook.



C Hooks

This style of hook has a projection over the hook tip intended to stave off obstructions which might otherwise foul the hook tip during lifting. C Hooks do not incorporate a safety latch. Under the Approved Code of Practice for Load Lifting Rigging, such hooks may only be used where fitting and removing of a load cannot be physically achieved with a hook incorporating a safety latch. Always ensure the load is supported in the bowl of the hook (for C Hooks to suit Grade 80 chain, refer Kuplex 8 + 10 C Hooks on page 62).

Safety Latches



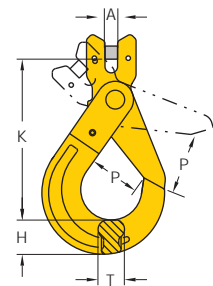
• As detailed in the Approved Code of Practice for Load-Lifting Rigging (5th edition 2012): "Safety latches are to be fitted to hooks unless fitting and removal of the load cannot be physically achieved with a latch fitted, for example: using a molten metal pouring ladle in a steel works."

HOOKS

Clevis Self-Locking Hook – Type YD



Product Code	Yoke Item No.	WLL	G80 Chain	Dimensions (mm)					Weight
		t	mm	A	H	K	P	T	kg
02461006	8-026-06	1.12	6	6	19	100	29	15	0.5
02461007	8-026-07	2.0	7, 8	9	24	119	34	20	0.8
02461010	8-026-10	3.15	10	11	30	143	44	26	1.4
02461013	8-026-13	5.3	13	14	39	179	52	30	2.9
02461016	8-026-16	8.0	16	18	49	212	60	36	5.6
02461019	8-026-20	12.5	18 – 20	21	62	243	90	48	9.0
02461022	8-026-22	15.0	22	24	63	273	80	49	13.0



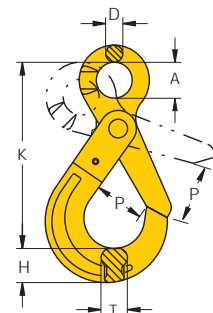
Designed so the latch cannot open under load and requires pressure on the trigger to release the hook when load is grounded. Latch trigger on rear of hook (refer image page 27).

- Complies with EN1677.
- Design factor 4:1 proof tested and certified.
- Replacement latch kits available.
- Manufactured in Taiwan.

Eye Self-Locking Hook – Type YC



Product Code	Yoke Item No.	WLL	G80 Chain	Dimensions (mm)						Weight
		t	mm	A	D	H	K	P	T	kg
02460006	8-025-06	1.12	6	21	10	19	110	29	15	0.5
02460007	8-025-07	2.0	7, 8	25	11	24	136	34	20	0.8
02460010	8-025-10	3.15	10	32	13	30	167	44	26	1.4
02460013	8-025-13	5.3	13	40	16	39	207	52	30	3.0
02460016	8-025-16	8.0	16	52	21	49	252	60	36	5.8
02460019	8-025-20	12.5	18 – 20	64	23	62	282	90	48	8.5
02460022	8-025-22	15.0	22	70	24	63	319	80	49	12.5
02460026	8-025-26	21.2	26	80	25	69	343	99	56	14.0
02460028	8-025-28	25.0	28	90	28	81	401	120	63	26.0



Designed so the latch cannot open under load and requires pressure on the trigger to release the hook when load is grounded. Latch trigger on rear of hook (refer image page 27).



- Complies with EN1677.
- Design factor 4:1 proof tested and certified.
- Replacement latch kits available.
- Manufactured in Taiwan.



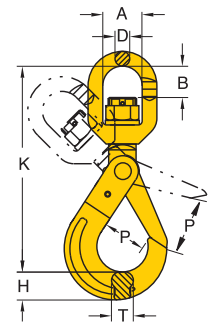
• Never exceed manufacturer's Working Load Limit (WLL).

HOOKS

Swivel Self-Locking Hook – Type YE (Plain Bearing)



Product Code	Yoke Item No.	WLL	G80 Chain	Dimensions (mm)							Weight kg
		t	mm	A	B	D	H	K	P	T	
02462007	8-027-07	2.0	7, 8	36	29	14	24	186	34	20	1.2
02462010	8-027-10	3.15	10	40	34	16	30	220	44	26	2.0
02462013	8-027-13	5.3	13	46	43	22	39	267	52	30	4.1
02462016	8-027-16	8.0	16	60	50	24	49	328	60	36	7.2
02462019	8-027-20	12.5	18 – 20	75	82	26	62	388	90	48	11.5
02462022	8-027-22	15.0	22	97	95	33	63	457	80	49	18.6
02462026	8-027-26	21.2	26	123	115	42	69	535	99	56	31.9



This hook is a positioning device only & is not intended to rotate under load.

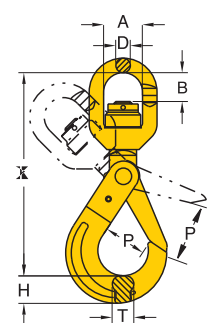
Designed so the latch cannot open under load and requires pressure on the trigger to release the hook when load is grounded. Latch trigger on rear of hook (refer image below).

- With brass bush.
- Complies with EN1677.
- Design factor 4:1 proof tested and certified.
- Replacement latch kits available.
- Manufactured in Taiwan.

Swivel Self-Locking Hook – Type YEN (Ball Bearing)



Product Code	Yoke Item No.	WLL	G80 Chain	Dimensions (mm)							Weight kg
		t	mm	A	B	D	H	K	P	T	
02462007N	8-027N-07	2.0	7, 8	36	29	14	24	186	34	20	1.2
02462010N	8-027N-10	3.15	10	40	34	16	30	220	44	26	2.0
02462013N	8-027N-13	5.3	13	46	43	22	39	267	52	30	4.2
02462016N	8-027N-16	8.0	16	60	50	24	49	328	60	36	7.3
02462019N	8-027N-20	12.5	18 – 20	75	82	26	62	388	90	48	11.7
02462022N	8-027N-22	15.0	22	97	95	33	63	457	80	49	18.0
02462026N	8-027N-26	21.2	26	123	115	42	69	535	99	56	32.0



Designed so the latch cannot open under load and requires pressure on the trigger to release the hook when load is grounded. Latch trigger on rear of hook (refer image).



Push trigger to open hook.

- With Ball Bearings, which allows swivel to operate under load.
- Complies with EN1677.
- Design factor 4:1 proof tested and certified.
- Replacement latch kits available.
- Manufactured in Taiwan.



• Never exceed manufacturer's Working Load Limit (WLL).

HOOKS

Eye Swivel Self Locking Safety Handle Hook



Product Code	Nautilus Item No.	WLL	Chain Size (mm)		Dimensions (mm)				Weight
		t	G80	G100	L	H	W	O	kg
02445004S	NH-SL4S	4.0	10	10	242	32	156	47	3.1
02445008S	NH-SL8S	8.0	16	n.a.	374	50	208	60	7.5
02445012S	NH-SL12S	12.0	19	n.a.	408	60	225	72	9.4
02445016S	NH-SL16S	16.0	22	n.a.	422	65	235	82	11.6
02445020S	NH-SL20S	20.0	26*	n.a.	438	70	270	102	18.4

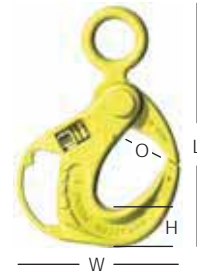


* Sling Working Load Limit must be adjusted to suit 20t maximum WLL on hook.

Eye Self Locking Safety Handle Hook

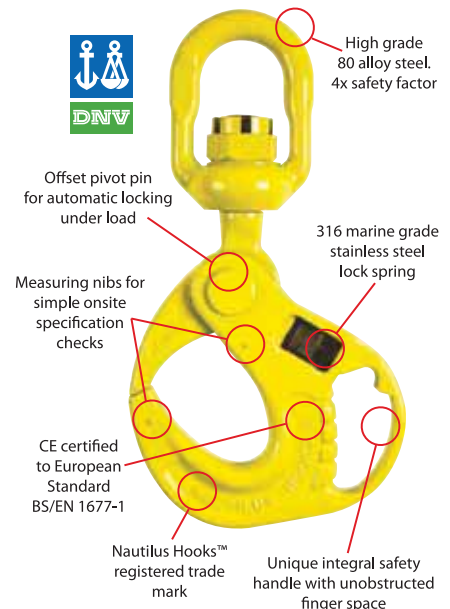


Product Code	Nautilus Item No.	WLL	Chain Size (mm)		Dimensions (mm)				Weight
		t	G80	G100	L	H	W	O	kg
02445004E	NH-SL4E	4.0	10	10	216	32	156	47	2.6
02445008E	NH-SL8E	8.0	16	n.a.	292	50	208	60	5.3
02445012E	NH-SL12E	12.0	19	n.a.	328	60	225	72	7.4
02445016E	NH-SL16E	16.0	22	n.a.	342	65	235	82	8.9
02445020E	NH-SL20E	20.0	26*	n.a.	386	70	270	102	15.0



NAUTILUS™ HOOKS PROVIDE THE ULTIMATE SAFETY IN SELF-LOCKING LIFTING HOOKS.

- The safety features provide a unique and very simple operation.
- The integral handle protects operators' hands and removes them from the hook and sling interface area.
- Manufactured from high-grade carbon alloy steel.
- Corrosion-resistant stainless steel spring.
- Complies with EN1677.
- 4:1 design factor.
- Manufactured in the U.K.



- Self-locking safety hooks with features which eliminate the risk of potentially serious pinch and trap hand injuries often associated with the use of traditional 'self-locking' hooks.



- Never exceed manufacturer's Working Load Limit (WLL).
- The Nautilus Safety Handle Hooks are positioning devices and are not intended to rotate under load.

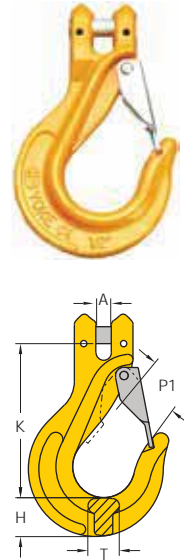
HOOKS

Clevis Sling Hook – Type YM



Product Code	Yoke Item No.	WLL	G80 Chain	Dimensions (mm)					Weight
		t	mm	A	H	K	P1	T	kg
02472006	8-043/S-06	1.12	6	6	18	79	23	15	0.3
02472007	8-043/S-07	2.0	7, 8	9	22	98	27	18	0.6
02472010	8-043/S-10	3.15	10	11	29	121	34	23	1.2
02472013	8-043/S-13	5.3	13	14	37	147	44	30	2.3
02472016	8-043/S-16	8.0	16	18	42	166	48	39	3.7
02472019	8-043/S-20	12.5	18 – 20	21	50	200	56	47	6.5

- Includes safety latch.
- Replacement safety latch kits available.
- Complies with EN1677.
- Design factor 4:1 proof tested and certified.
- Manufactured in Taiwan.



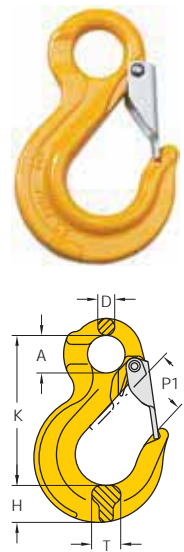
Eye Sling Hook – Type YP



Product Code	Yoke Item No.	WLL	G80 Chain	Dimensions (mm)					Weight	
		t	mm	A	D	H	K	P1	T	kg
02463006	8-044/S-06	1.12	6	20	9	20	80	23	16	0.3
02463007	8-044/S-07	2.0	7, 8	25	11	23	98	28	20	0.5
02463010	8-044/S-10	3.15	10	32	14	31	121	36	23	1.0
02463013	8-044/S-13	5.3	13	40	18	38	152	40	28	1.7
02463016	8-044/S-16	8.0	16	50	22	47	184	44	32	3.2
02463019	8-044/S-20	12.5	18 – 20	60	26	48	218	45	43	5.5
02463022	8-044/S-22	15.0	22	50	31	62	244	73	50	9.0
02463026	8-044/S-26	21.2	26	64	35	80	279	77	60	13.5
02463032	8-044/S-32	31.5	32	88	40	86	352	114	65	20.0



- Includes safety latch.
- Replacement safety latch kits available.
- Complies with EN1677.
- Design factor 4:1 proof tested and certified.
- Manufactured in Taiwan.



• Eye Sling Hooks are suitable for use on both lifting slings and winch cables.



• Never exceed manufacturer's Working Load Limit (WLL).

HOOKS

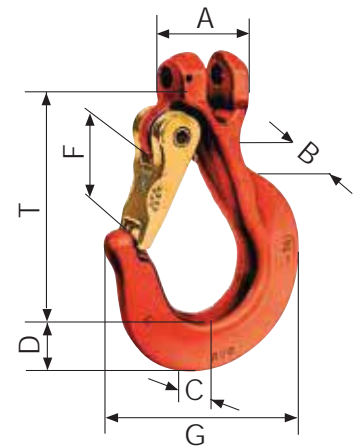
Extra Heavy Duty Granit-Super Clevis Sling Hook



Product Code	RUD Item No.	WLL	Suit Chain	Dimensions (mm)							Weight
		t	mm	A	B	C	D	F	G	T	kg
02900008	GSH - 8	2.00	8	38	28	20	28	30	98	97	0.8
02900010	GSH - 10	3.15	10	46	36	26	35	35	122	108	1.4
02900013	GSH - 13	5.30	13	58	46	30	37	40	139	126	2.5

The forged safety latch on the Granit-Super Hook slots into tip of hook, protecting it against bending sideways. Ergonomic design with finger-protecting actuating hollows.

- Extremely robust design.
- High bending resistance.
- Patented markings to show wear in the throat and bowl of the hook.
- Triple coiled double leg spring, stainless.
- Complies with EN1677..
- 4:1 design factor.
- Replacement safety latch kits available.
- Manufactured in Germany.



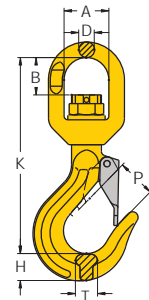
• Never exceed manufacturer's Working Load Limit (WLL).

HOOKS

Eye Swivel Sling Hook – Type YSW (Plain Bearing)



Product Code	Yoke Item No.	WLL	G80 Chain	Dimensions (mm)							Weight
		t	mm	A	B	D	H	K	P	T	kg
02464007	8-049-07	2.0	7, 8	36	27	12	22	155	26	18	0.9
02464010	8-049-10	3.15	10	41	37	16	29	189	36	23	1.6
02464013	8-049-13	5.3	13	46	40	21	35	233	42	28	3.2
02464016	8-049-16	8.0	16	60	50	22	44	280	50	35	5.3
02464019	8-049-20	12.5	18 – 20	74	82	25	65	356	56	49	9.5



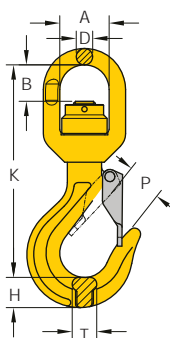
Conventional style sling hook incorporating a plain bearing for load positioning purposes only. This hook is not designed to swivel under load.

- Complies with EN1677.
- Design factor 4:1 proof tested and certified.
- Replacement safety latches available.
- Manufactured in Taiwan.

Eye Swivel Sling Hook – Type YSWN (Ball Bearing)



Product Code	Yoke Item No.	WLL	G80 Chain	Dimensions (mm)							Weight
		t	mm	A	B	D	H	K	P	T	kg
02464107	8-049N-07	2.0	7, 8	36	27	12	22	155	26	18	0.9
02464110	8-049N-10	3.15	10	41	37	16	29	189	36	23	1.6
02464113	8-049N-13	5.3	13	46	40	21	35	233	42	28	3.4
02464116	8-049N-16	8.0	16	60	50	22	44	280	50	35	5.1
02464119	8-049N-20	12.5	18 – 20	74	82	25	65	356	56	49	9.5



With Brush Bush

Conventional style sling hook incorporating a ball bearing swivel assembly which allows swivel to operate under load.

- Complies with EN1677.
- Design factor 4:1 proof tested and certified.
- Replacement safety latches available.
- Manufactured in Taiwan.



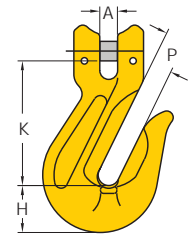
• Never exceed manufacturer's Working Load Limit (WLL).

HOOKS

Clevis Grab Hook – Type YK

YOKE

Product Code	Yoke Item No.	WLL	G80 Chain	Dimensions (mm)				Weight
		t	mm	A	H	K	P	kg
02467006	8-042-06	1.12	6	7	16	41	7	0.2
02467007	8-042-07	2.0	7, 8	9	25	55	10	0.3
02467010	8-042-10	3.15	10	12	35	77	13	0.8
02467013	8-042-13	5.3	13	15	42	97	16	1.6
02467016	8-042-16	8.0	16	17	45	102	20	2.8
02467019	8-042-20	12.5	18 – 20	23	54	124	23	4.8



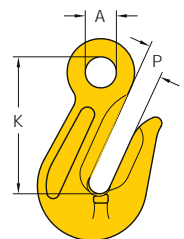
Supporting wings prevent chain link deformation. No reduction in WLL when used as a shortening device.

- Complies with EN1677.
- Design factor 4:1 proof tested and certified.
- Manufactured in Taiwan.

Eye Grab Hook – Type YH

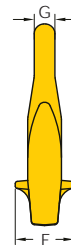
YOKE

Product Code	Yoke Item No.	WLL	G80 Chain	Dimensions (mm)					Weight
		t	mm	A	F	G	K	P	kg
02467106	8-041-06	1.12	6	13	30	8	51	8	0.2
02467108	8-041-07	2.0	7, 8	15	30	9	60	10	0.3
02467110	8-041-10	3.15	10	20	41	13	84	13	0.6
02467113	8-041-13	5.3	13	25	52	15	102	16	1.4
02467116	8-041-16	8.0	16	30	57	20	114	20	2.3
02467119	8-041-20	12.5	18 – 20	36	73	24	132	23	3.9
02467122	8-041-22	15.0	22	38	70	26	165	26	4.7
02467126	8-041-26	21.2	26	41	100	32	187	29	9.9
02467132	8-041-32	31.5	32	61	127	40	230	37	21.4



Supporting wings prevent chain link deformation. No reduction in WLL when used as a shortening device.

- Complies with EN1677.
- Design factor 4:1 proof tested and certified.
- Manufactured in Taiwan.



• Where grab hooks are fitted as bottom hooks or chain is choked, the sling WLL must be derated by 20%.



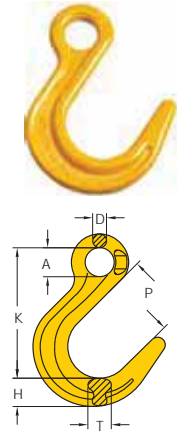
• Never exceed manufacturer's Working Load Limit (WLL).

HOOKS

Eye Foundry Hook – Type YN



Product Code	Yoke Item No.	WLL	G80 Chain	Dimensions (mm)						Weight
		t	mm	A	D	H	K	P	T	kg
02465007	8-047-07	2.00	7, 8	24	12	30	122	61	20	0.7
02465010	8-047-10	3.15	10	31	15	34	150	74	24	1.3
02465013	8-047-13	5.30	13	40	20	42	180	88	34	2.3
02465016	8-047-16	8.00	16	49	24	50	215	98	43	4.1
02465020	8-047-20	12.5	18 – 20	60	28	57	248	112	46	9.3



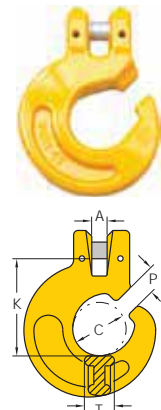
Designed with wide throat.

- Complies with EN1677.
- Design factor 4:1 proof tested and certified.
- Manufactured in Taiwan.

Clevis Forestry Choker Hook – Type YT



Product Code	Yoke Item No.	WLL	G80 Chain	Dimensions (mm)					Weight
		t	mm	A	C	K	P	T	kg
02475007	8-075-07	2.00	7, 8	9	32	58	10	18	0.5
02475010	8-075-10	3.15	10	13	45	82	12	21	0.9
02475013	8-075-13	5.30	13	14	47	100	16	27	1.7



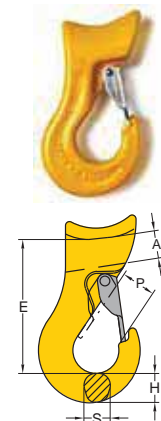
Designed for forestry use and should not to be used in overhead lifting applications.

- Design factor 4:1.
- Tested and certified.
- Manufactured in Taiwan.

Sliding Choke Hook – Type KF



Product Code	Yoke Item No.	WLL	For wire rope	Dimensions (mm)					Weight
		t	mm	A	E	H	P	S	kg
02249102	8-074-09/13	1.5	9-13	16	87	24	18	18	0.6
02249103	8-074-14/16	2.2	14-16	21	98	29	20	22	0.9



Sliding Choke Hook with wide throat, making them perfect for wire rope rigging applications.

- Design factor 5:1.
- Manufactured in Taiwan.



• Never exceed manufacturer's Working Load Limit (WLL).



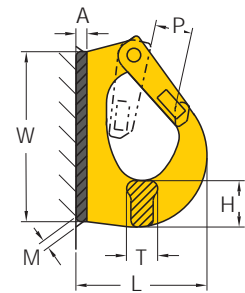
• Foundry Hooks do not include a safety latch and may only be used where fitting and removing of a load cannot be physically achieved with a hook incorporating a safety latch.
 • Forestry Choker Hooks are designed for forestry applications and should not be used in overhead lifting applications.

HOOKS

Weld-on Hook – Type YX



Product Code	Yoke Item No.	WLL	Dimensions (mm)							Weight
		t	A	H	L	M	P	T	W	kg
02465001	8-081-01	1.0	7	27	72	6	18	17	95	0.6
02465002	8-081-02	2.0	8	31	88	8	25	20	115	1.0
02465003	8-081-03	3.0	9	30	107	10	28	23	133	1.4
02465004	8-081-04	4.0	10	38	112	11	28	30	141	2.0
02465005	8-081-05	5.0	12	46	133	13	30	31	167	3.0
02465008	8-081-08	8.0	12	54	137	14	32	39	175	3.8
02465011	8-081-10	10.0	13	56	168	16	44	42	222	6.3



The Working Load Limit (WLL) should be reduced to meet any appropriate legislative requirements if welding on to an excavator. Refer following page for welding instructions.

- Replacement latches available.
- Design factor 5:1 proof tested and certified.
- Manufactured in Taiwan.

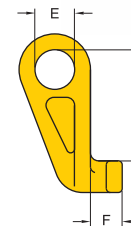
Replacement Latch Kits available. Refer page 37.

Eye Container Hook – Type KA



Product Code	Yoke Item No.	Description	WLL	Dimensions (mm)			Weight
			t	E	F	K	kg
02466005	8-067-STR	Straight	12.5	70	45	192	3.9
02466001	8-067-45LT	Left 45°	12.5	70	45	192	3.9
02466002	8-067-45RH	Right 45°	12.5	70	45	192	3.9

- Design factor 4:1
- Proof tested and certified.
- Complies with EN1677.
- Manufactured in Taiwan.



• Never exceed manufacturer's Working Load Limit (WLL).

WELDING INSTRUCTIONS FOR YOKE WELD-ON HOOK – TYPE YX

SUPPORT MATERIAL

- The material of the welding block is S355J2+N (1.0577+N, St 52-3N, B.S. 4360.50D, AISI 1019 etc.).
- Prior to welding, the contact areas must be free from impurities, oil, paint, rust, scale, etc. All rust must be completely removed from the weld area. Painted surface must be prepared in the same way.
- The steel support member must have a carbon content of no more than 0.40%.
- If the ambient temperature is 10°C or below, pre-heating of the weld area prior to welding must be carried out.

SEAM WELDING

- The welds must be sufficiently strong to take the required loads.
- Before starting the final weld pass, clean the root pass thoroughly to avoid inclusions.
- The complete welding operation must be carried out continuously so that the parts do not have time to cool.
- Effects of temperature:
 - The complete construction can be annealed stress release at <600°C without reduction of WLL.
 - Do not rapidly cool the weld.
- A thorough inspection of the weld should be performed. No cracks, pitting, inclusions, notches or undercuts are allowed. If doubt exists, use a suitable NDT method, such as magnetic particle or liquid penetrant to verify.
- If repair is required, grind out the defect and re-weld using the original qualified procedure.

WELDING MATERIALS

- Weld materials must have a minimum tensile strength of 70,000 PSI (such as AWS A5.1 E-7018), following the electrode manufacturer's recommendations. Reference information as below.
MIG arc welding:
 - Wire diameter 0.8-1.2 as per DIN 8559-SG 3, AWS A 5.18.



- Welding should only be carried out by a suitably qualified welder.
- Do not weld in the open air during bad weather.

TRIGGER KITS & SAFETY LATCH KITS

Replacement Trigger Kits for Self-Locking Hooks



Product Code	Yoke Item No.	Suits Yoke G80 Hook Types	Size
			mm
02461506	8-P025-06	YD, YC, YE, YEN	6
02461507	8-P025-07	YD, YC, YE, YEN	7 – 8
02461510	8-P025-10	YD, YC, YE, YEN	10
02461513	8-P025-13	YD, YC, YE, YEN	13
02461516	8-P025-16	YD, YC, YE, YEN	16
02461519	8-P025-20	YD, YC, YE, YEN	18 – 20
02461522	8-P025-22	YD, YC, YE, YEN	22
02461526	8-P025-26	YD, YC, YE, YEN	26



- Designed for use with both Grade 80 and Grade 100 Yoke Self-Locking Hooks.
- Manufactured in Taiwan.

Replacement Latch Kits for Sling Hooks



Product Code	Yoke Item No.	Suits Yoke G80 Hook Types	Size
			mm
02472506	8-P044-06	YP, YM	6
02472507	8-P044-07	YP, YM	7 – 8
02472510	8-P044-10	YP, YM	10
02472513	8-P044-13	YP, YM	13
02472516	8-P044-16	YP, YM	16
02472519	8-P044-20	YP, YM	18 – 20
02472522	8-P044-22	YP, YM	22
02472526	8-P044-26	YP, YM	26
02472532	8-P044-32	YP, YM	32



- Designed for use with both Grade 80 and Grade 100 Yoke Sling Hooks.
- Manufactured in Taiwan.

GRADE 80

TRIGGER KITS & SAFETY LATCH KITS

Replacement Safety Latch Kits for Swivel Sling Hooks



Product Code	Yoke Item No.	Suits Yoke G80 Hook Types	Size
			mm
02472607	8-P049-07	YSW, YSWN	7
02472610	8-P049-10	YSW, YSWN	10
02472613	8-P049-13	YSW, YSWN	13
02472616	8-P049-16	YSW, YSWN	16
02472619	8-P049-20	YSW, YSWN	18 – 20



- Manufactured in Taiwan.

Replacement Latch Kits for Weld-on Hooks



Product Code	Yoke Item No.	Suits Yoke Hook Product Code	Size
			mm
02465201	8-P081-01	02465001	1
02465202	8-P081-02	02465002	2
02465203	8-P081-03	02465003	3
02465204	8-P081-04	02465004	4
02465205	8-P081-05	02465005	5
02465208	8-P081-08	02465008	8
02465210	8-P081-10	02465011	10



- Manufactured in Taiwan.

Latch Kits for Extra Heavy Duty Granit-Super Hooks



Product Code	RUD Item No.	Suits RUD Hook Product Code	Size
			mm
02900108	GSH-8-LK	02900008	8
02900110	GSH-10-LK	02900010	10
02900113	GSH-13-LK	02900013	13



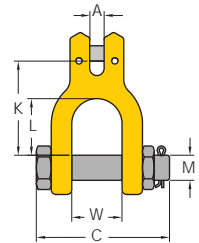
- Manufactured in Germany.

CLEVIS SHACKLES

Clevis Shackle – Type YR



Product Code	Yoke Item No.	WLL	G80 Chain	Dimensions (mm)						Weight
		t	mm	A	C	K	L	M	W	kg
02478007	8-066-07	2.0	7, 8	9	79	59	35	16	33	0.4
02478010	8-066-10	3.15	10	11	93	78	48	20	34	0.8
02478013	8-066-13	5.3	13	14	118	98	64	22	49	1.4
02478016	8-066-16	8.0	16	18	141	112	69	28	60	2.4



Designed for use as a terminal end fitting with clevis for direct connection to chain.

- Wide jaw.
- Fitted with safety pin and cotter pin to avoid dislodgement.
- Complies with EN1677.
- Design factor 4:1 proof tested and certified.
- Manufactured in Taiwan.



- Clevis Shackles negate the requirement for a separate shackle to be used.
- Perfect for connecting chain slings to the likes of plate lifting clamps.
- Grade 100 Clevis Shackles are also available in various styles, refer page 65.



- Never exceed manufacturer's Working Load Limit (WLL).

GRADE 80

INSULATED SWIVELS

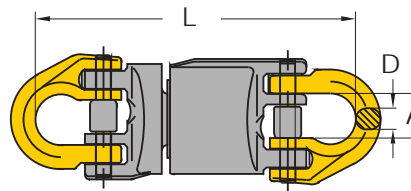
Insulated Swivels – Type 8-123



Product Code	Yoke Item No.	WLL	G80 Chain	Dimensions (mm)			Weight
		t	mm	A	D	L	kg
02469007	8-123-07	2.0	7, 8	18	9	131	0.7
02469010	8-123-10	3.15	10	25	11	162	1.5
02469013	8-123-13	5.3	13	30	16	214	3.2
02469016	8-123-16	8.0	16	36	19	243	5.4
02469019	8-123-20	12.5	18 – 20	42	22	285	9.0



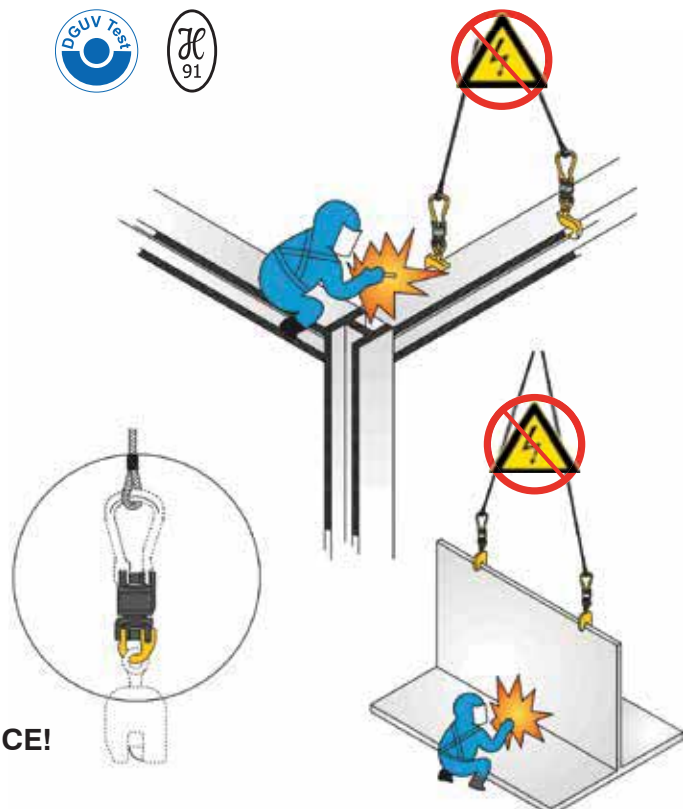
- Supplied with two Half Links
- Ball bearing allows unit to swivel under load.
- Design factor 4:1 proof tested and certified.
- Complies with EN1677.
- Manufactured in Taiwan.



YOKE INSULATION SOLUTION

The Yoke Insulated Swivel is designed to provide for protection during overhead crane or electric hoist welding operations.

- Heavy hoisting with a strong but lightweight system.
- Fully rotational at maximum Working Load Limit (WLL)
- Individual swivels are 100% proof load tested to a minimum of 2.5 times the Working Load Limit.
- All swivels are individually tested during manufacturing to assure 1,000 Volts insulating property.
- Test certificate is packed with each unit.
- Acquired certificate approved by Deutsche Gesetzliche Unfallversicherung (DGUV).



1,000 VOLTS RESISTANCE!



• Never exceed manufacturer's Working Load Limit (WLL).

LOAD PIN KITS

Load & Retainer Pin Sets



Product Code	Yoke Item No.	Suits Yoke Clevis Component Types	Size
			mm
02474007	8-P026-07	YG, YD, YM, YK, YT, YR, KC, KCK	7 – 8
02474010	8-P026-10	YG, YD, YM, YK, YT, YR, KC, KCK	10
02474013	8-P026-13	YG, YD, YM, YK, YT, YR, KC, KCK	13
02474016	8-P026-16	YG, YD, YM, YK, YT, YR, KC, KCK	16
02474019*	8-P026-20	YG, YD, YM, YK, YT, YR, KC, KCK	18 – 20
02474022	8-P026-22	YG, YD, YM, YK, YT, YR, KC, KCK	22



* Note: 02474019 (8-P026-20) can't be used with 20mm Clevis Grab Hook (02467019) or 20mm Clevis Clutch (02468019).

- Kit consists of one Load Pin and two Retaining Pins.
- Load Pins individually inspected after manufacture.
- Manufactured in Taiwan.



• Cookes recommend that load pins and retaining pins are replaced whenever clevis components are refitted.



• For use with specified Yoke components only

CHAIN SLING WORKING LOAD LIMITS

The Uniform Method for Rating GRADE 100 Chain Slings

Lifting Mode	1 Leg	2 Leg			3 & 4 Leg – Same Ratings		
Chain Ø	Factor 1	Factor 1.7	Factor 1.4	Factor 1	Factor 2.6	Factor 2.1	Factor 1.5
mm	0°	60°	90°	120°	60°	90°	120°
6.00	1.50	2.55	2.10	1.50	3.90	3.15	2.25
7.00	2.00	3.40	2.80	2.00	5.20	4.20	3.00
8.00	2.50	4.25	3.50	2.50	6.50	5.25	3.75
10.00	4.00	6.80	5.60	4.00	10.40	8.40	6.00
13.00	6.70	11.40	9.40	6.70	17.40	14.00	10.00
16.00	10.00	17.00	14.00	10.00	26.00	21.00	15.00
19.00	14.00	23.80	19.60	14.00	36.40	29.40	21.00
20.00	16.00	27.20	22.40	16.00	41.60	33.60	24.00
22.00	19.00	32.30	26.50	19.00	49.40	39.90	28.50
26.00	21.00	35.70	29.50	21.00	59.80	44.00	31.50
32.00	26.50	45.00	37.10	26.50	68.90	55.70	39.80
32.00	40.00	68.00	56.00	40.00	104.00	84.00	60.00

WORKING LOAD LIMITS (TONNES)

The Working Load Limits (WLL) listed in the table above are the maximum weights which slings are designed to sustain in general lifting service according to the standard Uniform Load Method of rating. General purpose chain slings must always be rated by the Uniform Method. Under this method, four-leg chain slings have the same WLL rating as three-leg slings based on an assumption that at least one leg of a four-leg sling may not be accepting its full share of the load.

In exceptionally hazardous conditions or in any other circumstances which might indicate a need for the Working Load Limit lower than the designated figure, the degree of hazard should be assessed by a competent person and a Safe Working Load (SWL) determined.

RATING SPECIAL PURPOSE CHAIN SLINGS BY THE TRIGONOMETRIC METHOD

The alternative Trigonometric Method may only be used where a multi-leg sling is to be used for a **specific lifting application**, with the angle between the legs pre-determined and constant. In such cases the WLL can be calculated on the basis of the specific angle specified and the chain sling will be tagged accordingly.



• For further information on trigonometric rating of chain slings, please contact your local Cookes branch, Freephone 0508 274 366 or email customerservices@bridoncookes.co.nz.



• When slings are used in a choke hitch or grab hooks fitted as bottom hooks, the WLL must be reduced by 20%.
• For G80 sling ratings refer to page 9.



• Never exceed manufacturer's Working Load Limit (WLL).
• Never use a chain assembly for lifting unless it has been tagged and certified by a reputable supplier.
• Never exceed 120° included sling angle between legs.

GRADE 100

LIFTING CHAIN

Kito Peerless Grade 100 Alloy Chain



Product Code	Nominal Size	WLL t	Inside Link Dimension (mm)		Approx. Weight kg / mtr
	mm		Length (Nom)	Width (Min)	
02399406	6	1.4	18	7.80	0.83
02399407	7	1.9	21	9.10	1.17
02399408	8	2.5	24	10.40	1.51
02399410	10	4.0	30	13.00	2.40
02399413	13	6.7	39	16.90	4.00
02399416	16	10.0	48	20.80	6.00
02399420	20	16.0	60	26.00	9.21
02398922	22	19.0	69	32.00	11.80
02398926	26	26.5	79	36.07	15.00



- A rugged high strength Alloy Steel chain.
- Designed to meet dimensional requirements of EN818-2.
- Fully tested and certified.
- Sizes 6mm - 20mm manufactured by Kito Weissenfels, Italy
- Sizes 22mm and 26mm manufactured by Kito Peerless, USA

Kuplex Grade 100 Alloy Chain



Product Code	Nominal Size	WLL t	Inside Link Dimension (mm)		Approx. Weight kg / mtr
	mm		Length (Nom)	Width (Min)	
02400107	7	2.0	21	9.1	1.09
02400110	10	4.0	30	13.0	2.20
02400113	13	6.7	39	16.9	3.62
02400116	16	10.0	48	20.8	5.42
02400119	19	14.0	57	24.7	7.96
02400123	23	21.0	69	29.9	11.83
02400126	26	27.0	78	33.8	14.99
02400132	32	40.0	96	41.6	21.99



- Heat treated, high strength Alloy Steel chain.
- High wear and fatigue properties.
- Designed to meet dimensional requirements of EN818-2 and ISO3076.
- Rust preventative coating.
- Fully tested and certified.
- Manufactured in France.



• Never exceed manufacturer's Working Load Limit (WLL).

GRADE 100

MASTER LINKS & MULTI OBLONG LINKS

Highest quality master links from world leading manufacturers.



MASTER LINKS – 1 LEG SLINGS

Kuplink – Type KS

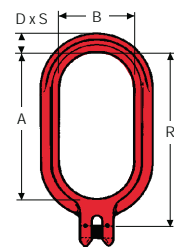
Crosby  **Kuplex**

Product Code	KUPLEX Item No.	WLL	Suit Chain	Dimensions (mm)					Weight
		t	Ø (mm)	A	B	R	D	S	kg
02404907	KS7N	2.0	7	152	76	178	17	13	0.64
02404910	KS10N	4.0	10	152	76	190	22	16	1.15
02404913	KS13N	6.7	13	178	108	220	28	21	2.13
02404916	KS16N	10.0	16	228	127	285	38	27	4.69



A flat section Master Link for single leg slings that dispenses with the need for a separate connector.

- Clevis for direct connection to chain.
- 4:1 design factor.
- Complies with EN1677.
- Manufactured in the U.K.



• The Kuplex Kuplink allows quick and easy assembly of single leg chain slings.



• Never exceed manufacturer's Working Load Limit (WLL).

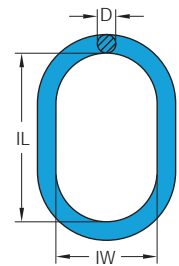
GRADE 100

MASTER LINKS – 1 & 2 LEG SLINGS

Oblong Master Link – Type X-003



Product Code	Yoke Item No.	WLL β 0-45°	For G100 Chain (mm)		Dimensions (mm)			Weight
		t	1 Leg	2 Leg	D	IL	IW	kg
02456707	X-003-0806	2.9	7, 8	6	14	120	70	0.5
02456710	X-003-1008	5.3	10	7, 8	17	140	80	0.7
02456713	X-003-1310	8.4	13	10	22	160	95	1.5
02456716	X-003-1613	14.1	16	13	28	180	105	2.7
02456719	X-003-19	16.0	19, 20	—	30	200	120	3.5
02456722	X-003-2216	21.0	22	16	34	240	140	5.3
02456725	X-003-26	26.5	26	—	38	250	150	7.4
02456726	X-003-2619	33.6	26	19, 20	40	250	150	8.2
02456732	X-003-3222	39.9	32	22	45	300	180	12.3



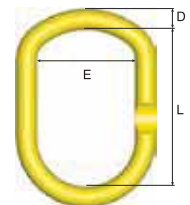
Yoke Master Links are suitable for single and double leg slings fabricated from chain, wire rope, webbing and fibre rope.

- Forged alloy steel.
- Design factor 4:1 proof tested and certified
- Manufactured in Taiwan.



Oblong Master Link – Large Series

Product Code	Manufacturers Item No.	WLL	For G100 Chain (mm)		Dimensions (mm)			Weight
		+	1 Leg	2 Leg	L	E	D	kg
02265413	MHF-1310-10	7.5	13	10	230	125	22	1.9
02265416	MHF-1613-10	10	16	13	250	135	28	3.2
02265420	MHF 2016-10	17	20	16	280	135	32	4.6
02265422	MHF 2220-10	28	-	20	320	175	40	8.6



Hybrid series master link with larger radius ensuring a perfect fit on the crane hook.

- Ensures less wear and tear on the crane hook and the master link.
- Shape allows master link to automatically centre the load.
- Design factor 4:1
- Manufactured in Sweden.



- Grade 100 Master Links are also suitable for use on Wire Rope sling assemblies.
- Sling eyes must be able to articulate freely on the master link – refer your nearest Cookes branch for assistance and advice.



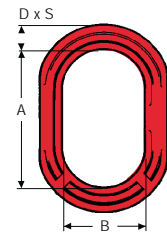
- Never exceed manufacturer's Working Load Limit (WLL).

MASTER LINKS – 1 & 2 LEG SLINGS

Master Link – Type KM

Grosby  **Kuplex**

Product Code	KUPLEX Item No.	WLL	Dimensions (mm)				Weight
		t	A	B	D	S	kg
02439902	KM-B	4.2	152	76	22	14	0.81
02439903	KM-C	8.4	178	108	30	20	1.70
02439904	KM-D	14.0	228	127	40	27	4.06
02439905	KM-E	21.2	254	140	45	28	5.76
02439906	KM-F	30.0	305	171	53	36	10.56
02439907	KM-G	44.0	305	203	69	40	16.58
02439908	KM-HN	57.0	340	210	74	48	22.02



A flat section Master Link suitable for use with 1 and 2 leg slings.

- 4:1 design factor.
- Complies with EN1677.
- Connect to chain with Kupler Connecting Links (refer page 51).
- Manufactured in the U.K.

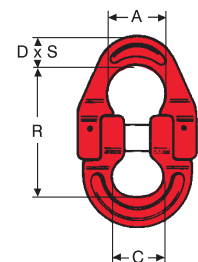
Kuplex® KM Series Usage Table for G100 Chain Slings

Reference	Single Leg	Two Leg
KM-B	7/10	7
KM-C	13	10
KM-D	16/19	13/16
KM-E	22/23	19
KM-F	26	23
KM-G	32	26
KM-HN	32	32

Auxillary Link – Type KAL

Grosby  **Kuplex**

Product Code	KUPLEX Item No.	WLL	Dimensions (mm)					Weight
		t	R	C	A (DIA)	D	S	kg
02440907	KAL7	3.2	79	31	34	17	12	0.52
02440910	KAL10	6.4	110	44	46	24	17	1.74
02440913	KAL13	10.8	143	57	60	30	21	2.89
02440916	KAL16	16	187	71	76	37	26	6
02440919	KAL19	23	232	90	90	44	31	10.25



A mechanically assembled link allowing fabrication of 3 and 4 leg slings when used in conjunction with KM series Master Link above.

- 4:1 design factor.
- Complies with EN1677.
- Manufactured in the U.K.



• Never exceed manufacturer's Working Load Limit (WLL).

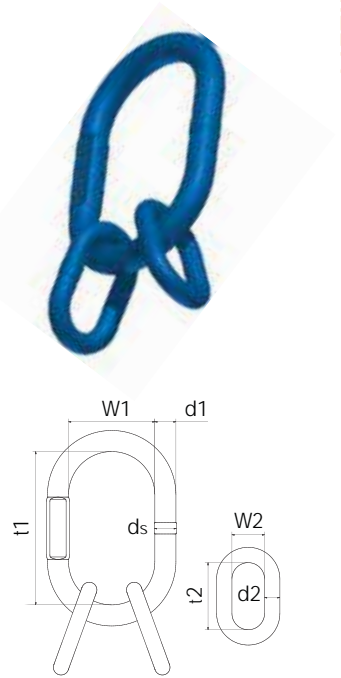
GRADE 100

MULTI OBLONG LINKS – 3 & 4 LEG SLINGS

Multi Link Assemblies – Small Droppers



Product Code	Drakena Code	For Chain	WLL (t)	Dimensions (mm)			Dimensions (mm)			Weight kg
		Ømm	0-45°	d1	t1	W1	d2	t2	W2	
02265207	XDAK18	7	4.0	18	135	75	13	54	25	1.16
02265208	XDAK22	8	5.3	22	160	90	16	70	34	2.22
02265210	XDAK26	10	8.0	26	180	100	18	85	40	3.36
02265213	XDAK32	13	14.0	32	200	110	22	115	50	6.02
02265216	XDAK36	16	21.2	36	260	140	26	140	65	9.94
02265220	XDAK5132	20	33.6	51	350	190	32	150	70	23.3
02265222	XDAK5136	22	40.0	51	350	190	36	170	75	25.8
02265226	XDAK57	26	55.65	57	400	200	40	170	75	35.2



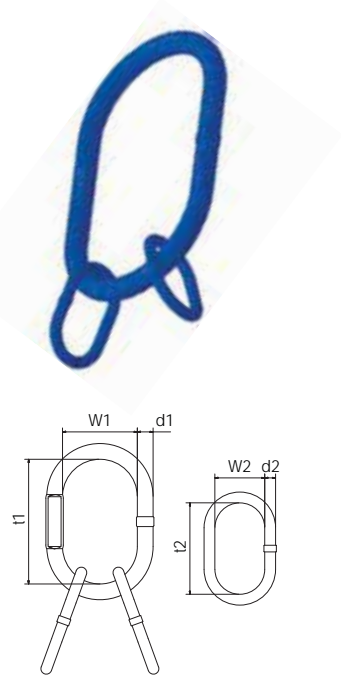
Designed for 3 and 4-leg chain sling assemblies.

- Manufactured in accordance with EN1677-4.
- 4:1 design factor.
- Blue epoxy painting.
- Manufactured in Germany

Multi Link Assemblies For Large Crane Hook



Product Code	Drakena Code	For Chain	WLL	Dimensions (mm)			Dimensions (mm)			Weight kg
		Ømm	t	d1	t1	w1	d2	t2	w2	
02265310	XDK25t/4-10	10	8.0	30	340	180	18	135	75	7.07
02265313	XDK25t/4-13	13	14.0	40	340	180	22	160	90	13.00
02265316	XDK25t/4-16	16	21.2	40	340	180	26	180	100	14.59



Oversized to suit large Crane Hooks. Designed for 3 and 4-leg sling assemblies.

- Generous main link dimensions to suit larger crane hooks to DIN15401.
- Manufactured in accordance with EN1677-4.
- 4:1 design factor.
- Blue epoxy painting.
- Manufactured in Germany.



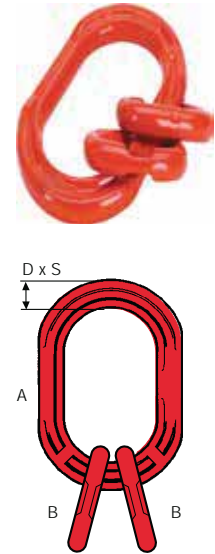
• Never exceed manufacturer's Working Load Limit (WLL).

MULTI OBLONG LINKS – 3 & 4 LEG SLINGS

Litalink – Type KMML

Grosby  **Kuplex**

Product Code	KUPLEX Item No.	WLL	Suit Chain	Dimensions (mm)				Weight
		t	Ø (mm)	Link A	Link B	D x S	B Ø	kg
02443901	KMML7	4.2	7	152 x 76	63 x 34	22 x 14	13.0	1.15
02443902	KMML10	8.4	10	178 x 108	86 x 44	30 x 20	20.0	2.90
02443903	KMML13	14.0	13	228 x 127	113 x 70	40 x 27	26.0	6.18
02443904	KMML16	21.2	16	254 x 140	135 x 70	45 x 28	32.5	10.76
02443905	KMML19	30.0	19	305 x 171	155 x 85	53 x 36	38.0	20.00
02443906	KMML23	44.0	23	305 x 203	175 x 105	69 x 40	47.0	35.00
02443907	KMML26	57.0	26	340 x 210	220 x 135	74 x 48	55.0	48.00



A traditional Kuplex® flat section multi-oblong link.

- Designed for use with 3 and 4-leg chain sling assemblies.
- Complies with EN1677.
- 4:1 design factor.
- Connect to chain with Kupler Connecting Links (refer page 51).
- Manufactured in the U.K.



Examples of 3 and 4-leg Kuplex Slings with KMML Multi-Oblong Link:



3-Leg Kuplex chain sling fitted with KSCN Shortening Clutches and KHNL Sling Hooks..



4-Leg Kuplex chain sling fitted with KSCN Shortening Clutches and KHNL Sling Hooks.



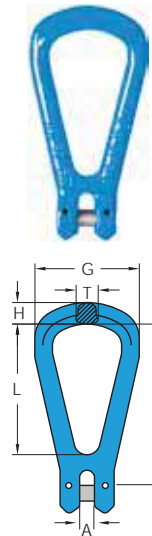
• Never exceed manufacturer's Working Load Limit (WLL).

PEAR LINKS

Clevis Pear Link – Type X-059



Product Code	Yoke Item No.	WLL*	G100 Chain	Dimensions (mm)						Weight kg
		t	mm	A	G	H	K	L	T	
02470707	X-059-07	2.5	7, 8	9	65	15	99	80	15	0.4
02470710	X-059-10	4.0	10	11	80	18	125	100	19	0.8
02470713	X-059-13	6.7	13	14	108	22	168	136	25	1.5
02470716	X-059-16	10.0	16	18	124	26	198	158	27	2.4



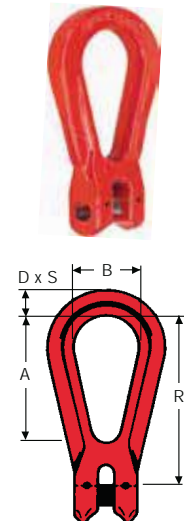
Pear Links are commonly used in choking applications.

- Fully reeveable and compact.
- Design factor 4:1 proof tested and certified.
- Manufactured in Taiwan.

Clevis Pear Link – Type KSS



Product Code	KUPLEX Item No.	WLL*	Dimensions (mm)					Weight kg
		t	A	B	R	D	S	
02409907	KSS7N	2.0	70	35	92	14	10	0.27
02409910	KSS10N	4.0	102	51	132	19	14	0.74
02409913	KSS13N	6.7	137	67	177	26	20	1.92
02409916	KSS16N	10.0	172	83	220	32	24	3.17
02409919	KSS19N	14.0	203	98	261	38	28	5.58
02409923	KSS23N	21.0	238	114	305	40	38	8.42



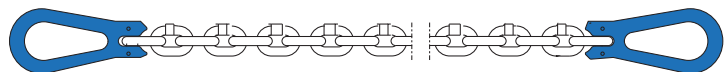
Pear Links are commonly used in choking applications.

- Traditional Kuplex flat section material.
- Complies with EN1677.
- Design factor 4:1.
- Manufactured in the U.K.



Example of Use:

Single Leg Reeveable Collar Chain Sling.



• When choked, the sling Working Load Limit must be reduced by 20%.



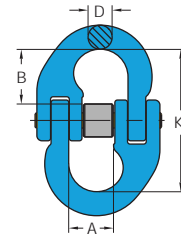
• Never exceed manufacturer's Working Load Limit (WLL).

CONNECTORS

Connecting Link – Type X-015



Product Code	Yoke Item No.	WLL	G100 Chain	Dimensions (mm)				Weight
		t	mm	A	B	D	K	kg
02459707	X-015-07	2.5	7, 8	18	25	9	59	0.2
02459710	X-015-10	4.0	10	25	28	11	69	0.3
02459713	X-015-13	6.7	13	30	38	16	92	0.7
02459716	X-015-16	10.0	16	36	41	19	101	1.2
02459719	X-015-20	16.0	20	42	50	23	122	2.1
02459722	X-015-22	19.0	22	49	63	24	152	3.5
02459726	X-015-26	26.5	26	55	66	30	162	4.8



Provides a fast and safe means of assembling, dismantling and reassembling chain slings.

- Design factor 4:1 proof tested and certified.
- Manufactured in Taiwan.

Spare Pin & Sleeve Set – to Suit Type X-015



Product Code	Yoke Item No.	Suits Yoke Connectors
		Product Code
02459807	X-P015-07	02459707
02459810	X-P015-10	02459710
02459813	X-P015-13	02459713
02459816	X-P015-16	02459716
02459819	X-P015-20	02459719
02459822	X-P015-22	02459722
02459826	X-P015-26	02459726



- Manufactured in Taiwan.



- Never exceed manufacturer's Working Load Limit (WLL).
- Safe Use: Each connector body half should not have in use more than one load bearing component or chain.
- Avoid over-crowding to ensure load will be transmitted axially.

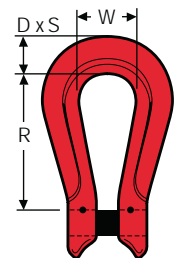
GRADE 100

CONNECTORS

Kupler Connecting Link – Type K



Product Code	KUPLEX Item No.	WLL	Suit Chain	Dimensions (mm)				Weight
		t	Ø (mm)	R	W	D	S	kg
02403907	K7N	2.0	7	60	26	12	10	0.15
02403910	K10N	4.0	10	73	35	19	15	0.47
02403913	K13N	6.7	13	95	45	25	22	1.01
02403916	K16N	10.0	16	118	54	28	23	1.66
02403919	K19N	14.0	19	134	64	34	28	2.78
02403923	K23N	21.0	23	121	64	45	38	4.26
02403926	K26	27.0	26	140	82	48	45	6.30
02403932	K32	40.0	32	175	96	64	51	11.48



This component is used for joining chain to KM Master Links or to KMML Litalinks.

- Complies with EN1677.
- 4:1 design factor.
- Manufactured in the U.K.



Kuplex® Kupler Connecting Links can be used to connect chains to KM Master Links or KMML Litalinks in various sling configurations.



• Never exceed manufacturer's Working Load Limit (WLL).

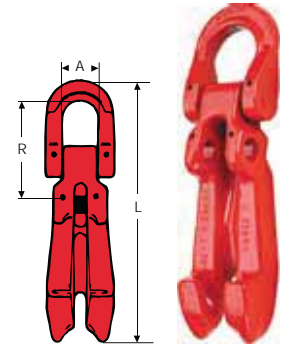
SHORTENING CLUTCHES

Shortening Clutches enable a multi-leg chain sling to have different leg lengths as required to adjust to the balance or required lifting angle of the load. Cookes offer several styles of shortening clutch to meet users preferences.

Shortening Clutch – Type KSCN

Crosby® Kuplex®

Product Code	KUPLEX Item No.	WLL	Suit Chain	Dimensions (mm)			Weight kg
		t	Ø (mm)	L	R	A	
02411907	KSC7N	2.0	7	161	60	26	0.53
02411910	KSC10N	4.0	10	211	73	36	1.28
02411913	KSC13N	6.7	13	272	95	46	2.70
02411916	KSC16N	10.0	16	360	118	56	5.26
02411919	KSC19N	14.0	19	427	134	68	9.87



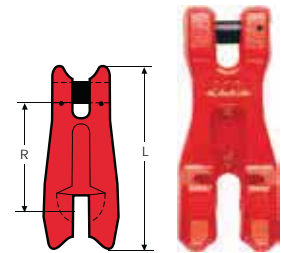
This unique component for leg length adjustment is a major feature of the KUPLEX system. It caters for loads of irregular shape or for a general lack of headroom and allows safe leg length adjustment of any number of legs with the load remaining fully in line.

- Complies with EN1677.
- 4:1 design factor.
- Manufactured in the U.K.

Shortening Clutch – Type KSC

Crosby® Kuplex®

Product Code	KUPLEX Item No.	WLL	Suit Chain	Dimensions (mm)		Weight kg
		t	Ø (mm)	L	A	
02411023	KSC23	21	23	308	190	10.02
02411026	KSC26	27	26	360	226	15.39



Performs a function similar to that of KSCN, but requires separate suspension on the master link or multi-oblong link using a connector and three links of chain.

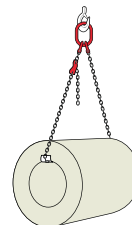
- Complies with EN1677.
- 4:1 design factor.
- Manufactured in the U.K.



The correct use of KUPLEX Shortening Clutches:



KSCN Shortening Clutch in use.

KSC Shortening Clutch in use.
Basket configuration.

- Note that the loaded end of the chain must come out of the bottom of the clutch.



Use of Clevis Grab Hooks for shortening

- Grade 100 cradle type Grab Hooks with supporting wings may also be used as chain leg shortening devices with no derating of WLL. For specifications refer page 61.



- Never exceed manufacturer's Working Load Limit (WLL).

HOOKS

Choosing the correct lifting hook.

The hook is a crucial element in ensuring safe lifting, therefore always give careful consideration to the type of lift, the shape of the load, and then select the hook best suited to the application.



Self Locking Hooks

May also be referred to as 'Safety Locking Hooks' or 'Latchlok Hooks'. Self locking hooks are designed to pivot in the middle and lock once the load is applied. It requires pressure on the trigger to release the hook when the load is grounded. The hook pivots fully open to give unrestricted access to the hook bowl. Always ensure the load is supported in the bowl of the hook.



Swivel Self Locking Hooks

Same operation as the conventional self locking hook but incorporates a bow and swivel assembly. Where the swivel action is required only to position a load choose a plain bearing model. When the swivel is required to rotate under load choose only a ball bearing model. Always ensure the load is supported in the bowl of the hook.



Safety Handle Self-Locking Hooks

A self-locking hook with added safety handle designed to eliminate the serious pinch and hand-trap hazards associated with traditional lifting hooks. Available as a standard eye type hook or with swivel top.



Sling Hooks

May also be referred to as 'Slip Hooks'. The sling hook was for many years the standard choice for lifting chains. It has been overtaken in popularity to some extent by the self locking hook but still remains very popular today. Always ensure the load is supported in the bowl of the hook and that the safety latch is engaged.

HOOKS

Choosing the correct lifting hook.

The hook is a crucial element in ensuring safe lifting therefore always give careful consideration to the type of lift, the shape of the load, and then select the hook best suited to the application.

**Grab Hooks**

May also be referred to as a 'Snig Hook'. The narrow throat of a grab hook allows one link of chain to be seated and effectively grabbed. Grab hooks may be used to choke a load or are commonly used for shortening of chain legs. **Always insist on the cradle type grab hook with supporting wings.** Where used as a shortening device cradle type grab hooks maintain their full WLL. When cradle type grab hooks are used as bottom hooks for choking purposes, the sling WLL must be derated by 20%.

**Foundry Hooks**

Designed with a wide throat, these hooks are ideal for unusually bulky attachment points. Foundry hooks do not incorporate a safety latch. Under the Approved Code of Practice for Load Lifting Rigging, such hooks may only be used where fitting and removing of a load cannot be physically achieved with a hook incorporating a safety latch. It is the user's responsibility to ensure that a foundry hook is safe for the intended application and meets the requirements of the Code. Always ensure the load is supported in the bowl of the hook.

**C Hooks**

This style of hook has a projection over the hook tip intended to stave off obstructions which might otherwise foul the hook tip during lifting. C Hooks do not incorporate a safety latch. Under the Approved Code of Practice for Load Lifting Rigging, such hooks may only be used where fitting and removing of a load cannot be physically achieved with a hook incorporating a safety latch. Always ensure the load is supported in the bowl of the hook.

Safety Latches

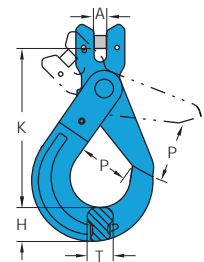
- As detailed in the Approved Code of Practice for Load-Lifting Rigging (5th edition 2012): "Safety latches are to be fitted to hooks unless fitting and removal of the load cannot be physically achieved with a latch fitted, for example: using a molten metal pouring ladle in a steel works".

HOOKS

Clevis Self-Locking Hook – Type X-026



Product Code	Yoke Item No.	WLL	G100 Chain	Dimensions (mm)					Weight
		t	mm	A	H	K	P	T	kg
02461707	X-026-07	2.5	7, 8	9	24	119	34	20	0.9
02461710	X-026-10	4.0	10	11	30	142	44	26	1.4
02461713	X-026-13	6.7	13	14	39	178	51	30	3.0
02461716	X-026-16	10.0	16	18	49	213	60	36	5.0
02461719	X-026-20	16.0	20	21	65	244	70	53	11.0
02461722	X-026-22	19.0	22	24	63	273	80	49	13.5



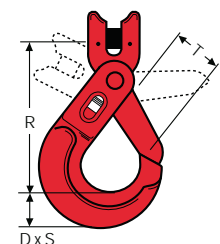
Designed so the latch cannot open under load and requires pressure on the trigger to release the hook when the load is grounded.

- Latch trigger on rear of hook.
- Design factor 4:1 proof tested and certified.
- Replacement trigger kits available.
- Manufactured in Taiwan.

Clevis Self Locking Hook – Type KHXC



Product Code	KUPLEX Item No.	WLL	G100 Chain	Dimensions (mm)				Weight
		t	mm	R	D	S	T	kg
02417907	KHX7C	2.0	7	117	25	19	36	0.82
02417910	KHX10C	4.0	10	146	32	24	47	1.51
02417913	KHX13C	6.7	13	181	42	30	56	3.15
02417916	KHX16C	10.0	16	223	49	36	70	5.27



Designed so the latch cannot open under load and requires pressure on the trigger to release the hook when the load is grounded.

- Latch trigger on side of hook.
- Complies with EN1677.
- 4:1 design factor.
- Replacement trigger kits available.
- Manufactured in the U.K.



- Yoke Self-Locking Hooks have the latch trigger on the rear of hook.
- Kuplex® Self-Locking Hooks have the latch trigger on the side of hook as illustrated above.



- Never exceed manufacturer's Working Load Limit (WLL).

HOOKS

Eye Self Locking Hook – Type KHXE

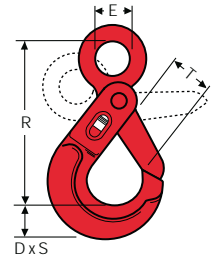
Grosby  **Kuplex**

Product Code	KUPLEX Item No.	WLL	G100 Chain	Dimensions (mm)					Weight
		t	mm	R	D	S	T	E Ø	kg
02417507	KHX7E	2.0	7	142	25	19	36	23	0.85
02417510	KHX10E	4.0	10	175	32	24	47	30	1.15
02417513	KHX13E	6.7	13	217	42	32	56	40	3.06
02417516	KHX16E	10.0	16	272	49	36	70	51	5.24
02417519*	KHX19E	14.0	19	277	66	53	80	65	9.50
02417523*	KHX23E	21.0	23	315	69	63	92	75	13.90

* Available on indent.

Designed so the latch cannot open under load and requires pressure on the trigger to release the hook when the load is grounded.

- Latch trigger on side of hook.
- Complies with EN1677.
- 4:1 design factor.
- Replacement trigger kits available.
- Manufactured in the U.K.



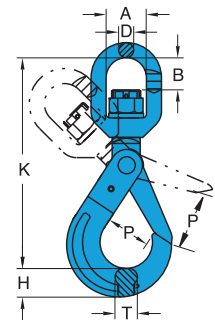
• Never exceed manufacturer's Working Load Limit (WLL).

HOOKS

Eye Swivel Self Locking Hook – Type X-027N (Ball Bearing)



Product Code	KUPLEX Item No.	WLL	G100 Chain	Dimensions (mm)							Weight kg
		t	mm	A	B	D	H	K	P	T	
02462707N	X-027N-07	2.5	7, 8	36	29	13	24	186	34	20	1.3
02462710N	X-027N-10	4.0	10	41	34	16	30	218	44	26	2.0
02462713N	X-027N-13	6.7	13	46	43	21	39	276	51	30	4.3
02462716N	X-027N-16	10.0	16	61	50	23	49	329	60	36	7.3
02462719N	X-027N-20	16.0	20	74	82	25	65	387	70	53	13.0
02462722N	X-027N-22	19.0	22	97	95	33	63	457	80	49	20.0
02462726N	X-027N-26	26.5	26	123	115	42	69	535	99	56	32.7

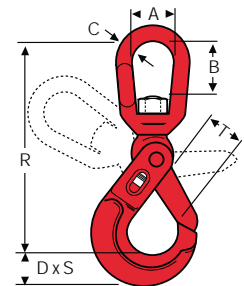


Designed so the latch cannot open under load and requires pressure on the trigger to release the hook when the load is grounded. With Ball Bearing, which allows swivel to operate under load.

- Latch trigger at rear of hook.
- Design factor 4:1 proof tested and certified.
- Replacement trigger kits available.
- Manufactured in Taiwan.

Eye Swivel Self Locking Hook – Type KHXS (Plain Bearing) **Grosby** **Kuplex**

Product Code	KUPLEX Item No.	WLL	G100 Chain	Dimensions (mm)							Weight kg
		t	mm	A	B	R	D	S	T	C Ø	
02417007	KHX7S	2.0	7	42	42	202	25	19	36	12	1.24
02417010	KHX10S	4.0	10	50	46	235	32	24	47	15	2.11
02417013	KHX13S	6.7	13	60	62	293	42	30	56	19	4.28



Designed so the latch cannot open under load and requires pressure on the trigger to release the hook when the load is grounded. With plain bearing for load positioning applications.

- Plain Bearing.
- Latch trigger on side of hook.
- Complies with EN1677.
- 4:1 design factor.
- Replacement trigger kits available.
- Manufactured in the U.K.



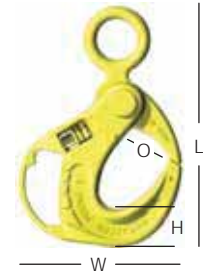
- Never exceed manufacturer's Working Load Limit (WLL).
- The KHXS hook is a positioning device & is not intended to rotate under load.

HOOKS

Eye Self Locking Safety Handle Hook



Product Code	Nautilus Item No.	WLL	Chain Size	Dimensions (mm)				Weight
		t	mm	L	H	W	O	kg
02445004E	NH-SL4E	4.0	10	216	32	156	47	2.6



Eye Swivel Self Locking Safety Handle Hook

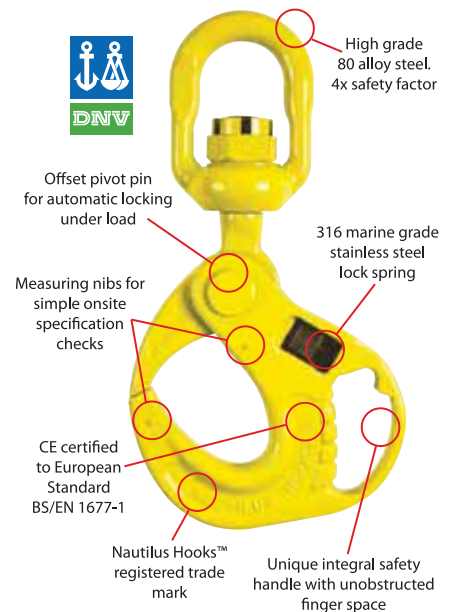


Product Code	Nautilus Item No.	WLL	Chain Size	Dimensions (mm)				Weight
		t	mm	L	H	W	O	kg
02445004S	NH-SL4S	4.0	10	242	32	156	47	3.1



NAUTILUS™ HOOKS PROVIDE THE ULTIMATE SAFETY IN SELF-LOCKING LIFTING HOOKS.

- The safety features provide a unique and very simple operation.
- The integral handle protects operators' hands and removes them from the hook and sling interface area.
- Manufactured from high-grade carbon alloy steel.
- Corrosion-resistant stainless steel spring.
- Complies with EN1677.
- 4:1 design factor.
- Manufactured in the U.K.



- Self-locking safety hooks with features which eliminate the risk of potentially serious pinch and trap hand injuries often associated with the use of traditional 'self-locking' hooks.



- Never exceed manufacturer's Working Load Limit (WLL).
- The Nautilus Safety Handle Hooks are positioning devices and are not intended to rotate under load.

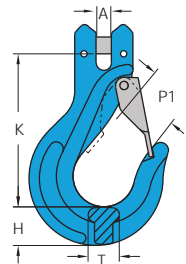
GRADE 100

HOOKS

Clevis Sling Hook – Type X-043/S



Product Code	Yoke Item No.	WLL	G100 Chain	Dimensions (mm)					Weight
		t	mm	A	H	K	P1	T	kg
02472707	X-043/S-07	2.5	7, 8	9	22	98	27	18	0.6
02472710	X-043/S-10	4.0	10	11	30	122	34	24	1.1
02472713	X-043/S-13	6.7	13	14	37	147	44	30	2.3
02472716	X-043/S-16	10.0	16	17	42	166	48	39	3.8
02472719	X-043/S-20	16.0	20	24	64	207	57	48	8.7
02472722	X-043/S-22	19.0	22	25	61	217	73	52	9.5

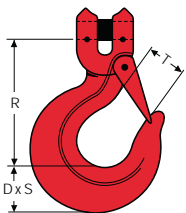


- Includes safety latch.
- Replacement safety latches available.
- Design factor 4:1 proof tested and certified.
- Manufactured in Taiwan.

Clevis Sling Hook – Type KH & KHN



Product Code	KUPLEX Item No.	WLL	Dimensions (mm)				Weight
		t	R	D	S	T	kg
02405607	KHN7L	2.0	75	26	19	21.5	0.42
02405610	KHN10L	4.0	107	37	27	31.0	1.10
02405613	KHN13L	6.7	139	48	36	40.0	2.60
02405616	KHN16L	10.0	171	59	43	53.5	4.41
02405619	KHN19L	14.0	203	70	50	62.0	7.81
02405623*	KH23	21.0	222	79	51	60.0	13.14
02405626*	KH26	27.0	251	89	60	72.0	18.94
02405632	KHN32L	40.0	334	118	85	106.0	34.61



* Supplied without safety latch as standard.

- Safety latches available for all sizes (must be purchased separately for models KH23 and KH26).
- 4:1 design factor.
- Manufactured in the U.K.



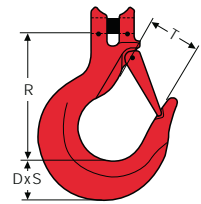
• Never exceed manufacturer's Working Load Limit (WLL).

HOOKS

Clevis Wide Bowl Sling Hook – Type KHWN

Grosby  **Kuplex**

Product Code	KUPLEX Item No.	WLL	Dimensions (mm)					Weight
		t	R	D	S	T no Latch	T w/ Latch	kg
02438007	KHW7N	2.0	95	29	21	37	32	0.7
02438010	KHW10N	4.0	130	42	30	48	44	1.9
02438013	KHW13N	6.7	168	52	38	66	59	4.0
02438016	KHW16N	10.0	208	65	48	79	74	7.1



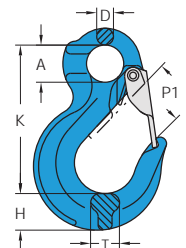
Designed with a more generous throat opening and bowl than conventional sling hooks.

- Includes safety latch.
- Replacement safety latches available.
- 4:1 design factor.
- Manufactured in the U.K.

Eye Sling Hook – Type X-044/S

YOKE

Product Code	Yoke Item No.	WLL	G100 Chain	Dimensions (mm)						Weight
		t	mm	A	D	H	K	P1	T	kg
02472726E	X-044/S-26	26.5	26	65	35	80	279	77	60	13.5
02472732E	X-044/S-32	40.0	32	88	40	86	352	114	65	22.0



- Includes safety latch.
- Replacement safety latches available.
- Design factor 4:1 proof tested and certified.
- Manufactured in Taiwan.



• Eye Sling Hooks are suitable for use on both lifting slings and winch cables.



• Never exceed manufacturer's Working Load Limit (WLL).

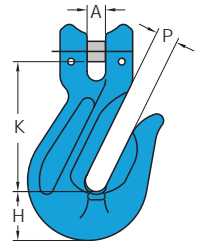
GRADE 100

HOOKS

Clevis Grab Hook – Type X-042



Product Code	Yoke Item No.	WLL	G100 Chain	Dimensions (mm)				Weight
		t	mm	A	H	K	P	kg
02467707	X-042-07	2.5	7, 8	10	22	54	10	0.4
02467710	X-042-10	4.0	10	11	29	77	13	0.8
02467713	X-042-13	6.7	13	15	38	99	17	1.6
02467716	X-042-16	10.0	16	18	45	114	21	2.7
02467719	X-042-20	16.0	20	22	52	130	23	4.8
02467722	X-042-22	19.0	22	24	56	139	26	6.4



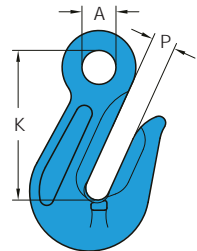
Supporting wings prevent chain link deformation. No reduction in WLL when used as a shortening device.

- Design factor 4:1 proof tested and certified.
- Manufactured in Taiwan.

Eye Grab Hook – Type X-041



Product Code	Yoke Item No.	WLL	G100 Chain	Dimensions (mm)			Weight
		t	mm	A	K	P	kg
02467726E	X-041-26	26.5	26	50	207	33	10.1



Supporting wings prevent chain link deformation. No reduction in WLL when used as a shortening device.

- Design factor 4:1 proof tested and certified.
- Use Yoke connector 02459726 (page 50) for chain connection.
- Manufactured in Taiwan.



• Where grab hooks are fitted as bottom hooks or chain is choked, the sling WLL must be derated by 20%.



• Never exceed manufacturer's Working Load Limit (WLL).

HOOKS

Clevis Foundry Hook – Type KF

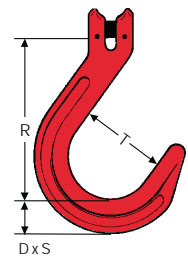
Grosby  **Kuplex**

Product Code	KUPLEX Item No.	WLL	Dimensions (mm)				Weight
		t	R	D	S	T	kg
02407907	KF7N	2.0	118	24	22	64	0.79
02407910	KF10N	4.0	137	32	30	76	1.74
02407913	KF13N	6.7	165	41	38	89	3.45
02407916*	KF16N	10.0	222	52	48	114	7.40
02407919*	KF19N	14.0	248	61	56	127	11.82
02407923*	KF23N	21.0	280	78	64	140	20.30

* These sizes available on indent only.

Designed with wide throat.

- 4:1 design factor.
- Complies with EN1677.
- Manufactured in the U.K.



Clevis C Hook – Type KC

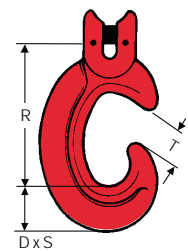
Grosby  **Kuplex**

Product Code	KUPLEX Item No.	WLL	Dimensions (mm)				Weight
		t	R	D	S	T	kg
02408907	KC7N	2.0	90	27	19	20	0.45
02408910	KC10N	4.0	127	38	27	28	1.26
02408913	KC13N	6.7	165	49	36	39	2.78
02408916*	KC16N	10.0	203	60	43	45	5.16
02408919*	KC19N	14.0	242	71	52	55	8.83

* These sizes available on indent only.

The profile of this hook is designed to prevent fouling of the tip of the hook on obstructions such as scaffolding.

- 4:1 design factor.
- Complies with EN1677.
- Manufactured in the U.K.



• Never exceed manufacturer's working load limit (WLL).



• Foundry Hooks and C Hooks do not include a safety latch and may only be used where fitting and removing of a load cannot be physically achieved with a hook incorporating a safety latch.

GRADE 100

TRIGGER KITS & SAFETY LATCH KITS

Replacement Trigger Kits for Self Locking Hooks



Product Code	Yoke Item No.	Suits Yoke G100 Hook Types	Size
			mm
02461507	8-P025-07	X-026, X-027N	7 – 8
02461510	8-P025-10	X-026, X-027N	10
02461513	8-P025-13	X-026, X-027N	13
02461516	8-P025-16	X-026, X-027N	16
02461519	8-P025-20	X-026, X-027N	20
02461522	8-P025-22	X-026, X-027N	22
02461526	8-P025-26	X-026, X-027N	26



Kit Designed for use with both, Grade 80 and Grade 100 Yoke Self Locking Hooks.

- Manufactured in Taiwan.

Replacement Safety Latch Kits for Sling Hooks



Product Code	Yoke Item No.	Suits Yoke G100 Hook Types	Size
			mm
02472507	8-P044-07	X-043/S, X-044/S,	7 – 8
02472510	8-P044-10	X-043/S, X-044/S,	10
02472513	8-P044-13	X-043/S, X-044/S,	13
02472516	8-P044-16	X-043/S, X-044/S,	16
02472519	8-P044-20	X-043/S, X-044/S,	20
02472522	8-P044-22	X-043/S, X-044/S,	22
02472526	8-P044-26	X-043/S, X-044/S,	26
02472532	8-P044-32	X-043/S, X-044/S,	32



Kit Designed for use with both, Grade 80 and Grade 100 Yoke Sling Hooks.

- Manufactured in Taiwan.

TRIGGER KITS & SAFETY LATCH KITS

Trigger Kits for Kuplex® Self Locking Hooks



Product Code	Kuplex Item No.	Suits Kuplex Hook Types	Size
			mm
02405207	KHX Trigger – 7	KHXC, KHXE, KHXS	7
02405210	KHX Trigger – 10	KHXC, KHXE, KHXS	10
02405213	KHX Trigger – 13	KHXC, KHXE, KHXS	13
02405216	KHX Trigger – 16	KHXC, KHXE, KHXS	16



Safety Latch – Type KHLN



Product Code	Kuplex Item No.	Suits Kuplex Sling Hook Product Code	Size
			mm
02418907	KHL7N	02405607	7
02418910	KHL10N	02405610	10
02418913	KHL13N	02405613	13
02418916	KHL16N	02405616	16
02418919	KHL19N	02405619	19



Hook Latch Assembly – Type KHL



Product Code	Kuplex Item No.	Suits Kuplex Sling Hook Product Code	Size
			mm
02418923	KHL23	02405623	23
02418926	KHL26	02405626	26



Includes a load pin to which the latch is attached.

Safety Latch – Type KHWL



Product Code	Kuplex Item No.	Suits Kuplex Wide Bowl Sling Hook Product Code	Size
			mm
02418902	KHWL7	02438007	7
02418903	KHWL10	02438010	10
02418904	KHWL13	02438013	13
02418905	KHWL16	02438016	16



- All Kuplex® trigger kits and safety latch kits manufactured in the U.K.

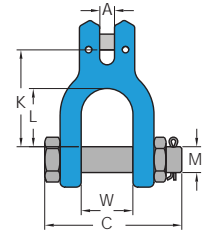
GRADE 100

CLEVIS SHACKLES

Clevis Shackle – Type X-066



Product Code	Yoke Item No.	WLL	G100 Chain	Dimensions (mm)						Weight kg
		t	mm	A	C	K	L	M	W	
02478707	X-066-07	2.5	7 – 8	9	79	59	35	16	33	0.4
02478710	X-066-10	4.0	10	11	93	78	48	20	37	0.8
02478713	X-066-13	6.7	13	14	118	98	64	22	49	1.4
02478716	X-066-16	10.0	16	18	141	112	69	28	60	2.5



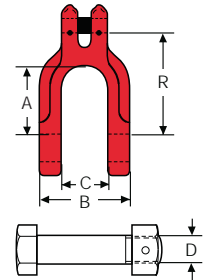
Clevis end connects directly to chain.

- Design factor 4:1 proof tested and certified.
- Manufactured in Taiwan.

Clevis Wide Jaw Shackle – Type KDL



Product Code	KUPLEX Item No.	WLL	G100 Chain	Dimensions (mm)					Weight kg
		t	mm	A	B	C	R	D	
02412907	KDL7N	2.0	7	48	65	35	71	19	0.71
02412910	KDL10N	4.0	10	74	83	44	104	22	1.36
02412913	KDL13N	6.7	13	98	109	57	136	29	3.02
02412916	KDL16N	10.0	16	122	140	73	173	35	6.18
02412919	KDL19N	14.0	19	145	162	86	203	44	10.62



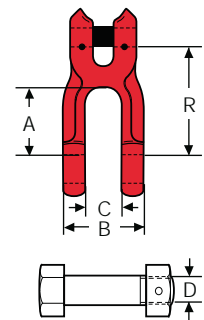
Has a wide jaw and attaches directly to the chain.

- Complete with bolt, hexagon nut and cotter pin.
- 4:1 design factor.
- Manufactured in the U.K.

Clevis Narrow Jaw Shackle – Type KDN



Product Code	KUPLEX Item No.	WLL	G100 Chain	Dimensions (mm)					Weight kg
		t	mm	A	B	C	R	D	
02412507	KDN7N	2.0	7	36	42	20	57	14	0.26
02412510	KDN10N	4.0	10	53	58	28	83	20	0.85
02412513	KDN13N	6.7	13	72	74	35	106	24	1.68
02412516	KDN16N	10.0	16	83	90	44	127	30	3.14



Has a narrow jaw and attaches directly to the chain.

- Complete with bolt, hexagon nut and cotter pin.
- 4:1 design factor.
- Manufactured in the U.K.

- Clevis Shackles negate the requirement for a separate shackle to be used.
- Perfect for connecting chain slings to the likes of plate lifting clamps.
- Grade 80 Clevis Shackles are also available, refer page 38.

- Never exceed manufacturer's Working Load Limit (WLL).

LOAD PIN KITS

Load Pins



Product Code	Kuplex Item No.	Suits Kuplex Clevis Component Types	Size
			mm
02416007	KP7	K, KC, KF, KS, KSS, KDL, KDN, KHN, KHX, KHWN	7
02416010	KP10	K, KC, KF, KS, KSS, KDL, KDN, KHN, KHX, KHWN	10
02416013	KP13	K, KC, KF, KS, KSS, KDL, KDN, KHN, KHX, KHWN	13
02416016	KP16	K, KC, KF, KS, KSS, KDL, KDN, KHN, KHX, KHWN	16
02416019	KP19	K, KC, KF, KS, KSS, KDL, KDN, KHN, KHX, KHWN	19
02416023	KP23	K, KC, KF, KS, KSS, KDL, KDN, KHN, KHX, KHWN	23
02416026	KP26	K, KC, KF, KS, KSS, KDL, KDN, KHN, KHX, KHWN	26
02416032	KP32	K, KC, KF, KS, KSS, KDL, KDN, KHN, KHX, KHWN	32



- Manufactured in the UK.

Retainer Pins



Product Code	Kuplex Item No.	Suits Kuplex Clevis Component Types	Size
			mm
02415007	KR7	K, KC, KF, KS, KSS, KDL, KDN, KHN, KHX, KHWN	7
02415010	KR10	K, KC, KF, KS, KSS, KDL, KDN, KHN, KHX, KHWN	10
02415013	KR13	K, KC, KF, KS, KSS, KDL, KDN, KHN, KHX, KHWN	13
02415016	KR16	K, KC, KF, KS, KSS, KDL, KDN, KHN, KHX, KHWN	16
02415019	KR19	K, KC, KF, KS, KSS, KDL, KDN, KHN, KHX, KHWN	19
02415023	KR23	K, KC, KF, KS, KSS, KDL, KDN, KHN, KHX, KHWN	23
02415026	KR26	K, KC, KF, KS, KSS, KDL, KDN, KHN, KHX, KHWN	26
02415032	KR32	K, KC, KF, KS, KSS, KDL, KDN, KHN, KHX, KHWN	32



- Manufactured in the UK.



• Cookes recommends that Load Pins and Retaining Pins are replaced whenever clevis components are refitted.



• For use with specified Kuplex components only.

GRADE 100

LOAD PIN KITS

Load Pin & Retainer Pin Sets



Product Code	Yoke Item No.	Suits Yoke Clevis Component Types	Size
			mm
02474507	X-P026-07	X-026, X-042, X-043/S, X-059, X-066	7
02474510	X-P026-10	X-026, X-042, X-043/S, X-059, X-066	10
02474513	X-P026-13	X-026, X-042, X-043/S, X-059, X-066	13
02474516	X-P026-16	X-026, X-042, X-043/S, X-059, X-066	16
02474520	X-P026-20	X-026, X-042, X-043/S, X-059, X-066	20
02474522	X-P026-22	X-026, X-042, X-043/S, X-059, X-066	22



- Manufactured in Taiwan.



• Cookes recommends that Load Pins and Retaining Pins are replaced whenever clevis components are refitted.

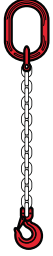


• For use with specified Yoke components only.

CARE & USE OF CHAIN SLINGS

CHAIN SLING EXAMPLES

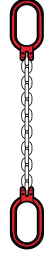
Single Leg



With Kuplink
and sling hook



Collar sling
with pear link
each end



Collar sling
with Kuplink
each end



With master
link and self
locking hook

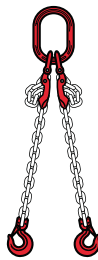


With pear link and
self locking hook

Double Leg



With master link
and sling hooks



With master link,
shortening clutches
and sling hooks



With master link, grab
hook shortener and
self locking hooks

Three Leg



With multi-link assembly
and sling hooks



With multi-link assembly,
shortening clutches and
sling hooks

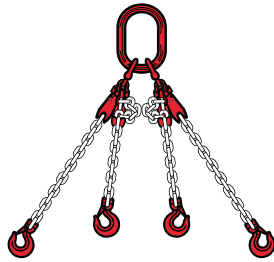


With multi-link assembly
and self locking hooks

Four Leg



With multi-link assembly
and sling hooks

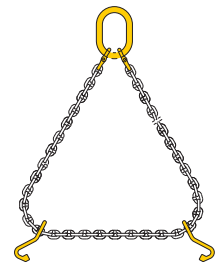


With multi-link assembly,
shortening clutches and
sling hooks



With multi-link assembly
and self locking hooks

Endless



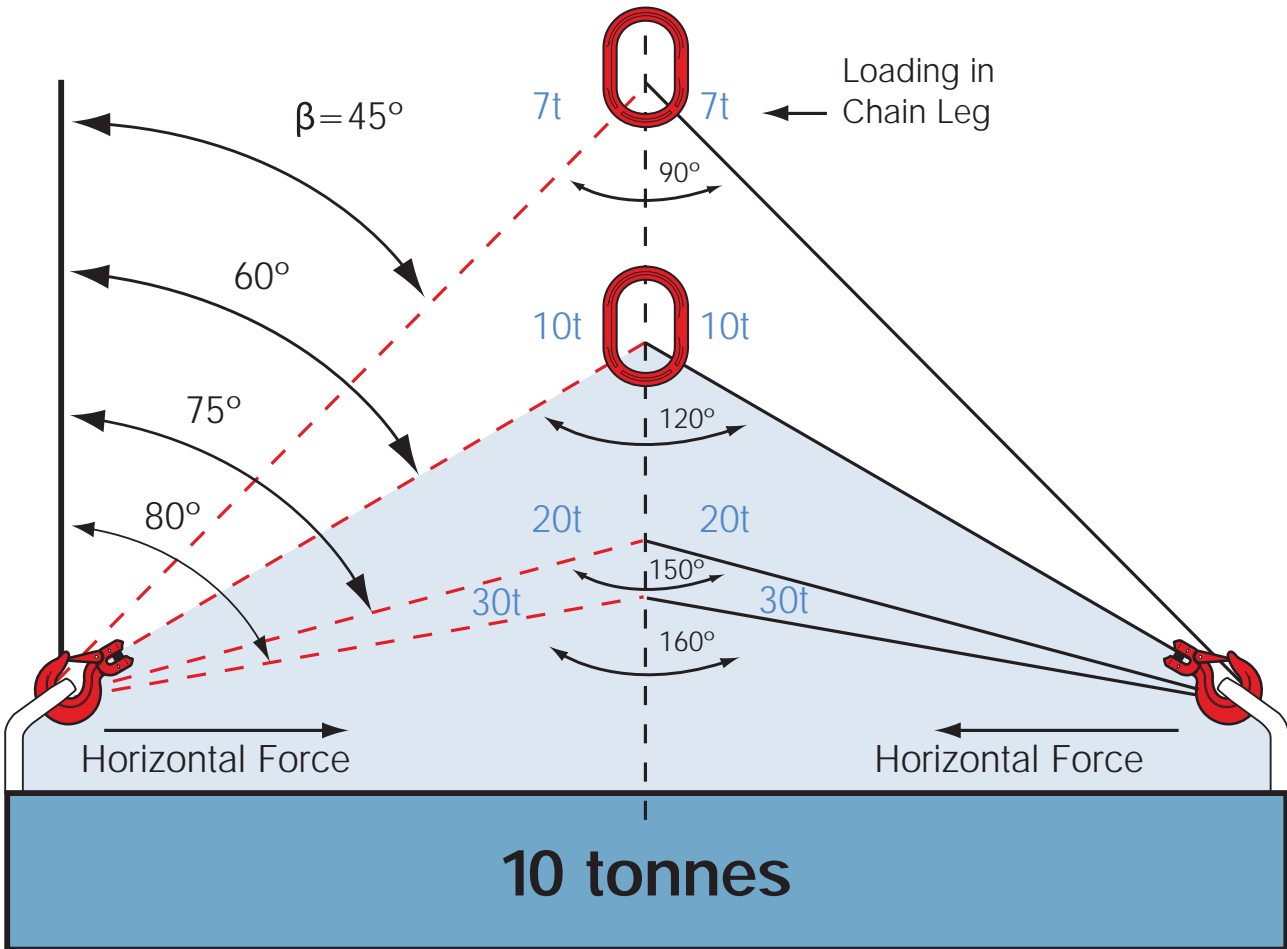
With master link and
sliding drum hooks

Images courtesy of Crosby Group and Yoke Industrial

CARE & USE OF CHAIN SLINGS

MULTI-LEG CHAIN SLING LEG ANGLES

Example showing effect that change of angle has on chain sling leg loading



Do Not Use Multi-Leg Chain Slings at Angles Within the Shaded Area.

- Multi-leg chain slings exert a horizontal component of force which increases as the included angle becomes greater.
- Do not use chain slings if the included angle between the legs exceeds 120°. Beyond this point the forces in the legs increase dramatically as illustrated in the example above.
- Do not use chain slings if the included angle between the legs is less than 60° as this can lead to load becoming unstable.

Additional information is also available in the LEENZ Code of Practice for the Safe Use of Lifting Equipment. Copies may be purchased from Cookes under item code 02000035.



• For additional advice on safe lifting, please contact your local Cookes branch, Freephone 0508 274 366 or email customerservices@bridoncookes.co.nz.



Spreader Beams

A spreader beam helps to distribute the load across more than one point. This increases stability and decreases the loads applied during hoisting.

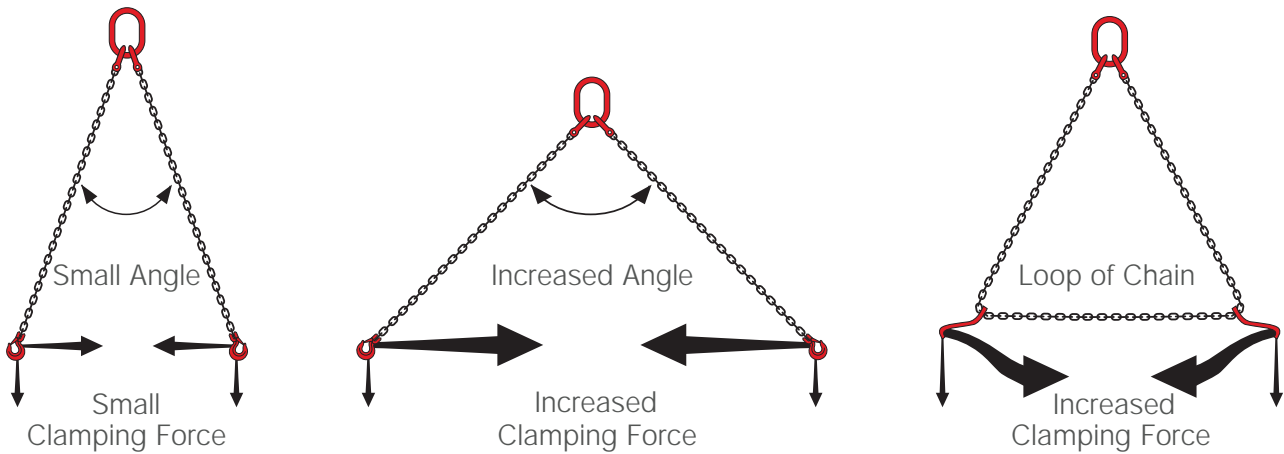
View the range of Maxirig spreader beams in the Materials Handling section of this catalogue.



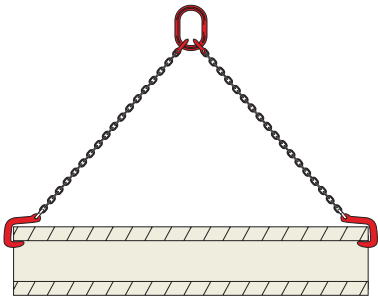
• **Danger:** Overhead lifting presents a very real danger of severe injuries or loss of life if lifting equipment is not used properly.

CARE & USE OF CHAIN SLINGS

CLAMPING FORCE



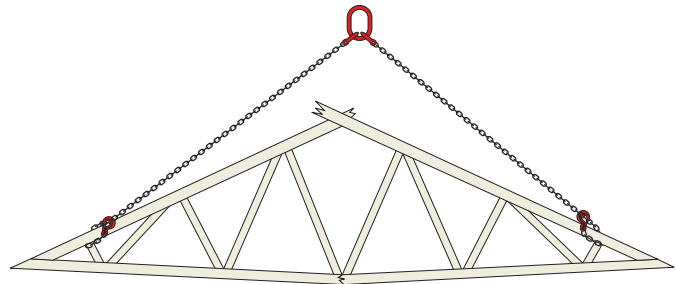
Multi-leg slings impact a 'clamping force' or a compressive force on the load which increases as the included angle is increased.



The slinger should be aware of this force so it may be used to advantage.

For example, with this shape of load, the clamping force is used to good effect in ensuring that the hooks are clamped tightly against the load.

A minimum of 60° included angle between the legs is required.



Cases have occurred where the load has not been rigid enough to withstand the clamping pressure.

Slingers should be aware of this danger and take steps to reduce the clamping force in the case of crushable loads e.g. lightweight frames.

Information provided courtesy of Crosby Kuplex



• **Danger:** Overhead lifting presents a very real danger of severe injuries or loss of life if lifting equipment is not used properly. Please read and understand these instructions prior to using any lifting sling assembly. Slings should only be used by competent persons responsible for the sling selection, inspection and use.

CARE & USE OF CHAIN SLINGS

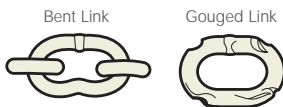
G80 & G100 CHAIN SLINGS

SAFE USE

- Never load chain slings in excess of the rated capacity for the application.
- Keep a register of all slings in use.
- User should remove all twists from a chain leg before lifting and must never knot a chain.
- Always use a shortening hook or clutch when chain legs require shortening.
- Always inspect slings to ensure that chain is free from damage or wear before each use.
- Always inspect all sling components prior each use.
- Ensure that chain is protected from any sharp corners on the load.
- Ensure that the master link articulates freely on the crane hook or other lifting appliance.
- Never point load hooks. The load should always seat correctly in the bowl of the hook.
- Always use the correct size sling for the load, allowing for the included angle and the possibility of unequal loading.
- Persons must stand clear of all loads while lifting or while suspended. During lifting, personnel must be alert for possible snagging of the load or the chain sling.

MAINTENANCE

- A thorough examination must be carried out by a competent person at least every 12 months or more frequently according to statutory regulations, type and frequency of use.
- Chains with bent links or with cracks or gouges in the link should be replaced, as should deformed components such as bent master links, deformed hooks and any fittings showing signs of damage.



- Chain and components wear should never exceed 10% of the original dimensions.
- Once a chain sling has been overloaded it must be taken out of service.
- Store chain sling on a properly designed rack. Never leave chain slings on the floor where they may suffer mechanical or corrosion damage.
- Alloy chain slings should not be used in acid or caustic solutions nor in heavily acidic or caustic laden atmospheres. The heat treated alloy material used for alloy steel chains and components is susceptible to hydrogen embrittlement when exposed to acids.
- Chain slings must not be heat-treated, galvanised, plated, coated or subject to any process involving heating or pickling. These processes can have dangerous effects and will invalidate the manufacturer's certification.
- Alloy chain slings may be used at temperatures between -40°C to 200°C with no reduction in the Working Load Limit. The use of chain slings within the permissible temperature range in the table does not require any permanent reduction in Working Load Limit when the chain sling is returned to normal temperatures. A sling accidentally exposed to temperature in excess of the maximum permissible should be withdrawn from service immediately and returned to Cookes for thorough examination.
- When using alloy chain slings in exceptionally hazardous conditions, the degree of hazard should be assessed by a competent person and the Working Load Limit adjusted accordingly.

Sling Temperature	Reduction in WLL
-40°C – 200°C	None
200°C – 300°C	10%
300°C – 400°C	25%
Above 400°C	Do not use.



• Where professional assistance is required contact your nearest Cookes branch to have a testing technician visit.



• **Danger:** Overhead lifting presents a very real danger of severe injuries or loss of life if lifting equipment is not used properly. Please read and understand these instructions prior to using any lifting sling assembly. Slings should only be used by competent persons responsible for the sling selection, inspection and use.

CARE & USE OF CHAIN SLINGS

TOP TIPS



INSPECTIONS

Visually examine the sling before each use. Look for stretched, gouged, bent or worn links and components, including hooks with open throats, cracks or distortion. If damaged, remove from service.



SHARP EDGES

Protect chain with padding when lifting sharp edged loads.

As a general rule the radius of the edge should be greater than 2x the chain diameter.



BALANCE

Know the load. Determine the weight, centre of gravity, angle of lift and select correct size of sling.



ABRUPT MOVEMENT

Lift and lower loads smoothly. Do not jerk. Shock loading is prohibited!



OVERLOAD

Never overload the sling. Check the Working Load Limit on the identification tag. Always consider the effect of the angle of lift.

The tension of each lift is increased as the angle of lift, from horizontal, decreases. Use the chart in this catalogue for this purpose.



HIGH TEMPERATURE

Do not expose alloy chain slings to temperatures exceeding 200°C (refer chart & information on previous page).

Chain slings must not be heat-treated, galvanised or subjected to any other process involving heat.



KNOTS, TWISTS & KINKS

Make sure chain is not twisted, knotted or kinked before lifting load. Slings should never be shortened with knots, bolts or other make-shift devices.



CHAIN CARE

Store slings properly on an A-frame and protect chain slings from corrosion during storage. Do not drag slings on the floor.

'Safety Pete' Images courtesy of Peerless Chain Company.



• Where professional assistance is required contact your nearest Cookes branch to have a testing technician visit.



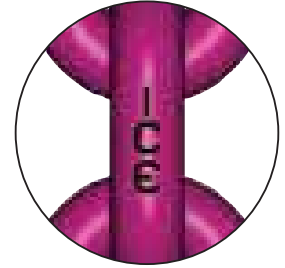
• Danger: Overhead lifting presents a very real danger of severe injuries or loss of life if lifting equipment is not used properly. Please read and understand these instructions prior to using any lifting sling assembly. Slings should only be used by competent persons responsible for the sling selection, inspection and use.

WORLD LEADING TECHNOLOGY

ICE 120 delivers improved safety features, wear indicators and higher Working Load Limits all at a full chain diameter smaller than grade 80 systems. Combined with improvements in tensioning, connecting and shortening, ICE 120 significantly reduces manual handling risks.

THE MOST SUPERIOR CHAIN AVAILABLE ON THE WORLD MARKET TODAY:

- 60% increase in WLL means the same load can be lifted by a chain one full diameter size smaller than grade 80 chain of same diameter.
- Double the impact toughness of EN818 grade 80.
- ICE Chain and components dynamically loaded to 20,000 cycles at 1.5 x WLL as per EN1677.
- Duplex surface protection provides greater protection against corrosion than hot dip galvanising.
- Corrosion tested in accordance with PAS 1061. Improved resistance to stress corrosion cracking and hydrogen embrittlement.
- Significantly increased life due to the superior CrNiMo alloy and RUD special heat treatment procedure – surface hardness (460 – 470 HV) is 28% higher than grade 80.
- Patented and specially heat treated material provides increased resistance to sharp edges.
- ICE features higher guaranteed elongation compared to grade 80 chain.
- Radio Frequency Identification System (RFID) provides full traceability throughout the life of ICE chain slings.

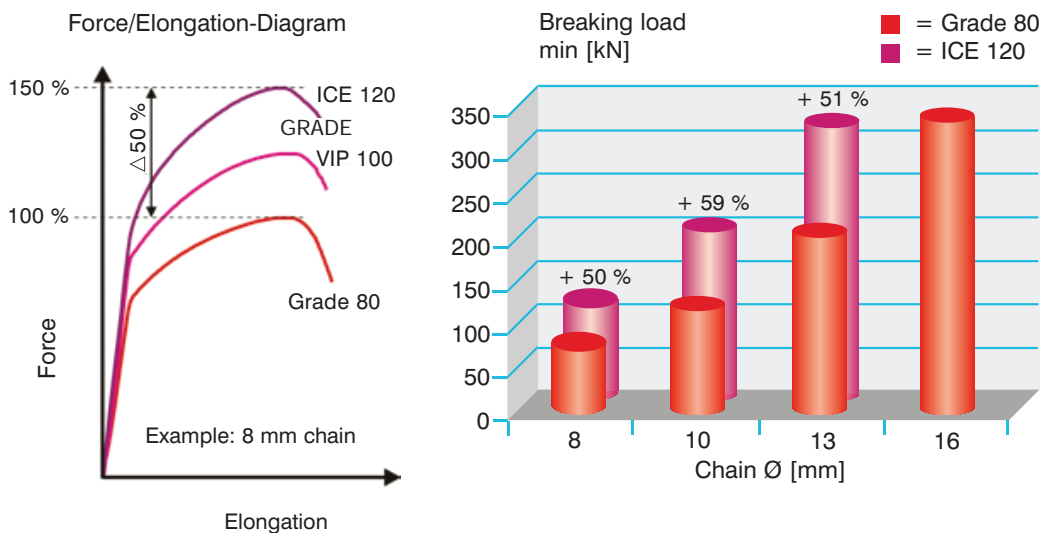


LONGER LIFE DUE TO SPECIAL HEAT TREATMENT & PATENTED MATERIAL

No matter whether it's hot or cold, when the usage is extreme, especially material handling at ports or usage at construction sites, the special RUD-ICE hardening provides many advantages.

Damage to chain caused by sharp edges is reduced thanks to RUD's patented heat treated material.

- Higher abrasion toughness.
- More insensitive towards sharp edges due to 30% better surface hardness than grade 80.
- ICE = 460 HV (Vickers Hardness Test).



ICE 120 SLING OFFERS SIGNIFICANT WEIGHT REDUCTION

Meaning:

- Less material.
- Less energy used.
- Easier handling.
- Environmentally-friendly.
- Health and safety advantages.



GRADE 120

CHAIN SLING WORKING LOAD LIMITS

ICE Grade 120 – Working Load Limits (WLL) in Tonnes



ICE 120	Single Leg Slings		2 Leg			3 and 4 Leg (same ratings)		
	Straight / Adj. Sling	Reeved Sling	60°	90°	120°	60°	90°	120°
Chain Ømm								
6	1.8	1.4	3.0	2.5	1.8	4.7	3.75	2.7
8	3.0	2.4	5.1	4.25	3.0	7.8	6.3	4.5
10	5.0	3.0	8.5	7.1	5.0	13.0	10.6	7.5
13	8.0	6.4	13.6	11.2	8.0	20.8	17.0	11.8
16	12.5	10.0	21.2	17.0	12.5	32.5	26.5	19.0
Load Factor >	1.00	0.80	1.7	1.4	1.0	2.6	2.1	1.5

ICE 120	2 Leg – Straight			4 Leg – Balancer	
	60°	90°	120°	$\alpha=30^\circ \beta=15^\circ$	$\alpha=60^\circ \beta=30^\circ$
Chain Ømm					
6	3.0	2.5	1.8	6.9	6.2
8	5.1	4.25	3.0	11.6	10.4
10	8.5	7.1	5.0	19.3	17.4
13	13.6	11.2	8.0	30.9	27.6
16	21.2	17.0	12.5	48.2	43.2

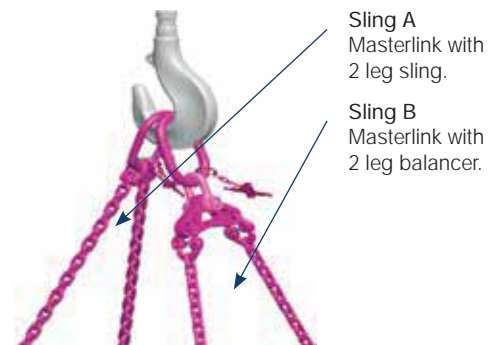
RUD ICE 4 Leg Balancer Slings

RUD ICE 4-leg balancer assemblies consist of two separate sling sub assemblies, Sling A and Sling B each with its own master link and identification tag.


Sling A is a conventional RUD ICE (2-leg) chain sling and may be used as such in general use application.

Sling B must only be used in conjunction with Sling A. In combination the 2 slings achieve a 4-leg assembly (specific use application) with 2 master links on a common hook for applications with a uniformly distributed load.

For conditions of use refer to User Instructions.



i When using two 2-leg slings with a symmetrical load distribution, one with a balancer, and both slings are attached into the same hook, four load bearing legs can be assumed. The inclination angle β must not exceed 45° (90° internal).



RUD Balancer

! • Never exceed manufacturer's Working Load Limit (WLL).

GRADE 120

LIFTING CHAIN

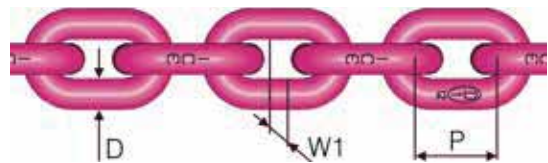
ICE Grade 120 Lifting Chain



Product Code	Size	WLL t	Proof Load kN	Breaking Load kN	Dimensions (mm)		Weight kg / m
	Ø D				P	W1	
02398206	6	1.8	44.1	71	18	7.8	0.98
02398208	8	3.0	73.5	118	24	10.4	1.66
02398210	10	5.0	123.0	196	30	13.0	2.62
02398213*	13	8.0	196.0	314	39	17.0	4.25
02398216*	16	12.5	314.0	503	48	21.0	6.72

* Available on indent.

- Insensitive to hydrogen embrittlement.
- No reduction in elongation.
- Higher impact resistance.
- Improved surface protection.
- Stamped ICE on every link.
- Manufactured in Germany.



ICE > 25% lighter for same WLL!



ICE 120 – 13mm
WLL 8.0t
1 Metre = 4.25kg



Grade 80 – 16mm
WLL 8.0t
1 Metre = 5.65kg

ICE-120 Always One Full Diameter Thinner Than Grade 80!

Chain Ø mm	WLL in kg	
	Grade 80	ICE-120
6	—	1,800
8	2,000	3,000
10	3,150	5,000
13	5,300	8,000
16	8,000	12,500
20	12,500	—

ICE
120



• Never exceed manufacturer's Working Load Limit (WLL).

GRADE 120

MASTER LINKS WITH CONNECTOR

1 Leg Slings – IAK-RG-1

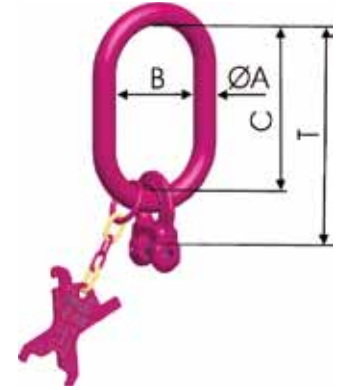


Product Code	RUD Item #	WLL	Suit Chain	Dimensions (mm)				Weight
		t	mm	Ø A	B	C	T	kg ea
02398171	IAK-RG-1-6	1.8	6	13	60	110	144	0.57
02398172	IAK-RG-1-8	3.0	8	16	75	135	178	1.23
02398173	IAK-RG-1-10	5.0	10	22	90	160	213	2.19
02398174*	IAK-RG-1-13	8.0	13	26	100	180	247	3.58
02398175*	IAK-RG-1-16	12.5	16	32	140	260	343	7.20

* Available on indent.

IAK-RG type to suit DIN15401 Crane Hook sizes as per chart below.

- Includes integrated chain measuring gauge.
- Manufactured in Germany.



2 Leg Slings – IAK-RG-2

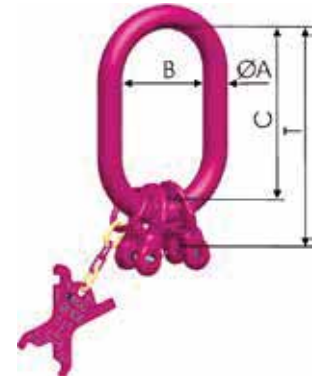


Product Code	RUD Item #	WLL	Suit Chain	Dimensions (mm)				Weight
		t	mm	Ø A	B	C	T	kg ea
02398181	IAK-RG-2-6	2.5	6	16	75	135	171	1.00
02398182	IAK-RG-2-8	4.25	8	22	90	160	203	2.10
02398183	IAK-RG-2-10	7.1	10	26	100	180	233	3.50
02398184*	IAK-RG-2-13	11.2	13	32	110	200	267	6.70
02398185*	IAK-RG-2-16	17.0	16	36	180	340	423	13.00

* Available on indent.

IAK-RG type to suit DIN15401 Crane Hook sizes as per chart below.

- Includes integrated chain measuring gauge.
- Manufactured in Germany.



IAK-RG Suitable Up To Crane Hook Size No. (DIN15401)

RUD Item #	Size				
	6	8	20	13	16
IAK-RG 1	No. 2.5	No. 5	No. 6	No. 8	No. 16
IAK-RG 2	No. 5	No. 6	No. 8	No. 10	No. 25



• All master links shown at this page are equipped with an allside flexible clevis connector which ensures fool-proof connection in regard to the chain diameter and number of legs.



• Never exceed manufacturer's Working Load Limit (WLL).

MASTER LINKS WITH CONNECTOR

3 & 4 Leg Slings – IAK-RG-4

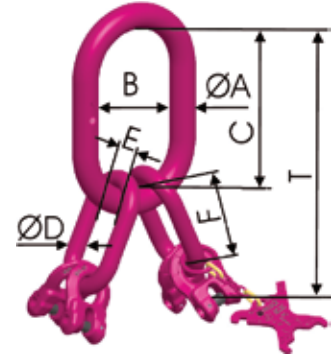


Product Code	RUD Item #	WLL	Chain	Dimensions (mm)							Weight kg ea
				t	mm	Ø A	B	C	Ø D	E	
02398191	IAK-RG-4-6	3.75	6	18	90	160	13	34	70	265	2.04
02398192	IAK-RG-4-8	6.3	8	26	100	180	18	40	85	309	4.59
02398193	IAK-RG-4-10	10.6	10	32	110	200	22	50	115	369	8.37
02398194*	IAK-RG-4-13	17.0	13	36	140	260	26	65	140	467	14.44
02398195*	IAK-RG-4-16	26.5	16	46	190	350	32	75	170	603	28.87

* Available on indent.

IAK-RG type to suit DIN15401 Crane Hook sizes as per chart below.

- Includes integrated chain measuring gauge.
- Manufactured in Germany.



IAK-RG Suitable Up To Crane Hook Size No. (DIN15401)

RUD Item #	Size				
	6	8	20	13	16
IAK-RG 3&4	No. 6	No. 8	No. 10	No. 16	No. 32



- These master links are equipped with an allside flexible clevis connector which ensures fool-proof connection in regard to the chain diameter and number of legs.
- All master links include an identification tag with integrated chain gauge.



- Never exceed manufacturer's Working Load Limit (WLL).

GRADE 120

MASTER LINKS WITH CONNECTOR FOR LARGE CRANE HOOKS

1 Leg Slings – ISAK-RG-1



RUD Item #	WLL	Suit Chain	Dimensions (mm)							Weight
	t	mm	Ø A	B	C	Ø D	E	F	T	kg ea
ISAK-RG-1-6/140*	1.8	6	18	140	260	13	34	70	365	2.29
ISAK-RG-1-8/140*	3.0	8	22	140	260	18	40	85	389	3.94
ISAK-RG-1-10/140*	5.0	10	26	140	260	22	50	115	429	6.34
ISAK-RG-1-13/140*	8.0	13	32	140	260	26	65	140	467	9.44
ISAK-RG-1-6/190*	1.8	6	22	190	350	13	34	70	455	3.82
ISAK-RG-1-8/190*	3.0	8	26	190	350	18	40	85	479	6.03
ISAK-RG-1-10/190*	5.0	10	32	190	350	22	50	115	519	10.02
ISAK-RG-1-13/190*	8.0	13	36	190	350	26	65	140	557	13.90
ISAK-RG-1-8/250*	3.0	8	36	250	460	18	40	85	589	12.86
ISAK-RG-1-10/250*	5.0	10	36	250	460	22	50	115	629	14.32
ISAK-RG-1-13/250*	8.0	13	36	250	460	26	65	140	667	16.33
ISAK-RG-1-16/250*	12.5	16	40	250	460	32	75	170	713	23.14

* Available on indent only.

2 Leg Slings – ISAK-RG-2



RUD Item #	WLL	Suit Chain	Dimensions (mm)							Weight
	t	mm	Ø A	B	C	Ø D	E	F	T	kg ea
ISAK-RG-2-6/140*	2.5	6	18	140	260	13	34	70	365	2.36
ISAK-RG-2-8/140*	4.25	8	22	140	260	18	40	85	389	4.03
ISAK-RG-2-10/140*	7.1	10	26	140	260	22	50	115	429	6.63
ISAK-RG-2-13/140*	11.2	13	32	140	260	26	65	140	467	10.47
ISAK-RG-2-6/190*	2.5	6	22	190	350	13	34	70	455	3.89
ISAK-RG-2-8/190*	4.25	8	26	190	350	18	40	85	479	6.13
ISAK-RG-2-10/190*	7.1	10	32	190	350	22	50	115	519	10.30
ISAK-RG-2-13/190*	11.2	13	36	190	350	26	65	140	557	14.93
ISAK-RG-2-8/250*	4.25	8	36	250	460	18	40	85	589	12.95
ISAK-RG-2-10/250*	7.1	10	36	250	460	22	50	115	629	14.61
ISAK-RG-2-13/250*	11.2	13	36	250	460	26	65	140	667	17.37
ISAK-RG-2-16/250*	17.0	16	40	250	460	32	75	170	713	25.16

* Available on indent only.



• All master links shown at this page are equipped with an allside flexible clevis connector which ensures fool-proof connection in regard to the chain diameter and number of legs. All master links include an identification tag with integrated chain gauge.



• Never exceed manufacturer's Working Load Limit (WLL).

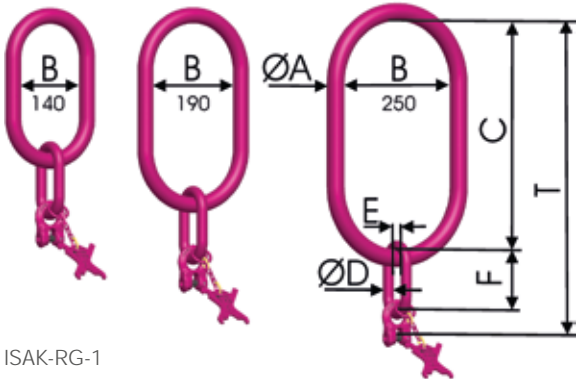
MASTER LINKS WITH CONNECTOR FOR LARGE CRANE HOOKS

3 & 4 Leg Slings – ISAK-RG-4

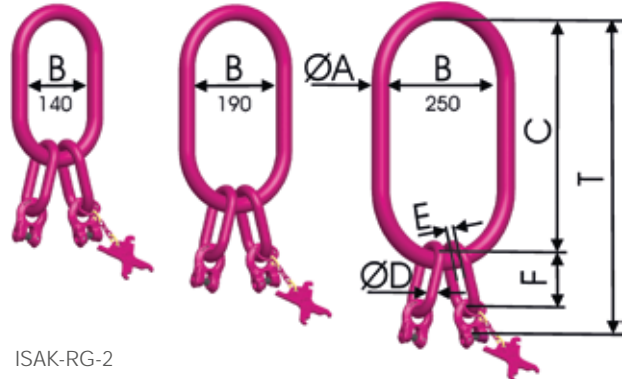


RUD Item #	WLL	Suit Chain	Dimensions (mm)							Weight
	t	mm	Ø A	B	C	Ø D	E	F	T	kg ea
ISAK-RG-4-6/140*	3.75	6	22	140	260	13	34	70	365	3.24
ISAK-RG-4-8/140*	6.3	8	26	140	260	18	40	85	389	5.47
ISAK-RG-4-10/140*	10.6	10	32	140	260	22	50	115	429	9.70
ISAK-RG-4-6/190*	3.75	6	26	190	350	13	34	70	455	5.34
ISAK-RG-4-8/190*	6.3	8	32	190	350	18	40	85	479	9.14
ISAK-RG-4-10/190*	10.6	10	36	190	350	22	50	115	519	13.16
ISAK-RG-4-13/190*	17.0	13	40	190	350	26	65	140	557	19.14
ISAK-RG-4-8/250*	6.3	8	36	250	460	18	40	85	589	13.45
ISAK-RG-4-10/250*	10.6	10	36	250	460	22	50	115	629	15.60
ISAK-RG-4-13/250*	17.0	13	40	250	460	26	65	140	667	22.12
ISAK-RG-4-16/250*	26.5	16	47	250	460	32	75	170	713	32.98

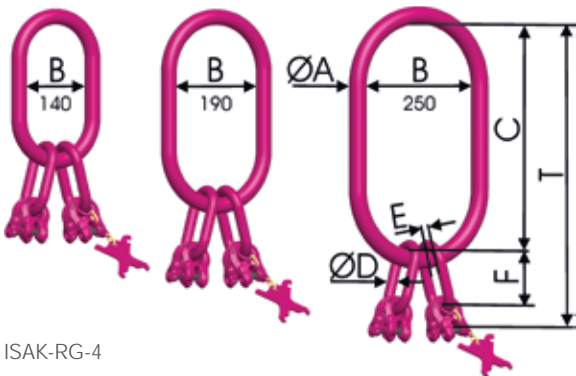
* Available on indent only.



ISAK-RG-1



ISAK-RG-2



ISAK-RG-4

ISAK-RG Suitable Up To Crane Hook Size No.

RUD Item #	Size		
	B = 140	B = 190	B = 250
ISAK-RG	No. 16	No. 32	No. 50

- DIN15401



• All master links shown at this page are equipped with an allside flexible clevis connector which ensures fool-proof connection in regard to the chain diameter and number of legs. All master links include an identification tag with integrated chain gauge.



• Never exceed manufacturer's Working Load Limit (WLL).

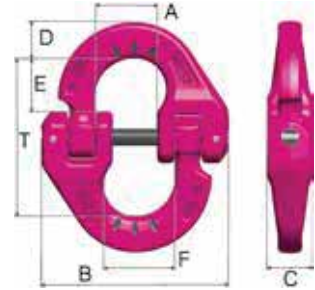
GRADE 120

CONNECTORS

IVS Multi Purpose Connector



Product Code	RUD Item No.	WLL	Chain	Dimensions (mm)							Weight kg ea
		t	mm	A	B	C	D	E	F	T	
02398231	IVS-6	1.8	6	18	55	13.0	11	17	21.0	46	0.12
02398232	IVS-8	3.0	8	24	70	17.5	14	23	27.5	61	0.29
02398233	IVS-10	5.0	10	28	88	22.0	17	27	32.0	74	0.57
02398234*	IVS-13	8.0	13	34	111	28.0	23	33	40.0	93	1.20
02398235*	IVS-16	12.5	16	39	130	33.0	27	37	46.0	108	2.00



* Available on indent.

Lifting points, shackles and plate clamps can be attached into the halves of the connecting link. The halves are adjustable at will between each other.

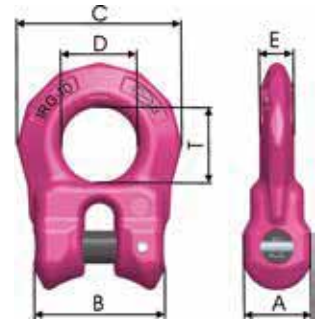
- Form and function are patent pending.
- No kinking of pre-assembled chain possible.



IRG Clevis Connector



Product Code	RUD Item No.	WLL	Chain	Dimensions (mm)							Weight kg ea
		t	mm	A	B	C	D	E	F	T	
02398291*	IRG-6	1.8	6	19	34	44	21	9	12	36	0.12
02398292*	IRG-8	3.0	8	24	45	56	27	12	15	43	0.25
02398293*	IRG-10	5.0	10	30	56	70	32	15	19	53	0.5
02398294*	IRG-13	8.0	13	38	73	88	38	18	25	67	1.0
02398295*	IRG-16	12.5	16	47	90	109	48	23	31	83	2.0



* Available on indent.

Designed for connection of non-RUD parts such as flanges, etc.

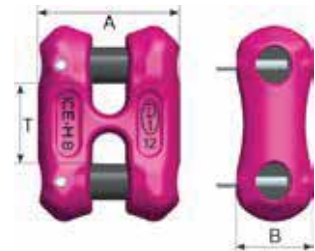
- Simple chain connection with ICE-oval G load pin and retaining pin supplied.



IH Compact Endless Sling Connector



Product Code	RUD Item No.	Suit Chain	Dimensions (mm)			Weight kg ea
		mm	A	B	T	
02398241	IH-6	6	34	19.6	18	0.11
02398242	IH-8	8	45	25.5	24	0.26
02398243	IH-10	10	56	31.5	30	0.55
02398244*	IH-13	13	73	40.0	39	1.16
02398245*	IH-16	16	89	49.0	48	2.16



* Available on indent.

Suitable for fabricating endless slings or repairing multi-leg chain. More compact and therefore easier to handle than conventional chain connectors.

- Fast, easy and economical fabricating of endless chains.
- Heat-treated body offers improved wear resistance.
- Enhanced slide cover corners.
- All RUD ICE-120 Connectors manufactured in Germany.



Endless Chain with H-Connector



• Never exceed manufacturer's Working Load Limit (WLL).

SLING CHAIN TENSIONERS

ICE-CURT-GAKO Ratchet Lifting Chain Tensioner

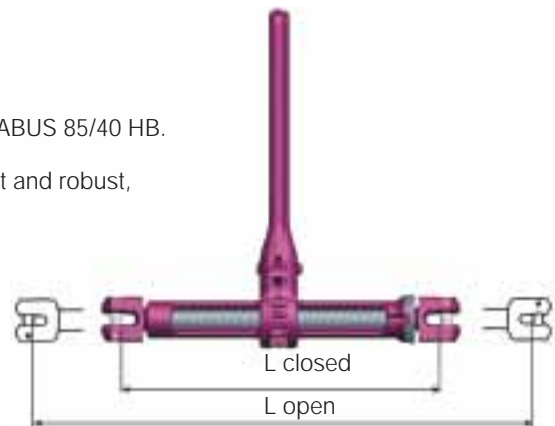


Product Code	RUD Item No.	WLL	Chain	Dimensions (mm)			Weight
		t	mm	L open	L closed	Reach	kg
02398251	ICE-CURT-6-GAKO	1.8	6	400	260	140	1.8
02398252	ICE-CURT-8-GAKO	3.0	8	520	350	170	3.2
02398253	ICE-CURT-10-GAKO	5.0	10	532	362	170	3.6
02398254*	ICE-CURT-13-GAKO	8.0	13	830	530	300	6.9
02398255*	ICE-CURT-16-GAKO	12.5	16	962	612	350	12.2

* Available on indent.

Allows precise adjustment of ICE-120 lifting sling chain.

- User friendly and space-saving tensioning lever.
- User friendly turn-loose securing when used with padlock such as ABUS 85/40 HB.
- 100% crack inspected, all load bearing parts drop forged.
- Easy to clean and lubricate, innovative forged design-light in weight and robust, Patent pending.
- User friendly – even with gloves.
- Manufactured in Germany.



• Never exceed manufacturer's Working Load Limit (WLL).



• Adjustments must be made while sling is unloaded.

HOOKS

IAGH Clevis Self Locking Hook

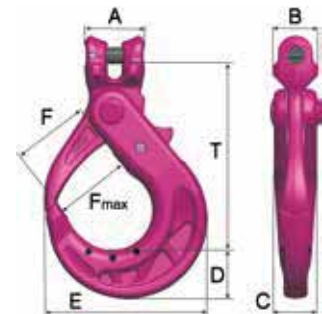


Product Code	RUD Item No.	WLL	Suit Chain	Dimensions (mm)								Weight
		t	mm	A	B	C	D	F	F _{max}	G	T	kg
02398281	IAGH-6	1.8	6	34	24	27	28	97	44	60	113	0.9
02398282	IAGH-8	3.0	8	45	31	30	31	106	48	66	124	1.2
02398283	IAGH-10	5.0	10	50	38	36	40	136	61	81	154	2.4
02398284*	IAGH-13	8.0	13	73	50	44	51	173	78	107	200	4.9
02398285*	IAGH-16	12.5	16	90	61	49	53	192	85	121	232	7.4

* Available on indent.

Skeletal designed hook is up to 30% lighter than Grade 80 hooks of the same WLL. Large throat width has same dimensions as Grade 80 hook of the same WLL.

- Wear ribs protect the first link in the clevis.
- Thickened tip of hook to prevent incorrect and dangerous use.
- Locking device designed ergonomically, easy to handle with anti-skip surface – no danger of pinching fingers.
- Marker points to check the width of the hook on inspection.
- Manufactured in Germany.



ISH Star Sling Hook

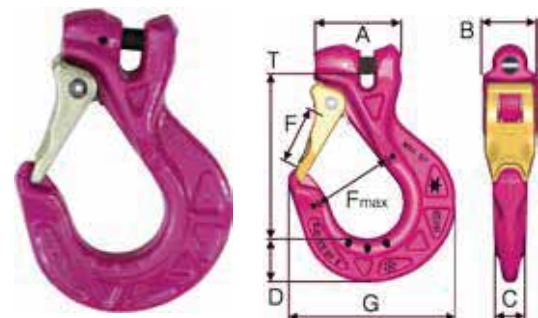


Product Code	RUD Item No.	WLL	Suit Chain	Dimensions (mm)								Weight
		t	mm	A	B	C	D	F	F _{max}	G	T	kg
02398271	ISH-6	1.8	6	48	28	18	26	30	51	97	97	0.69
02398272	ISH-8	3.0	8	45	36	20	29	36	58	112	110	1.1
02398273	ISH-10	5.0	10	71	43	25	37	41	66	135	127	1.9
02398274*	ISH-13	8.0	13	85	52	31	48	50	80	163	153	3.5
02398275*	ISH-16	12.5	16	94	58	38	56	58	96	196	184	5.5

* Available on indent.

The skeletal design ICE-SH Star Hook is up to 25% lighter than Grade 80 hooks of the same WLL, i.e. the next larger size. Patented wear marks that, without measuring, show instantly when the hook has reached the statutory allowable wear limit and must be replaced.

- Exceeds by far the EN standard values for side loading.
- Edge Protection: Increased section at the side and top of the hook for safety catch.
- Wear Ribs: Protect the first chain link into the clevis.
- No protruding hook tip.
- Manufactured in Germany.



• Never exceed manufacturer's Working Load Limit (WLL).

HOOKS

IVH Grab Hook



Product Code	RUD Item No.	WLL		Dimensions (mm)							Weight kg
		t	mm	A	B	C	D	E	F	T	
02398261	IVH-6	1.8	6	34	18	20	44	7.5	22	53	0.27
02398262	IVH-8	3.0	8	43	24	26	55	9.5	29	67	0.50
02398263	IVH-10	5.0	10	55	30	34	71	12.0	38	86	1.20
02398264*	IVH-13	8.0	13	70	38	43	90	15.0	48	105	2.50
02398265*	IVH-16	12.5	16	86	46	53	110	18.5	59	128	4.50

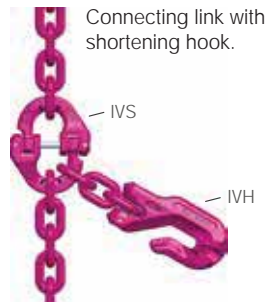
* Available on indent.

Due to offset lead-in groove chain remains in place even when untensioned.

- No reduction of ICE WLL when used as a shortening device.
- High dynamic strength.
- Enlarged tip of hook avoids incorrect use.
- Manufactured in Germany.



Examples - IVH Application:



- Never exceed manufacturer's Working Load Limit (WLL).
- Where grab hooks are fitted as bottom hooks or chain is choked, the sling WLL must be derated by 20%.

TRIGGER KITS AND SAFETY LATCH KITS

Replacement IAGH Trigger Kits – Self Locking Hooks

Product Code	Size	Suit RUD Hook Product Code	Weight
			kg
02398281TK	6	02398281	0.03
02398282TK	8	02398282	0.04
02398283TK	10	02398283	0.06
02398284TK*	13	02398284	0.14
02398285TK*	16	02398285	0.20

* Available on indent.

Consist of a locking device, corrosion protected double-leg spring and retaining pin.

- Suit ICE-120 IAGH Self Locking Hooks.
- Easy assembly with hammer and punch.
- Manufactured in Germany.



Replacement ISH Latch Kits – Sling Hooks

Product Code	Size	Suit RUD Hook Product Code	Weight
			kg
02398271TK	6	02398271	0.09
02398272TK	8	02398272	0.11
02398273TK	10	02398273	0.15
02398274TK*	13	02398274	0.24
02398275TK*	16	02398275	0.40

* Available on indent.

Consists of a drop forged locking device, double coiled stainless steel spring, a retainer pin and mounting sleeve.

- Suit ICE-120 ISH Star Sling Hooks.
- Easy assembly with hammer and punch.
- Manufactured in Germany.



LOAD PIN KITS

ICE-120 Oval G Pin & Retaining Pin



Product Code	RUD Item No.	Suit RUD Clevis Component Types	Size
			mm
02398221	IOG-6 / Retaining pin 6	<p>IAK-RG, IBK-RG, ISAK-RG, IRG, IH, ICE-CURT GAKO, IAGH, ISH, IVH</p>	6
02398222	IOG-8 / Retaining pin 8		8
02398223	IOG-10 / Retaining pin 10		10
02398224*	IOG-13 / Retaining pin 13		13
02398225*	IOG-16 / Retaining pin 16		16

* Available on indent.

- Manufactured in Germany.



• Cookes recommends that Load Pins and Retaining Pins are replaced whenever clevis components are refitted.



• Only use genuine RUD-ICE Load Pins and Retaining Pins with ICE-120 components to maintain sling integrity.

GRADE 120






ICE-MINI MECANO SYSTEM



Introducing the smallest Grade 120 chain lifting system with 4mm diameter chain.

Working Load Limits (WLL) in Tonnes

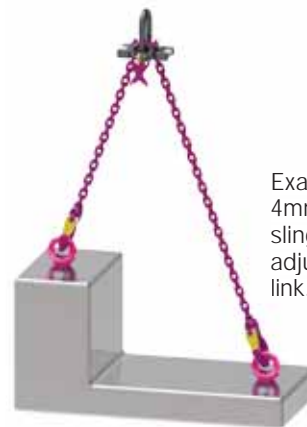


ICE mini	Single Leg Slings	2 Leg		3 and 4 Leg (same ratings)	
					
Chain Ømm	Straight / Adj. Sling	0-90°	>90°-120°	0-90°	>90°-120°
4	0.80	1.12	0.80	1.7	1.18
Load Factor >	1	1.4	1	2.1	1.5

ICE-MINI 4mm Chain and Components

Product Code	RUD Item #	System Ø	WLL	Inside Length	Inside Width	Weight
		mm	t	mm	mm	kg
02398204	ICE-Chain 4 x 12	4	0.8	12.0	5.2	0.44/m
02398170*	IAK 1/2	4	0.8/1.12	40.0	34.0	0.2/ea
02398180	IML-2	4	1.12	66.0	30.0	0.35/ea
02398190*	IML-4	4	1.70	60.0	35.0	0.85/ea
02398270	ISH-4	4	0.8	-	-	0.16/ea

* Available on indent from Australia.



Example of 2 Leg 4mm grade 120 sling using IML-2 adjustable master link.



* The IML Series Master Links incorporate a button controlled shortening device allowing lightening fast leg length adjustment.

Super light weight chain lifting slings offering the ultimate in portability. Easily carried in tool kits or by hand.

- Complies with EN818 and EN1677.
- Manufactured in Germany.



• For larger crane hooks simply add the appropriate IAK-RG-1 Master Link (refer page 77).



• Never exceed manufacturer's Working Load Limit (WLL).

VIP MAXI-HEAVY LIFT

EXTRA HEAVY CHAIN LIFTING SET

VIP Grade 100 – 28mm Lifting Chain



Product Code	Size	WLL	Proof Load	Dimensions (mm)		Weight
	Ø D	t	kN	P	W1	kg / m
02398128*	28	31.5	772	84	36.4	18.6

* Available on indent.

- Minimum ultimate elongation of 20%.
- Stamped VIP on every link along with BG approval stamp H1.
- Duplex surface protection: pre-treatment plus pink powder coating.
- Manufactured in Germany.



VIP >20% lighter for same WLL!



VIP MAXI – 28mm

WLL 31.5t
VIP G100 – 28mm
1 Metre = 18.6kg



Grade 80 – 32mm

WLL 31.5t
Grade 80 – 32mm
1 Metre = 23.0kg



VIP MAXI 28mm WLL Chart – For Symmetrical Loads

	0°		0 – 45°	>45 – 60°	0 – 7°		>7 – 45°	0 – 45°
Inclination Angle β	0°	0°	0 – 45°	>45 – 60°	0 – 7°	>7 – 45°	0 – 45°	
WLL (t)	31.5	63.0	45.0	31.5	126	88	67.0	
Load Factor	1	2	1.4	1	4	2.8	2.1	

¹⁾ For unsymmetrical loads the WLL must be reduced by 50%.



RUD VIP Grade 100 MAXI Assembly Kits

- When the going gets tough RUD make it easy for you with their 28mm Grade 100 MAXI Chain Kits. Safe and secure lifting of heavy loads up to 126 tonne!



- Never exceed manufacturer's Working Load Limit (WLL).

VIP MAXI-HEAVY LIFT

EXTRA HEAVY CHAIN LIFTING SET

RUD VIP 28mm Grade 100 MAXI Assembly Kits are your ideal solution for heavy lifting with means to connect to wire rope or synthetic round slings. All items available on indent from RUDs Australian warehouse.

<p>Connection Possibilities</p>		
<p>Sling Variants</p>		
<p>End Fittings</p>		



1. VIP >MAXI< Masterlinks 1/2-28 and VBK 1/2-28, for 1 and 2-leg slings.
2. VIP >MAXI< Shortening claw VV28 to secure against self-acting loosening.
3. VIP >MAXI< Connecting link for connection to lifting points, shackles, chain etc.
4. VIP >MAXI< Round steel link chain 28 x 84, quality grade 10, extremely robust and wear resistant, pink powder coated.
5. VIP >MAXI< VCGH-28, proven and tested Cobra-clevis hook in skeletal light weight-design with a robust, forged safety latch.
6. VIP >MAXI< End link VB-28, for chain coupler or shackle connection.



• Never exceed manufacturer's Working Load Limit (WLL).

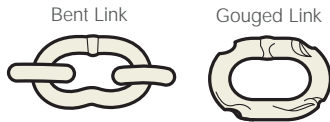
CARE & USE VIP MAXI & ICE-120

Care

- Store Chain Slings on A frames or wall racks in a clean dry place.
- Keep a record of all chain slings in use.
- Lightly oil chains before prolonged storage.
- Never weld or heat treat alloy chain slings.

Use – Pre Lifting Checks

- Always visually inspect that a chain sling is free from damage or wear before use.



Do not use if links are damaged

- Never load in excess of the Safe Working Load for the application
- If identification tag is lost, damaged or un-readable, then chains should be removed from service and referred to a competent person for inspection.
- A chain sling must not be used without a tag that can be cross-referenced to supply certification.
- Ensure the weight of the load is known and evenly distributed when using multi leg slings.
- Shorten chain legs with shortening hooks or clutches only.
- Ensure the chain is free of twists before lifting and is protected from any sharp corners on the load.
- Never tie a knot in the chain.

Use – During Lifting

- Avoid shock loading – commence the lift slowly. Take up the weight gradually by avoiding sharp movements.
- When lowering, avoid the possibility of crushing the chain by ensuring the load does not land on it. Use sufficient packaging and timber, etc.

Inspection and Maintenance

- Periodic examination is required at least every 6 months.
- Clean the chain thoroughly.
- Every chain sling should have an identification tag which states the Safe Working Load (SWL) or Working Load Limit (WLL) of the sling.
- Lay the chain on a clean surface or hang it up in a well lit area.
- Every chain link should be individually inspected for any signs of wear, twisting, stretching, nicks, gouging and any worn link measured to determine the degree of wear using vernier calipers. 10% maximum loss of cross section is permissible.
- Accessories – Lifting hooks must be replaced when:
 - the opening of the mouth is deformed more than 10%, or
 - if hook is worn more than 5%, or
 - shows signs of deep notches
- Chain couplings should be inspected for signs of wear or heat at the loading points, for excessive play in the pins and for impaired rotation of the body halves around the load pin.
- Chain links or fittings having any defects should be clearly marked to indicate rejection and the chain sling withdrawn from service and assessed by a competent person.



• For a more detailed inspection please contact Cookes, your New Zealand authorised distributor for RUD.

CARE & USE VIP MAXI & ICE-120

RUD VIP chain

The special VIP pink powder coating changes its colour with temperatures exceeding 200°C. Chains should not be used after being subjected to temperatures exceeding 400°C. At this temperature, the VIP changes colour to a deep black with small bubbles indicating that it has been overheated.



RUD ICE-120 chain

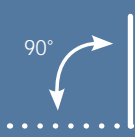





The special ICE purple powder coating changes its colour with temperatures exceeding 200°C. It is prohibited to use ICE chain in temperatures of more than 300°C. This is clearly displayed by ICE purple colour turning brown-black.



• For a more detailed inspection please contact Cookes, your New Zealand authorised distributor for RUD.

CHAIN SLING WORKING LOAD LIMITS

The Uniform Method for Rating Stainless Steel Chain Slings

Lifting Mode	1 Leg	2 Leg		3 & 4 Leg – Same Ratings		Endless Slings
						
Chain Ø	Factor 1.0	Factor 1.4	Factor 1.0	Factor 2.1	Factor 1.5	Factor 1.6
mm	90°	90°	120°	90°	120°	
6.00	0.70	1.00	0.70	1.47	1.05	1.12
8.00	1.20	1.70	1.20	2.50	1.80	1.92
10.00	1.60	2.25	1.60	3.36	2.40	2.56
13.00	2.70	3.80	2.70	5.70	4.05	4.32

WORKING LOAD LIMITS IN TONNES FOR STAINLESS STEEL CHAIN SLINGS

The Working Load Limits (WLL) listed in the table above are the maximum weights which slings are designed to sustain in General Lifting Service according to the standard uniform load method of rating.

General Purpose Chain Slings must always be rated by the Uniform Method. Under this method, four-leg chain slings have the same WLL rating as three-leg slings based on an assumption that at least one leg of a four-leg sling may not be accepting its full share of the load.

In exceptionally hazardous conditions or in any other circumstances which might indicate a need for WLL lower than the designated figure, the degree of hazard should be assessed by a competent person and a Safe Working Load (SWL) determined.

Note: When slings are used in a choke hitch or grab hooks fitted as bottom hooks, the WLL must be reduced by 20%.



- Never exceed manufacturer's Working Load Limit (WLL).
- Never use stainless steel chain and components for lifting unless you have tagged and certified sling assemblies from a reputable supplier.

GRADE 50 STAINLESS STEEL

CHAIN & CONNECTORS

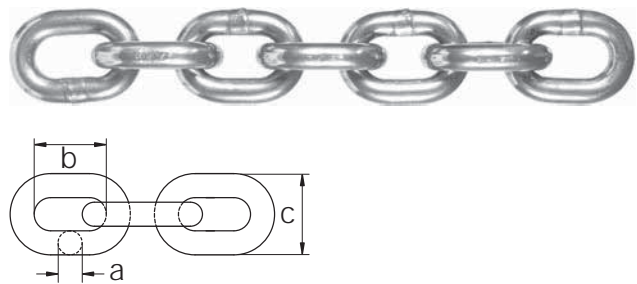
Stainless Steel Lifting Chain



Product Code	Excel Item No.	WLL	Dimensions (mm)			Links	Weight
		t	Ø a	b	c	per Meter	per Meter
02479006	CHAIN6I	0.7	6	18	21	55.56	0.78
02479008	CHAIN8I	1.2	8	24	29	41.67	1.30
02479010	CHAIN10I	1.6	10	30	34	33.33	2.14
02479013	CHAIN13I	2.7	13	39	45	25.64	3.64

Stainless Steel Lifting Chain.

- Polished finish.
- AISI316L material.
- Tested and certified.
- 4:1 design factor.
- Manufactured in France.



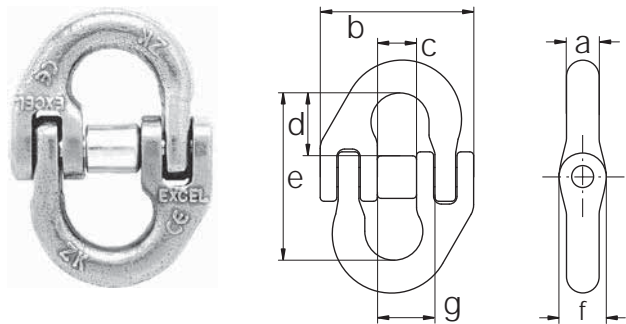
Stainless Steel Connecting Links



Product Code	Excel Item No.	WLL	For Chain	Dimensions (mm)							Weight
		t	Ømm	Ø a	b	c	d	e	f	g	kg
02481106	MJ6I	0.7	6	8	43	11	14	45	11	16	0.10
02481108	MJ7/8I	1.2	7 – 8	9	52	14	18	55	14	20	0.16
02481110	MJ10I	1.6	10	13	70	16	25	73	18	25	0.36
02481113	MJ13I	2.7	13	18	85	19	32	92	25	28	0.73

Stainless Steel Connectors.

- Polished finish.
- AISI316L material.
- Tested and certified.
- 4:1 design factor.
- Manufactured in France.



• Never exceed manufacturer's Working Load Limit (WLL).

MASTER LINKS & MULTI OBLONG LINKS

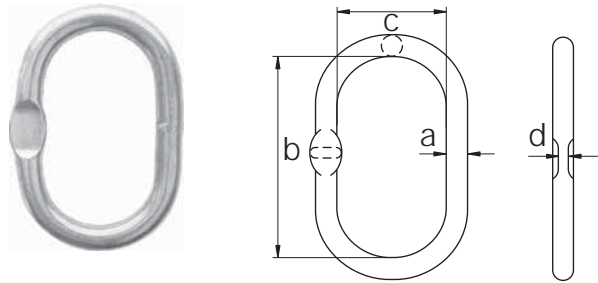
Stainless Steel Master Links for 1 & 2 Leg Slings

EXCEL®

Product Code	Excel Item No.	WLL	Ø 1 Leg	Ø Chain 2 Legs (mm)		Dimensions (mm)				Weight
		t	mm	$\beta \leq 45^\circ$	$\beta \leq 60^\circ$	a	b	c	d	kg
02480006	MS13I	0.75	6	—	6	13	110	60	6	0.34
02480008	MS16I	1.25	8	6	8	16	110	60	6	0.53
02480010	MS18I	2.00	10	8	10	18	135	75	8	0.82
02480013	MS22I	3.20	13	10	13	22	160	90	10	1.45
02480016	MS26I	5.00	16	13	16	26	180	100	14	2.29

Stainless Steel Master Links.

- Polished finish.
- AISI316L material.
- Tested and certified.
- 4:1 design factor.
- Manufactured in France.



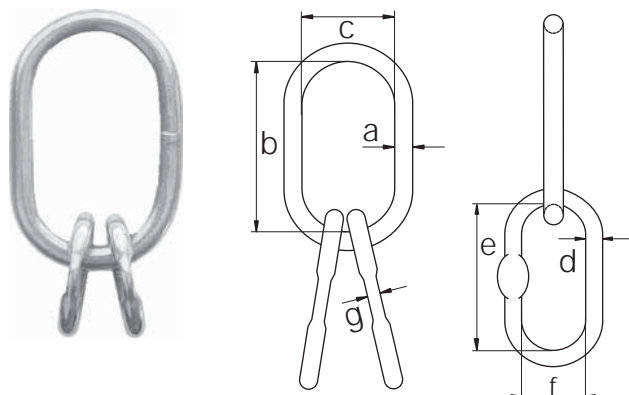
Stainless Steel Multi Oblong Links for 3 & 4 Leg Slings

EXCEL®

Product Code	Excel Item No.	WLL	3/4 Legs	Dimensions (mm)							Weight
		t	Ømm	Ø a	b	c	d	e	f	g	kg
02480106	MTS18I	1.60	6	18	135	75	13	54	25	6	1.17
02480108	MTS22I	2.65	8	22	160	90	16	70	34	8	2.17
02480110	MTS26I	4.25	10	26	180	100	18	85	40	8	3.34
02480113	MTS32I	6.70	13	32	200	110	22	115	50	13	5.99

Stainless Steel Multi Oblong Links.

- Polished finish.
- AISI316L material.
- Tested and certified.
- 4:1 design factor.
- Manufactured in France.



• Never exceed manufacturer's Working Load Limit (WLL).

GRADE 50 STAINLESS STEEL

HOOKS

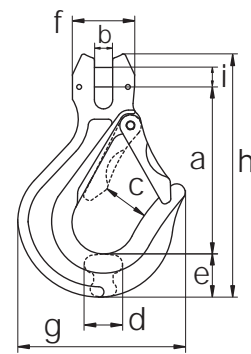
Stainless Steel Clevis Sling Hooks



Product Code	Excel Item No.	WLL	For Chain	Dimensions (mm)									Weight
		t	Ømm	a	b	c	d	e	f	g	h	Ø i	kg
02483006	CSC6I	0.7	6	76	7	25	15	19	27	73	108	8	0.29
02483008	CSC7/8I	1.2	8	95	9	28	20	22	32	85	133	9	0.55
02483010	CSC10I	1.6	10	113	11	28	24	28	41	106	164	13	0.97
02483013	CSC13I	2.7	13	138	15	38	32	40	52	133	208	16	1.86

Stainless Steel Clevis Sling Hook c/w Safety Catch.

- Polished finish.
- AISI316L material.
- Tested and certified.
- 4:1 design factor.
- Manufactured in France.



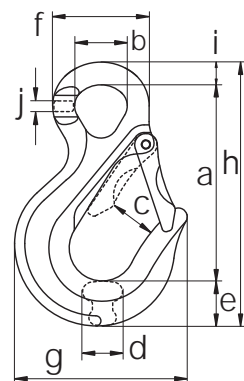
Stainless Steel Eye Sling Hooks



Product Code	Excel Item No.	WLL	For Chain	Dimensions (mm)										Weight
		t	Ømm	a	Ø b	c	d	e	Ø f	g	h	i	j	kg
02483106	CSO6I	0.7	6	86	23	27	15	19	43	73	115	10	7	0.28
02483108	CSO7/8I	1.2	8	102	26	27	19	23	51	87	137	13	8	0.56
02483110	CSO10I	1.6	10	121	35	28	23	29	66	106	165	15	11	1.02
02483113	CSO13I	2.7	13	155	41	33	31	36	76	136	208	19	14	1.77

Stainless Steel Eye Type Sling Hooks c/w Safety Catch.

- Polished finish.
- AISI316L material.
- Tested and certified.
- 4:1 design factor.
- Manufactured in France.



• Never exceed manufacturer's Working Load Limit (WLL).

HOOKS

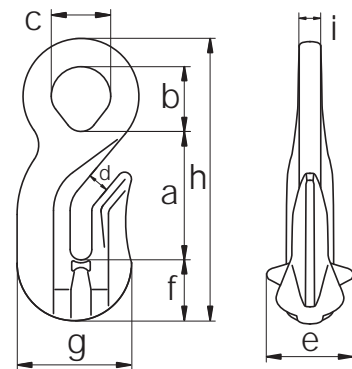
Stainless Steel Eye Grab Hooks

EXCEL[®]

Product Code	Excel Item No.	WLL	For Chain	Dimensions (mm)									Weight
		t	Ømm	a	b	c	d	e	f	g	h	i	kg
02483208	CRO7/8I	1.2	7 – 8	52	20	20	10	33	23	46	108	8	0.32
02483210	CRO10I	1.6	10	53	29	29	12	41	28	58	123	10	0.53
02483213	CRO13I	2.7	13	89	43	39	15	56	40	78	192	18	1.64

Stainless Steel Eye Grab Hook. No reduction in WLL when used as a shortening hook.

- Polished finish.
- AISI316L material.
- Tested and certified.
- 4:1 design factor.
- Manufactured in France.



- Never exceed manufacturer's Working Load Limit (WLL).
- Note: Where grab hooks are fitted as bottom hooks or chain is choked, the sling WLL must be derated by 20%.

GRADE 50 STAINLESS STEEL

CARE & USE G50 CHAIN SLINGS

All stainless steel items should be inspected before use to ensure that:

- all markings are legible
- all items are free from nicks, gouges and cracks
- items with the correct Working Load Limit have been selected with respect to the sling design i.e. the load to be lifted, the number of legs in the sling, the top angle etc. For further details, refer to the general instructions for care and use of chain slings following the Grade 100 section
- items may not be heat treated as this may affect their Working Load Limit
- never modify, repair or reshape an item by machining, welding, heating or bending as this may affect the WLL
- master links and the other items of the sling are all identifiable as being in stainless steel and for lifting purposes
- items are not distorted or unduly worn.

Inspection is required because the products in use may be affected by wear, misuse, overloading, etc. causing deformation and alteration of the material structure.

Corrosion Resistance Table for Stainless Steel AISI 316

Substance	Resistance	Substance	Resistance
Acetic Acid <20%	S	Hydrogen Cyanide 100%	L
Ammonia (100%)	S	Hydrogen Peroxide <35%	S
Ammonium Chloride <1%	S	Hydrogen Sulphide 100%	S
Ammonium Nitrate 10% – 50%	S	Mineral Oil	S
Ammonium Sulphate <10%	L	Nitric Acid <10%	S
Benzene	S	Potassium Sulphate <10%	S
Calcium Hypochlorite (100%)	U	Sodium Chloride <5%	S
Citric Acid <10%	S	Sodium Hypochlorite <20%	L
Copper Sulphate <10%	S	Sodium Nitrate 10% – 40%	S
Ethanol	S	Sodium Sulphate <10%	S
Gasoline	S	Zinc Chloride <10%	S
Hydrochloric Acid (all concentrations)	U	Zinc Sulphate <10%	S

The corrosion resistance table for stainless steel is provided as a guide only and should not be considered as a substitute for testing under specific conditions.

Abbreviations

- S = Satisfactory: no or very little corrosion.
- L = Limited resistance: exposure time must be limited, some corrosion might occur.
- U = Unsatisfactory: not suitable for use.



- Inspection by a competent person should take place at least every six months and more frequently when the components are used in severe operating conditions.
- Please note that the general care and use instructions covering grade 80 and grade 100 chain slings also apply to grade 50 Stainless Steel Chain Slings.



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INTRODUCTION

02

SHACKLES

Cookes has New Zealand's most comprehensive range of shackles.

GREEN-PIN ALLOY LIFTING SHACKLES

The preferred choice for industrial lifting applications, offering a high strength to weight ratio and an increased design factor from Working Load Limit to Minimum Breaking Load. Available in common forms such as screw pin or safety bolt bow shackles and screw pin or safety bolt dee shackles. Also available in special application types such as wide body, wide mouth and square head trawling shackles. Fully tested and certified.

YELLOW PIN ALLOY BOW SHACKLES

An economy alloy shackle option suitable for applications such as towing or 4WD recovery.

LARGE DEE HIGH TENSILE SHACKLES

The most common shackle sold until the arrival of alloy shackles on the market. They are still preferred by some users, particularly where self-colour shackles are required.

COMMERCIAL SHACKLES

Untested and uncertified shackles suitable for general purpose, non-lifting, applications only

STAINLESS STEEL SHACKLES

Grade 316 stainless steel shackles available in tested, stamped and certified dee or bow models for lifting applications, or in commercial type for general purpose, non-lifting applications. The commercial range offers a wide variety of types; captive pin, long, wide or twisted body.

As authorised New Zealand's distributor for the world's leading brands you can be assured of safety and quality every time.



OUR WORLD LEADING PARTNERS...



COOKES – helping lift New Zealand business for over 100 years!
a BRIDON · BEKAERT Ropes Group Brand

GENERAL INFORMATION

Applications

Shackles are used in lifting and static systems as removable links to connect wire rope, chain and other fittings. Screw pin shackles are used mainly for non-permanent applications. Safety bolt shackles are used for long-term or permanent applications or where the load may slide on the pin causing rotation of the pin.



Range

Cookes offers a wide range of bow and dee shackles, depending on the application for which the shackle is going to be used; the stock range stretches from working load limit (WLL) 0.25 tonnes to 120 tonnes. Larger sizes and special application shackles are available on indent.

Design

Our stock range of GreenPin® shackles designed for lifting applications are stamped with the following marks, to specify the quality & safe use of the shackles:

- Working Load Limit → e.g. WLL 25 T
- Manufacturer's identification symbol → e.g. GP, indicating Green Pin or Bs, indicating Van Beest
- Traceability code → e.g. HA pertaining to a particular batch
- Steel grade → e.g. 4, 6, 8
- CE conformity code → e.g. CE, Conformité Européen

Finish

Shackles supplied by Cookes can be either hot dipped galvanised or self coloured, depending on the type of shackle and its application.

You can find the finish of each type of shackle listed with the product information.

Certification

Upon request, load rated shackles can be supplied with a works certificate. For the Van Beest Green Pin® range, other forms of certification can be obtained upon request.



Offshore Container Use

Green Pin® Standard Shackles are DNV type approved to certification Note 2.7-1, lifting sets for offshore containers.



• Never exceed manufacturer's Working Load Limit



• Commercial (uncertified) shackles must never be used in lifting applications.

ALLOY LIFTING SHACKLES

02

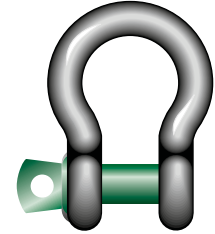
SHACKLES

GREEN PIN® STANDARD BOW

Green Pin® Standard Bow Shackles – Screw Collar Pin



Product Code	WLL	Dimensions (mm)										Weight
	t	a	b	c	d	e	f	g	h	i	j	kg
02325006	0.33	5	6	12	5	9.5	22	16	36	29.5	26	0.02
02325008	0.50	7	8	16.5	7	12	29	20	48.5	38	34	0.05
02325009	0.75	9	10	20	9	13.5	32	22	56	46.5	40	0.10
02325011	1.00	10	11	22.5	10	17	36.5	26	63.5	54	46	0.14
02325013	1.50	11	13	26.5	11	19	43	29	74	59.5	51	0.19
02325016	2.00	13.5	16	34	13	22	51	32	89	73	58	0.36
02325019	3.25	16	19	40	16	27	64	43	110	89	75	0.63
02325022	4.75	19	22	46	19	31	76	51	129	103	89	1.01
02325026	6.50	22	25	52	22	36	83	58	144	119	102	1.50
02325028	8.50	25	28	59	25	43	95	68	164	137	118	2.21
02325032	9.50	28	32	66	28	47	108	75	185	153	131	3.16
02325035	12.00	32	35	72	32	51	115	83	201	170	147	4.31
02325038	13.50	35	38	80	35	57	133	92	227	186	162	5.55
02325042	17.00	38	42	88	38	60	146	99	249	203	175	7.43
02325051	25.00	45	50	103	45	74	178	126	300	243	216	12.84
02325057	35.00	50	57	111	50	83	197	138	331	272	238	18.15
02325065	42.50	57	65	130	57	95	222	160	377	310	274	26.29
02325070*	55.00	65	70	145	65	105	260	180	433	344	310	37.60



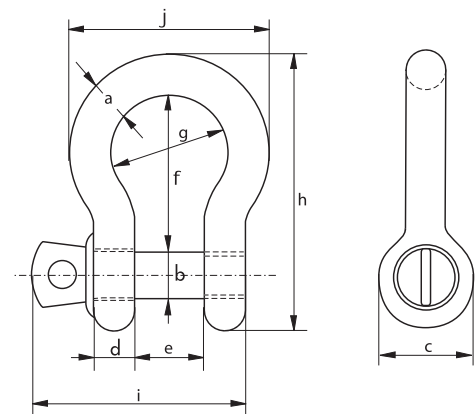
Van Beest
Item #: G-4161



* Available on indent.

- Material:** Bow and pin high tensile steel, Grade 6, quenched and tempered.
- Design factor:** 6:1
- Standard:** EN 13889 & meets performance requirements of US Fed. Spec. RR-C-271 Type IVA Class 2, Grade A.
- Finish:** Hot dip galvanised.
- Temp Range:** -20°C up to +200°C

- Tested and certified.
- Manufactured in The Netherlands.



• For details on dimensions and tolerances please consult Green Pin® CAD drawings, which are available on request.



• Cookes recommends using high quality Green Pin® shackles for safety and assurance in all industrial lifting applications.



• Never exceed manufacturer's Working Load Limit (WLL).

ALLOY LIFTING SHACKLES

GREEN PIN® STANDARD DEE

Green Pin® Standard Dee Shackles – Screw Collar Pin



Product Code	WLL	Dimensions (mm)								Weight
	t	a	b	c	d	e	f	g	h	kg
02326006	0.33	5	6	12	5	9.5	19	33	29.5	0.02
02326008	0.50	7	8	16.5	7	12	22	41.5	38	0.05
02326009	0.75	9	10	20	9	13.5	26	50	46.5	0.09
02326011	1.00	10	11	22.5	10	17	32	59	54	0.14
02326013	1.50	11	13	26.5	11	19	37	68	59.5	0.19
02326016	2.00	13.5	16	34	13	22	43	81	73	0.32
02326019	3.25	16	19	40	16	27	51	97	89	0.54
02326022	4.75	19	22	46	19	31	59	112	103	0.87
02326026	6.50	22	25	52	22	36	73	134	119	1.34
02326028	8.50	25	28	59	25	43	85	154	137	2.08
02326032	9.50	28	32	66	28	47	90	167	153	2.77
02326035	12.00	32	35	72	32	51	94	180	170	3.72
02326038	13.50	35	38	80	35	57	115	209	186	5.14
02326042	17.00	38	42	88	38	60	127	230	203	6.85
02326051	25.00	45	50	103	45	74	149	271	243	11.45
02326057*	35.00	50	57	111	50	83	171	305	272	16.86
02326065*	42.50	57	65	130	57	95	190	345	310	24.61
02326070*	55.00	65	70	145	65	105	203	376	344	32.65



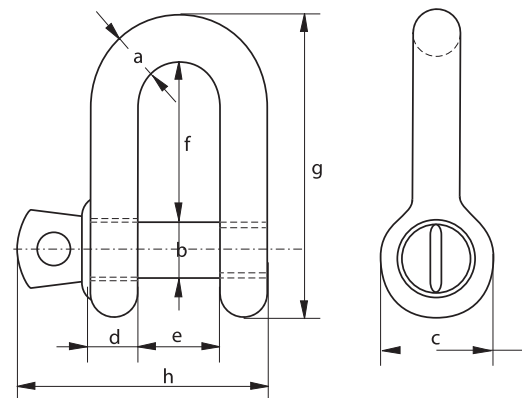
Van Beest
Item #: G-4151



* Available on indent.

- Material:** Bow and pin high tensile steel, Grade 6, quenched and tempered.
- Design factor:** 6:1
- Standard:** EN 13889 & meets performance requirements of US Fed. Spec. RR-C-271 Type IVB Class 2, Grade A.
- Finish:** Hot dip galvanised.
- Temp Range:** -20°C up to +200°C
- Certification:** At no extra charges product can be supplied with a works certificate.

- Tested and certified.
- Manufactured in The Netherlands.



• For details on dimensions and tolerances please consult Green Pin® CAD drawings, which are available on request.

• Cookes recommends using high quality Green Pin® shackles for safety and assurance in all industrial lifting applications.

• Never exceed manufacturer's Working Load Limit (WLL).

ALLOY LIFTING SHACKLES

02

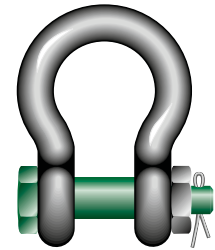
SHACKLES

GREEN PIN® SAFETY BOW

Green Pin® Standard Bow Shackles – Safety Bolt



Product Code	WLL	Dimensions (mm)											Weight
	t	a	b	c	d	e	f	g	h	i	j	k	kg
02329013	1.50	11	13	26.5	11	19	43	29	74	67	51	11	0.22
02329016	2.00	13.5	16	34	13	22	51	32	89	82	58	13	0.42
02329019	3.25	16	19	40	16	27	64	43	110	98	75	17	0.74
02329022	4.75	19	22	46	19	31	76	51	129	114	89	19	1.18
02329026	6.50	22	25	52	22	36	83	58	144	130	102	22	1.77
02329029	8.50	25	28	59	25	43	95	68	164	150	118	25	2.58
02329032	9.50	28	32	66	28	47	108	75	185	166	131	27	3.66
02329035	12.00	32	35	72	32	51	115	83	201	178	147	30	4.91
02329038	13.50	35	38	80	35	57	133	92	227	197	162	33	6.54
02329042	17.00	38	42	88	38	60	146	99	249	202	175	19	8.19
02329051	25.00	45	50	103	45	74	178	126	300	249	216	23	14.22
02329057	35.00	50	57	111	50	83	197	138	331	269	238	26	19.85
02329065	42.50	57	65	130	57	95	222	160	377	301	274	29	28.33
02329070	55.00	65	70	145	65	105	260	180	433	330	310	32	39.59
02329080	85.00	75	83	162	73	127	329	190	527	380	340	39	62.00

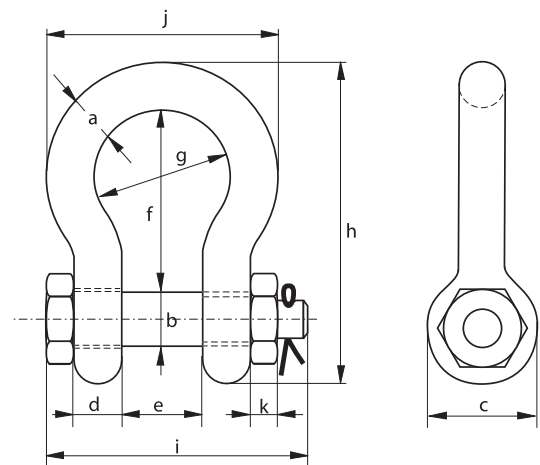


Van Beest
Item #: G-4163



- Material: Bow and pin high tensile steel, Grade 6, quenched and tempered.
- Design factor: 6:1
- Standard: EN 13889 & meets performance requirements of US Fed. Spec. RR-C-271 Type IVA Class 3, Grade A.
- Finish: Hot dip galvanised.
- Temp Range: -20°C up to +200°C

- Tested and certified.
- Manufactured in The Netherlands.



• For details on dimensions and tolerances please consult Green Pin® CAD drawings, which are available on request.



• Cookes recommends using high quality Green Pin® shackles for safety and assurance in all industrial lifting applications.



• Never exceed manufacturer's Working Load Limit (WLL).

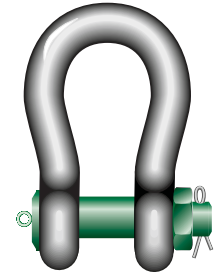
ALLOY LIFTING SHACKLES

GREEN PIN® HEAVY DUTY SAFETY BOW

Green Pin® Heavy Duty Bow Shackles – Safety Bolt



Product Code	WLL	Dimensions (mm)											Weight
	t	a	b	c	d	e	f	g	h	i	j	k	kg
02329095	120	95	95	208	91	147	400	238	647	440	428	50	110
02329096*	150	105	108	238	102	169	410	275	688	490	485	60	160
02329097*	200	120	130	279	113	179	513	290	838	520	530	60	235
02329098*	250	130	140	299	118	205	554	305	904	560	565	65	285
02329099*	300	140	150	325	123	205	618	305	996	575	585	70	340
02329100*	400	170	175	376	164	231	668	325	1,114	690	665	70	560
02329101*	500	180	185	398	164	256	718	350	1,190	720	710	70	685
02329102*	600	200	205	444	189	282	718	375	1,243	810	775	70	880
02329103*	700	210	215	454	204	308	718	400	1,263	870	820	70	980
02329104*	800	210	220	464	204	308	718	400	1,270	870	820	70	1,100
02329105*	900	220	230	485	215	328	718	420	1,296	920	860	70	1,280
02329106*	1,000	240	240	515	215	349	718	420	1,336	940	900	70	1,460
02329107*	1,250	260	270	585	230	369	768	450	1,456	1,025	970	70	1,990
02329108*	1,500	280	290	625	230	369	818	450	1,556	1,025	1,010	70	2,400



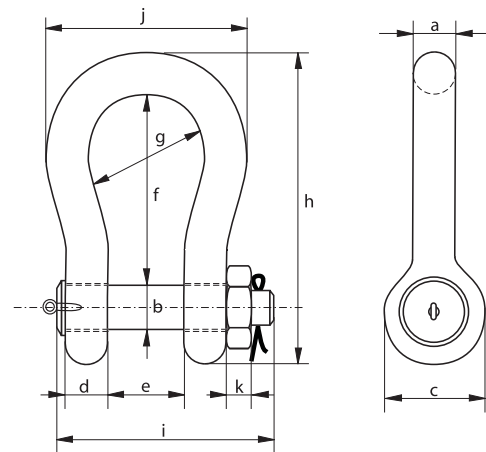
Van Beest
Item #: P-6036



* Available on indent.

- Material:** Bow and pin high tensile steel, Grade 8, quenched and tempered.
- Design factor:** 5:1
- Finish:** Shackle bow painted silver, pin painted green (120 tonne shackle is hot dip galvanised).
- Certification:** All shackles from 150 tonne are supplied with a Lloyd's Register of Shipping Certificate on proof load.

- Manufactured in The Netherlands.



- For details on dimensions and tolerances please consult Green Pin® CAD drawings, which are available on request.
- Cookes recommends using high quality Green Pin® shackles for safety and assurance in all industrial lifting applications.
- Never exceed manufacturer's Working Load Limit (WLL).

ALLOY LIFTING SHACKLES

02

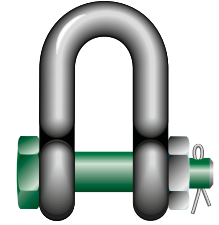
SHACKLES

GREEN PIN® SAFETY DEE

Green Pin® Standard Dee Shackles – Safety Bolt



Product Code	WLL	Dimensions (mm)									Weight
	t	a	b	c	d	e	f	g	h	i	kg
02329316	2.00	13.5	16	34	13	22	43	81	82	13	0.39
02329319	3.25	16	19	40	16	27	51	97	98	17	0.67
02329322	4.75	19	22	46	19	31	59	112	114	19	1.08
02329325	6.50	22	25	52	22	36	73	134	130	22	1.66
02329328	8.50	25	28	59	25	43	85	154	150	25	2.46
02329332	9.50	28	32	66	28	47	90	167	166	27	3.4
02329335	12.00	32	35	72	32	51	94	180	178	30	4.51
02329338	13.50	35	38	80	35	57	115	209	197	33	6.10
02329342	17.00	38	42	88	38	60	127	230	202	19	7.63
02329350*	25.00	45	50	103	45	74	149	271	249	23	12.88
02329357*	35.00	50	57	111	50	83	171	305	269	26	17.35
02329365*	42.50	57	65	130	57	95	190	345	301	29	25.94
02329370*	55.00	65	70	145	65	105	203	376	330	32	35.33
02329383*	85.00	75	83	162	73	127	229	427	380	39	52.97



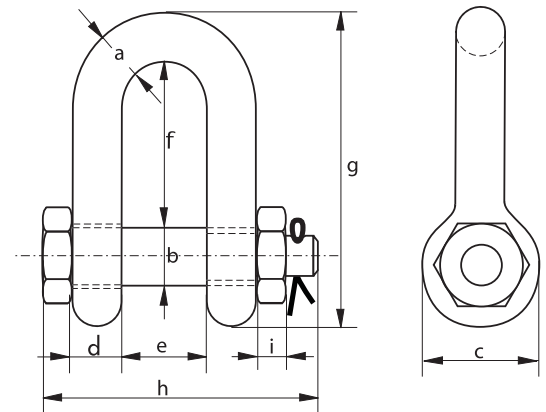
Van Beest
Item #: G-4153



* Available on indent.

- Material:** Bow and pin high tensile steel, Grade 6, quenched and tempered.
- Design factor:** 6:1
- Standard:** EN 13889 & meets performance requirements of US Fed. Spec. RR-C-271 Type IVB Class 3, Grade A.
- Finish:** Hot dip galvanised.
- Temp Range:** -20°C up to +200°C
- Certification:** At no extra charges product can be supplied with a works certificate.

- Tested and certified.
- Manufactured in The Netherlands.



• For details on dimensions and tolerances please consult Green Pin® CAD drawings, which are available on request.



• Cookes recommends using high quality Green Pin® shackles for safety and assurance in all industrial lifting applications.



• Never exceed manufacturer's Working Load Limit (WLL).

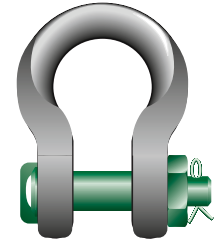
ALLOY LIFTING SHACKLES

GREEN PIN® WIDE BODY BOW SLING

Green Pin® Wide Body Bow Sling Shackles – Safety Bolt



Product Code	WLL	Dimensions (mm)													Weight
	t	a	b	c	d	e	f	g	h	i	j	k	l	kg	
02398035*	18	35	35	69	30	54	148	102	239	171	180	29	64	7	
02398042*	30	40	42	90	35	69	165	126	279	207	200	34	79	13	
02398051*	40	55	51	109	45	84	199	140	331	252	235	38	97	21	
02398057*	55	60	57	115	55	90	240	160	389	294	270	45	100	30	
02398070*	75	68	70	125	54	110	290	185	473	327	317	54	120	48	
02398080*	125	85	80	154	85	137	366	220	583	426	390	64	150	92	
02398081*	150	94	95	179	89	147	391	253	645	435	434	50	170	140	
02398082*	200	110	105	199	100	158	481	280	759	470	482	50	205	205	
02398083*	250	126	120	227	110	179	542	300	859	519	530	60	240	264	
02398084*	300	135	134	245	122	195	601	350	947	575	620	70	265	360	
02398085*	400	160	160	293	145	231	576	370	985	675	690	80	320	580	
02398086*	500	170	180	328	160	263	681	450	1,131	748	790	90	339	780	
02398087*	600	190	200	348	170	289	741	490	1,234	809	865	100	370	980	
02398088*	700	200	215	392	190	315	751	540	1,284	879	901	100	400	1,360	
02398089*	800	218	230	420	200	342	851	554	1,426	942	947	110	420	1,430	
02398090*	900	242	255	466	220	368	851	580	1,488	1,023	1,023	120	440	1,650	
02398091*	1,000	260	270	490	240	399	851	614	1,532	1,103	1,107	120	460	2,970	
02398092*	1,250	285	300	510	260	452	931	650	1,666	1,227	1,182	150	530	3,700	
02398093*	1,550	285	320	550	280	483	950	680	1,710	1,300	1,253	150	560	4,000	



Van Beest
Item #: P-6033

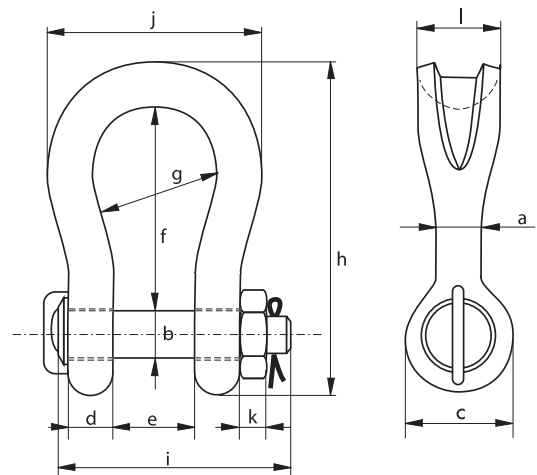


* Available on indent.

Wide Body Sling Shackles are designed for use with large slings to provide an improved radius for the wire rope.

- Material:** Bow and pin high tensile steel, Grade 8, quenched and tempered.
- Design factor:** 5:1
- Finish:** Shackle bow painted silver, pin painted green.
- Certification:** This product can be supplied with a works certificate, 3.1 material certificate, manufacturer test certificate, EC declaration of Conformity and all shackles from 75t and up are supplied with a Lloyd's Register of Shipping Certificate on proof load.

- Manufactured in The Netherlands.



• For details on dimensions and tolerances please consult Green Pin® CAD drawings, which are available on request.

• Never exceed manufacturer's Working Load Limit (WLL).

ALLOY LIFTING SHACKLES

02

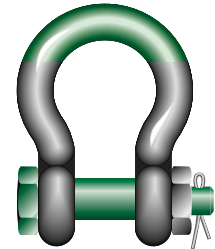
SHACKLES

GREEN PIN® SUPER SAFETY BOW

Green Pin® High WLL Bow Shackles – Safety Bolt



Product Code	WLL	Dimensions (mm)											Weight
	t	a	b	c	d	e	f	g	h	i	j	k	kg
02330016*	3.3	13.5	16	34	13	22	51	32	89	82	58	13	0.44
02330019*	5.0	16	19	40	16	27	64	43	110	98	75	17	0.79
02330022*	7.0	19	22	46	19	31	76	51	129	114	89	19	1.26
02330026*	9.5	22	25	52	22	36	83	58	144	130	102	22	1.88
02330028*	12.5	25	28	59	25	43	95	68	164	150	118	25	2.78
02330032*	15.0	28	32	66	28	47	108	75	185	166	131	27	3.87
02330035*	18.0	32	35	72	32	51	115	83	201	178	147	30	5.26
02330038*	21.0	35	38	80	35	57	133	92	227	197	162	33	6.94
02330042*	30.0	38	42	88	38	60	146	99	249	202	175	19	8.79
02330051*	40.0	45	50	103	45	74	178	126	300	249	216	23	15.00
02330057*	55.0	57	57	117	57	83	197	138	341	286	252	26	22.00
02330070*	85.0	70	70	143	70	105	260	180	437	344	320	32	42.00
02330083*	120.0	83	83	162	83	127	329	190	535	403	356	40	70.00
02330095*	150.0	95	95	208	91	147	400	238	647	511	428	50	112.00
02330108*	175.0	105	108	238	102	169	410	275	688	561	485	60	160.00



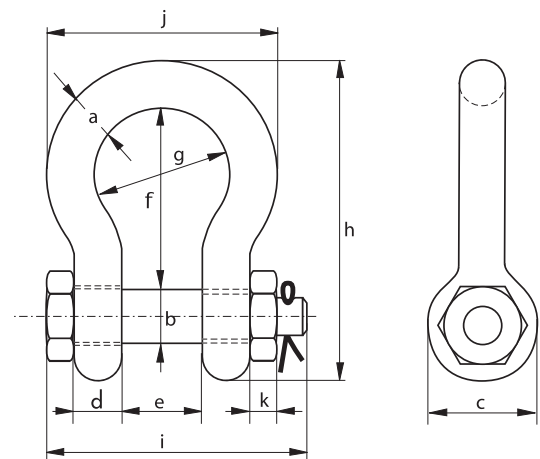
Van Beest
Item #: G-5263



* Available on indent. Items 02330095 & 02330108 with round-headed bolt.

A safety bow shackle in Grade 8 material offering a higher WLL than Grade 6 alloy shackles.

- Material:** Bow and pin high tensile steel, Grade 8, quenched and tempered.
- Design factor:** 5:1
- Standard:** meets performance requirements of US Fed. Spec. RR-C-271 Type IVA Class 3, Grade B.
- Finish:** hot dipped galvanized (175 ton shackle is painted).
- Temp. Range:** -20°C up to + 200°C
- Certification:** at no extra charges this product can be supplied with works certificate, shackles starting from 150 tons are supplied with a Lloyd's Register of Shipping Certificate on proof load.



- Manufactured in The Netherlands.



- Green Pin® Super Shackles are up to 50% stronger than standard shackles of the same size.
- For details on dimensions and tolerances please consult Green Pin® CAD drawings, which are available on request.



- Never exceed manufacturer's Working Load Limit (WLL).

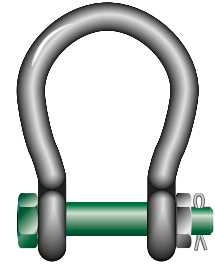
ALLOY LIFTING SHACKLES

GREEN PIN® WIDE MOUTH SAFETY BOW

Green Pin® Bow Shackles – Safety Bolt



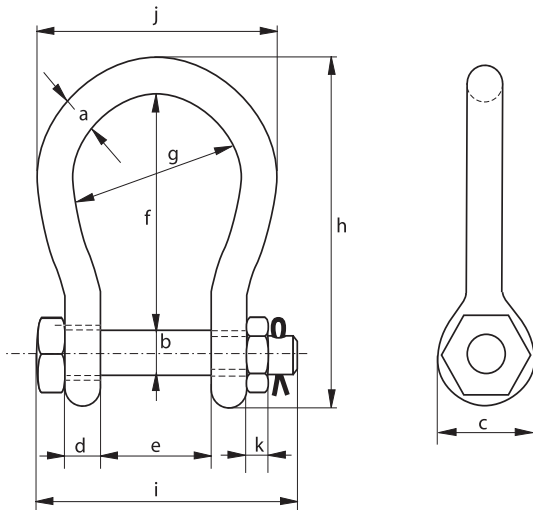
Product Code	WLL	Dimensions (mm)											Weight
	t	a	b	c	d	e	f	g	h	i	j	k	kg
02329425*	4.75	22	25	52	22	63	112	88	173	157	132	23	2.08
02329428*	6.50	25	28	59	25	75	135	105	204	182	155	25	3.14
02329432*	8.50	28	32	66	28	82	148	115	225	201	171	28	4.36
02329435*	9.50	32	35	72	32	90	162	126	248	217	190	31	5.95
02329438*	12.00	35	38	79	35	100	180	140	274	240	210	34	7.87
02329442*	16.00	38	42	88	38	106	216	159	319	248	235	19	12.50
02329450*	25.00	45	50	103	45	127	248	175	370	296	265	24	18.00
02329457*	30.00	50	57	118	50	146	273	207	411	338	307	27	25.00
02329470*	55.00	65	70	145	65	165	314	213	487	389	343	33	45.00
02329483*	75.00	75	83	166	75	184	330	254	530	432	404	40	70.00



Van Beest
Item #: G-4263



* Available on indent.



- Material:** Bow and pin high tensile steel, Grade 8, quenched and tempered.
- Design factor:** 6:1
- Temp. Range:** -20°C up to +200°C
- Finish:** Hot dipped galvanised.
- Certification:** This product can be supplied with a works certificate.

- Tested & Certified.
- Manufactured in The Netherlands.

• For details on dimensions and tolerances please consult Green Pin® CAD drawings, which are available on request.

• **Never exceed manufacturer's Working Load Limit (WLL).**

ALLOY LIFTING SHACKLES

02

SHACKLES

YELLOW PIN STANDARD BOW

Yellow Pin Standard Bow Shackles – Screw Collar Pin

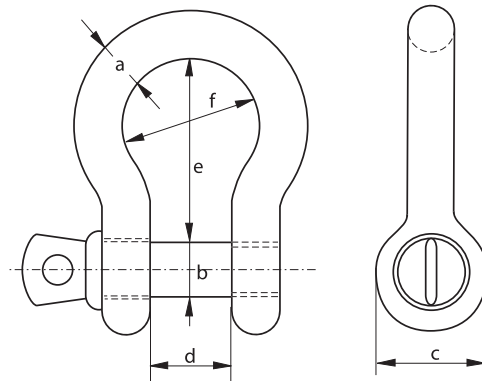
Product Code	WLL	Dimensions (mm)						Weight
	t	a	b	c	d	e	f	kg
02325506	0.33	5	6	14	9.5	22	15	0.03
02325508	0.50	6	8	16	12	29	20	0.05
02325509	0.75	8	10	19	13.5	31	21	0.09
02325511	1.00	10	11	23	17	37	26	0.14
02325513	1.50	11	13	27	19	43	29	0.20
02325516	2.00	13	16	30	20	48	33	0.33
02325519	3.20	16	19	38	27	60	43	0.62
02325522	4.70	19	22	46	32	71	50	1.07
02325526	6.50	22	25	53	36	84	58	1.64
02325528	8.50	25	28	61	43	95	68	2.28
02325532	9.50	28	32	68	46	108	74	3.36
02325535	12.00	32	35	76	51	119	82	4.31
02325538	13.50	35	38	84	57	133	92	6.14



An economy alloy bow shackle manufactured to Australian Standard specifications.

Material: High tensile steel, Grade 6.
 Design factor: 6:1
 Standard: AS 2741
 Finish: Hot dip galvanised.

- Test certificates available.
- Manufactured in China.



• Cookes recommends using GreenPin® shackles for safety and assurance in high-use industrial lifting applications.



• Never exceed manufacturer's Working Load Limit (WLL).

ALLOY LIFTING SHACKLES

CROSBY SHACKLE RANGE



As the authorised New Zealand distributor for the Crosby Group, the full range of Crosby shackles is available on indent.

Refer to your local Cookes branch for specifications and data sheets.



YOKE SHACKLE RANGE



As the authorised New Zealand distributor for Yoke Industrial, the full range of Yoke Shackles is available on indent.

Refer to your local Cookes branch for specifications and data sheets.



LARGE DEE LIFTING SHACKLES

02

SHACKLES

SELF COLOUR LARGE DEE

Self Colour Large Dee Shackles – Screw Collar Pin



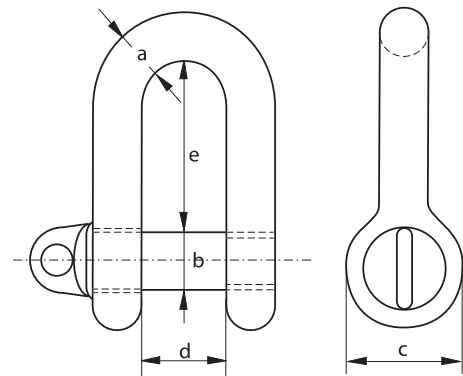
Product Code	WLL	Dimensions (mm)					Weight
	t	a	b	c	d	e	kg
02301109	0.25	6	10	19	13	25	0.11
02301113	0.50	10	13	25	19	38	0.17
02301116	0.75	13	16	32	28	54	0.35
02301119	1.50	16	19	38	32	64	0.66
02301122	2.00	19	22	44	38	73	1.02
02301126	3.00	22	25	51	44	83	1.57
02301129	3.75	25	28	57	51	95	2.30
02301132	5.00	28	32	64	54	105	3.20
02301135	6.00	32	35	70	60	114	4.30
02301138	7.00	35	38	76	67	127	5.40
02301144	9.50	38	45	83	70	137	6.80
02301148	11.25	42	48	89	76	146	8.70
02301151	13.00	44	51	95	83	156	11.00



Van Beest
Item #: S-2751

Material: Bow and pin EN14a carbon manganese steel.
 Design factor: 4:1
 Standard: Generally to B.S. 3032 table 2.
 Finish: Self colour (black).

- Test certificated available.
- Quality checked and certified by Van Beest in The Netherlands.
- Manufactured in China.



• Cookes recommends using GreenPin® shackles for safety and assurance in high-use industrial lifting applications.



• Never exceed manufacturer's Working Load Limit (WLL).

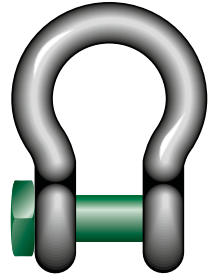
TRAWL SHACKLES

GREEN PIN® BOW

Green Pin® Trawling Bow – Square Head Screw Pin



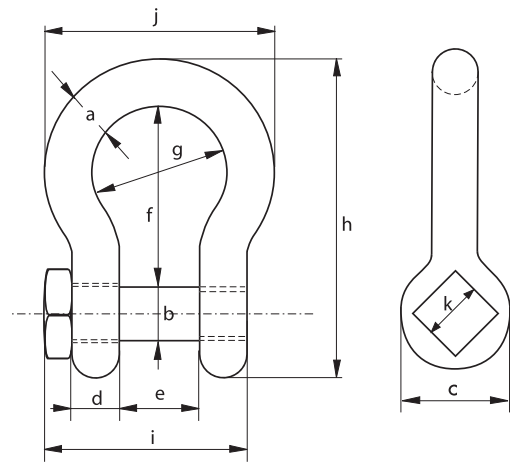
Product Code	WLL	Dimensions (mm)											Weight
	t	a	b	c	d	e	f	g	h	i	j	k	kg
02314322	4.75	19	22	46	19	31	76	51	129	82	89	32	1.00
02314326	6.50	22	25	52	22	36	83	58	144	93	102	32	1.44
02314328	8.50	25	28	59	25	43	95	68	164	108	118	36	2.21
02314332	9.50	28	32	66	28	47	108	75	185	120	131	41	3.18
02314335	12.00	32	35	72	32	51	115	83	201	137	147	50	4.32
02314338	13.50	35	38	80	35	57	133	92	227	149	162	50	5.67
02314342	17.00	38	42	88	38	60	146	99	249	164	175	60	7.36
02314351	25.00	45	50	103	45	74	178	126	300	192	216	60	12.38



Van Beest
Item #: G-4164



- Material:** Bow and pin high tensile steel, Grade 6, quenched and tempered.
- Design factor:** 6:1
- Standard:** EN 13889 & meets performance requirements of US Fed. Spec. RR-C-271, Grade A.
- Finish:** Hot dip galvanised.
- Certification available.
 - Manufactured in The Netherlands.



• Never exceed manufacturer's Working Load Limit (WLL).

TRAWL SHACKLES

02

SHACKLES

GREEN PIN® DEE

Green Pin® Trawling Dee – Square Head Screw Pin



Product Code	WLL	Dimensions (mm)									Weight kg
	t	a	b	c	d	e	f	g	h	i	
02314216	2.00	13.5	16	34	13	22	43	81	57.5	22	0.32
02314219	3.25	16	19	40	16	27	51	97	71	27	0.58
02314222	4.75	19	22	46	19	31	59	112	82	32	0.92
02314225	6.50	22	25	52	22	36	73	134	93	32	1.33
02314228	8.50	25	28	59	25	43	85	154	108	36	2.03
02314232	9.50	28	32	66	28	47	90	167	120	41	2.88
02314235	12.00	32	35	72	32	51	94	180	137	50	3.96
02314238	13.50	35	38	80	35	57	115	209	149	50	5.24
02314242	17.00	38	42	88	38	60	127	230	164	60	6.80

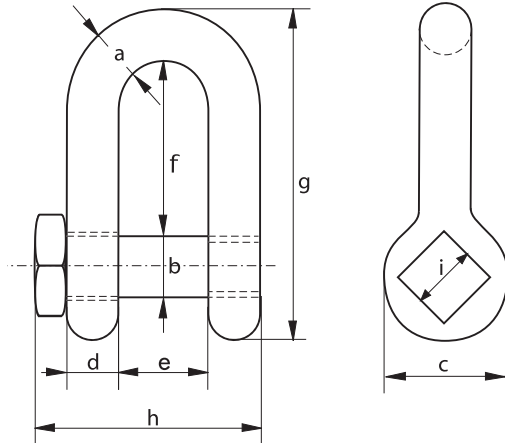


Van Beest
Item #: G-4154



Material: Bow and pin high tensile steel, Grade 6, quenched and tempered.
Design factor: 6:1
Standard: EN 13889 & meets performance requirements of US Fed. Spec. RR-C-271, Grade A.
Finish: Hot dip galvanised.

- Certification available.
- Manufactured in The Netherlands.



• Never exceed manufacturer's Working Load Limit (WLL).

TRAWL SHACKLES

SELF COLOUR DEE

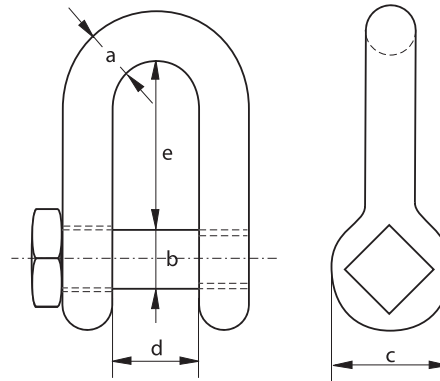
Self Colour Dee Trawl Shackles – Square Head Screw Pin

Product Code	Dimensions (mm)					Weight
	a	b	c	d	e	kg
02314009	10	10	20	20	40	0.12
02314013	12	12	24	24	48	0.21
02314016	16	16	32	32	64	0.49
02314019	19	19	38	38	76	0.96
02314022	22	22	44	44	88	1.28
02314026	25	25	50	50	100	1.88
02314028	28	28	56	56	112	2.65



Material: Mild steel, untreated, Grade 30
 Finish: Self colour (black).

- Manufactured in China.



• Commercial grade trawl shackles must not be used for lifting applications.

COMMERCIAL SHACKLES

02

SHACKLES

HOT DIP GALVANISED DEE

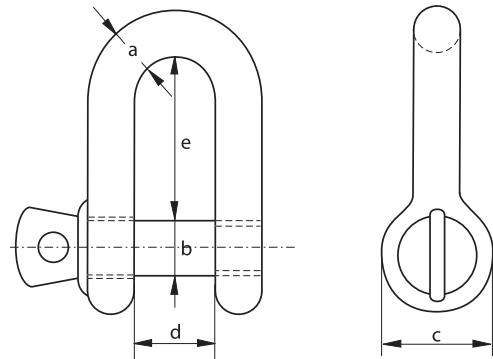
Hot Dip Galvanised Dee Shackles – Screw Pin

Product Code	Dimensions (mm)					Weight
	a	b	c	d	e	100pcs/kg
02300005	5	5	10	10	20	1.47
02300006	6	6	12	12	24	2.56
02300008	8	8	16	16	32	6.06
02300009	10	10	20	20	40	11.80
02300013	12	12	24	24	48	20.50
02300016	16	16	32	32	64	48.50
02300019	19	19	38	38	76	94.70
02300022	22	22	44	44	88	126.00
02300026	25	25	50	50	100	185.00



Commercial grade untested dee shackles are the perfect connection between chains and ropes in non-load bearing applications.

- Mild steel, Grade 30.
- Hot dip galvanised finish.
- Commercial quality (uncertified).
- Manufactured in China.



- Commercial shackle dimensions may vary.
- Check with your local Cookes branch if dimensions are critical for intended application.



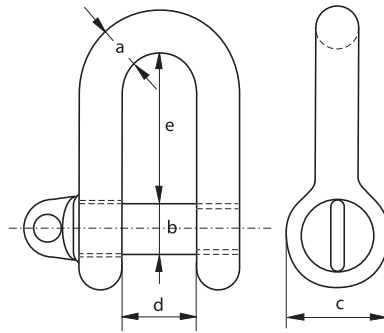
- Commercial grade dee shackles must not be used for lifting applications.

COMMERCIAL SHACKLES

SELF COLOUR LARGE DEE (MOORING)

Self Colour Large Dee Shackles – Screw Pin

Product Code	Dimensions (mm)					Weight
	a	b	c	d	e	kg
02298016	16	16	32	32	64	0.48
02298019	19	19	38	38	76	0.95
02298022	22	22	44	44	88	1.26
02298026	25	25	50	50	100	1.85
02298029	28	28	56	56	112	2.60
02298032	32	32	64	64	128	3.68
02298035	35	35	70	70	140	5.00
02298038	38	38	76	76	152	6.50



Self colour mild steel large dee shackles are predominantly used in swing mooring applications for self colour chain connections.

- Mild steel, Grade 30.
- Self colour finish.
- Commercial quality (uncertified).
- Manufactured in China.



• Commercial shackle dimensions may vary.
• Check with your local Cookes branch if dimensions are critical for intended application.



• Commercial grade dee shackles must not be used for industrial lifting applications.

STAINLESS STEEL SHACKLES

02

SHACKLES

CERTIFIED LIFTING DEE SHACKLES

Stainless Steel Screw Pin Dee Shackles

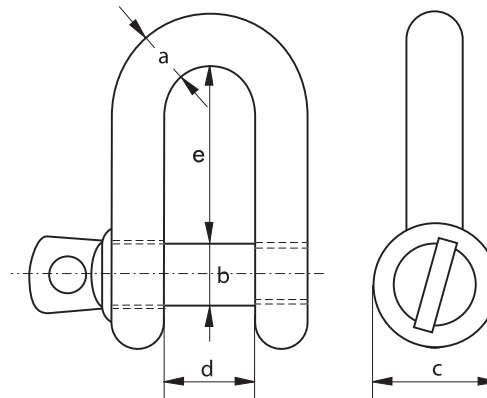


Product Code	WLL	Dimensions (mm)					Weight
	t	a	b	c	d	e	100pcs/kg
02321006	0.15	6	6	12	12	24	2.4
02321008	0.3	8	8	16	16	32	5.6
02321010	0.4	10	10	20	20	40	13.0
02321012	0.6	12	12	24	24	48	20.0
02321016	1.0	16	16	32	32	64	48.0
02321019	1.5	20	20	40	40	80	84.0
02321022	2.0	22	22	44	44	88	127.0



Van Beest
Item #: R-7821

- AISI316 Material.
- Tested and certified.
- 6:1 Design factor.
- Marked with WLL.
- Manufactured in The Netherlands.



• Cookes recommend corrosion resistant Van Beest Stainless Steel Shackles for industrial lifting applications.



• Never exceed manufacturer's Working Load Limit (WLL).

STAINLESS STEEL SHACKLES

CERTIFIED LIFTING BOW SHACKLES

Stainless Steel Safety Pin Bow Shackles

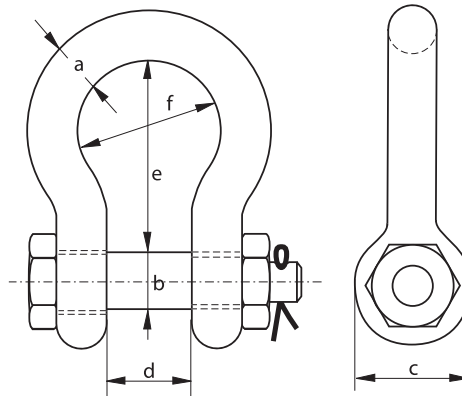


Product Code	WLL	Dimensions (mm)						Weight
	t	a	b	c	d	e	f	100pcs/kg
02324008	0.3	8	8	16	16	32	24	7.2
02324010	0.4	10	10	19	20	40	30	13.4
02324012	0.6	12	12	24	25	49	36	23.0
02324016	1.0	16	16	31	32	64	48	56.6
02324019	1.5	19	19	38	38	80	60	95.2
02324022	2.0	22	22	43	44	85	66	146.0
02324025	3.0	25	25	49	50	100	75	218.0



Van Beest
Item #: R-7827

- AISI316 Material.
- Tested and certified.
- 6:1 Design factor.
- Marked with WLL.
- Manufactured in The Netherlands.



• Cookes recommend corrosion resistant Van Beest Stainless Steel Shackles for industrial lifting applications.



• Never exceed manufacturer's Working Load Limit (WLL).

STAINLESS STEEL SHACKLES

02

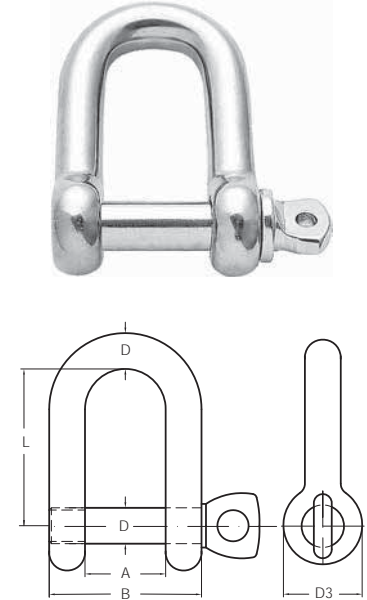
SHACKLES

COMMERCIAL STAINLESS STEEL SHACKLES

Forged Dee Shackles – Screw Pin

Product Code	MWL*	Dimensions (mm)			
	kg	D	A	B	L
09568405	232	5	10	20	20
09568406	337	6	12	24	24
09568408	605	8	16	32	32
09568410	952	10	20	40	40
09568412	1,401	12	24	48	48
09568416	2,492	16	32	64	64
09568420	3,472	19	38	76	76
09568422	4,712	22	44	88	88
09568425	5,709	25	50	100	100

- AISI316 Stainless Steel material.
- Polished finish.
- Design factor 4:1 MWL to MBL.
- Manufactured in China.

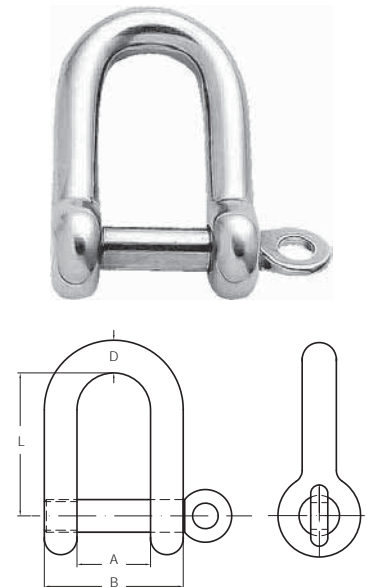


Forged Dee Shackles – Captive Screw Pin

Product Code	MWL*	Dimensions (mm)			
	kg	D	A	B	L
09568485	232	5	10	20	20
09568486	337	6	12	24	24
09568488	605	8	16	32	32
09568490	952	10	20	40	40
09568492	1,401	12	24	48	48

Captive Screw Pin ensures pin stays engaged and cannot be lost.

- AISI316 Stainless Steel material.
- Polished finish.
- Design factor 4:1 MWL to MBL.
- Manufactured in China.



* The Maximum Working Load (MWL) is shown only to provide guidance in selecting a shackle with sufficient strength for the intended application.



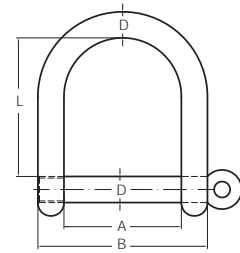
• Commercial grade stainless steel shackles must not be used for lifting applications. Stainless steel dee shackles suitable for lifting applications are detailed on page 118.

STAINLESS STEEL SHACKLES

COMMERCIAL STAINLESS STEEL SHACKLES

Wide Body Forged Dee Shackles – Captive Screw Pin

Product Code	MWL*	Dimensions (mm)			
	kg	D	A	L	R
09568465	232	5	25	22	35
09568466	337	6	24	33	36
09568468	605	8	28	32	44
09568470	952	10	40	55	60
09568472	1,401	12	50	66	74

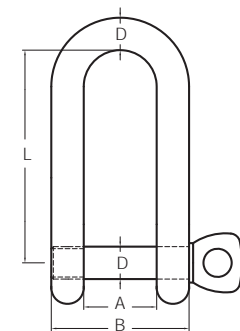
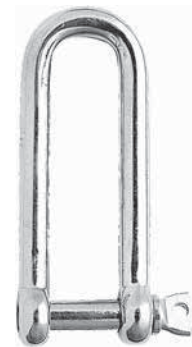


Captive Screw Pin ensures pin stays engaged and cannot be lost.

- AISI316 Stainless Steel material.
- Polished finish.
- Design factor 4:1 MWL to MBL.
- Manufactured in China.

Long Body Forged Dee Shackles – Screw Pin

Product Code	MWL*	Dimensions (mm)			
	kg	D	A	B	L
09568475	232	5	10	20	40
09568476	337	6	12	24	48
09568478	605	8	16	32	64
09568480	952	10	20	40	80
09568482	1,401	12	24	48	96



- AISI316 Stainless Steel material.
- Polished finish.
- Design factor 4:1 MWL to MBL.
- Manufactured in China.

* The Maximum Working Load (MWL) is shown only to provide guidance in selecting a shackle with sufficient strength for the intended application.



Commercial grade stainless steel shackles must not be used for lifting applications. Stainless steel dee shackles suitable for lifting applications are detailed on page 118.

STAINLESS STEEL SHACKLES

02

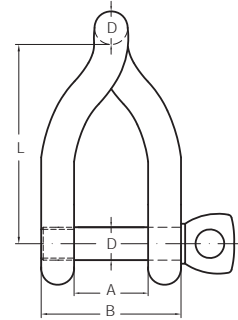
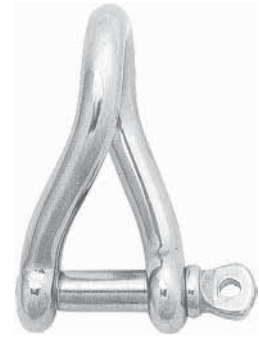
SHACKLES

COMMERCIAL STAINLESS STEEL SHACKLES

Twisted Body Forged Shackles – Screw Pin

Product Code	MWL*	Dimensions (mm)			
	kg	D	A	B	L
09568427	232	5	10	20	30
09568428	337	6	12	24	36
09568429	605	8	16	32	48
09568430	952	10	20	40	60
09568431	1,401	12	24	48	72

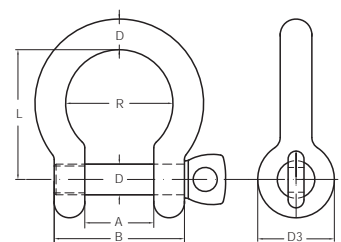
- AISI316 Stainless Steel material.
- Polished finish.
- Design factor 4:1 MWL to MBL.
- Manufactured in China.



Forged Bow Shackles – Screw Pin

Product Code	MWL*	Dimensions (mm)			
	kg	D	A	L	R
09568445	232	5	10	20	17
09568446	337	6	12	24	21
09568448	605	8	16	32	28
09568450	952	10	20	40	35
09568452	1,401	12	24	48	42

- AISI316 Stainless Steel material.
- Polished finish.
- Design factor 4:1 MWL to MBL.
- Manufactured in China.



* The Maximum Working Load (MWL) is shown only to provide guidance in selecting a shackle with sufficient strength for the intended application.



• Commercial grade stainless steel shackles must not be used for lifting applications. Stainless steel bow shackles suitable for lifting applications are detailed on page 119.

CARE & USE OF SHACKLES

Inspection

Shackles should be inspected before use to ensure that:

- all markings are legible;
- the body and pin are both identifiable as being of the same size, type and make;
- the threads of the pin and the body are undamaged;
- the body and the pin are not distorted or unduly worn;
- the body and pin are free from nicks, gouges, cracks and corrosion;
- shackles have not been heat treated.



It is required that the shackles are regularly inspected as they may be affected by wear, misuse, overloading etc. with a consequence of deformation and alteration of the material structure. Inspection should take place at least every 12 months and more frequently when the shackles are used in severe operating conditions.

Never

- Use a safety bolt type shackle without using a security pin.
- Immerse a shackle in acidic solutions or expose to acid fumes or other chemicals that are potentially harmful to the shackle. Please be aware that these types of chemicals are used in certain production processes.
- Modify, repair or reshape a shackle by machining, welding, heating or bending as this will affect the working load limit.
- Use a commercial (uncertified) shackle for lifting applications.
- Replace a shackle pin except with one of the same size, type and make.

Selection

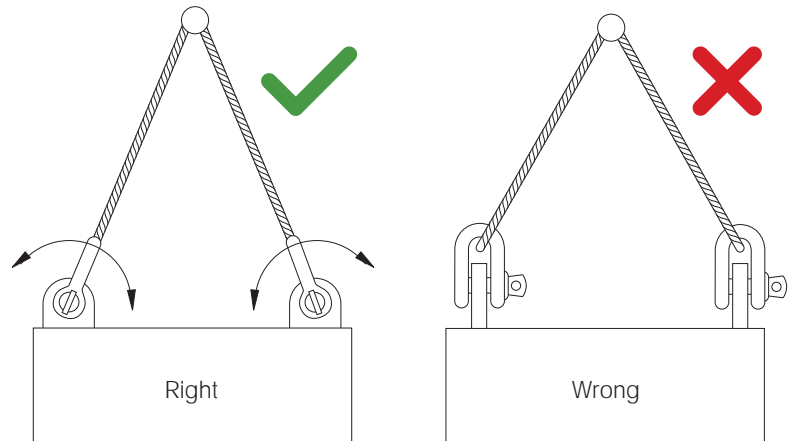
Select the correct type of shackle and its working load limit for the particular application. Should extreme circumstances or shock loading be applicable, this must be well taken into account on selecting the correct shackle.

Assembly

Ensure that the pin is correctly screwed into the shackle eye, i.e. tighten hand-tight, then secure using a wrench or other suitable tool so that the collar of the pin is fully seated on the shackle eye. Ensure that the pin is of the correct length so that it penetrates the full depth of the screwed eye and allows the collar of the pin to seat on the surface of the shackle eye.

Incorrect seating of the pin may be due to a bent pin, too tight fitting thread or misalignment of the pin holes. Do not use the shackle under these circumstances.

Make sure that the shackle is supporting the load correctly, i.e. along the axis of the shackle body centreline, avoid introduction of bending loads or unstable loads. Do not overload.



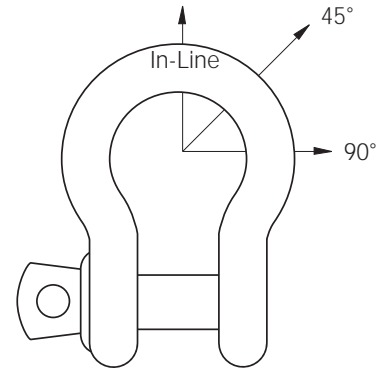
- Never exceed manufacturer's Working Load Limit
- Commercial (uncertified) shackles must never be used in lifting applications.

CARE & USE OF SHACKLES

Side loads

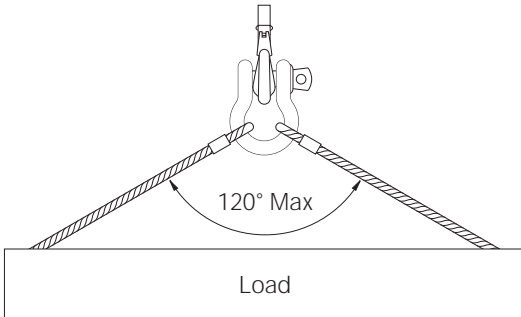
Side loads should be avoided wherever possible. If side loads cannot be avoided, the following reduction factors must be taken into account:

Load angle	Reduction for side loading New Working Load Limit
0°	100% of original Working Load Limit
45°	70% of original Working Load Limit
90°	50% of original Working Load Limit



In-line loading is considered to be a load perpendicular to the pin and in the plane of the bow. Load angles in the table are the deviating angles from the in-line loads.

When using shackles to connect multi-leg slings, due consideration should be given to the effect of the angle between the legs of the sling. As the angle increases, so does the load in the sling leg and consequently in any shackle attached to that leg.

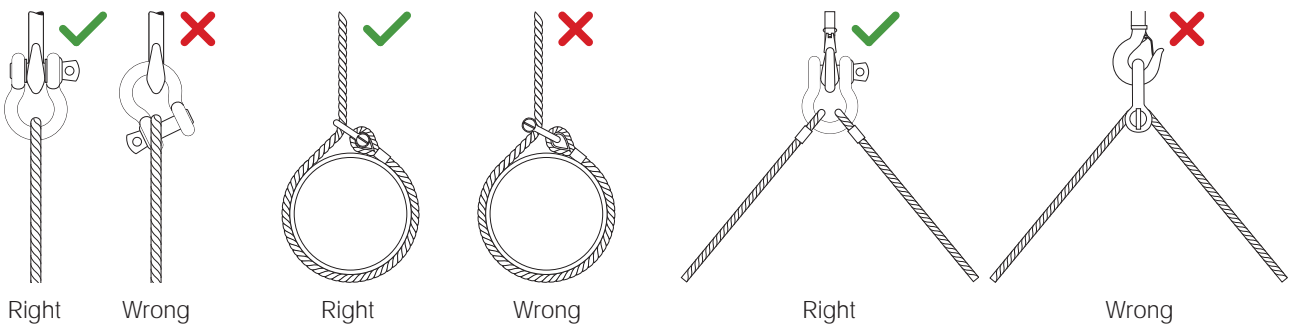


When a shackle is used to connect two slings to the hook of a lifting device, a bow type shackle must be assembled with the slings in the shackle body and the hook engaged with the shackle pin. The angle between the slings should not exceed 120°. If symmetrically loaded the shackle may be used to the full WLL.

To avoid eccentric loading of the shackle a loose spacer may be used on either end of the shackle pin. Do not reduce the width between the shackle jaws by welding washers or spacers to the inside faces of the eyes or by closing the jaws, as this will affect the properties of the shackle.

When a shackle is used to secure the top block of a set of wire rope blocks, the load on this shackle is increased by the value of the hoisting effect.

Avoid applications where due to movement (e.g. of the load or the rope) the shackle pin can rotate and possibly be unscrewed. If such an application is necessary or when the shackle is to be left in place for a prolonged period or where maximum pin security is required, use a shackle with a safety bolt, nut and cotter pin.



 • Never exceed manufacturer's Working Load Limit
• Commercial (uncertified) shackles must never be used in lifting applications.

CARE & USE OF SHACKLES

Point loading

Most of the time the load bearing component that is in connection with a shackle is of a rounded shape. Point loading of shackles is allowed but the minimum diameter of a rounded component should be equal or bigger than the bow size of the shackle being used.

Bigger diameters and/or flat parts (at shackle pin side) to increase contact area can be beneficial. Sharp edges should be avoided.

Temperature

If extreme temperature situations are applicable, the following load reduction must be taken into account:

Temperature	Reduction for elevated temperatures New Working Load Limit
< 200°C	100% of original Working Load Limit
200-300°C	90% of original Working Load Limit
300-400°C	75% of original Working Load Limit
> 400°C	not allowed



Exceptionally hazardous conditions

The rating of shackles to EN 13889 assumes the absence of exceptionally hazardous conditions. Exceptionally hazardous conditions include offshore activities, the lifting of persons and the lifting of potentially dangerous loads such as molten metals, corrosive materials or fissile materials. In such cases a competent person should assess the degree of hazard and the safe working load (SWL) should be reduced accordingly from the working load limit (WLL).

Information provided courtesy of Van Beest B.V, The Netherlands.



• For a special report on the use of shackles with round slings, refer page 153.



- Never exceed manufacturer's Working Load Limit
- Commercial (uncertified) shackles must never be used in lifting applications.



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INTRODUCTION

03

SYNTHETIC LIFTING,
TOWING & RECOVERY

Synthetic slings offer several advantages to users, including light weight and flexibility, shock absorbency and an ability to conform to the shape of the load. They will not damage delicate surfaces and allow for quick and easy inspection.

A wide range of soft sling protection sleeves are available to help prevent sling damage from abrasion, with some more recent advances including high abrasion resistant kevlar sleeves and anti-cut corner pads.

If you are having trouble deciding between a flat web sling and an endless round sling, refer our handy guide on the following page to assist you in making the best selection.

FLAT WEB SLINGS

Liftec economy range

- A range of stock lengths in Working Load Limits from 1 tonne to 10 tonne
- Colour coded to comply with AS 1353.1
- Manufactured in China

Custom Manufactured

- Manufactured in New Zealand to order by Cookes
- Eye & eye web slings manufactured to required length in Working Load Limits from 1 tonne to 10 tonne
- Endless Web Slings manufactured to required length up to 20 tonne Working Load Limit
- End fittings and wear protection sleeving can be fitted to requirements
- Colour coded to comply with EN 1492-1

Special Imports

- 4-ply eye and eye slings available from Australia in Working Load Limits up to 20 tonne
- Colour coded to comply with AS 1353.1

ENDLESS ROUND SLINGS

Double Cover Round Slings

- With 2 outer covers for longer life
- A range of stock lengths in Working Load Limits from 1 tonne to 50 tonne
- Colour coded to comply with EN 1492-2

Special Imports

- A range of heavy duty round slings available from Australia in Working Load Limits up to 150 tonne
- Colour coded to comply with AS 1353.1

Endless Stage Slings

- A range of 2.4 tonne Working Load Limit heat resistant slings for theatre and stage use

High Performance Twin-Path Slings

- The world's top performing slings manufactured from high spec fibres
- Packed with unique features
- Available in Working Load Limits up to 500 tonne
- Manufactured under license in Australia

Synthetic Sling Protection

- A range of protective sleeves and pads for abrasion or cut resistance.

Custom Manufactured Recovery & Towing Straps

- Manufactured in New Zealand by Cookes
- SnatchMaster 4WD recovery straps and associated hardware
- Heavy vehicle, high Elongation Nylon Recovery Straps up to 36 tonne Minimum Breaking Load
- Light vehicle tow straps
- Polyester tow straps up to 72 tonne Minimum Breaking Load

Black Snake Towing & Recovery Straps

- A unique range of vulcanised rubber covered straps with hard eyes
- High elongation recovery straps with nylon inner core, up to 100 tonne Minimum Breaking Load
- Low elongation tow straps with Kevlar inner core, up to 400 tonne Minimum Breaking Load
- 6 metre straps up to 100 tonne MBL held in New Zealand stock

OUR WORLD LEADING PARTNERS...



COOKES – helping lift New Zealand business for over 100 years!
a BRIDON · BEKAERT Ropes Group Brand

WHICH SLING DO I CHOOSE?

Both web slings and round slings are an excellent choice where delicate or highly finished products must be protected from damage during lifting. They are both light weight and easy to handle and absorb shock better than either chain or wire rope. They are non-conductive which means they are safe for use in explosive atmospheres.



FLAT WEB SLINGS

- Web slings adjust well to load contour.
- Web slings are available in wide widths which provides greater surface contact aiding load control during lifting.
- Web slings are colour coded for quick identification of Working Load Limit.
- Locally manufactured web slings are available with various eye types (flat eyes, reduced eyes, reduced and reversed eyes) to suit the connection hardware being used or the type of lift. For example, flat eyes allow the web sling to be more easily passed under items such as pallets.
- Numerous types of sleeves are available for flat slings protecting sling fibres from damage.

Web slings can be manufactured using a variety of end fittings with matching Working Load Limits – refer to your Cookes branch for more information. For chemical resistance information refer to chart on page 136.

ENDLESS ROUND SLINGS

- Round slings are constructed from a continuous loop of polyester yarn enclosed within a woven sleeve.
- Round slings allow the wear points to be moved around to extend sling life.
- Round slings are extremely pliable with limited stretch.
- Round slings comply with the shape of any load to grip securely.
- The round sling cover protects the internal load bearing yarns from UV degradation.
- Round slings offer very good shock absorbency.
- Round slings are light weight and colour coded for quick identification of Working Load Limit.
- Round slings are available with considerably higher Working Load Limits than flat web slings.



INTERESTING FACTS:

Did you know that the first round sling with a seamless cover was invented by Ruben Henry Norman from Sweden and was patented in 1972?

In 1980 another Swedish inventor, Bengt Lindahl received a patent for a round sling that had sewn seams. Bengt worked for the Svensk Lasthantering AG Company in Sweden, a company later purchased by the Bridon Group.

The Twin-Path® round sling consisting of two separate and independent high performance yarn cores was invented by Dennis St.Germain of Slingmax® Inc. in 1987.



High Performance Twin-Path® Sling



• Cookes can provide removable kevlar sleeves for both flat web slings and endless round slings. Refer page 157.









WORKING LOAD LIMITS

SYNTHETIC SLING WORKING LOAD LIMITS

Colour Coded Synthetic Lifting Sling Working Load Limits

03

SYNTHETIC LIFTING,
TOWING & RECOVERY

Lifting Mode	Vertical	Choke	Basket				2 Leg	3 – 4 Leg
								
Colour	Single	Single	Parallel	30°	60°	90°	0° – 90°	0° – 90°
	t	t	t	t	t	t	t	t
Violet	1.0	0.8	2.0	1.9	1.7	1.4	1.4	2.1
Green	2.0	1.6	4.0	3.8	3.4	2.8	2.8	4.2
Yellow	3.0	2.4	6.0	5.7	5.1	4.2	4.2	6.3
Grey	4.0	3.2	8.0	7.6	6.8	5.6	5.6	8.4
Red	5.0	4.0	10.0	9.5	8.5	7.0	7.0	10.5
Brown	6.0	4.8	12.0	11.4	10.2	8.4	8.4	12.6
Blue	8.0	6.4	16.0	15.2	13.6	11.2	11.2	16.8
Orange	10.0	8.0	20.0	19.0	17.0	14.0	14.0	21.0
Orange	15.0	12.0	30.0	28.5	25.5	21.0	21.0	31.5
Orange	16.0	12.8	32.0	30.4	27.2	22.4	22.4	33.6
Orange	20.0	16.0	40.0	38.0	34.0	28.0	28.0	42.0
Orange	30.0	24.0	60.0	57.0	51.0	42.0	42.0	63.0
Orange	50.0	40.0	100.0	95.0	85.0	70.0	70.0	105.0

Round slings available in larger sizes on request.

WORKING LOAD LIMITS (TONNES) IN ACCORDANCE WITH STANDARD, EN1492 & ASI353.1

Flat Slings or Round Slings in accordance with EN1492-1 and EN1492-2 have a design factor of 7:1.

Flat Slings in accordance with ASI353.1 have a design factor of 8:1.

The Working Load Limits (WLL) listed in the table above are the maximum weights which slings are designed to sustain in general lifting service under equal loading.

In exceptionally hazardous conditions or in any other circumstances which might indicate a need for a WLL lower than the designated figure, the degree of hazard should be assessed by a competent person and the Working Load Limit adjusted accordingly.



 • Never exceed Manufacturer's Working Load Limit (WLL).

FLAT WEB LIFTING SLINGS

COLOUR CODED STANDARD

Double Ply Flat Slings – 1,000kg



Product Code	Length	Width	WLL	Approx. Weight	Colour
	m	mm	t	kg per m	
09361100	1.0	50	1.0	0.24	Violet
09361200	2.0	50	1.0	0.24	Violet
09361300	3.0	50	1.0	0.24	Violet
09361400	4.0	50	1.0	0.24	Violet
09361500	5.0	50	1.0	0.24	Violet



Double Ply Flat Slings – 2,000kg



Product Code	Length	Width	WLL	Approx. Weight	Colour
	m	mm	t	kg per m	
09362100	1.0	60	2.0	0.46	Green
09362150	1.5	60	2.0	0.46	Green
09362200	2.0	60	2.0	0.46	Green
09362250	2.5	60	2.0	0.46	Green
09362300	3.0	60	2.0	0.46	Green
09362350	3.5	60	2.0	0.46	Green
09362400	4.0	60	2.0	0.46	Green
09362500	5.0	60	2.0	0.46	Green
09362600	6.0	60	2.0	0.46	Green
09362800	8.0	60	2.0	0.46	Green



Colour coded flat slings are light weight and very flexible. High tenacity polyester fibre.

- Protected reduced eyes.
- Design factor 8:1 to ensure maximum safety.
- Complies with AS1353.1.
- Manufactured in Korea by DSR Corporation.



 • Refer Synthetic Sling Protection starting page 157 for protective sleeving options.

 • Never exceed Manufacturer's Working Load Limit (WLL).

FLAT WEB LIFTING SLINGS

COLOUR CODED STANDARD

Double Ply Flat Slings – 3,000kg



Product Code	Length	Width	WLL	Approx. Weight	Colour
	m	mm	t	kg per m	
09363100	1.0	90	3.0	0.70	Yellow
09363150	1.5	90	3.0	0.70	Yellow
09363200	2.0	90	3.0	0.70	Yellow
09363250	2.5	90	3.0	0.70	Yellow
09363300	3.0	90	3.0	0.70	Yellow
09363350	3.5	90	3.0	0.70	Yellow
09363400	4.0	90	3.0	0.70	Yellow
09363500	5.0	90	3.0	0.70	Yellow
09363600	6.0	90	3.0	0.70	Yellow



Double Ply Flat Slings – 4,000kg



Product Code	Length	Width	WLL	Approx. Weight	Colour
	m	mm	t	kg per m	
09364150	1.5	120	4.0	0.90	Grey
09364200	2.0	120	4.0	0.90	Grey
09364250	2.5	120	4.0	0.90	Grey
09364300	3.0	120	4.0	0.90	Grey
09364350	3.5	120	4.0	0.90	Grey
09364400	4.0	120	4.0	0.90	Grey
09364500	5.0	120	4.0	0.90	Grey
09364600	6.0	120	4.0	0.90	Grey



Colour coded flat slings are light weight and very flexible. High tenacity polyester fibre.

- Protected reduced eyes.
- Design factor 8:1 to ensure maximum safety.
- Complies with AS1353.1.
- Manufactured in Korea by DSR Corporation.



• Refer Synthetic Sling Protection starting page 157 for protective sleeving options.



• Never exceed Manufacturer's Working Load Limit (WLL).

FLAT WEB LIFTING SLINGS

COLOUR CODED STANDARD

Double Ply Flat Slings – 5,000kg

DSR

Product Code	Length	Width	WLL	Approx. Weight	Colour
	m	mm	t	kg per m	
09365200	2.0	150	5.0	1.35	Red
09365300	3.0	150	5.0	1.35	Red
09365400	4.0	150	5.0	1.35	Red
09365500	5.0	150	5.0	1.35	Red
09365600	6.0	150	5.0	1.35	Red



Double Ply Flat Slings – 6,000kg

DSR

Product Code	Length	Width	WLL	Approx. Weight	Colour
	m	mm	t	kg per m	
09366400	4.0	180	6.0	1.55	Brown
09366500	5.0	180	6.0	1.55	Brown
09366600	6.0	180	6.0	1.55	Brown
09366800	8.0	180	6.0	1.55	Brown



Double Ply Flat Slings – 8,000kg

DSR

Product Code	Length	Width	WLL	Approx. Weight	Colour
	m	mm	t	kg per m	
09368400	4.0	240	8.0	2.15	Blue
09368500	5.0	240	8.0	2.15	Blue
09368600	6.0	240	8.0	2.15	Blue
09368800	8.0	240	8.0	2.15	Blue



Double Ply Flat Slings – 10,000kg

DSR

Product Code	Length	Width	WLL	Approx. Weight	Colour
	m	mm	t	kg per m	
09370500	5.0	300	10.0	2.80	Orange
09370600	6.0	300	10.0	2.80	Orange
09370800	8.0	300	10.0	2.80	Orange
09370910	10.0	300	10.0	2.80	Orange



Colour coded flat slings are light weight and very flexible. High tenacity polyester fibre.

- Protected reduced eyes.
- Design factor 8:1 to ensure maximum safety.
- Complies with AS1353.1.
- Manufactured in Korea by DSR Corporation.



• Refer Synthetic Sling Protection starting page 157 for protective sleeving options.



• Never exceed Manufacturer's Working Load Limit (WLL).

FLAT WEB LIFTING SLINGS

COLOUR CODED HIGH CAPACITY

CS Series Web Lifting Slings



SpanSet Item No.	WLL	Width	Ply
	t	mm	
CS12000*	12	180	4
CS16000*	16	240	4
CS20000*	20	300	4

* Available on indent.

SpanSet 4 ply flat slings are manufactured with reinforced eyes for greater durability. Wide load bearing surface to minimize damage to fragile loads.

- Lightweight for enhanced manual handling safety.
- Excellent strength to weight ratio.
- Light and flexible for good access in awkward situations.
- More lifting power due to four layers.
- Heavy-duty flat sling 12 tonne up to 20 tonne.
- No damage during lifting due to wide supporting surface.
- Optional with loop or D-ring.
- Optimum handling due to low weight.
- Exceptional lateral strength.
- Certified to AS1353 with 8:1 design factor.
- Manufactured in Australia.



• Never exceed manufacturer's Working Load Limit (WLL).

FLAT WEB LIFTING SLINGS

COOKES CUSTOM MANUFACTURED EN1492-1

Cookes can custom manufacture flat lifting slings in-house to your specific requirements. With highest quality webbing manufactured in Australia, we can produce flat slings in Working Load Limits up to 20 tonne. Various end components can be fitted along with abrasion-resistant sleeving.

Available Configurations



RA2	RA3	RA4	RA1	RA5
Reduced Eyes	Reduced & Reversed Eyes	Flat Eyes	Metal End Fittings	Endless Flat Slings
Where small hooks are used. Reinforced eyes for greater durability. STANDARD OPTION	For choker lift. Gives square lift to load on same plane as webbing. Reinforced eyes for greater durability.	Where minimum clearance is required for passing under load and for use with lifting beams. Reinforced eyes for greater durability.	Best suited to lift where eyes get excessive wear.	Best suited to awkward loads where stability is easily achieved by spreading of the sling legs.

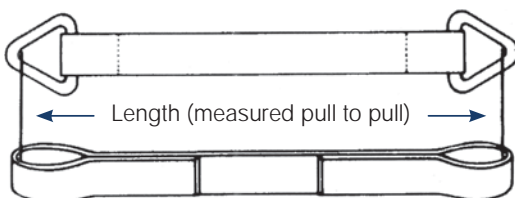
ORDERING YOUR NEW COOKES CUSTOM MANUFACTURED WEB SLING.

Please specify at the time of order:

- Sling Type RA1, RA2, RA3, RA4 or RA5 (refer above).
- Any end fittings required.
- Sling length (pull to pull).
- Working Load Limit.
- Any protective sleeving requirements.

Eye and Eye Web Slings

- Complies with EN1492-1.
- Design factor 7:1.
- Various eye designs available (reduced eyes as standard).
- Working Load Limits up to 10 tonne.
- All slings colour coded.
- Manufactured in New Zealand by Cookes.



High Performance Web Slings manufactured in New Zealand

Working Load Limit in tonnes Vertical Lift*		Width (mm)	Colour Code
Eye & Eye (2 Ply)	Endless (1 Ply)		
1.0	1.0	50	Violet
2.0	2.0	60	Green
3.0	3.0	100	Yellow
4.0	4.0	140	Grey
5.0	5.0	150	Red
6.0	6.0	180	Brown
8.0	8.0	240	Blue
10.0	10.0 (1 Ply) 20.0 (2 Ply)	300	Orange

* For other lifting mode factors refer page 134.

• Specials such as Cradle Slings and Travelift Slings manufactured to order. Refer your nearest Cookes branch.
• Refer Synthetic Sling Protection starting page 157 for protective sleeving options.

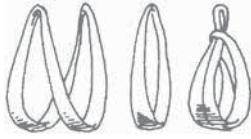
• Never exceed manufacturer's Working Load Limit (WLL).

CARE & SAFE USE OF FLAT SLINGS

03

SYNTHETIC LIFTING,
TOWING & RECOVERY

CARE & SAFE USE OF FLAT WEB LIFTING SLINGS



Determine required Working Load Limit



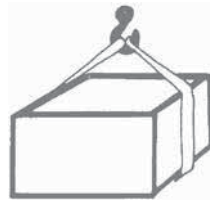
Don't pull sling from under load
The full weight of the load on sling can damage the sling and reduce performance.



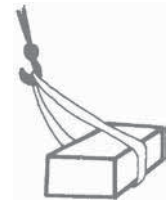
Don't knot a sling
Slings should never be joined by knots. Tying knots seriously weakens sling life and capacity.



Balance load
Use more than only one sling if necessary for balance. Avoid load slippage. There's safety in sling numbers.



Match sling-to-load angle on Working Load Limit chart
Never exceed published Working Load Limit (WLL).



Avoid abrasive surfaces
Don't drag slings on flooring or over equipment.



Acids and caustics
Don't use polyester slings around caustics. Don't use nylon slings around acids.
Don't use any slings in temperatures over 90°C.



Protect load and slings with proper guards
Watch for corners, sharp edges and protrusions.

CHEMICAL RESISTANCE GUIDE

General Guideline Only To Polyester & Nylon Webbing Chemical Resistance

Product	Acids	Alcohols	Aldehydes	Strong Alkalis	Weak Alkalis	Bleaching Agents	Dry Cleaning Solvents	Ethers
Polyester	*	✓	NO	**	✓	✓	✓	NO
Nylon	NO	✓	✓	✓	✓	NO	✓	✓
Product	Halogenated Hydrocarbons	Hydrocarbons	Ketones	Oils Crude	Oils Lubricating	Soap & Detergents	Water	Sea Water
Polyester	✓	✓	✓	✓	✓	✓	✓	✓
Nylon	✓	✓	✓	✓	✓	✓	✓	✓

* Disintegrated by concentrated sulphuric acid. ** Degraded by strong alkalis at elevated temperatures.



- Read and understand all safety instructions prior to using a web lifting sling.
- Always use protective sleeves or pads where cutting or abrasion may occur.



- Failure to follow the safety instructions when using synthetic slings can lead to serious injury or loss of life!

CARE & SAFE USE OF FLAT SLINGS

CARE & SAFE USE OF FLAT WEB LIFTING SLINGS

Webbing slings must be inspected prior to every use. Look for:

- Any external wear such as abrasion or cuts and contusions.
- Internal wear which is often indicated by a thickening of the sling or the presence of grit and dirt.
- Damage caused by high temperatures, sunlight or chemicals (indicated by discolouration).
- Damage to the label or stitching.
- Damage to the eyes or to any end fittings.

Discard a web sling if:

- There is excessive surface wear, cross or longitudinal cuts in the webbing. Cuts or chafe damage to the edges, crystallisation of the webbing (caused by exposure to excessive heat), or local weakening of the webbing so that surface fibres can be plucked or rubbed off.
- The label has been removed or is illegible.
- End fittings are pitted, corroded, cracked or otherwise damaged.
- There is any damage to protective sleeving.
- A nylon sling comes into contact with acid.
- A polyester sling comes into contact with strong alkaline substances.

Storage:

- Proper storage is essential to prevent deterioration and damage to web slings. Wet slings must be allowed to dry naturally before being stored. Under no circumstances should slings be heated or otherwise force dried. Slings must be stored in locations that have the following conditions:
- Clean and free from dirt and grit.
- Dry and ventilated to prevent condensation.
- Off the ground and without contact with any surface that may corrode.
- Away from the following:
 - Direct sunlight and ultraviolet rays.
 - Sources of heat (e.g. steam pipes, furnaces).
 - Sparks from any sources.
 - Chemically degrading atmospheres, including damaging fumes.
 - Chemically degrading materials, incl. liquids that may leak from containers.
 - Locations where mechanical damage is likely to occur, i.e. on or underneath racks containing heavy objects that could inadvertently damage the slings.



• Cookes' experienced personnel can inspect your web slings and reuse hardware where deemed safe on a new sling.



• Cookes recommend use of abrasion-resistant or cut-resistant sleeving with web slings – refer Synthetic Sling Protection starting page 157 for protective sleeving options..



• Never exceed manufacturer's Working Load Limit (WLL).



• Never attempt to repair a damaged web sling.

CARE & USE OF FLAT SLINGS







CARE & SAFE USE OF FLAT WEB LIFTING SLINGS

03

SYNTHETIC LIFTING,
TOWING & RECOVERY

Recognising Webbing Damage

Remove flat web lifting slings from service if any of the following damage is visible:

	<p>Holes, tears, snags, cuts.</p>
	<p>Chemical damage.</p>
	<p>Broken or worn stitching in areas of the load bearing webbing.</p>
	<p>Melting or charring of the webbing, or weld splatter.</p>
	<p>Excessive abrasion.</p>
	<p>Any damage to eyes</p>



- Cookes recommend use of abrasion-resistant or cut-resistant sleeving with web slings – refer Synthetic Sling Protection starting page 157 for protective sleeving options.



- Never attempt to repair a damaged web sling.
- Always use protective sleeves or pads where any possibility of abrasion or cutting exists.

ENDLESS ROUND SLINGS

COLOUR CODED STANDARD

Polyester Round Slings – Violet 1T WLL



Product Code	Length	Approx. Under Load (mm)		Min. Load Edge Ø	Approx. Weight
	m	Thickness	Width	mm	kg per m
09301051	0.5	4.7	38	17	0.3
09301075	0.75	4.7	38	17	0.3
09301101	1.0	4.7	38	17	0.3
09301151	1.5	4.7	38	17	0.3
09301201	2.0	4.7	38	17	0.3
09301251	2.5	4.7	38	17	0.3
09301301	3.0	4.7	38	17	0.3
09301351	3.5	4.7	38	17	0.3
09301401	4.0	4.7	38	17	0.3
09301501	5.0	4.7	38	17	0.3
09301601	6.0	4.7	38	17	0.3



Polyester Round Slings – Green 2T WLL



Product Code	Length	Approx. Under Load (mm)		Min. Load Edge Ø	Approx. Weight
	m	Thickness	Width	mm	kg per m
09302051	0.5	7.0	57	21	0.5
09302101	1.0	7.0	57	21	0.5
09302151	1.5	7.0	57	21	0.5
09302201	2.0	7.0	57	21	0.5
09302251	2.5	7.0	57	21	0.5
09302301	3.0	7.0	57	21	0.5
09302351	3.5	7.0	57	21	0.5
09302401	4.0	7.0	57	21	0.5
09302501	5.0	7.0	57	21	0.5
09302601	6.0	7.0	57	21	0.5
09302801	8.0	7.0	57	21	0.5



Colour coded endless round slings with single outer sleeve.

- Other sizes and configurations available upon request.
- Complies with EN1492-2.
- 7:1 design factor.
- Manufactured by DSR Corporation in Korea.

• Lengths 1 metre and above will be superseded by double-cover round slings as stocks are exhausted.

• Never exceed Manufacturer's Working Load Limit (WLL).

ENDLESS ROUND SLINGS

COLOUR CODED STANDARD

Polyester Round Slings – Yellow 3T WLL



Product Code	Length	Approx. Under Load (mm)		Min. Load Edge Ø	Approx. Weight
	m	Thickness	Width	mm	kg per m
09303051	0.5	8.0	56	23	0.6
09303101	1.0	8.0	56	23	0.6
09303151	1.5	8.0	56	23	0.6
09303201	2.0	8.0	56	23	0.6
09303251	2.5	8.0	56	23	0.6
09303301	3.0	8.0	56	23	0.6
09303351	3.5	8.0	56	23	0.6
09303401	4.0	8.0	56	23	0.6
09303501	5.0	8.0	56	23	0.6
09303601	6.0	8.0	56	23	0.6
09303801	8.0	8.0	56	23	0.6



Polyester Round Slings – Grey 4T WLL



Product Code	Length	Approx. Under Load (mm)		Min. Load Edge Ø	Approx. Weight
	m	Thickness	Width	mm	kg per m
09304101	1.0	9.8	76	27	0.8
09304151	1.5	9.8	76	27	0.8
09304201	2.0	9.8	76	27	0.8
09304251	2.5	9.8	76	27	0.8
09304301	3.0	9.8	76	27	0.8
09304401	4.0	9.8	76	27	0.8
09304501	5.0	9.8	76	27	0.8
09304601	6.0	9.8	76	27	0.8



Colour coded endless round slings with single outer sleeve.

- Other sizes and configurations available upon request.
- Complies with EN1492-2.
- 7:1 design factor.
- Manufactured by DSR Corporation in Korea.



• Lengths 1 metre and above will be superseded by double-cover round slings as stocks are exhausted.



• Never exceed Manufacturer's Working Load Limit (WLL).

ENDLESS ROUND SLINGS

COLOUR CODED STANDARD

Polyester Round Slings – Red 5T WLL



Product Code	Length	Approx. Under Load (mm)		Min. Load Edge Ø	Approx. Weight
	m	Thickness	Width	mm	kg per m
09305101	1.0	11.8	75	30	1.0
09305201	2.0	11.8	75	30	1.0
09305251	2.5	11.8	75	30	1.0
09305301	3.0	11.8	75	30	1.0
09305401	4.0	11.8	75	30	1.0
09305501	5.0	11.8	75	30	1.0
09305601	6.0	11.8	75	30	1.0
09305801	8.0	11.8	75	30	1.0
09305910	10.0	11.8	75	30	1.0



Polyester Round Slings – Brown 6T WLL



Product Code	Length	Approx. Under Load (mm)		Min. Load Edge Ø	Approx. Weight
	m	Thickness	Width	mm	kg per m
09306101	1.0	13.0	74	31	1.1
09306201	2.0	13.0	74	31	1.1
09306251	2.5	13.0	74	31	1.1
09306301	3.0	13.0	74	31	1.1
09306401	4.0	13.0	74	31	1.1
09306501	5.0	13.0	74	31	1.1
09306601	6.0	13.0	74	31	1.1
09306801	8.0	13.0	74	31	1.1
09306910	10.0	13.0	74	31	1.1



Colour coded endless round slings with single outer sleeve.

- Other sizes and configurations available upon request.
- Complies with EN1492-2.
- 7:1 design factor.
- Manufactured by DSR Corporation in Korea.



• Single-cover round slings will be superceded by double-cover slings as stocks are exhausted.



• Never exceed Manufacturer's Working Load Limit (WLL).

ENDLESS ROUND SLINGS

COLOUR CODED STANDARD

Polyester Round Slings – Blue 8T WLL

DSR

Product Code	Length	Approx. Under Load (mm)		Min. Load Edge Ø	Approx. Weight
	m	Thickness	Width	mm	kg per m
09308101	1.0	15.0	94	37	1.5
09308201	2.0	15.0	94	37	1.5
09308301	3.0	15.0	94	37	1.5
09308401	4.0	15.0	94	37	1.5
09308501	5.0	15.0	94	37	1.5
09308601	6.0	15.0	94	37	1.5
09308801	8.0	15.0	94	37	1.5
09308910	10.0	15.0	94	37	1.5



Polyester Round Slings – Orange 10T WLL

DSR

Product Code	Length	Approx. Under Load (mm)		Min. Load Edge Ø	Approx. Weight
	m	Thickness	Width	mm	kg per m
09310101	1.0	18.0	122	45	1.9
09310201	2.0	18.0	122	45	1.9
09310301	3.0	18.0	122	45	1.9
09310401	4.0	18.0	122	45	1.9
09310501	5.0	18.0	122	45	1.9
09310601	6.0	18.0	122	45	1.9
09310801	8.0	18.0	122	45	1.9
09310910	10.0	18.0	122	45	1.9



Polyester Round Slings – Orange 15T WLL

DSR

Product Code	Length	Approx. Under Load (mm)		Min. Load Edge Ø	Approx. Weight
	m	Thickness	Width	mm	kg per m
09315201	2.0	15.0	144	50	2.6
09315301	3.0	15.0	144	50	2.6
09315401	4.0	15.0	144	50	2.6
09315501	5.0	15.0	144	50	2.6
09315601	6.0	15.0	144	50	2.6
09315801	8.0	15.0	144	50	2.6
09315910	10.0	15.0	144	50	2.6



• Single-cover round slings will be superseded by double-cover slings as stocks are exhausted.



• Never exceed Manufacturer's Working Load Limit (WLL).

ENDLESS ROUND SLINGS

COLOUR CODED STANDARD

Polyester Round Slings – Orange 20T WLL



Product Code	Length	Approx. Under Load (mm)		Min. Load Edge Ø	Approx. Weight
	m	Thickness	Width	mm	kg per m
09320201	2.0	20.0	142	52	3.3
09320301	3.0	20.0	142	52	3.3
09320401	4.0	20.0	142	52	3.3
09320501	5.0	20.0	142	52	3.3
09320601	6.0	20.0	142	52	3.3
09320801	8.0	20.0	142	52	3.3
09320911	10.0	20.0	142	52	3.3



Polyester Round Slings – Orange 30T WLL



Product Code	Length	Approx. Under Load (mm)		Min. Load Edge Ø	Approx. Weight
	m	Thickness	Width	mm	kg per m
09330401	4.0	40.0	175	89	6.7
09330601	6.0	40.0	175	89	6.7
09330801	8.0	40.0	175	89	6.7
09330910	10.0	40.0	175	89	6.7



Polyester Round Slings – Orange 50T WLL



Product Code	Length	Approx. Under Load (mm)		Min. Load Edge Ø	Approx. Weight
	m	Thickness	Width	mm	kg per m
09350401	4.0	70.0	186	145	12.6
09350601	6.0	70.0	186	145	12.6
09350801	8.0	70.0	186	145	12.6
09350910	10.0	70.0	186	145	12.6



Colour coded endless round slings with single outer sleeve. Easy to handle and protect surface of goods being lifted.

- High tenacity polyester yarn.
- Reinforced polyester tube cover.
- Complies with EN1492-2.
- 7:1 design factor.
- Other sizes and configurations available upon request.
- Manufactured by DSR Corporation in Korea.



• Single-cover round slings will be superseded by double-cover slings as stocks are exhausted.

• Never exceed Manufacturer's Working Load Limit (WLL).

ENDLESS ROUND SLINGS

COLOUR CODED DOUBLE-COVER

Polyester Round Slings Double Skin – Violet 1T WLL



Product Code	Length	Approx. Under Load (mm)		Min. Load Edge Ø	Approx. Weight
	m	Thickness	Width	mm	kg per m
09301101D	1.0	5.0	37	18	0.30
09301151D	1.5	5.0	37	18	0.30
09301201D	2.0	5.0	37	18	0.30
09301251D	2.5	5.0	37	18	0.30
09301301D	3.0	5.0	37	18	0.30
09301351D	3.5	5.0	37	18	0.30
09301401D	4.0	5.0	37	18	0.30
09301501D	5.0	5.0	37	18	0.30
09301601D	6.0	5.0	37	18	0.30



The additional cover means added core protection

Polyester Round Slings Double Skin – Green 2T WLL



Product Code	Length	Approx. Under Load (mm)		Min. Load Edge Ø	Approx. Weight
	m	Thickness	Width	mm	kg per m
09302101D	1.0	7.0	56	22	0.49
09302151D	1.5	7.0	56	22	0.49
09302201D	2.0	7.0	56	22	0.49
09302251D	2.5	7.0	56	22	0.49
09302301D	3.0	7.0	56	22	0.49
09302351D	3.5	7.0	56	22	0.49
09302401D	4.0	7.0	56	22	0.49
09302501D	5.0	7.0	56	22	0.49
09302601D	6.0	7.0	56	22	0.49
09302801D	8.0	7.0	56	22	0.49



The additional cover means added core protection

Colour coded endless round slings with a second cover for increased wear life. Easy to handle and protects surface goods being lifted.

- High tenacity polyester yarn.
- 2 reinforced polyester tube covers.
- Complies with EN1492-2.
- 7:1 design factor.
- Manufactured by DSR Corporation in Korea.



• Never exceed Manufacturer's Working Load Limit (WLL).

ENDLESS ROUND SLINGS

COLOUR CODED DOUBLE-COVER

Polyester Round Slings Double Skin- Yellow 3T WLL



Product Code	Length	Approx. Under Load (mm)		Min. Load Edge Ø	Approx. Weight
	m	Thickness	Width	mm	kg per m
09303101D	1.0	8.7	55	24	0.66
09303151D	1.5	8.7	55	24	0.66
09303201D	2.0	8.7	55	24	0.66
09303251D	2.5	8.7	55	24	0.66
09303301D	3.0	8.7	55	24	0.66
09303351D	3.5	8.7	55	24	0.66
09303401D	4.0	8.7	55	24	0.66
09303501D	5.0	8.7	55	24	0.66
09303601D	6.0	8.7	55	24	0.66
09303801D	8.0	8.7	55	24	0.66



The additional cover means added core protection

Polyester Round Slings Double Skin- Grey 4T WLL



Product Code	Length	Approx. Under Load (mm)		Min. Load Edge Ø	Approx. Weight
	m	Thickness	Width	mm	kg per m
09304101D	1.0	10.5	74	29	0.81
09304151D	1.5	10.5	74	29	0.81
09304201D	2.0	10.5	74	29	0.81
09304251D	2.5	10.5	74	29	0.81
09304301D	3.0	10.5	74	29	0.81
09304401D	4.0	10.5	74	29	0.81
09304501D	5.0	10.5	74	29	0.81
09304601D	6.0	10.5	74	29	0.81



The additional cover means added core protection

Colour coded endless round slings with a second cover for increased wear life. Easy to handle and protects surface goods being lifted.

- High tenacity polyester yarn.
- 2 reinforced polyester tube covers.
- Complies with EN1492.
- 7:1 design factor.
- Manufactured in Korea by DSR Corporation.



• Never exceed Manufacturer's Working Load Limit (WLL).

ENDLESS ROUND SLINGS

COLOUR CODED DOUBLE-COVER

Polyester Round Slings Double Skin – Red 5T WLL



Product Code	Length	Approx. Under Load (mm)		Min. Load Edge Ø	Approx. Weight
	m	Thickness	Width	mm	kg per m
09305101D	1.0	12.7	73	32	1.0
09305151D	1.5	12.7	73	32	1.0
09305201D	2.0	12.7	73	32	1.0
09305251D	2.5	12.7	73	32	1.0
09305301D	3.0	12.7	73	32	1.0
09305401D	4.0	12.7	73	32	1.0
09305501D	5.0	12.7	73	32	1.0
09305601D	6.0	12.7	73	32	1.0
09305801D	8.0	12.7	73	32	1.0
09305910D	10.0	12.7	73	32	1.0



The additional cover means added core protection

Polyester Round Slings Double Skin – Brown 6T WLL



Product Code	Length	Approx. Under Load (mm)		Min. Load Edge Ø	Approx. Weight
	m	Thickness	Width	mm	kg per m
09306101D	1.0	14.2	71	34	1.23
09306201D	2.0	14.2	71	34	1.23
09306251D	2.5	14.2	71	34	1.23
09306301D	3.0	14.2	71	34	1.23
09306401D	4.0	14.2	71	34	1.23
09306501D	5.0	14.2	71	34	1.23
09306601D	6.0	14.2	71	34	1.23
09306801D	8.0	14.2	71	34	1.23
09306910D	10.0	14.2	71	34	1.23



The additional cover means added core protection

Colour coded endless round slings with a second cover for increased wear life. Easy to handle and protects surface goods being lifted.

- High tenacity polyester yarn.
- 2 reinforced polyester tube covers.
- Complies with EN1492-2.
- 7:1 design factor.
- Manufactured in Korea by DSR Corporation.



• Never exceed Manufacturer's Working Load Limit (WLL).

ENDLESS ROUND SLINGS

COLOUR CODED DOUBLE-COVER

Polyester Round Slings Double Skin – Blue 8T WLL

DSR

Product Code	Length	Approx. Under Load (mm)		Min. Load Edge Ø	Approx. Weight
	m	Thickness	Width	mm	kg per m
09308101D	1.0	16.0	91	40	1.66
09308201D	2.0	16.0	91	40	1.66
09308301D	3.0	16.0	91	40	1.66
09308401D	4.0	16.0	91	40	1.66
09308501D	5.0	16.0	91	40	1.66
09308601D	6.0	16.0	91	40	1.66
09308801D	8.0	16.0	91	40	1.66
09308910D	10.0	16.0	91	40	1.66



The additional cover means added core protection

Polyester Round Slings Double Skin – Orange 10T WLL

DSR

Product Code	Length	Approx. Under Load (mm)		Min. Load Edge Ø	Approx. Weight
	m	Thickness	Width	mm	kg per m
09310101D	1.0	18.9	118	49	2.1
09310201D	2.0	18.9	118	49	2.1
09310301D	3.0	18.9	118	49	2.1
09310401D	4.0	18.9	118	49	2.1
09310501D	5.0	18.9	118	49	2.1
09310601D	6.0	18.9	118	49	2.1
09310801D	8.0	18.9	118	49	2.1
09310910D	10.0	18.9	118	49	2.1



The additional cover means added core protection

Polyester Round Slings Double Skin – Orange 15T WLL

DSR

Product Code	Length	Approx. Under Load (mm)		Min. Load Edge Ø	Approx. Weight
	m	Thickness	Width	mm	kg per m
09315201D	2.0	25.0	141	53	3.75
09315301D	3.0	25.0	141	53	3.75
09315401D	4.0	25.0	141	53	3.75
09315501D	5.0	25.0	141	53	3.75
09315601D	6.0	25.0	141	53	3.75
09315801D	8.0	25.0	141	53	3.75
09315910D	10.0	25.0	141	53	3.75



The additional cover means added core protection

 • Never exceed Manufacturer's Working Load Limit (WLL).

03
SYNTHETIC LIFTING,
TOWING & RECOVERY

ENDLESS ROUND SLINGS

COLOUR CODED DOUBLE-COVER

Polyester Round Slings Double Skin – Orange 20T WLL

DSR

Product Code	Length	Approx. Under Load (mm)		Min. Load Edge Ø	Approx. Weight
	m	Thickness	Width	mm	kg per m
09320201D	2.0	31.1	139	55	6.10
09320301D	3.0	31.1	139	55	6.10
09320401D	4.0	31.1	139	55	6.10
09320501D	5.0	31.1	139	55	6.10
09320601D	6.0	31.1	139	55	6.10
09320801D	8.0	31.1	139	55	6.10
09320910D	10.0	31.1	139	55	6.10



The additional cover means added core protection

Polyester Round Slings Double Skin – Orange 30T WLL

DSR

Product Code	Length	Approx. Under Load (mm)		Min. Load Edge Ø	Approx. Weight
	m	Thickness	Width	mm	kg per m
09330401D	4.0	38.0	175	89	8.55
09330601D	6.0	38.0	175	89	8.55
09330801D	8.0	38.0	175	89	8.55
09330910D	10.0	38.0	175	89	8.55



The additional cover means added core protection

Polyester Round Slings Double Skin – Orange 50T WLL

DSR

Product Code	Length	Approx. Under Load (mm)		Min. Load Edge Ø	Approx. Weight
	m	Thickness	Width	mm	kg per m
09350401D	4.0	48.0	186	145	14.85
09350601D	6.0	48.0	186	145	14.85
09350801D	8.0	48.0	186	145	14.85
09350910D	10.0	48.0	186	145	14.85



The additional cover means added core protection

Colour coded endless round slings with a second cover for increased wear life. Easy to handle and protects surface goods being lifted.

- High tenacity polyester yarn.
- 2 reinforced polyester tube covers.
- Complies with EN1492-2.
- 7:1 design factor.
- Manufactured in Korea by DSR Corporation.



• Never exceed Manufacturer's Working Load Limit (WLL).

ENDLESS ROUND SLINGS

COLOUR CODED JUMBO

Endless Polyester Round Slings – Orange 80T WLL



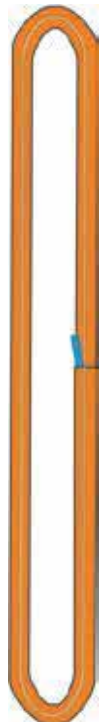
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Product Code	Length	WLL	Approx. Width Under Load	Colour
	m	t	mm	
09380601*	6.0	80.0	180	Orange
09380801*	8.0	80.0	180	Orange
09380910*	10.0	80.0	180	Orange

* Available on indent.

Jumbo 80 Tonne Round Slings with low stretch prevents 'load bounce' when lifting.

- Complies with AS4497.1.
- 7:1 design factor.
- Manufactured in Australia.



SYNTHETIC LIFTING,
TOWING & RECOVERY



• Never exceed Manufacturer's Working Load Limit (WLL).

ENDLESS ROUND SLINGS

COLOUR CODED SUPRA PLUS

SUPRA PLUS HEAVY DUTY ROUND SLINGS

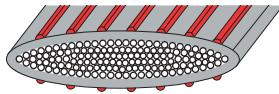


1 Tonne – 8 Tonne WLL.

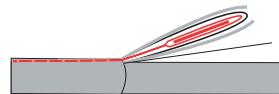
- Up to four times the wear of conventional round slings.
- 40% thicker sleeve for durability.
- Raised ribs for greater wear and higher resistance to cutting.
- 20% narrower than standard slings for easy hook interface.
- Variable load bearing point for more even wear.
- Ideal for choke lifting cylindrical objects without creasing.
- Less creasing means less wear.
- Certified to AS4497.1.
- WLL data woven into sleeve for unmistakable capacity identification.
- High strength to weight ratio.
- Webbing reinforced encapsulated compliance labels.



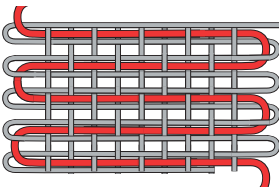
More compact cross-section.



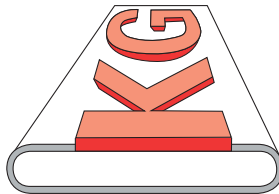
Improved ribbed reinforcement.



Protected quality label.



Interwoven textile wire.



Superior interwoven load-bearing capacity indication.



SP1000 – Violet 1.0T WLL



SP5000 – Red 5.0T WLL



SP2000 – Green 2.0T WLL



SP6000 – Brown 6.0T WLL



SP3000 – Yellow 3.0T WLL



SP8000 – Blue 8.0T WLL



SP4000 – Grey 4.0T WLL



Manufactured in Australia to your requirements. Contact your local Cookes branch, Freephone 0508 274 366 or email customerservices@cookes.co.nz for pricing and delivery information.

ENDLESS ROUND SLINGS

COLOUR CODED MAGNUM PLUS

MAGNUM PLUS HEAVY DUTY ROUND SLINGS

10 Tonne – 150 Tonne WLL.



- 40% thicker sleeve for durability.
- Raised ribs for greater wear and higher resistance to cutting..
- 20% narrower than standard slings for easy hook interface.
- Variable load bearing point for more even wear.
- Ideal for choke lifting cylindrical objects without creasing.
- Less creasing means less wear.
- WLL data woven into sleeve for unmistakable capacity information.
- High strength to weight ratio.
- Webbing reinforced encapsulated compliance labels.

Magnum Plus Round Sling Technical Data

SpanSet Product Code	Rated WLL	Thick Under Load	Width Under Load	Min Attachment Hardware Ø (mm)	Min Load Edge Ø (mm)	Weight
	kg	mm (approx.)	mm (approx.)			kg per m
MAG10000*	10,000	19	90	19	57	2.2
MAG15000*	15,000	21	115	21	63	3.2
MAG20000*	20,000	23	135	23	69	4.4
MAG25000*	25,000	24	150	24	72	5.6
MAG30000*	30,000	27	170	27	81	7.4
MAG40000*	40,000	37	190	37	111	10.0
MAG50000*	50,000	65	190	65	195	13.0
MAG60000*	60,000	75	220	75	225	14.8
MAG80000*	80,000	86	230	86	258	20.0
MAG100000*	100,000	96	260	96	288	26.0
MAG125000*	125,000	120	325	120	360	33.8
MAG150000*	150,000	144	390	144	432	41.6

* Available on indent. Minimum Length = 1.5 Metres; Maximum Length = 60 Metres; Colour = Orange.

- Manufactured in Australia.



• Never exceed Manufacturer's Working Load Limit (WLL).

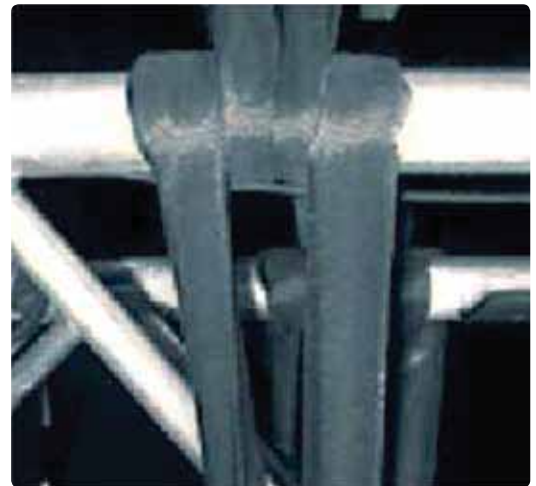
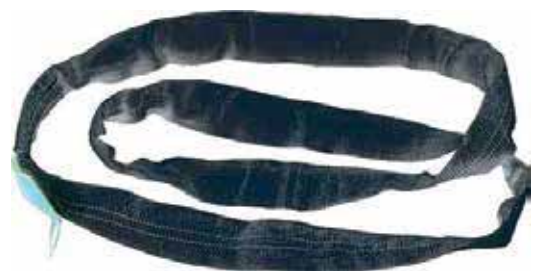
ENDLESS ROUND SLINGS

HEAT RESISTANT STAGE SLINGS

SpanSet Steel-Tex High Heat Resistant Stage Slings

SpanSet[®]

Product Code	Length	WLL	Weight
	m	t	kg
09295090	0.9	2.4	0.85
09295180	1.8	2.4	1.60
09295270	2.7	2.4	2.50



SpanSet Steel-Tex lightweight round slings are ideal for easy and inconspicuous suspension of stage, sound and lighting equipment.

- Black sleeve material helps the sling blend into its surroundings.
- The load bearing member of Steel-Tex round slings consists of galvanised steel aircraft cable wound in an endless configuration.
- The steel wire core is encased in a heavy black polyester cover.
- Fitted with a unique inspection window with a velcro closure which is located beside the reinforced identification tag.
- The wide inspection window allows for easy inspection of the core for broken wires or corrosion.
- Manufactured in the USA.



• Never exceed Manufacturer's Working Load Limit (WLL).

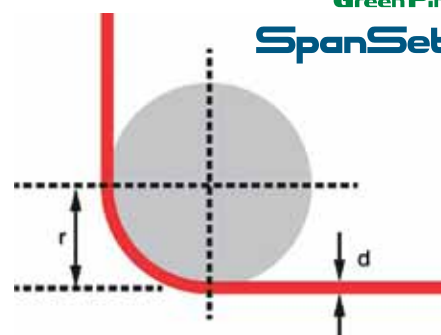
ENDLESS ROUND SLINGS

SPECIAL REPORT – SHACKLES WITH ROUND SLINGS



Background

Round slings made out of textile fibres are frequently used in combination with shackles with the same WLL in everyday lifting applications. But in many cases the bend radius of the shackle is a sharp edge for the sling as defined by the rule of thumb (bend radius of the bearing surface of a sling has to be greater than the thickness of the sling). As there are no standards or regulations for assessing these situations, Van Beest tested the breaking strength of certain combinations of round slings and shackles together with SpanSet GmbH & Co. KG and the DGUV (German Social Accident Insurance – Metal and Surface Treatment Technical Committee).



Definition of a sharp edge:
radius edge (r) < thickness of lifting gear (d)

Selecting products for the test

The spectrum of tested lifting capacities for the combinations of round slings and shackles covered the most common increments of the load capacities ranging from 0.5t up to 150t. Van Beest tested round slings made of classic polyester fibres as well as round slings of high performance fibres. The latter is of particular interest since the properties of the fibre material used in these slings differs from those of conventional polyester fibres.

Standard Green Pin® shackles were used in the tests. These shackles have a uniform high quality, produced by upset forging from round bars. This makes them very different from standard imported drop forged shackles. Green Pin® Standard shackles are ideal for use together with round slings.



Test procedure

A test plan was drawn up in cooperation with the DGUV that took into account the usual combination of parts with the same WLL.

5-times the nominal carrying capacity was defined as the target strength to be achieved for round slings with a nominal lifting capacity of below 8 t and 4 times the nominal carrying capacity for slings with a nominal lifting capacity of 8t or more. The slings were positioned in the bow of the shackles in each case.

The strength tests were then carried out on calibrated 250t and 600t tensile testing machines. The test was deemed to have been passed successfully as long as there was no sudden drop in force or a complete breakage of the sling. Damage to the sling sleeve or deformations of the shackle were acceptable in view of the excess load.

Result

After loading and removal from the machine, the test specimens were examined and the findings recorded in a test report.

In addition to the main criterion i.e. whether the combinations of round slings and shackles had withstood the applied test force, it was also ascertained whether the individual components had been easy to separate from one another, and whether pressure points had led to any damage to the round slings due to contact pressure at the shackle radius.



All of the various combinations that were tested achieved the respective target strength. The combinations tested are detailed on the following page.

To view a video of these tests please go to YouTube and search for 'Green Pin Shackles with SpanSet Round Slings' or use this link:

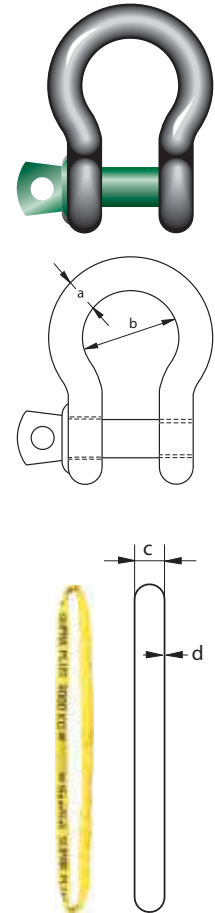
<https://www.youtube.com/watch?v=lvBLk1jMGJI>

ENDLESS ROUND SLINGS

SPECIAL REPORT – SHACKLES WITH ROUND SLINGS

Test Combinations (Polyester Fibre Slings)

Green Pin® Shackle Type	WLL (t)		Dimensions (mm)				Proof Load kN
	Shackle	Round Sling	a	b	c	d	
G-4161, G-4163	0.5	0.5	7	20	36	5	25
G-4161, G-4163	1.0	1.0	10	26	36	6	49
G-4161, G-4163	2.0	2.0	13	32	37	8	99
G-4161, G-4163	3.25	3.0	16	43	44	10	148
G-4161, G-4163	4.75	4.0	19	51	52	12	197
G-4161, G-4163	6.5	5.0	22	58	59	13	246
G-4161, G-4163	6.5	6.0	22	58	65	14	295
G-4161, G-4163	8.5	8.0	25	68	68	17	393
G-4161, G-4163	12.0	10.0	32	83	90	19	393
G-4161, G-4163	17.0	15.0	38	99	115	21	589
G-4161, G-4163	25.0	20.0	45	126	135	23	785
G-4161, G-4163	35.0	30.0	50	138	170	27	1,178
G-4161, G-4163	42.5	40.0	57	160	190	37	1,570
G-4163	85.0	60.0	75	190	190	75	2,355
G-4163	85.0	80.0	75	190	230	86	3,140
P-6036	120.0	100.0	95	238	260	96	3,924



Test Combinations (High Performance Fibre Slings)

Green Pin® Shackle Type	WLL (t)		Dimensions (mm)				Proof Load kN
	Shackle	Round Sling	a	b	c	d	
G-4161, G-4163	12.0	10.0	32	83	55	12	393
G-4161, G-4163	25.0	20.0	45	126	80	15	785
G-4161, G-4163	35.0	30.0	50	138	90	20	1,178
G-4161, G-4163	42.5	40.0	57	160	110	24	1,570
G-4161, G-4163	55.0	50.0	65	180	117	23	1,962
G-4163	85.0	60.0	75	190	150	30	2,355
G-4163	85.0	80.0	75	190	200	40	3,140
P-6036	120.0	100.0	95	238	233	47	3,924
P-6036	150.0	125.0	105	275	267	53	4,905
P-6036	150.0	150.0	105	275	308	62	5,886

Note: Tests undertaken using SpanSet Magnum-X round slings. WLL of the combination of Green Pin® shackle and round sling is limited by the WLL of the round sling for all combinations.



• Never exceed Manufacturer's Working Load Limit (WLL).

CARE & USE OF ROUND SLINGS

CARE & USE OF ROUND SLINGS

Always:

- Plan the lift, establish the weight of the load and prepare the landing area ensuring that it will take the weight.
- Check slings and equipment are free of damage, use slings/slinging methods suitable for the load and protect slings from sharp edges and corners.
- Attach the sling securely to the load.
- Ensure the load is balanced and will not tilt or fall.
- Keep all body parts clear when tensioning slings and when landing loads.
- Ensure that the load is free to be lifted.
- Make a trial lift and trial lower.

Never:

- Use damaged slings or accessories.
- Twist, knot or tie slings.
- Hammer slings into position.
- Overload slings due to the weight of the load or the mode of use.
- Trap slings when landing the load.
- Drag slings over floors etc or attempt to pull trapped slings from under loads.
- Allow personnel to ride on loads.
- Use a sling if label is missing.

When you select & specify roundslings consider the following:

- The Working Load Limit (WLL) and type of load (correct mode factor: see WLL table on page 134).
- The method of use, together with the weight, size and shape of the load and the working environment.
- The selected sling must be strong enough and of correct length for the actual mode of use. The connection of the sling to load and lifting equipment shall be evaluated. Consideration should be given to end fittings and lifting equipment, which shall be compatible with the round sling. When connecting a round sling to a lifting device/hook, the shape of the hook must be of a type that allows correct contact with the sling.
- Plan the lifting operation before action. Slings, lifting and lowering: Good slinging practice shall be followed.
- Round slings shall be located and connected in proper positions in a safe and correct way. The sling shall be protected from sharp and uneven edges, friction and other damage, from both the load and lifting device. Protection sleeves and other types of protection shall be used when required, and be positioned correctly. Slings shall be attached in a way that ensures the load will be carried by their full width. Slings shall never be used when twisted or knotted.

Lifting in good balance:

Plan the lifting operation before commencing. Always ensure that the hook is located directly above the centre of gravity of the load. Slings shall be selected/used in a way to ensure that this position can be maintained throughout the complete lifting & lowering process. Slings must not be used in a manner that may cause the load to tilt or slip. Remember that endless slings can slide in the hook if the load is not in balance.

Round Sling colour coding provides visual assistance in selecting a sling with correct WLL:



WLL t	Colour
1.0	Violet
2.0	Green
3.0	Yellow



WLL t	Colour
4.0	Grey
5.0	Red
6.0	Brown



WLL t	Colour
8.0	Blue
10.0	Orange
>10.0	Orange



• Cookes recommend the use of Kevlar abrasion resistant sleeving to protect round slings from damage – refer Synthetic Sling Protection starting page 157 for protective sleeving options..

CARE & USE OF ROUND SLINGS

CARE & USE OF ROUND SLINGS

Inspection before first use:

- Check that WLL and other characteristics of the sling correspond with the lifting application.
- Check that manufacturer's certificate is available, showing correct traceability between sling and certificate (Material number and batch/ id. number of the sling, shall be covered by the certificate).
- Inspect the sling for visible defects and ensure that labels and marking are in good condition. If any doubts exist regarding the condition of the sling, remove it from service for examination by a competent person.



In-service inspections:

- Inspect the sling for visible defects and ensure that all labels and markings are in good condition. If any doubts exist, remove the sling from service for examination by a competent person.
- Signs of defects or damage can be:
 - Damage at cover (loadbearing core yarn visible).
 - Damage at seam.
 - Flaking of the surface which may be rubbed off (chemical attack).
 - Glazed or melted surface (heat or friction damage).
 - Deformed or otherwise damaged fittings.

Storage:

After use, slings must be inspected. Damaged slings must be replaced, and undamaged slings must be stored in a dry place, protected from harmful environments (e.g. chemicals and strong UV radiation). Wet slings must be carefully dried, before storage.

Periodic inspection:

Periods for inspection should be determined by both the working environment and frequency of sling use. Records from examination shall be maintained, with full identity of the sling. If any doubts exist, the sling must be removed from service and examined by a competent person.



- Cookes recommend use of abrasion-resistant or cut-resistant sleeving with round slings – refer Synthetic Sling Protection starting page 157 for protective sleeving options.



- Never exceed manufacturer's Working Load Limit (WLL).



- Never attempt to repair a damaged round sling.
- Always use protective sleeves or pads where any possibility of abrasion or cutting exists.

SYNTHETIC SLING PROTECTION

HIGH ABRASION-RESISTANT SLEEVES

KEVLAR SLEEVES

Not all abrasion resistant sleeving is the same. The likes of canvas, polyester, layflat hose or leather sleeving will provide moderate resistance only to abrasion.

Now available in New Zealand, exclusively from Cookes high abrasion resistant Kevlar sleeves with strong Velcro® closure tape. With a superior abrasion resistant outer cover manufactured in the USA and a yellow kevlar inner that aids inspection, these sleeves offer the ultimate flexible abrasion protection for your synthetic slings. Quick and easy to fit and remove for correct positioning on the sling and faster rigging time.

Kevlar Sleeves

Product Code	Suit Flat Sling	Suit Round Sling	Sleeve length
	width (mm)	WLL	m
09662075A	50	1T - 3T	0.5
09662075B	50	1T - 3T	1.0
09662100A	60-75	4T - 5T	0.5
09662100B	60-75	4T - 5T	1.0
09662100C	60-75	4T - 5T	2.0
09662150A	90-120	6T - 8T	0.5
09662150B	90-120	6T - 8T	1.0
09662150C	90-120	6T - 8T	2.0
09662200A	140-150	10T - 15T	0.5
09662200B	140-150	10T - 15T	1.0
09662200C	140-150	10T - 15T	2.0
09662240A	180-200	20T - 25T	0.5
09662240B	180-200	20T - 25T	1.0
09662300A	240	30T - 35T	0.5
09662300B	240	30T - 35T	1.0
09662350A	300	40T	0.5
09662350B	300	40T	1.0



- High abrasion resistant easy-fit Kevlar sleeves.
- Suitable for new or existing flat slings or round slings.
- Also suitable for use on fibre rope slings, wire rope slings, chain slings etc.
- Both sides of sleeve able to be used.
- Other lengths available on indent.
- Manufactured in Australia using American developed sling protection technology.



• Kevlar sleeves are extremely flexible and when fitted still allow flat or round slings to be easily coiled.



- A qualified and trained person must select materials and methods that adequately protect synthetic slings from damage.
- It is recommended a trial lift to a low height be undertaken first so slings and wear-sleeves can be inspected for damage.
- Never ignore damage to sleeving or pads during sling inspections.

SYNTHETIC SLING PROTECTION

03

SYNTHETIC LIFTING,
TOWING & RECOVERY

MODERATE ABRASION-RESISTANT SLEEVES



Lay Flat Hose

Product Code	Nominal Size	Width Measured Flat
	mm	mm
09661051	51	85
09661065	65	108
09661075	76	122
09661100	102	162
09661125	127	200
09661152	152	242

- Available in various widths as above.
- Best fitted at time of sling manufacture.



Kooper Sleevings

Lightweight tubular sleeving. For fitting at time of sling manufacture. Fitted as standard to the eyes of Cookes locally manufactured flat slings.



Heavy Leather

Hide leather cut and sewn to order in-house. Best fitted at time of manufacture. Note: May require multiple pieces for longer length slings.



- While these sleeves will provide moderate abrasion resistance they will offer no protection against sharp edges. Recommended where the main requirement is to protect sling fibres from dirt ingress.



- A qualified and trained person must select materials and methods that adequately protect synthetic slings from damage.
- It is recommended a trial lift to a low height be undertaken first so slings and wear-sleeves can be inspected for damage.
- Never ignore damage to sleeving or pads during sling inspections.



- Where a higher level of abrasion resistance is required for safety, choose only Kevlar abrasion resistant sleeves.

SYNTHETIC SLING PROTECTION

CUT-RESISTANT PADS & SLEEVES



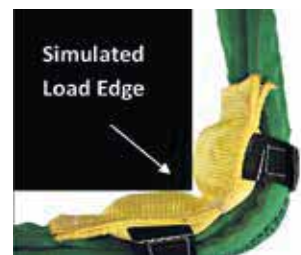
CORNERMAX® PADS – ENGINEERED CUT PROTECTION

Exposure of a sling to load edges or corners requires a pad that is not susceptible to cutting because of toughness or zero contact. The CornerMax® Pad forms a tunnel between the load edge and the pad. This geometric separation is essential in protecting the pad itself from contacting the load edge, which provides maximum protection to the sling.

Cookes is New Zealand's authorised distributor of CornerMax™ cut-resistant sling pads.

Product Code	Suit flat sling width	Pad length
	mm	mm
09662501	Up to 75	275
09662503	90-100	275
09662505	110-120	275
09662507	140-150	275
09662509	180-200	275
09662511	240-250	275
09662513	300	275

- Engineered cut protection designed for use on loads that have a 90° straight edge.
- Rated Working Load Limit of 4,464kg per cm of sling width.
- Attached with hook and loop tape for easy adjustment.
- The ultimate edge protection, allowing synthetic slings to be used for lifting steel or concrete beams.
- Available in 275mm lengths as per chart above.



CornerMax™ Pad For 90° Load Edges.

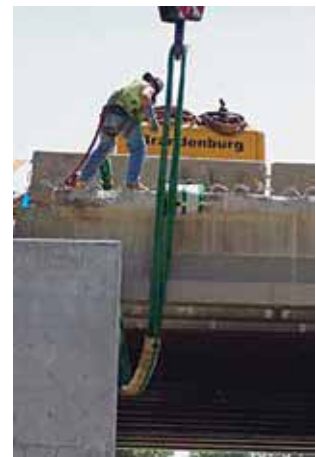
CORNERMAX® SLEEVES – ENGINEERED CUT PROTECTION

CornerMax™ sleeves are designed for all other edges – curved, rough or irregular. They are perfect as protection around I-beams.

CornerMax™ sleeves are made of Dyneema® fibre that is specially woven to provide cut protection for a variety of edges and surfaces.

CornerMax™ sleeves allow synthetic slings to maintain full flexibility.

- CornerMax™ Sleeves imported to order from the USA.



- Both products above allow synthetic slings to meet their full WLL with no damage to the sling protectors.
- A qualified and trained person must select materials and methods that adequately protect synthetic slings from damage.
- It is recommended a trial lift to a low height be undertaken first so slings and wear-sleeves can be inspected for damage.
- Never ignore damage to sleeving or pads during sling inspections.

SYNTHETIC SLING PROTECTION

CUT-RESISTANT PADS & SLEEVES



Unrivalled Cut Protection with CornerMax®

CornerMax® Sleeves

The CornerMax® Sleeve is the ideal solution to protect synthetic slings from cutting when it is not practical to use a CornerMax® Pad, whether due to the curvature of the load edge or repetitive used such as unloading steel coils.



CornerMax® Sleeves



CornerMax® Sleeves

CornerMax® Sleeves are imported to required width and length from the USA.



672 tonne super yacht lift using TwinPath® Slings and CornerMax® Sleeving.

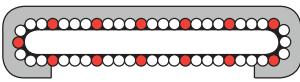
SYNTHETIC SLING PROTECTION

CUT-RESISTANT PADS & SLEEVES

Secutex® Sleeves

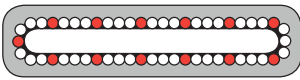
Secutex® has been perfectly formulated with the optimum balance between flexibility, elasticity and toughness to protect synthetic slings from sharp edges and abrasion. The sleeve grips the edge of the load, allowing the sling to move within the Secutex® to self centre and adjust to the centre of gravity. This feature also allows the rotation of sharp objects, such as steel coils, without damage to the sling or products.

Secutex® Sleeves are imported to order from Australia and are available in single-sided, double-sided or clip-on options to suit your requirements.



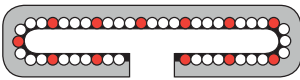
Single Sided Secutex®

- Encapsulates the sling with a hard wearing, flexible cut resistant surface on one side.
- Designed for fitting during sling manufacture.



Double Sided Secutex®

- Fully encapsulates the sling with a hard wearing, flexible cut resistant surface on both sides.
- Designed for fitting during sling manufacture.



Clip-On Secutex®

- Clips on to the sling with a hard wearing, flexible cut resistant surface on one side.
- Easy to fit to existing slings.



- The sling must be firmly positioned against the load edge and the sling must be free to slide inside the Secutex® Sleeve.
- Start lift slowly to enable sleeve and sling to position correctly.
- A qualified and trained person must select materials and methods that adequately protect synthetic slings from damage.
- It is recommended a trial lift to a low height be undertaken first so slings and wear-sleeves can be inspected for damage.
- Never ignore damage to sleeving or pads during sling inspections.

SYNTHETIC SLING PROTECTION

03

SYNTHETIC LIFTING,
TOWING & RECOVERY

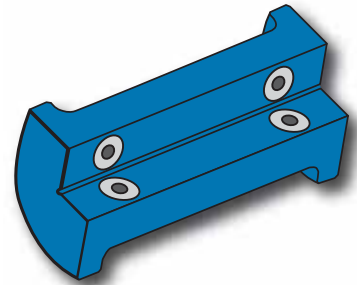
MAGNETIC SLING PROTECTORS

These American manufactured protectors attach with strong magnets to the steel corner and prevent the sling from contacting the load. Manufactured of solid nylon, these magnetic sling protectors are only 1/7th the weight of steel. No tools are needed with the magnets, allowing quick and easy attachment and removal.

Magnetic Sling Protectors

Type	Product Code	Length	Approximate Weight
		mm	kg
Regular Sling Protector	09662601*	152	0.60
	09662602*	230	0.75
	09662603*	305	0.95
	09662604*	450	1.40
Heavy Duty Sling Protector	09662701*	152	2.30
	09662702*	230	3.10
	09662703*	305	4.00
	09662704*	450	5.90
Groove Sling Protector	09662801*	230	1.25
	09662802*	305	1.70
	09662803*	450	2.50
Coil Top Sling Protector	09662901*	152	2.00
Centre Sling Protector	09662902*	152	2.00
Half Round Bar Sling Protector	09662903*	305	1.45

* Available on indent.



- Do not use at temperatures over 104°C or below -40°C.
- A qualified and trained person must select materials and methods that adequately protect synthetic slings from damage.
- It is recommended a trial lift to a low height be undertaken first so slings and wear-sleeves can be inspected for damage.
- Never ignore damage to magnetic sling protectors during sling inspections.

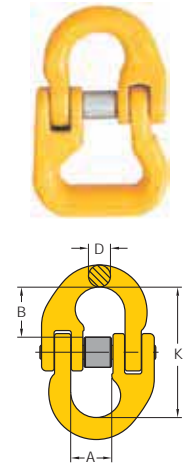
SYNTHETIC SLING CONNECTORS

SYNTHETIC SLING CONNECTORS

Synthetic Sling Connectors



Product Code	Yoke Item No.	WLL	Dimensions (mm)					N. W.
		t	A	B	D	K	W	kg
02477007	8-016-07	2.00	18	22	9	62	40	0.3
02477010	8-016-10	3.15	25	26	11	78	47	0.6
02477013	8-016-13	5.30	30	35	16	95	53	1.1
02477016	8-016-16	8.00	36	38	19	115	67	1.9
02477019	8-016-20	12.50	42	46	22	132	80	3.2
02477022	8-016-22	15.00	49	59	24	187	125	7.5
02477026	8-016-26	21.20	55	62	30	209	150	12.0



- Allows a variety of connections to round or flat synthetic slings.
- Designed to eliminate bunching.
- No sharp edges to cut or damage soft slings.
- Allows connection to any Grade 80 eye type components of equal Working Load Limit.
- Design factor 4:1 proof tested and certified.
- Tested according to EN1677.
- Manufactured in Taiwan.



- Never exceed Manufacturer's Working Load Limit (WLL).
- Correctly match connector to sling/components Working Load Limit.

HIGH PERFORMANCE SLINGS

HIGH PERFORMANCE TWIN-PATH®



High Performance Twin-Path® Round Slings

Cookes is proud to distribute the world's strongest slings; high performance Twin-Path® incorporating K-SPEC® core yarn. Incorporating UV protected, abrasion resistant heavy duty covering, Twin-Path® slings are manufactured in Australia under license to Slingmax in the USA.

At half the weight of a conventional round sling and approximately 10% of the weight of a steel wire rope sling, Twin-Path® slings with overload indicators and optional fibre-optics core-inspectors are the only choice where high strength, light-weight, safety and performance are important.



03

SYNTHETIC LIFTING,
TOWING & RECOVERY

HIGH PERFORMANCE SLINGS

HIGH PERFORMANCE TWIN-PATH®



03

SYNTHETIC LIFTING,
TOWING & RECOVERY

Twin-Path® Overview

Twin-Path® Extra Slings with Covermax® and K-Spec® core yarn. Slingmax Twin-Path Slings are the safest, lightweight slings for heavy lifting applications up to 600 tonnes.

The Covermax® cover has superior abrasion resistance to conventional polyester round slings.

Twin-Path® Extra Slings have only 1% stretch at their Working Load Limit (WLL). This is the lightest and strongest sling on the market today with K-Spec® – the longest lashing load bearing core yarn, backed by independent testing.



Safety Features

- Twin-Path Patent Design: Using two independent paths each capable of carrying the rated Working Load Limit (WLL).
- Low Stretch: With 1% elongation at Working Load Limit (WLL).
- Can be safely used in chemical environments.
- Check Fast®: Immediate and high visibility indication of extreme overload before the sling fails.
- Optional Optic Fibres: The optic fibre system can alert you to heat exposure, cutting and chemical damage of the core fibre just by shining a flashlight into one end of the optic fibre (available as an option on slings up to 100T WLL).

Handling Features

- Weight Advantage: 80% lighter than wire rope and chain slings, 50% lighter than polyester slings.
- Control of Sling: Actual rigging becomes quick and more manageable due to the low weight.
- Marine Application: Does not absorb moisture and is naturally buoyant, making it ideal for all off-shore and salvage work.
- Storage Retrieval and Salvage: Easily rolled up and shelved after use. Transportable and can easily be tossed in the back of a car or van.

Cost Efficiencies

Wear Resistant Covermax Outer Cover: The fabric is four times more abrasive resistant than common Nylon or Polyester, increasing the sling life.

Repairable: Twin-Path® slings can be repaired by the Australian manufacturer using a special procedure.

All slings are retested after the repairs are completed.

Reduce Rigging Times: Actual rigging can be reduced by as much as 80% with less exposure to possible accidents.







• Never exceed Manufacturer's Working Load Limit (WLL).

HIGH PERFORMANCE SLINGS

HIGH PERFORMANCE TWIN-PATH®



Twin-Path® Working Load Limits in Tonnes (5T to 100T)

Beaver Item Number	Vertical	Choke	Basket		Tube Width mm	Approx. Weight per Metre kg
						
	Single	Single	Vertical	60°		
	t	t	t	t		
TPXC5*	5	4	10	8.5	75	0.57
TPXC10*	10	8	20	17.0	100	1.14
TPXC15*	15	12	30	25.5	125	1.70
TPXC20*	20	16	40	34.0	125	2.27
TPXC25*	25	20	50	42.5	150	2.84
TPXC30*	30	24	60	51.0	150	3.41
TPXC35*	35	28	70	59.5	200	3.98
TPXC40*	40	32	80	68.0	200	4.55
TPXC45*	45	36	90	76.5	200	5.11
TPXC50*	50	40	100	85.0	200	5.68
TPXC55*	55	44	110	93.5	250	6.25
TPXC60*	60	48	120	102.0	250	6.82
TPXC65*	65	52	130	110.5	250	7.39
TPXC70*	70	56	140	119.0	300	7.96
TPXC75*	75	60	150	127.5	300	8.52
TPXC80*	80	64	160	136.0	300	9.09
TPXC85*	85	68	170	144.5	300	9.66
TPXC90*	90	72	180	153.0	300	10.23
TPXC95*	95	76	190	161.5	300	10.80
TPXC100*	100	80	200	170.0	300	11.37

* Available on indent.

Constructed with two independent paths, each capable of carrying the rated Working Load Limit (WLL).

- Very low stretch – 1% only at Working Load Limit.
- 50% lighter than polyester round slings of same WLL.
- Abrasion resistant cover.
- No minimum bend radius when matched with commercially available hardware of same WLL.
- Highly resistant to chemicals, heat and moisture.
- Complies with EN1492-2.
- Design factor 7:1.
- Test certificates supplied with all slings.
- Manufactured in Australia to order.



• Twin-Path® slings can be supplied with a revised design factor for heavy towing applications.







• Never exceed Manufacturer's Working Load Limit (WLL).

HIGH PERFORMANCE SLINGS

HIGH PERFORMANCE TWIN-PATH®



Twin-Path® Working Load Limits in Tonnes (100T to 200T)

Beaver Item Number	Vertical	Choke	Basket		Tube Width mm	Approx. Weight per Metre kg
						
	Single	Single	Vertical	60°		
	t	t	t	t		
TPXC100*	100	80	200	170	250 & 100	11.37
TPXC110*	110	88	220	187	250 & 100	12.50
TPXC120*	120	96	240	204	250 & 100	13.64
TPXC130*	130	104	260	221	250 & 100	14.77
TPXC140*	140	112	280	238	250 & 150	15.91
TPXC150*	150	120	300	255	250 & 150	25.27
TPXC160*	160	128	320	272	250 & 150	27.28
TPXC170*	170	136	340	289	250 & 150	28.98
TPXC180*	180	144	360	306	250 & 200	30.69
TPXC190*	190	152	380	323	250 & 200	32.39
TPXC200*	200	160	400	340	250 & 200	34.10

* Available on indent.

Constructed with two independent paths, each capable of carrying the rated Working Load Limit (WLL).

- Very low stretch – 1% only at Working Load Limit.
- 50% lighter than polyester round slings of same WLL.
- Abrasion resistant cover.
- No minimum bend radius when matched with commercially available hardware of same WLL.
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- Complies with EN1492-2.
- Design factor 7:1.
- Test certificates supplied with all slings.
- Manufactured in Australia to order.



• Twin-Path® slings can be supplied with a revised design factor for heavy towing applications.



• Never exceed Manufacturer's Working Load Limit (WLL).

HIGH PERFORMANCE SLINGS

TWIN-PATH® INSPECTION



Check-Fast® Inspection

- US Patent #7,661,737 – CA #2,547,632 – EP #1899255.

The Check-Fast® System is designed to improve job-site safety. The Check-Fast® External Warning Indicator (EWI) provides for a pass/fail inspection of the internal load bearing core yarn.

Damage to the core yarn from ultraviolet (UV) light degradation, fibre on fibre abrasion, fatigue, and severe overload can be detected. If the sling is mistakenly overloaded beyond its Working Load Limit, the EWI is designed to disappear before the sling fails.

The sling inspector now has a GO/NO-GO inspection device rather than relying on a subjective hand-over-hand inspection to make an educated guess if the load bearing core yarns are in good condition.



Optional Fibre Optic Inspection for Twin-Path® Slings

- Twin-Path® slings up to 100T have an optional Fibre Optic inspection system.
- The condition of the internal core yarn can be inspected just by checking the continuity of the fibre optic cable.
- If crushing or cutting, heat or chemical damage, has occurred then the damage to the fibre optic cable will destroy its ability to transmit light from one end to the other giving the inspector a reason to remove the sling from service and send it in for repair evaluation.
- The fibre optic cable will conduct light using natural, overhead or flashlight sources.
- The inspector simply covers and removes his finger from one end and watches the other end for blinking which indicates that the sling is OK to use for another lift.

500 tonne steel bridge lift using Twin-Path® slings.



HIGH PERFORMANCE SLINGS

TWIN-PATH® SLINGS PERFORMING



03

SYNTHETIC LIFTING,
TOWING & RECOVERY



Twin-Path® slings lift a 275 tonne floodgate.



Only Twin-Path® slings were trusted to lift the spire for the World Trade Centre.

HIGH PERFORMANCE SLINGS

SPARKEATER® FIRE RESISTANT



Sparkeater® Fire Resistant Twin-Path® Soft Sling

The Sparkeater® Fire Resistant Soft Sling is designed for steel workshops, welders, boiler makers etc. and is perfect for construction sites that need to weld in steel while held by a crane. It has the same advantages as normal Twin-Path® – ie: Weight saving and ease of handling, ability to reduce the rigging gear tare weight.

The Sparkeater® sling is ideal for hot environments up to 150°C, enabling a lift without marring the surface of the lifted piece. Also, for stage rigging giving protection from fire, heat, sparks and pyrotechnics. Black is available for theatre or yellow for all other applications.

When lifting heated steel, wire rope or chain slings might scratch the load causing expensive rework. Fire exposure testing was performed by London Scientific and the product was identified as being as good as wire rope or chain for use in off-shore applications in the oil industry.

- All Sparkeater® Slings are yellow to distinguish them from other types and make them identifiable on site.
- Sparkeater® comes with EWI (External Warning Indicators) same as the standard Twin-Path® slings.
- These slings are manufactured to order in Australia under licence from an aramid high performance core yarn.



03

SYNTHETIC LIFTING,
TOWING & RECOVERY

HIGH PERFORMANCE SLINGS

CARE & USE OF TWIN-PATH® SLINGS



03

SYNTHETIC LIFTING,
TOWING & RECOVERY

Safe Use of Twin-Path® Slings

- Load both paths of Twin-Path® slings equally. Do not side load. Do not load the edge of the sling.
- Determine the weight of the load. The weight of the load shall be within the Working Load Limit (WLL) of the sling.
- Select a sling having suitable characteristics for the type of load, hitch and environment.
- Slings shall not be loaded in excess of the Working Load Limit (WLL). Consideration shall be given to angle of lift which may affect the lifting capacity.
- Slings used in a choker shall not be forced to tighten around the load by pounding with hammers or other objects. Choker hitches are the least effective way to use a sling based on capacity. Two chokers should be used to balance the load. One choker in the centre of the load may create an unbalanced situation which could lead to an accident.
- Slings used in a basket hitch must have the load balanced to prevent slippage and accidents.
- Slings used with fittings shall be compatible with the fittings used.
- Slings in contact with edges, corners, protrusions, or abrasive surfaces shall be protected with a material of sufficient strength, thickness, and construction to prevent damage.
- Slings shall not be dragged on the floor or drawn across other surfaces which may damage the sling.
- Slings shall not be twisted or tied in knots to shorten.
- Slings can be damaged by resting loads on them or by pulling slings from under a load.
- Slings which are damaged shall not be used.
- Personnel shall stand clear of suspended loads.
- Avoid shock loading.

Inspection of Twin-Path® Slings

- If your sling is equipped with Check-Fast® and the EWI is not visible, remove the sling from service. Send to Cookes for repair evaluation.
- If Fibre-Optic inspection is installed in the sling, inspect by allowing light to enter the fibre optics. If the fibre optics do not transmit light from end to end, remove the sling from service and contact Cookes for repair evaluation.
- Slings shall be inspected for evidence of cutting or tearing of the outer cover. Slings with cuts shall be removed from service and sent back to Cookes for repair evaluation. Damage to the cover may indicate core damage.
- Inspect slings for evidence of heat damage. Sparkeater® slings shall not be exposed to temperatures over 149°C. K-Spec® slings shall not be exposed to temperatures above 82°C. Cold temperature exposure down to minus 40°C does not affect the strength of the products.
- If any part of the sling shows evidence of chemical degradation or damage, remove the sling from service. Return the sling to Cookes for repair evaluation.
- Slings using aluminium fittings shall not be used where fumes, vapours, sprays or mists of alkalis or acids are present.
- Twin-Path® lifting slings and any fittings attached shall be subject to frequent and regular inspections. In addition to the initial inspection by a competent person and frequent written inspections, the slings shall be visually inspected before each use.
- Written inspections shall be performed as required and documents of such inspection by a competent person shall be kept on file in the safety department of the plant or site where used. Inspections may be done more often based on frequency of use, severity of conditions or experience of past service life.
- Slings shall be examined throughout their length for abrasion, cuts, heat damage, fitting distortion or damage, tag legibility, and if any doubts are held by the inspector, the sling shall be removed from service. If deterioration is found, the sling must be removed from service.
- Slings removed from service that are not repairable shall be destroyed and rendered completely unfit for future use.
- Abrasion, heat damage or cuts to the cover may indicate a loss of strength to the core yarns, and these slings shall not be used until evaluated by Cookes.

HEAVY TOWING & RECOVERY

03

SYNTHETIC LIFTING,
TOWING & RECOVERY

WEBBING TOWING & RECOVERY STRAPS

THE DIFFERENCE BETWEEN A TOW STRAP AND A RECOVERY STRAP

Tow Straps

- Cookes tow straps are manufactured from high tenacity polyester webbing.
- Designed to have less elongation than a nylon strap while still providing sufficient elasticity to help absorb the impact of any sudden loading.
- While many tow straps on the market today have fitted hooks, Cookes recommends against this practice. Hooks can become deadly missiles should a strap break under load.



What Size Tow Strap Should I Choose?

Cookes recommend that a 1.5:1 factor is applied when choosing a tow strap. While this may be more than some believe to be necessary, it takes into account unintentional shock loading. On this basis, to tow a 6,000Kg vehicle choose a 9,000Kg breaking load tow strap. It is much better to be safe than sorry!



Recovery Straps

- Cookes recovery straps are manufactured from high tenacity nylon webbing to provide both strength and high elongation.
- The elongation aids recovery of bogged vehicles through the build-up of stored energy in the strap. As the strap elongates, it transfers the stored energy to the stranded vehicle, aiding its recovery.
- **Recovery straps do not have fitted hooks. Straps with fitted hooks should never be used for vehicle recovery.**

What Size Recovery Strap Should I Choose?

Cookes recommend that a 2:1 factor be applied when choosing a recovery strap to take into account any unintentional shock loading. So to recover a vehicle weighting 9,000Kg choose a recovery strap with a minimum breaking load of 18,000Kg.

The chart below will assist your understanding of how each Cookes nylon heavy vehicle recovery strap, when used correctly, can handle the recovery of vehicles in various degrees of traction loss. Where higher breaking loads are required refer the Black Snake stop range on following pages.

Recovery Strap		Lack of Traction Only* (kg)	Stuck Due to Medium Boggging* (kg)	Stuck Due to Severe Boggging* (kg)
Product Code	Min Breaking Load (kg)			
09996601	12,000	24,000	12,000	7,000
09996993	18,000	36,000	18,000	11,000
09997000	24,000	48,000	24,000	14,500
09997025	36,000	72,000	36,000	21,500

* Definitions:

Lack of Traction Only: The wheels of vehicle are on the surface of the ground but unable to gain traction due to conditions.

Medium Boggging: The wheels of the vehicle are unable to gain traction and have dug into the ground to around 1/3 of the wheel diameter.

Severe Boggging: The wheels of the vehicle are unable to gain traction and are buried up to the axles.



• Towing or recovery of heavy vehicles should never be undertaken by anyone who has not been trained to do so and is deemed competent.



• Incorrect use of vehicle recovery or towing products can result in serious injury or death.

HEAVY TOWING & RECOVERY

WEBBING TOWING & RECOVERY STRAPS

100% High Tenacity Nylon Webbing Recovery Straps (12t – 36t)



Product Code	Length*	Breaking Load	Web Width	Ply
	m	kg	mm	
09996601	6.0	12,000	50	2
09996993	6.0	18,000	75	2
09997000	6.0	24,000	100	2
09997025	6.0	36,000	150	2

- High elongation heavy duty nylon webbing.
- Reduced eye each end.
- Leather eye protection.
- Australian sourced raw materials.
- Manufactured by Cookes in New Zealand.



Where higher breaking loads are required refer the Black Snake Recovery Strop range on following pages.

100% High Tenacity Polyester Webbing Tow Straps (12t – 72t)





Product Code	Length*	Breaking Load	Web Width	Colour	Ply
	m	kg	mm		
09997091	6.0	12,000	50	White	2
09997093	6.0	18,000	75	White	2
09997095	6.0	24,000	100	White	2
09997099	6.0	36,000	150	White	2
09997101	6.0	45,000	180	Brown	2
09997102	6.0	60,000	240	Blue	2
09997103	6.0	72,000	300	White	2


- Heavy duty polyester webbing.
- Reduced eye each end.
- Leather eye protection.
- Australian sourced raw materials.
- Manufactured by Cookes in New Zealand.



Where higher breaking loads are required refer the Black Snake Tow Strop range on following pages.

 • The tables above show the standard 6 metre length. Heavy Vehicle Recovery Straps and Tow Straps can be manufactured to your specific requirements – refer your nearest Cookes branch.
• Where higher breaking loads are required refer the Black Snake Recovery Strop or Tow Strop range on the following pages.

 • Towing or recovery of heavy vehicles should never be undertaken by anyone who has not been trained to do so and is deemed competent.

 • Incorrect use of vehicle recovery or towing products can result in serious injury or death.

HEAVY TOWING & RECOVERY

03

SYNTHETIC LIFTING,
TOWING & RECOVERY

BLACK SNAKE INTRODUCTION

Cookes is proud to be the authorised New Zealand distributor of the innovative Australian manufactured Black Snake product range. The high performance Black Snake strops love tough conditions and offer our customers a great alternative to webbing straps, fibre ropes, round slings, chains or wire ropes for heavy towing or recovery work.

Whether you are seeking a strop for a high performance 4WD recovery or you are wanting to recover a bogged loader, Black Snake has the product for you.

All Black Snake strops feature a vulcanised rubber outer that not only protects the important internal fibres from oil, dirt and water, but ensures minimal recoil in the event of destruction through overloading.

These high strength, versatile strops are available with nylon internal core up to 100 tonne breaking load and 20% elongation for recovery work and with Kevlar® internal core up to 400 tonne breaking load and 4% elongation for those extreme towing jobs.

For more information on the Black Snake range, please contact your nearest Cookes branch, Freephone 0508 274 366 or email customerservices@cookes.co.nz



• Did you know that Black Snake also produce an environmentally friendly alternative to conventional mooring chain? Refer page 239 for details on the Black Snake Mooring Strop.

HEAVY TOWING & RECOVERY

BLACK SNAKE H.D. NYLON RECOVERY STROPS

Heavy Duty Black Snake Nylon Recovery Stropps (20t – 100t)



03

SYNTHETIC LIFTING,
TOWING & RECOVERY

Product Code	Break Strength	Length*	Maximum GVW**	Thimble Size	Strop Weight
	t	m	t	mm	kg
09998926	20.0	6	15	24	8
09998936	30.0	6	20	28	12
09998956	50.0	6	35	36	20
09998976	70.0	6	50	44	25
09998978	100.0	6	70	52	36

* Other lengths imported to order.

** Maximum GVW is the maximum recommended gross vehicle weight of a severely bogged vehicle for a given tow strop. Severely bogged vehicle is judged as a vehicle which is resting on its axles or chassis. The vehicle is being dragged with no rolling of the wheels.



Abrasion/cut resistant rubber protects the inner nylon fibres from the elements and keeps out oil, water, mud and dust allowing it to be virtually maintenance free and making it far more durable than other fabric stropps.

- For recovery of heavy commercial, mining and military vehicles.
- Well suited to harsh environments.
- Very flexible and light weight for access into awkward spaces and for attachment devices.
- Easy to install with standard thimble eyelets embedded into the rubber casing.
- Smooth stretch of up to 20% to assist snatch style recovery.
- Individual serial number for traceability.
- Manufactured in Australia.

Load Bearing Fibres Rubber Casing



• Towing or recovery of heavy vehicles should never be undertaken by anyone who has not been trained to do so and is deemed competent.



• Incorrect use of vehicle recovery or towing products can result in serious injury or death.

HEAVY TOWING & RECOVERY

03

SYNTHETIC LIFTING,
TOWING & RECOVERY

BLACK SNAKE H.D. NYLON RECOVERY STROPS

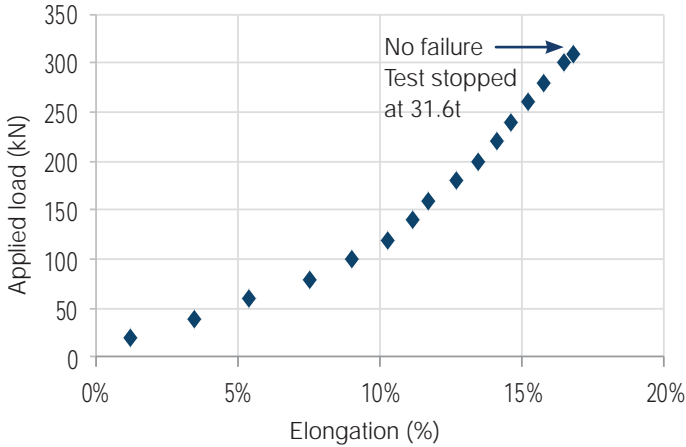


Nylon Recovery Strop Applied Load vs Elongation (%)

- This graph shows actual results for a 30 tonne Black Snake Nylon Recovery Strop. A pre-load of 5kN was applied.
- Smooth stretch up to 20% typical elongation is achieved by the Nylon 6.6 fibres and rubber casing combination.
- It is typical for the Nylon recovery strop to stretch more at low applied loads before assuming a linear gradient as displayed on the graph.
- Nylon 6.6 load bearing fibres are arranged as an endless parallel lay configuration around steel eyes/thimbles and wrapped in a protective rubber outer casing.
- Vehicle recovery can be assisted using a 'snatch' or 'potential energy → kinetic energy' type of recovery.
- At failure, nylon fibres separate at one eye and bury deep into the rubber casing which acts as dampening mass (dead-weight).



Controlled test on Nylon 30t, 2m Black Snake Strop



Recommended Minimum Shackle Sizes

Black Snake Nylon Strop Size (t)						
8	12	20	30	50	70	100
19mm Pin	22mm Pin	28mm Pin	32mm Pin	38mm Pin	42mm Pin	50mm Pin
Hi-Load Alloy Bow	Hi-Load Alloy Bow	Hi-Load Alloy Bow	Hi-Load Alloy Bow	Hi-Load Alloy Bow	Hi-Load Alloy Bow	Hi-Load Alloy Bow
WLL 3.25t	WLL 4.75t	WLL 8.5t	WLL 9.5t	WLL 13.5t	WLL 17.0t	WLL 25.0t
02325019	02325022	02325028	02325032	02325038	02325042	02325051



• Towing or recovery of heavy vehicles should never be undertaken by anyone who has not been trained to do so and is deemed competent.



• Incorrect use of vehicle recovery or towing products can result in serious injury or death.

HEAVY TOWING & RECOVERY

BLACK SNAKE H.D. KEVLAR® TOW STROPS

Kevlar® Tow Strop Weight Chart



Length	Break Strength (t)								
	20	30	50	70	100	150	200	300	400
m									
0.5	3kg	3kg	4kg	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
1.0	3.5kg	3.5kg	4kg	5kg	n.a.	n.a.	n.a.	n.a.	n.a.
1.5	5kg	5kg	6kg	7kg	13kg	15kg	n.a.	n.a.	n.a.
4.0	8kg	9kg	10kg	14kg	22kg	22kg	27kg	41kg	51kg
6.0	11kg	11kg	13kg	18kg	24kg	25kg	32kg	48kg	54kg
10.0	16kg	16kg	20kg	28kg	36kg	37kg	44kg	66kg	90kg
15.0	24kg	24kg	27kg	33kg	48kg	50kg	59kg	96kg	122kg
20.0	28kg	28kg	36kg	44kg	63kg	65kg	77kg	120kg	144kg

Note: Manufactured to order in lengths up to 20m. Stock sizes/lengths below. All others available on indent.

Stock Sizes

Product Code	Break Strength	Length
	t	m
09998936K	30	6
09998956K	50	6
09998976K	70	6
09998978K	100	6



Abrasion/cut resistant rubber protects the inner Kevlar® fibres from the elements and keeps out oil, water, mud and dust allowing it to be virtually maintenance free.

- For towing of mining, heavy commercial and military vehicles.
- Ultra high strength to weight ratio and flexibility for easy use and handling.
- Easy to install with various shaped eyelets available that are sized to fit standard connections.
- Special end fittings can also be fitted according to customer requirements.
- Individual serial number for traceability.
- Low elongation (4%) from the Kevlar® fibres and thick rubber cover.
- Vulcanised rubber outer provides a safe energy dampening feature (minimal recoil) should strop be overloaded and fail.
- Manufactured in Australia.



• Towing or recovery of heavy vehicles should never be undertaken by anyone who has not been trained to do so and is deemed competent.



• Incorrect use of vehicle towing strops can result in serious injury or death.

HEAVY TOWING & RECOVERY



BLACK SNAKE H.D. KEVLAR® TOW STROPS

03

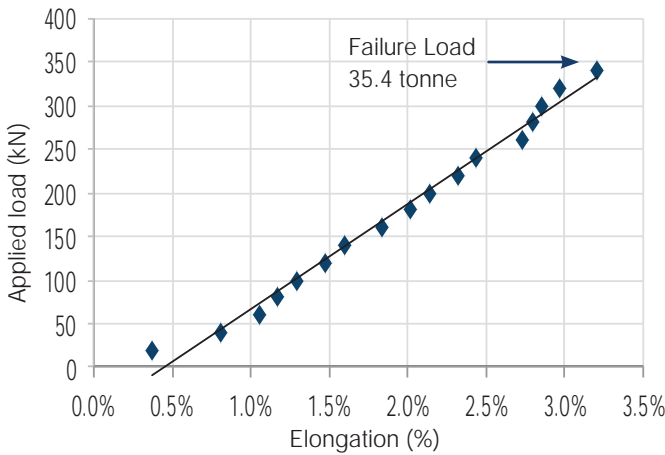
SYNTHETIC LIFTING, TOWING & RECOVERY

Kevlar® Tow Strop Applied Load vs Elongation (%)

- This graph shows actual test results for a 30t Black Snake Kevlar® Tow Strop. A pre-load of 5kN was applied.
- Very low stretch up to 4% typical elongation is achieved by the Kevlar fibres and rubber casing combination.
- The linear gradient on the graph is typical for Kevlar® tow strops longer than 0.5metres.
- Kevlar® Type29 load bearing fibres are arranged in an endless parallel lay configuration around steel eyes/thimbles which are wrapped in a protective rubber outer casing.
- Shock loading of a Kevlar® Black Snake tow strop and associated couplings/attachments can occur due to the low elongation of the Kevlar fibres and should be avoided where possible.
- No 'snatch' type of recovery should be attempted when using a Kevlar® Tow Strop.
- At failure, Kevlar® fibres break at one eye and bury deep into the rubber casing which acts as dampening mass (dead-weight).



Controlled test on Kevlar® 30t, 1.6m Black Snake Strop



- Applied load vs Elongation (%) curves vary for different sized strops and for different eye combinations.
- Protective outer casing is an industrial NR/BR abrasion resistant rubber vulcanized around the eyes and load bearing fibres.

Recommended Minimum Coupling Sizes

Black Snake Kevlar® Strop Size (t)										
	10	20	30	50	70	100	150	200	300	400
Hi-Load Bow Shackle	22mm Pin	28mm Pin	32mm Pin	38mm Pin	42mm Pin	50mm Pin	57mm Pin	65mm Pin	83mm Pin	83mm Pin
	02325022	02325028	02325032	02325038	02325042	02325051	02325057	02325065	02329080	02329080
Chain Style Connecting Link	13mm	16mm	20mm	22mm	26mm	32mm				
	Grade 80	Grade 80	Grade 80	Grade 80	Grade 80	Grade 80	n.a.	n.a.	n.a.	n.a.
	02459013	02459016	02459019	02459022	02459026	02459032				



• Towing or recovery of heavy vehicles should never be undertaken by anyone who has not been trained to do so and is deemed competent.



• Incorrect use of vehicle towing strops can result in serious injury or death.

HEAVY TOWING & RECOVERY

WHAT SIZE BLACK SNAKE DO I CHOOSE?



Suggested Black Snake Strop Sizes


Strop Size (Break Strength) Tonne	Gross Vehicle Weight (G.V.W) of Recovered or Towed Machine Given in Tonnes					
	Stranded Vehicles			Towing on Inclined Roadways		
	Lack of Traction* Slippery Conditions	Medium Bogged*	Severely Bogged*	10-1 Slope 10% Grade 6° Incline	6-1 Slope 16% Grade 9.5° Incline	4-1 Slope 25% Grade 14° Incline
8	16	8	5	30	20	12
12	24	12	8	50	30	20
20	40	20	15	80	50	35
30	60	30	20	120	80	50
50	100	50	35	200	130	80
70	140	70	50	270	180	120
100	200	100	70	400	250	170
150	300	150	100	600	380	250
200	400	200	140	800	500	340
300	600	300	200	1200	750	500
400	800	400	280	1600	1000	675

The handy chart provides suggested Black Snake strop sizes for both recovery and towing based on varying conditions. For further information on Black Snake Towing or Recovery Strops, contact your local Cookes branch, Freephone 0508 274 366 or email customerservices@cookes.co.nz.

* Definitions:

- Lack of Traction Only: The wheels of vehicle are on the surface of the ground but unable to gain traction due to conditions.
- Medium Bogging: The wheels of the vehicle are unable to gain traction and have dug into the ground to around 1/3 of the wheel diameter.
- Severe Bogging: The wheels of the vehicle are unable to gain traction and are buried up to the axles.



 • Towing or recovery of heavy vehicles should never be undertaken by anyone who has not been trained to do so and is deemed competent.

 • Incorrect use of vehicle towing and recovery strops can result in serious injury or death.

HEAVY TOWING & RECOVERY

CARE & USE OF BLACK SNAKE STROPS

For safe use

- If in doubt of the forces involved, do not attempt a vehicle recovery.
- The break strength (tonnes) is the applied load at which the tow strop or recovery strop will fail.
- All attachments, shackles, links, etc., must have greater break strength than the strop.
- Attachment hardware shall only be fitted to the bearing point of the eyes / end fittings of the strop.
- Never use a Black Snake strop as a lifting device.
- Always use vehicle manufacturer's recovery points.
- Do not use excessive speed when retrieving a vehicle.
- Do not use jerking (uneven acceleration) action when retrieving a vehicle.
- Never stand on, over, under or directly beside a Black Snake strop or near each end of the strop during a recovery attempt.
- Inspect strop for damage between each use.

Keep your Black Snake strop in good condition

- If in doubt of the appearance or general suitability of your Black Snake strop, do not use it.
- Do not use a Black Snake strop if there is any sign of cut rubber sleeving, exposed inner core, snagging, heat or chemical damage, or presence of foreign matter penetrating the rubber sleeving.
- Do not tie knots in a Black Snake strop.
- Protect a Black Snake strop from sharp edges during use.
- The rubber sleeving provides temporary cut and abrasion resistance only.
- Do not expose a Black Snake strop to temperatures above 90°C.



- Always follow product instructions.
- Only attach the Black Snake strop to a vehicle or device that is suitably rated for use with the strop.



- It is important to correctly attach the Black Snake strop to a vehicle. A standard tow ball or vehicle tie point is NOT designed for this purpose. This may result in the strop or a vehicle component detaching from the vehicle, striking and seriously injuring or killing a person.

4WD RECOVERY

SNATCH MASTER NYLON WEBBING STRAPS

Snatch Master 4WD Recovery Straps



Product Code	Break Strength	Length	Width	Colour
	t	m	mm	
09996600	8.0	6.0	60	Blue
09996900	8.0	9.0	60	Blue

Note: Stock sizes shown, other lengths manufactured to order.

Using Australian manufactured high tenacity, high elongation nylon webbing, the Snatch Master 4WD Recovery Straps are fabricated in New Zealand by Cookes. The Snatch Master is New Zealand's original, proven quality and high performance 4WD Recovery Strap.

- Heat set and dyed webbing to prevent dirt and oil ingress.
- High elongation webbing (up to 20%).
- Eye protection ensures increased life.
- Proven performance over 25 years in New Zealand conditions.
- Preferred choice of many 4WD recovery event competitors.
- Other lengths can be manufactured to order.
- Manufactured in New Zealand by Cookes.



For instructions on the safe use of Recovery Straps refer page 188.



- Not suitable for lifting applications.
- The recovery of vehicles should never be undertaken by anyone who has not been trained to do so and is deemed competent.



- Incorrect use of 4WD vehicle recovery products can result in serious injury or death.

4WD RECOVERY

03

SYNTHETIC LIFTING,
TOWING & RECOVERY

BLACK SNAKE 4WD STROPS



Heavy Duty Black Snake Nylon Recovery Stropps

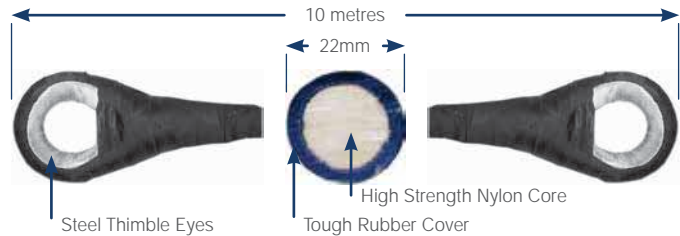
Product Code	Break Strength	Length	Maximum GVW *	Strop Weight
	t	m	t	kg
09998806	8.0	6	5	4
09998810	8.0	10	5	6
09998906	12.0	6	8	6
09998910	12.0	10	8	8



Note: Stock sizes shown, other lengths manufactured to order in Australia.

* Maximum GVW is the maximum recommended gross vehicle weight of a severely bogged vehicle for a given tow strop. Severely bogged vehicle is judged as a vehicle which is resting on its axles or chassis. The vehicle is being dragged with no rolling of the wheels.

Abrasion/cut resistant rubber protects the inner nylon fibres from the elements and keeps out oil, water, mud and dust allowing it to be virtually maintenance free and making it far more durable than other synthetic straps or stropps.



- A great, tough & high performance alternative to webbing straps.
- High strength Nylon 6.6 load bearing core with high strength to weight ratio.
- Easy to install with galvanised thimble eyelets embedded into the rubber casing.
- Perfectly matched with shackles and clevis pins.
- Very flexible and light weight for access into awkward spaces and for attachment devices.
- Smooth stretch of up to 20% to assist snatch style recovery.
- Individual serial number for traceability.

The Black Snake 4WD Recovery Strop is built for serious 4WD users. It is a high performance recovery strop ideal for recreational 4WD, light commercial and industrial vehicles.

The Black Snake 4WD Recovery Strop is manufactured from high strength nylon fibres within a rubber casing. The rubber coating protects the load bearing fibres from the elements and also acts as a dampener.

Black Snake 4WD Recovery Stropps are designed with steel thimble each end for easy attachment and durability. This paired with the flexible nylon core make it easy and safe to use in the toughest of conditions.



- Nylon fibre core has a smooth stretch of up to 20% assisting in snatch type recovery.
- Abrasion and cut resistant rubber casing.
- Far more durable than other fabric snatch straps.
- Oil, water and dust proof. No cleaning required after use.
- Each unit has its own individual serial number for traceability.
- Proven safer than fabric snatch straps.
- Manufactured in Australia.



- Not suitable for lifting applications.
- The recovery of vehicles should never be undertaken by anyone who has not been trained to do so and is deemed competent.



- Incorrect use of 4WD vehicle recovery products can result in serious injury or death.

4WD RECOVERY

4WD RECOVERY ACCESSORIES

4WD Tree Trunk Protectors

Product Code	Ply	Web Width	Length	Breaking Load
		mm	m	kg
09997300	1	75	3.0	9,000

Help protect our native trees from damage caused by wire ropes, chains, etc.

- High tenacity polyester webbing, heat-set and dyed orange for excellent visibility.
- Eye protector each end.
- Manufactured in China.



4WD Polyester Winch Extension Straps

COOKES
a BRIDON • BEKAERT Ropes Group Brand


Product Code	Web Width	Length	Breaking Load
	mm	m	kg
09997510	50	10	6,000
09997515	50	15	6,000
09997520	50	20	6,000
09997530	50	30	6,000



Winch extension straps are designed to extend winch cable when cable is too short.

- 50mm high tenacity polyester webbing.
- Minimum breaking load of 6 tonne.
- Reinforced eye at each end.
- Other lengths can be manufactured to order.
- Manufactured in New Zealand by Cookes.

 • Not suitable for lifting applications

 • Incorrect use of 4WD vehicle recovery products can result in serious injury or death.

4WD RECOVERY

4WD RECOVERY ACCESSORIES

03

SYNTHETIC LIFTING,
TOWING & RECOVERY

8T Economy 4WD Off-Road Recovery Block



Product Code	Max. Wire Rope	Sheave Dia.	Max. Pulling Load	Weight
	Ømm	mm	kg	kg
02007125	11	125	8,000	4.60

Economy imported 4WD Off-Road Recovery Block – 8,000 Kg Line Pull.

- Minimum Breaking Load 12 tonne.
- 125mm sheave suits up to 11mm Ø wire rope.
- Manufactured in China.



8T NZ 4WD Off-Road Recovery Block



Product Code	Max. Wire Rope	Sheave Dia.	Max. Pulling Load	Weight
	Ømm	mm	kg	kg
02007125R	11	125	8,000	4.90

Locally manufactured, quality 4WD Off-Road Recovery Block – 8,000 Kg Line Pull.

- Minimum Breaking Load 12 tonne.
- Cast iron 125mm sheave with bronze bush suits up to 11mm Ø wire rope.
- Proudly manufactured in New Zealand.



15T H.D. 4WD Off-Road Recovery Block



Product Code	Max. Wire Rope	Sheave Dia.	Max. Pulling Load	Weight
	Ømm	Ømm	kg	kg
07128151	22	150	15,000	7.1

Locally manufactured, quality Heavy Duty 4WD Off-Road Recovery Block – 15,000 Kg line pull for the grunty jobs!

- Minimum Breaking Load 24 tonne.
- Cast iron 150mm sheave with bronze bush suits up to 22mm Ø wire rope.
- Proudly manufactured in New Zealand.



• Not suitable for lifting applications



• Incorrect use of 4WD vehicle recovery products can result in serious injury or death.

4WD RECOVERY

4WD RECOVERY ACCESSORIES

4WD Tow Hook Sets



Product Code	Finish	Maximum Load
		kg
09564690	Black	4,500
09564691	Chrome	4,500



- Designed to allow easy coupling of recovery equipment.
- Supplied with fixing bolts and nuts.
- Black or chrome finish.
- Manufactured in China.

For 4WD Towing/Recovery applications only.

Hi-Load Alloy Bow Shackles

Product Code	Pin Ø	WLL	Weight
	mm	t	kg
02325519	19	3.2	0.65
02325522	22	4.7	1.10



High strength alloy bow shackles with clearly marked WLL.

- 6:1 design factor WLL to minimum breaking load.
- Hot dip galvanised.
- Manufactured in accordance with AS2741.
- Larger sizes available if required.
- Manufactured in China.

'Tugger' Recovery Winches



Product Code	Rated Capacity	Dynamic Load	Wire Rope		Net Weight
	kg	kg	Ø (mm)	Length (m)	kg
10048080	800	1,250	8.3	20	6
10048160	1,600	2,000	11.0	20	11
10048320	3,200	4,000	16.0	20	22

Easy and safe to use in all recovery situations. Multiple pulleys can be used to increase load if necessary.

- Portable and light weight.
- 20 metres of wire rope complete with safety hook.
- Manufactured in China for Cookes.



STOP • Incorrect use of 4WD vehicle recovery products can result in serious injury or death.

4WD RECOVERY

4WD RECOVERY ACCESSORIES

TIEDOWN STRAPS AND DRAG CHAIN SETS

With in-house webbing manufacturing facilities, and New Zealand's largest range of chain and components, Cookes can fabricate tiedown straps or drag chain sets to your specific requirements.



Tiedown Straps



Tiedown Straps



Drag Chain (Snig Chain) Sets

STEEL WIRE WINCH ROPES

For your convenience, Cookes has rigging facilities at 12 sites throughout New Zealand. Using Bridon manufactured galvanised steel wire rope, winch cables can be fabricated to your requirements. Make an appointment to bring your vehicle to our premises to have existing wire ropes shortened or a new hook fitted while you wait.



• 4WD hardware is designed specifically for off-road recovery use and must never be used for lifting applications. While certain products in this section are rated for lifting, they must not be used for this purpose after being used for vehicle recovery.



• Incorrect use of 4WD vehicle recovery products can result in serious injury or death.

4WD RECOVERY

4WD RECOVERY WINCHES

Comeup 4WD Self Recovery Electric Winches – DV Series

Pacific Hoists

Product Code		Comeup Item No.	Line Pull	Line Speed	Motor Rating	Wire Rope	Drum Size	Gear Ratio	Weight
12 Volt	24 Volt		kg	m / min	watt / hp	Ømm x m	mm xmm		kg
10059754	n.a.	DV6000S	2,720	8.0	2,386 / 3.2	7 x 24.4	63.5 x 125.5	216 : 1	17.7
10059756	10059757	DV9000	4,080	13.4	3,430 / 4.6	8 x 30.5	63.5 x 229.0	216 : 1	36.0


The Comeup Self Recovery Winches are equipped with a heavy duty motor which delivers superior torque output for self recovery applications. Our featured items offer a choice between 6,000lbs (2,720kg) or 9,000lbs (4,080kg) line pull though other options are available up to 15,000lbs (6,800kg) line pull.


All Comeup Recovery Winches offer the strongest power for working in off-road environments.



Standard Features Include:

- All sealed high performance motor supplies superior torque output and faster line speed.
- Three stage planetary gearbox delivers the most reliable & durable performance of winch under tough weather conditions.
- Protective thermal sensor LED.
- Heavy duty sealed contactor ensures sound waterproof protection.
- Galvanised 7x19 construction steel wire rope.
- Manufactured in Taiwan.

 • Never exceed manufacturer's Maximum Line Pull.
• 4WD electric winches should only be operated by persons fully trained in the safe use of this equipment.

 • Incorrect use of 4WD vehicle recovery products can result in serious injury or death.

4WD RECOVERY

SAFE USE OF 4WD RECOVERY STRAPS

General

A tow strap should not be used to recover or snatch a vehicle that is bogged. Traditionally vehicle tow straps are much less flexible and designed only to pull a load that freely moves. The straps' inability to stretch can't absorb energy, which increases the likelihood that it will break. Using a tow strap with very little stretch for vehicle recovery is extremely unsafe!

Important

- Never attempt to recover a vehicle without all the necessary equipment.
- Only use equipment that is properly rated for the particular situation. If in doubt, don't use it.
- Never exceed the Minimum Breaking Load (MBL) of the strap or the Working Load Limit (WLL) of shackles.

Selecting The Correct Recovery Strap

It is very important the correctly rated strap is used. A strap with a 'too light' breaking strength may break under load. A strap with 'too heavy' a breaking strength may not stretch adequately and more stress will be placed on the recovery points, possibly causing damage or injury. The Minimum Breaking Load (MBL) of the strap should be between 2 and 3 times the Gross Vehicle Mass (GVM) of the 'lighter' of the two vehicles used in the recovery process. Be aware that the Recovery Strap will be under greater load if the vehicle is bogged in mud, sand or heavily loaded.

Keeping People Safe

Only the drivers of the stranded and recovery vehicle should be in those vehicles. Nobody else should be in or on those vehicles.

Ensure bystanders stay at least 1.5 times the un-stretched strap length away, to the side of the line of recovery. **NEVER** stand between vehicles connected by a Recovery Strap.

Key Information & Safety Recommendations

- Check the strap and its packaging for the stated Minimum Breaking Load (MBL) of the strap.
- Persons intending to use the strap should consider completing a nationally recognised training course or contact a four wheel drive club for comprehensive advice on the proper selection and use of the strap.
- The strap must never be used for lifting or conventional towing.
- Persons intending to use the strap must ensure that the strap is not damaged and is in usable condition.
- The strap's strength and stretch are reduced when the strap is saturated.
- Something like a recovery damper, heavy bag or blanket must be draped over the strap during use to reduce any unintentional rebound of the strap.
- While the strap is being used, persons situated outside the motor vehicles involved in the recovery process must – (A) be kept at a safe distance (recommended as at least 1.5 times the length of the unstretched strap) from either of the vehicles involved in the recovery process; and (B) never situate themselves within the path of the vehicle performing the recovery.

General Care & Maintenance

- Never allow your strap to rub against sharp or hot surfaces.
- Avoid twists & kinks, after washing, and when dry always coil your strap for storage.
- Clean your strap with warm water and a mild detergent, allowing thorough drying before storage. Foreign material such as sand and grit can permanently damage the strap fibres.
- Check full length of straps for nicks and cuts before and after use. If damaged, replace it.
- Never use the strap as a lifting sling.
- Inspect shackles for damage; if pins are hard to turn, shackle has been overstressed. Replace it.



• **Never exceed the specified rating of any 4WD recovery equipment.**



• **WARNING** – Always follow product instructions. It is important to correctly attach the recovery strap to a motor vehicle. A standard tow ball or vehicle tie-down point is not designed for this purpose and may result in the strap or a vehicle component detaching from a motor vehicle and striking and seriously injuring or killing a person. Only attach the strap to a vehicle recovery point or device that is suitably rated for use with the strap.

LIGHT VEHICLE TOWING

VEHICLE TOW STRAPS

5 Tonne Vehicle Tow Straps

Product Code	Web Width	Length	Breaking Load	Colour
	mm	m	kg	
09996055	50	3.65	5,000	Orange



An essential accessory in every vehicle – you will not realise how much you need it until you are stranded without one!

- Light weight and easy to store.
- 5 tonne breaking load webbing in high-visibility orange.
- Webbing heat set and dyed to prevent dirt and oil ingress.
- Eye protected each end for long life.
- Manufactured in China.



• Not suitable for lifting applications.



• While some tow straps and ropes are available on the market with fitted hooks, Cookes strongly recommend against this practice. Hooks can become deadly missiles should a tow strap or rope break under load!





TIEDOWNS & ACCESSORIES

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INTRODUCTION

04

TIEDOWNS &
ACCESSORIES

At Cookes we want to ensure that your precious cargo arrives safely at its destination. With many questionable quality tiedown imports available on the market today, you require assurance that your restraints are compliant and of required quality to meet the demands of New Zealand road and rail transport.

Cookes has been manufacturing tiedowns for over 30 years and, whether manufactured in-house or overseas to our specifications, you can rest assured that our webbing tiedown restraints will be fit for purpose.

We can manufacture bespoke items in our local sewing factory while ensuring these meet the requirements of the New Zealand Truck Loading Code.

So whether you require tiedowns for trailers, boat or motorcycle restraint, medium weight tiedowns for utility vehicles, or heavy-weight tiedowns for road, rail or sea, consult the webbing experts at Cookes.



COOKES – helping lift New Zealand business for over 100 years!
a BRIDON · BEKAERT Ropes Group Brand

WEBBING TIEDOWNS

5.0T LASHING CAPACITY (75MM)

5.0T L/C Ratchet Tiedown

Product Code	Description	Hook Type	Width	Length*	Lashing Cap.
			mm	m	kg
09570000	Heavy Load Tiedown	Hook & Keeper	75	9.5	5,000

* Length relates to webbing main strap only.

Designed for those extra large loads, or where shape and type of load allows less tiedown restraints to be used.

Heavy duty heat-set and dyed polyester webbing exceeds the minimum required breaking load of 10,000kg to ensure long life. Includes sliding wear sleeves to protect the straps from cutting or excessive abrasion.

- 75mm heavy duty high tenacity polyester webbing.
- 5,000kg lashing capacity.
- Long handle ratchet buckle for extra leverage.
- Hook and keeper ends with added eye protection.
- Complies with AS/NZS 4380.
- Manufactured in China.



AS/NZS 4380 Compliant



For extra heavy loads or where cargo is precious, rely on Cookes heavy duty 5 tonne rated ratchet tiedowns.

• Special lengths manufactured to order by Cookes.

• Never Exceed Lashing Capacity. Tiedowns must never be used for lifting applications!
 • Always follow guidelines as set out in the New Zealand Truck Loading Code.

WEBBING TIEDOWNS

2.5T LASHING CAPACITY (50MM)

2.5T L/C Ratchet Tiedown

Product Code	Description	Hook Type	Width	Length*	Lashing Cap.
			mm	m	kg
09571470	H.D. Truck Tiedown	Hook & Keeper	50	9.0	2,500

* Length relates to webbing main strap only.

Quite simply the best quality 2.5t tiedown on the New Zealand market.

New Zealand's most popular tiedown, manufactured to Cookes own specifications. Heavy duty heat-set and dyed polyester webbing exceeds the minimum required breaking load of 5,000kg to ensure long life.

Includes sliding wear sleeves to protect the straps from cutting or excessive abrasion.

- 50mm heavy duty high tenacity polyester webbing.
- 2,500kg lashing capacity.
- Rubber coated grip on wide handle locking ratchet buckle.
- Hook and keeper ends with added eye protection.
- Complies with AS/NZS 4380.
- Manufactured in China.




AS/NZS 4380 Compliant



Require different end fittings? Speak to us about fabricating a tiedown to meet your special requirements including name woven tiedowns fabricated to order (refer page 202).



Cookes can manufacture 2.5T Lashing Capacity Tiedowns in your choice of colour from the above options.

 • Never Exceed Lashing Capacity. Tiedowns must never be used for lifting applications!
• Always follow guidelines as set out in the New Zealand Truck Loading Code.

WEBBING TIEDOWNS

1.5T LASHING CAPACITY (35MM)

1.5T L/C Ratchet Tiedown

Product Code	Description	Hook Type	Width	Length*	Lashing Cap.
			mm	m	kg
09576600	Utility Vehicle Tiedown	Hook & Keeper	35	6.0	1,500

* Length relates to webbing main strap only.

Perfect for use on utility vehicles. Will ensure that your tiedown restraints are fully compliant with the New Zealand Truck Loading Code.

- 35mm heavy duty high tenacity polyester webbing.
- 1,500kg lashing capacity.
- Solid construction wide handle ratchet buckle.
- 6.0 metre main strap length with sliding wear sleeves.
- Hook and keeper ends.
- Complies with AS/NZS 4380.
- Manufactured in China.



AS/NZS 4380 Compliant



Cookes' mid-size 1.5 tonne rated ratchet tiedowns are perfect for utility vehicles and heavy trailers. Lightweight and easy to handle.



• Special lengths manufactured to order by Cookes.



• Never Exceed Lashing Capacity. Tiedowns must never be used for lifting applications!
• Always follow guidelines as set out in the New Zealand Truck Loading Code.

WEBBING TIEDOWNS

750KG LASHING CAPACITY (25MM)

750kg L/C Ratchet Tiedown – S Hook Ends

Product Code	Description	Hook Type	Width	Length*	Lashing Cap.
			mm	m	kg
09574500	H.D. Trailer Tiedown – Blue	S – Hook	25	5.0	750
09574600	H.D. Trailer Tiedown – Red	S – Hook	25	6.0	750

* Length relates to webbing main strap only.

A versatile and reliable tiedown designed to secure a wide range of trailer and domestic cargo.

Heavy duty polyester webbing and wide handle ratchet buckles make these tiedowns a great choice for recreational applications.

- 25mm heavy duty high tenacity polyester webbing.
- 750kg lashing capacity.
- S-Hook ends for ease of attachment.
- Manufactured in China.



750kg L/C Ratchet Tiedown – Hook & Keeper Ends

COOKES
a BRIDON · BEKAERT Ffoces Group Brand

Product Code	Description	Hook Type	Width	Length*	Lashing Cap.
			mm	m	kg
09574600A	H.D. AS/NZS4380 Tiedown – Blue	Hook & Keeper	25	6.0	750

* Length relates to webbing main strap only.

A heavy duty but light-weight tiedown manufactured by Cookes.

- 25mm heavy duty high tenacity polyester webbing.
- 750kg lashing capacity.
- Heavy duty ratchet buckle with wide, rubber coated handle.
- Choice of blue or red webbing.
- 6.0 metre main strap length.
- Other lengths manufactured to order.
- Hook and Keeper ends.
- Complies with AS/NZS4380.
- Manufactured in New Zealand by Cookes.



AS/NZS 4380 Compliant



• Bespoke tiedowns can be manufactured to order – contact your Cookes branch, Freephone 0508 274 366 or email customerservices@bridoncookes.co.nz.



• Never Exceed Lashing Capacity. Tiedowns must never be used for lifting applications!

WEBBING TIEDOWNS

BOAT TRANSOM & MOTORCYCLE TIEDOWNS

Boat Transom Tiedown with Cambuckle

Product Code	Description	Hook Type	Buckle	Width	Length	Unit
				mm	m	
09583000	Boat Transom Tiedown	Transom Hook & S – Hook	Cambuckle	25	1.0	Pair

Secure your boat with these high quality locally manufactured tiedowns.

- 25mm wide H.D. webbing.
- Plastic covered transom hook one end to protect your boat.
- Heavy S-Hook other end.
- Cambuckle for easy adjustment.
- Manufactured in New Zealand.

Ratchet buckle model manufactured to order (Product Code 09583010).



Motorcycle Tiedown with Cambuckle


Product Code	Description	Hook Type	Buckle	Width	Length	Unit
				mm	m	
09582000	Motorcycle Tiedown	S – Hook Each End	Cambuckle	25	2.0	Pair

Secure your motorcycles on trailer with these high quality locally manufactured motorcycle tiedowns.

- 25mm wide H.D. webbing.
- S-Hook each end.
- Cambuckle for easy adjustment.
- Manufactured in New Zealand.

Ratchet buckle model manufactured to order (Product Code 09582001).



 • Never Exceed Lashing Capacity. Tiedowns must never be used for lifting applications!

WEBBING TIEDOWNS

LIGHT DUTY ECONOMY (25MM)

Light Duty Ratchet Tiedown

Product Code	Description	Hook Type	Width	Length	Lashing Cap.
			mm	m	kg
09574555	L.D. Economy Tiedown	S – Hook	25	5.0	500

An economy tiedown designed for light duty applications.

- 25mm polyester webbing.
- Small pattern ratchet buckle.
- Plastic covered S hook ends.
- Manufactured in China.



MANUFACTURE OF CUSTOMER 'SPECIALS'

Utilising webbing and hardware items detailed on the following pages, Cookes can manufacture a wide range of products to meet your special requirements.

With over 30 years of manufacturing experience, you can be assured of receiving a quality, fit for purpose webbing assembly. For more information contact your nearest branch, Freephone 0508 274 366 or email customerservices@bridoncookes.co.nz.



Curtainsider Straps



Bespoke Tiedowns



Boat Winch Straps



- Never Exceed Lashing Capacity. Tiedowns must never be used for lifting applications!
- Always follow guidelines as set out in the New Zealand Truck Loading Code.

WEBBING TIEDOWNS

WEBBING

Webbing

Product Code	Width	Description	Approx. Break Load*	Use
	mm		kg	
09560025B	25	Blue Heavy Duty Polyester	2,000	Tiedowns & General Purpose
09560025R	25	Red Heavy Duty Polyester	2,000	Tiedowns & General Purpose
09560028**	25	Name Woven Jaquard Polypropylene	1,400	Tiedowns & General Purpose
09560038B	35	Blue Heavy Duty Polyester	4,000	Tiedowns & General Purpose
09560038W	37	White Heavy Duty Polyester	3,500	Tiedowns & General Purpose
09560034**	37	Name Woven Jaquard Polypropylene	2,000	Tiedowns & General Purpose
09560048	45	Black Polyester	3,000	Curtainsider
09561052	50	Blue Heavy Duty Polyester	7,000	Tiedowns & General Purpose
09561053	50	Red Heavy Duty Polyester	7,000	Tiedowns & General Purpose
09561054	50	Yellow Heavy Duty Polyester	7,000	Tiedowns & General Purpose
09561060	50	Green Heavy Duty Polyester	7,000	Tiedowns & General Purpose
09561061	50	Orange Heavy Duty Polyester	7,000	Tiedowns & General Purpose
09560074	50	Grey Heavy Duty Polyester	7,000	Tiedowns & General Purpose
09676050	50	Loomstate Heavy Duty Polyester	5,500	Tiedowns & General Purpose
09561200**	50	Name Woven Jaquard Polyester	5,500	Tiedowns & General Purpose
09679050	50	Loomstate Light Duty Polyester	2,000	Furniture Tie & General Purpose
09562050	50	Black 'B Grade' Seatbelt	1,500	Furniture Tie & General Purpose
09560075	75	Blue Heavy Duty Polyester	12,000	Tiedowns & General Purpose

* Approximate Breaking Load refers to unsewn webbing. Up to 20% loss in strength from sewing; varies depending on the webbing.

** Minimum order length of 100m.

Tubular Wear Sleeve (Polyester Fibre)

Product Code	Width (Flat)	Suit Webbing Width
	mm	mm
09562097	32	25
09562099	45	35
09562101	60	50
09562104	85	75

Tubular Sleeve can be supplied in 50 metre rolls or cut to required length.



09560038B



09679050



09562050

Webbing is available for sale by the metre, either by the full coil or cut to length required. Name woven webbing can be produced to order in minimum lengths of 100 metres.



BLUE

RED

YELLOW

GREEN

ORANGE

GREY

WEBBING TIEDOWNS

WEBBING BUCKLES

Ratchet Buckles

Product Code	Suit Webbing	Description
	Width (mm)	
09563003	25	Light Duty Ratchet Buckle
09563002R	25	Heavy Duty Rubber Grip Ratchet Buckle
09563008	25	Stainless Steel Heavy Duty Ratchet Buckle
09563011R	35 – 38	Heavy Duty Rubber Grip Ratchet Buckle
09563015	35 – 38	Stainless Steel Ratchet Buckle
09563022R	50	Heavy Duty Rubber Grip Ratchet Buckle
09563028	50	Stainless Steel Ratchet Buckle
09563031	75	Heavy Duty Long Handle Ratchet Buckle



09563002R



09563022R



09563031

Cambuckles

Product Code	Suit Webbing	Description
	Width (mm)	
09563203	25	Light Duty Cambuckle
09563201	25	Heavy Duty Cambuckle
09563211	35 – 38	Regular Duty Cambuckle
09563221	50	Regular Duty Cambuckle



09563203



09563201



• Webbing tiedowns should only be fabricated by recognised webbing load restraint manufacturers. Refer to your nearest Cookes branch for professional assistance and advice.


WEBBING TIEDOWNS

WEBBING COMPONENTS

End Fittings

Product Code	Suit Webbing	Description
	Width (mm)	
09564100	25	Zinc Plated Hook & Keeper Set
09564110	35 – 38	Zinc Plated Hook & Keeper Set
09564219	50	Zinc Plated Hook & Keeper Set
09564301	25	Zinc Plated S-Hook (10mm)
09564302	25	Plastic Coated S-Hook (8mm)
09564309	25	Stainless Steel S-Hook (8mm)
09564303	25	Stainless Steel S-Hook (9.5mm)
09564002	25	Plastic Coated Double J Hook
09564012	35 – 38	Zinc Plated Double J Hook
09564015	35-38	Stainless Steel Double J Hook
09564022	50	Zinc Plated Double J Hook
09564030	50	Stainless Steel Double J Hook
09564621	50	Zinc Plated Flat Hook
09564721	50	Zinc Plated Flat Snap Hook
09564235	50	Zinc Plated Round Section Dee Ring
09564240	50	Zinc Plated Flat Section Delta Ring
09564250	50	0.5m Chain End c/w Grab Hook
09564550	50	Rave Hook Suit Max. Ø24mm Rail
09564560	50	Rave Hook Suit Max. Ø35mm Rail
09564135	75	Zinc Plated Hook & Keeper Set



 • Webbing tiedowns should only be fabricated by recognised webbing load restraint manufacturers. Refer to your nearest Cookes branch for professional assistance and advice.

WEBBING TIEDOWNS

JACQUARD NAME WOVEN TIEDOWNS



The Jacquard name woven webbing tiedowns stand out from the crowd and protect your investment by having your company details woven into the webbing. They will not fade like stencilling and are less likely to be stolen.

into the webbing. They will not fade like stencilling and are less likely to be stolen.

The weaving can show your company name, branch, unique codes or any other requirements.



Jacquard Name Woven Webbing Options

Description	Webbing Width	Webbing Thickness	Minimum Breaking Load	Tiedown Lashing Capacity*	Min Length For Name Weaving	Colour Options		Letter Height
	mm	mm	kg	kg	m	Webbing	Text	mm
Light Duty Polypropylene Webbing	25	2	600	300	100	Blue, Black, Red, Orange, Yellow, Green		12.6
Heavy Duty Polypropylene Webbing	25	2.5	1,200	600	100			12.6
Heavy Duty Polypropylene Webbing	37	2.8	2,000	1,000	100	Blue, Black	Blue, Black, White, Red, Orange, Yellow, Green	16
Heavy Duty Polypropylene Webbing	50	2.3	2,500	1,250	100	Blue, Black		21.8
Heavy Duty Polyester Truck Webbing	50	2.9	5,000	2,500	100	White		21.8

* To achieve lashing capacity shown, component items must have same or higher capacity.

- Truck tiedowns meet the requirement of the New Zealand Truck Loading Code.
- Minimum purchase requirement for 2.5T truck tiedown is 10 pcs at 9m (or equivalent).
- Minimum purchase for other types/widths relates to 100m of woven webbing.
- Standard hardware fitted or choose from the range on previous pages.
- Manufactured in New Zealand.



- Never Exceed Lashing Capacity. Tiedowns must never be used for lifting applications!
- Always follow guidelines as set out in the New Zealand Truck Loading Code.

WEBBING TIEDOWNS

OPERATION OF RATCHET TIEDOWNS

To Restrain

- Secure hooks to suitably rated rails or tiedown fixings on either side of load.
- Insert free end of long (main) webbing strap through slot in ratchet buckle centre cam and take up the slack.
- Move handle up and down to take up the webbing until strap is taught. Do not over-tighten or you may damage cargo.
- Main webbing strap should be of sufficient length to accommodate at least two or three full revolutions around the centre cam.
- Push handle down flat to secure in place.



To Release

- Pull back on ratchet buckle release lever and hold.
- Pull handle up and over so device is fully open.
- Pull webbing strap up to loosen and remove from slot.

Note: Lightly lubricate all ratchet buckle moving parts on a regular basis.



• The effective holding strength of a ratchet tiedown is determined by its lashing capacity and how it is employed. All tiedowns must be anchored to a tiedown rail or other rated fixing. The strongest tiedown is no stronger than the rail or fixing to which it is attached.

WEBBING TIEDOWNS

CARE & USE OF TIEDOWNS

Handling

To ensure continued safety and an extended service life from your Cookes tiedown assembly, please read and adhere strictly to the following information. These recommendations apply, in the main, to the use of webbing ratchet tiedown assemblies in road transport and whilst some of the more general recommendations apply throughout the field of use of such products, it is important to realise that in some applications different requirements may apply.

- Always inspect tiedowns prior to use.
- Ensure Lashing Capacity markings are legible.
- Do not use webbing load restraints if the webbing or hardware is damaged. If in doubt replace or seek professional advice before use.
- Ensure that sufficient tiedowns are used and that they are strong enough to secure the load.
- Where anti-chafing sleeve are supplied, ensure these are placed where edges or corners of the load come in contact with the webbing.
- Do not allow modifications or repairs to be carried out by anybody other than a recognised webbing tiedown manufacturer.
- Do not tie knots in webbing lashings.
- Do not increase the tension on the webbing by the use of levers or bars.
- Make use of anchorage points which are at least equal in strength to the tiedown.
- Ensure that the sum of the lashing capacity of the total tiedowns used is at least equivalent to the mass of the load and that the vehicle has at least one tiedown every 1.5m along the length of the load. **Note:** Complex loads are likely to require additional tiedowns. Refer to New Zealand Truck Loading Code for further information.
- Ensure the vehicle's load space and the condition of it's load platform are suitable and adequate for the type and size of the load.
- Always ensure that the front of the load is abutted against the headboard of the vehicle or some other FIXED restraint, taking care not to overload any of the axles.
- Check the security of the load:
 - before moving off.
 - before entering public roads.
 - at regular intervals throughout the journey.
 - on any occasion when unusual road conditions may have altered the tension of the webbing.
 - following removal of any items from, or addition of any items to, the load during the journey.

Storage

Always store webbing load restraints in a clean and dry area out of direct sunlight when not in use. Avoid exposure to acids, alkalis or temperatures in excess of 90°C.



- **Helpful Hint:** Loose webbing straps will wear faster than tight straps!









- Always secure footing before operating any webbing load restraint to prevent slips or fall.
- It is the driver's responsibility to ensure that the cargo being carried is adequately secured.
- Always follow guidelines as set out in the New Zealand Truck Loading Code.
- Tiedowns must never be used for lifting applications.

WEBBING TIEDOWNS

CARE & USE OF TIEDOWNS

Criteria For Removing Webbing Tiedowns From Service

Remove webbing tiedowns from service if any of the following damage is visible:

	Holes, tears, snags, cuts.
	Chemical damage.
	Broken or worn stitching in areas of the load bearing webbing.
	Melting or charring of the webbing, or weld splatter.
	Excessive abrasion.
	Any damaged eye or broken hardware.



• Repairs should only be undertaken by a recognised webbing load restraint manufacturer. Refer to your nearest Cookes branch for professional assistance and advice.

WEBBING TIEDOWNS

WEBBING TIEDOWN PROTECTORS

CargoGuard™ Flexible Corner Protectors



Product Code	Description	Colour	Weight Each
			kg
09562000	Flexible Corner Protector	Blue	0.03

CargoGuards™ feature patented, multiple living hinges that adapt to the form of any cargo, regardless of the shape. Designed to protect both the webbing strap and the cargo and can be installed even after tiedown strap has been tensioned on the load.

- Manufactured from high impact thermoplastic.
- Units can be snapped together to any required length.
- Stack for easy storage.
- Exclusive to Cookes by Peerless SCC, Germany.



Plastic Corner Boards

Product Code	Description	Colour	Length	Weight Each
			m	kg
09567101	Plastic Corner Boards	Blue	1.2	1.6

High quality plastic corner boards. Required for certain cargo restraint as detailed in the New Zealand Truck Loading Code.

- Strong, yet light weight and durable.
- Protects webbing from sharp edges.
- Prevents cargo from strop indentations.
- Suits all webbing sizes.
- Manufactured in New Zealand.



WEBBING RESTRAINED SAFETY CARGO NET

SAFETY CARGO NETS

Sizes and Application Chart

Product Code	Size	Net Size	Trailers	Cabs / Utes	Mid Size Truck
		mm	mm	mm	mm
09567462	SMALL	2460 x 2460	1200 x 1800	1500 x 1500 1580 x 1900	
09567464	MEDIUM	2800 x 2840	1500 x 2400	1850 x 1880 1850 x 2180	2330 x 1850 2400 x 2330
09567466	LARGE	2800 x 3440			2480 x 2330 2400 x 2550 2400 x 2630 2400 x 2780



The ultimate load cover protection system.

- Load tested to 1,000kg.
- Includes four rope ties and four cambuckle tiedowns.
- Integrated D rings to assist holding down.
- Modular webbing positions provide multiple applicates per size.
- High tenacity, UV stabilised mesh for long life.
- Easily connected to compliant tiedown restraints.
- Manufactured in China.



- This product is designed as a coverall and must be used with approved restraints for all load restraint applications.
- Protective measures should be taken to remove risk of cutting on sharp edges.





LASHING CHAINS & ACCESSORIES

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LASHING CHAIN

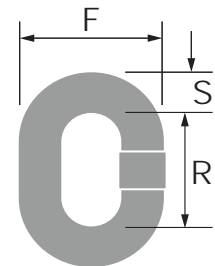
TRANSPORT LASHING CHAIN

Cookes Grade 70 Transport Chain complies with AS/NZS4344 and meets the requirements of the New Zealand Truck Loading Code. This chain is gold passivated to provide corrosion protection and can be cut and assembled to order.

Pre-fabricated 9m assemblies with grab hook fitted each end are also available.

Grade 70 Transport Chain

Product Code	Size	Lashing Cap.*	MBL*	Dimensions (mm)			Weight kg/m
		t	t	S	R	F	
02616106	6.0	2.3	4.6	6.3	18.8	21.6	0.86
02616107	7.3	3.0	6.0	7.3	23.8	25.9	1.16
02616108	8.0	3.8	7.6	8.0	23.8	27.0	1.45
02616110	10.0	6.0	12.0	10.0	29.6	34.3	2.20
02616113	13.0	9.0	18.0	12.5	38.0	42.5	3.40



- Manufactured from a wear resistant hardened carbon steel.
- Clearly marked with Standard and Lashing Capacity (LC).
- Complies with AS/NZS 4344.
- Gold zinc passivated finish.
- Manufactured in China.



Grade 70 Transport Chain Assemblies

Product Code	Chain Size	Length	Lashing Cap.*	MBL*
	mm	m	t	t
02616129	7.3	9.0	3.0	6.0
02616139	8.0	9.0	3.8	7.6
02616149	10.0	9.0	6.0	12.0

Transport chain conveniently cut to 9m length with winged grab hook fitted each end.

- Complies with AS/NZS 4344.
- Chain and hook marked with lashing capacity.
- Supplied in handy plastic pail.
- Manufactured in China.



* Lashing Capacity: Half the Minimum Breaking Load as defined in AS/NZS 4344.

* MBL: The Minimum Breaking Load as defined in the NZ Truck Loading Code.



- Not suitable for lifting applications.
- Always comply with the requirements of the New Zealand Truck Loading Code.

LASHING CHAIN

TRANSPORT LASHING CHAIN END FITTINGS

Grade 70 Clevis Grab Hooks with Supporting Wings

Product Code	To Suit Chain Dia.	Lashing Capacity *	MBL *
	mm	t	t
02234106	6.0	2.3	4.6
02234108	7.3 – 8.0	3.0 (7.3 mm) / 3.8 (8.0 mm)	7.6
02234110	10.0	6.0	12.0
02234113	13.0	9.0	18.0



- Complies with AS/NZS 4344
- Supporting wings maintain 100% of the rated strength.
- Manufactured in China.

Grade 70 Clevis Slip Hooks

Product Code	To Suit Chain Dia.	Lashing Capacity *	MBL *
	mm	t	t
02234115	6.0	2.3	4.6
02234116	7.3 – 8.0	3.0 (7.3 mm) / 3.8 (8.0 mm)	7.6
02234117	10.0	6.0	12.0
02234118	13.0	9.0	18.0



- Complies with AS/NZS 4344.
- Gold zinc passivated finish.
- Manufactured in China.

Grade 70 Clevis Lug Links

Product Code	To Suit Chain Dia.	Lashing Capacity *	MBL *
	mm	t	t
02234120	7.3 – 8.0	3.0 (7.3 mm) / 3.8 (8.0 mm)	7.6
02234122	10.0	6.0	12.0
02234124	13.0	9.0	18.0



- Complies with AS/NZS 4344.
- Gold zinc passivated finish.
- Manufactured in China.

* Lashing Capacity: Half the Minimum Breaking Load as defined in AS/NZS 4344.

* MBL: The Minimum Breaking Load as defined in the NZ Truck Loading Code.



- Not suitable for lifting applications.
- Always comply with the requirements of the New Zealand Truck Loading Code.

LASHING CHAIN

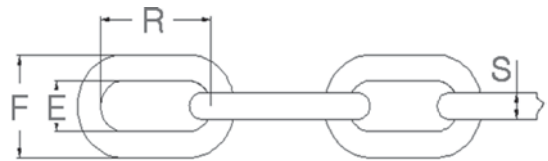
SHIP'S LASHING CHAIN

Grade 70 Lashing Chain – Long Link

Product Code	Size (mm)	MBL	Dimensions (mm)				Finish	Weight
		t	S	F	R	E		kg / m
02616313Y	13.0	20.0	13.0	48.0	80.0	22.0	Yellow Painted	3.10
02616313	14.2	19.0	14.2	54.0	82.0	25.6	Hot Dip Galvanised	3.85

A chain with generous link dimensions to meet requirements for ship's cargo lashing chain.

- Manufactured from a wear resistant hardened alloy steel.
- 100% Proof loaded to 10 tonne.
- Minimum elongation 15%.
- Hot dip galvanised finish (14.2) or painted yellow finish (13mm).
- Manufactured in China.



• Not suitable for lifting applications.

LOAD BINDERS

LEVER & RECOILLESS BINDERS

Lever Type Load Binders

Product Code	Colour	Suit Chain Size	Lashing Capacity *		MBL*
		mm	t		t
09026106	Yellow	6.0	2.3		4.6
09026108	Yellow	7.3 – 8.0	7.3 mm: 3.0	8.0 mm: 3.8	7.6
09026110	Yellow	10.0	6.0		12.0



Also commonly known as 'twitches' or 'dogs'. The conventional style load binder used by truckies for generations.

- Complies with AS/NZS 4344.
- Winged grab hooks ensure no down-rating.
- Manufactured in China.

Recoilless Load Binders

Product Code	Colour	Suit Chain Size	Lashing Capacity *		MBL*
		mm	t		t
09026115	Blue	6.0 – 7.3	6 mm: 2.3	7.3 mm: 3.0	6.0
09026116	Red	7.3 – 8.0	7.3 mm: 3.0	8.0 mm: 3.8	7.6
09026117	Red	10.0	6.0		12.0



The recoilless load binder allows the user to release the binder without tension energy being transferred & stored in the handle. The centre body of the binder independently rotates, free of handle, to release the tension smoothly and easily.

A safer option than conventional lever type binders: The recoilless load binder eliminates the chance of injuries from the handle swinging with substantial force when released.

- Batch numbered for traceability.
- Complies with AS/NZS 4344.
- Winged grab hooks ensure no down-rating.
- Manufactured in China.

* Lashing Capacity: Half the Minimum Breaking Load as defined in AS/NZS 4344.

* MBL: The Minimum Breaking Load as defined in the NZ Truck Loading Code.



- Not suitable for lifting applications.
- Cookes recommend against the use of 'cheater bars' to gain additional leverage on Lever Type Load Binders.
- **Warning To Users:** There are currently load binders on the market with hooks claimed to be suitable for all chain sizes from 7.3 mm to 10 mm. A grab hook suitable for 7.3 mm – 8.0 mm chain is not suitable for 10 mm chain. This same principle applies to load binders. Tests have proven that the hooks claimed to suit 7.3 mm to 10 mm can cause premature failure on some chain sizes through inadequate support from the hook wings.

LOAD BINDERS

RATCHET & SPRING COMPRESSION BINDERS

Ratchet Load Binders

Product Code	Suit Chain Size	Lashing Capacity *		MBL*
	mm	t		t
09026120	6.0	2.3		4.6
09026124	7.3 – 8.0	7.3 mm: 3.0	8.0 mm: 3.8	7.6
09026150	10.0	6.0		12.0
09026155	13.0	9.0		18.0



Ratchet Load Binders double the mechanical advantage of conventional lever type binders and provide a safer alternative with no dangerous handle kick-back.

- Continuous take-up feature provided by the positive ratchet function allows up to 200mm of take-up.
- Batch numbered for traceability.
- Complies with AS/NZS 4344.
- Winged grab hooks ensure no down-rating.
- Manufactured in China.

Load Binders with Spring Compression

Product Code	Suit Chain Size	Lashing Capacity *		MBL*
	mm	t		t
09026101	7.3 – 8.0	7.3 mm: 3.0	8.0 mm: 3.8	7.6
09026102	10.0	6.0		12.0



Spring Compression Load Binders have been designed for securing the likes of machinery with rubber tyres.

- The compression unit cushions shock and sway as loads are transported.
- The 360° continuous swivel action on both hooks allows a straight line pull.
- Complies with AS/NZS 4344.
- Winged grab hooks ensure no down-rating.
- Manufactured in China.



* Lashing Capacity: Half the Minimum Breaking Load as defined in AS/NZS 4344.

* MBL: The Minimum Breaking Load as defined in the NZ Truck Loading Code.



- Not suitable for lifting applications.
- Cookes recommend against the use of 'cheater bars' to gain additional leverage on Lever Type Load Binders.
- **Warning To Users:** There are currently load binders on the market with hooks claimed to be suitable for all chain sizes from 7.3 mm to 10 mm. A grab hook suitable for 7.3 mm – 8.0 mm chain is not suitable for 10 mm chain. This same principle applies to load binders. Tests have proven that the hooks claimed to suit 7.3 mm to 10 mm can cause premature failure on some chain sizes through inadequate support from the hook wings.

LOAD BINDERS

QUIKBINDER PLUS™

QuikBinder Plus™ Ratchet Load Binders



Product Code	Chain Size mm	Lashing Capacity (t)		MBL t	Take-Up mm	Handle Length (mm)	
		G70	G80			Folded	Straight
09026208	7.3 – 8.0	7.3 mm: 3.0 8.0 mm: 3.8	8.0 mm: 4.0	8.0	150	240	355
09026210	10.0	6.0	6.4	12.8	150	240	355

SECURE YOUR LOAD IN HALF THE TIME

This premium patented ratchet binder is unlike any other binder available on the market today. The ratchet is designed for use with Grade 70 or Grade 80 chains.

The QuikBinder Plus™ is easier to install than standard ratchet load binders. The 3-position pawl offers the user a choice of ratchet extension, ratchet take-up or a 'free spin' setting for fast adjustment in either direction. A load can be secured in half the time. It features a vinyl coated barrel for a strong, comfortable grip.

The folding handle makes the QuikBinder Plus™ safer (no handle sticking out) and more convenient to use. Simply fold the handle down after the load is secured or when storing on your cab rack. Stronger, faster, safer and more functional than standard ratchet binders.

The special hook construction supports the load of the chain and will not bind.


- The QuikBinder Plus™ features special links with controlled flash welds for added safety.
- Certified according to AS/NZS 4344 and EN12195-3.
- Every QuikBinder Plus™ is proof tested to 75% of its Minimum Breaking Load.
- Innovation from Peerless SCC, Germany.




* Lashing Capacity: Half the Minimum Breaking Load as defined in AS/NZS 4344.
 * MBL: The Minimum Breaking Load as defined in the NZ Truck Loading Code.


i Cookes is New Zealand's authorised distributor for the SCC QuikBinder Plus™ – Contact your nearest Cookes branch to view this marvellous ratchet load binder.

To see just how easy to use and functional the amazing QuikBinder Plus™ is, search on YouTube for 'SCC QuikBinder' or use this link:
<https://www.youtube.com/watch?v=ATT-pdDxswE>






Faster to install with the 3-position pawl that offers the user a choice of ratchet extension, ratchet take-up, or a "free-spin" setting for fast adjustment in either direction. Secure your load in half the time!



The QuikBinder™ handle can be locked in the folded position with a long shank padlock, making it tough to tamper with the binder, assembly or the load.



Folding handle makes SCC's QuikBinder™ safer (no handle is sticking out) and more convenient to use. Simply fold the handle down after the load is secure or when storing the QuikBinder™ on your cab rack. Stronger, faster, safer and more functional than standard ratchet handles.

• Not suitable for lifting applications.

LOAD BINDERS

MAXIBINDER® (AUSBINDER)

The patented Maxibinder® combines the actions of a Ratchet Tiedown and a Load Binder into one unit. Ergonomically designed, quick and easy to use, the Maxibinder® is often recommended for the transportation of steel and steel products.

Ratchet Style Maxibinder® (Ausbinder)



Product Code	Recom. Chain Size	Lashing Capacity *	MBL *	Chain Length	Weight
	mm	t	t	m	kg
09026104	8.0	3.8	7.6	0.5	5.0



- Complies with AS/NZS 4344.
- Safe, quick & easy to use.
- 1/8 Chain link length adjustment.
- Alloy steel, heat treated for durability.
- Designed for a higher pre-tension strength.
- Manufactured in China.

RATCHET WEB-DOG

Ratchet Web-Dog Chain Tensioner



Product Code	Recom. Chain Size	Lashing Capacity *	MBL *	Pre-Tension	Width	Length	Weight
	mm	t	t	kg	mm	m	kg
09026105	8.0	3.8	7.6	1,500	50	0.9	4.2

Self-locking ratchet handle to prevent the handle from jumping out; even the greatest vibrations and jolts have no effect. Tension force indicator which allows the operator to check the amount of tension force being applied to the load.

- Complies with AS/NZS 4380.
- Ergo designed ABS ratchet assembly.
- Complete with swivel grab hook each end.
- Controlled release which allows pre-tension force to be released in small steps.
- Ample tension – less than 10% stretch under full tension, meaning no unnecessary re-tensioning during operation.
- Reverse action ratchet maximises ergonomic efficiency.
- Double latch for more tension in less time.
- Durable in all conditions.
- Extended handle for greater leverage.
- Manufactured in Australia.



* Lashing Capacity: Half the Minimum Breaking Load as defined in AS/NZS 4344.

* MBL: The Minimum Breaking Load as defined in the NZ Truck Loading Code.



- Not suitable for lifting applications.
- Always comply with the requirements of the New Zealand Truck Loading Code.

CHAIN CORNERS & FLAGS

CHAIN CORNER PROTECTORS

H.D. Steel Chain Corner Protectors

Product Code	Dimensions (mm)			Finish
	Width	Height	Depth	
09567200	150	120	80	Hot Dip Galvanised



These heavy duty, hot dip galvanised, metal corner protectors are specifically designed to protect cargo from transport chain damage.

- Manufactured from heavy gauge steel.
- Hot dip galvanised for corrosion protection
- Stack neatly for easy storage.
- Manufactured in New Zealand.

Rubber Coated Steel Corner Protectors

Product Code	Dimensions (mm)			Finish	Weight (kg)
	Width	Height	Depth		
09567200R	150	98	75	Rubber Coated	0.70



These heavy duty rubber coated metal corner protectors protect cargo from chain damage.

- Also suitable for use with strapping.
- Manufactured in China.

OVER-DIMENSIONAL BANNERS & WARNING FLAGS

PVC Oversize Banners with Rope Ties

Product Code	Banner Dimensions	
	Width (mm)	Height (mm)
09689150	1,115	355



A bright fluro yellow oversize banner meeting NZTA requirements.

- Supplied with ropes in a handy storage bag.
- Manufactured in New Zealand.

PVC Warning Flags – Bag of 4 pcs

Product Code	Banner Dimensions	
	Width (mm)	Height (mm)
09690100	400	300



4 bright fluro yellow warning flags meeting NZTA requirements.

- Supplied in a handy storage bag.
- Reinforced hole in each corner for tie-off.
- Manufactured in New Zealand.

 • Always comply with the requirements of the New Zealand Truck Loading Code.

HEAVY TRANSPORT LASHING EQUIP

ICE-CURT LASHING CHAIN



DON'T wait for an accident to happen

In many cases the forces that occur during driving are under-estimated and the strength of lashing systems used is over-estimated!

RUD ICE-120 up to 78% higher lashing capacity than conventional G70 systems.

Tensioning, connecting and shortening elements have been considerably improved in terms of weight and functionality. The ergonomic design provides quick and easy handling, faster fitting and a substantial increase in safety.

ICE-120 – in ICE-Pink powder coated – offers significant weight saving for the user.



HEAVY TRANSPORT LASHING EQUIP

ICE-CURT LASHING CHAIN

ICE-CURT Lashing Chain



Product Code	RUD Item No.	Lashing Capacity *	MBL **	Diameter	Ø Required for Equivalent Strength
		t	t	mm	
02398206	ICE-6	3.6	7.2	6	8 mm G70
02398208	ICE-8	6.0	12.0	8	10 mm G70
02398210	ICE-10	10.0	20.0	10	13 mm G80
02398213*	ICE-13	16.0	32.0	13	16 mm G80
02398216*	ICE-16	25.0	50.0	16	20 mm G80



* Available on indent.

Much higher lashing capacity than grade 70 Chain with decisive handling benefits.



- Stamped ICE on every link.
- Stamped BG approval.
- Manufactured in Germany.



Due to RUD's double coating system (pre-treatment and ICE-Pink-Powder Coating) there is a considerably better surface protection than with gold zinc plated chain.



ICE-CURT Strength Comparison to Grade 70 and Grade 80 Chain

Size	ICE-CURT Lashing Capacity (t)	MBL	Grade 70		Grade 80	
		t	LC	MBL	LC	MBL
6	3.6	7.2	2.3	4.6	2.4	4.8
8	6.0	12.0	3.8	7.6	4.0	8.0
10	10.0	20.0	6.0	12.0	6.3	12.6
13	16.0	32.0	9.0	18.0	10.6	21.2
16	25.0	50.0	n.a.	n.a.	16.0	32.0

* Lashing Capacity: Half the Minimum Breaking Load as defined in AS/NZS 4344.

* MBL: The Minimum Breaking Load as defined in the NZ Truck Loading Code.



- To maintain integrity and safety, ICE-CURT should be employed as a complete system and not used in combination with other securing components/devices.
- Always comply with the requirements of the New Zealand Truck Loading Code.

HEAVY TRANSPORT LASHING EQUIP

ICE-CURT RATCHET TENSIONER



05

LASHING CHAINS & ACCESSORIES

ICE-CURT GAKO Ratchet Tensioner



Product Code	RUD Item No.	Suit Chain	Lashing Cap.	L – Open	L – Closed	Reach	Weight
		Ø mm	t	mm	mm		
02398251	ICE-CURT-6-GAKO	6	3.6	400	260	140	1.5
02398252	ICE-CURT-8-GAKO	8	6.0	520	350	170	3.9
02398253	ICE-CURT-10-GAKO	10	10.0	532	362	170	4.3
02398254*	ICE-CURT-13-GAKO	13	16.0	830	530	300	7.6
02398255*	ICE-CURT-16-GAKO	16	25.0	962	612	350	13.4

* Available on indent.

The ICE-CURT GAKO Ratchet Tensioner offers significant weight reduction, improved ergonomics, faster installation and improved safety. Very high lashing capacity and considerably lighter in weight than conventional Grade 70 load binders.

- Spindle & ratchet body with long-term anticorrosive zinc-nickel coating.
- User friendly operation, even with gloves.
- Can be padlocked for anti-theft protection.
- Innovative robust forged design.
- 100% crack tested.
- Easy to clean and lubricate.
- Manufactured in Germany.



The ICE-CURT comes with a magnetic activated locking clutch which is a securing device against release. When used in conjunction with ICE-lashing chains, this offers a tremendous weight saving, improved ergonomics, quicker installation and increased safety.



Locking device open.



Locking device closed.



Locking device closed and secured against thefts.

HEAVY TRANSPORT LASHING EQUIP

THE ICE-CURT ADVANTAGES



ICE Chain

- Grade 12
- 35% tougher, 30% harder
- Up to 78% higher lashing capacity
- Up to 45% lighter

ICE-CURT

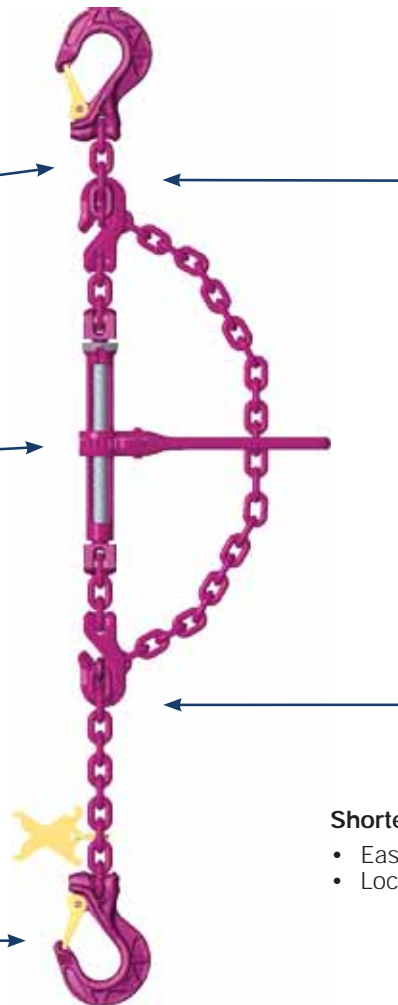
- Convenient anti-loosening device
- Theft protection possible
- Movable on the chain
- Easy, quick handling & maintenance

ICE Identification Tag

- Integrated testing gauge

ICE-Star-Hook

- Robust, forged safety latch
- Patented wear marks



Shortening Devices

- Easy, quick handling
- Locking device by shape



HEAVY TRANSPORT LASHING EQUIP

ICE-CURT CHAIN END FITTINGS

IVH Grab Hook



Product Code	RUD Item No.	LC**	Suit Chain	Dimensions (mm)							Weight
		t	mm	A	B	C	D	E	F	T	kg
02398261	IVH-6	3.6	6	34	18	20	44	7.5	22	53	0.27
02398262	IVH-8	6.0	8	43	24	26	55	9.5	29	67	0.50
02398263	IVH-10	10.0	10	55	30	34	71	12.0	38	86	1.20
02398264*	IVH-13	16.0	13	70	38	43	90	15.0	48	105	2.50
02398265*	IVH-16	25.0	16	86	46	53	110	18.5	59	128	4.50

* Available on indent.

Due to offset lead-in groove chain remains in place even when untensioned.

- No reduction of lashing capacity.
- High dynamic strength.
- Enlarged tip of hook avoids incorrect use.
- Manufactured in Germany.



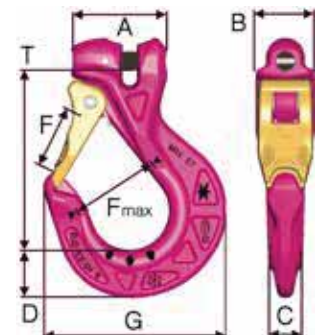
ISH Star Hook

Product Code	RUD Item No.	LC**	Suit Chain	Dimensions (mm)								Weight
		t	mm	A	B	C	D	F	F _{max}	G	T	kg
02398271	ISH-6	3.6	6	48	28	18	26	30	51	97	97	0.69
02398272	ISH-8	6.0	8	45	36	20	29	36	58	112	110	1.1
02398273	ISH-10	10.0	10	71	43	25	37	41	66	135	127	1.9
02398274*	ISH-13	16.0	13	85	52	31	48	50	80	163	153	3.5
02398275*	ISH-16	25.0	16	94	58	38	56	58	96	196	184	5.5

* Available on indent.

The skeletal design ICE-SH Star Hook is up to 25% lighter than Grade 70 hooks of the same lashing capacity, i.e. the next larger size. Patented wear marks show instantly when the hook has reached the statutory allowable wear limit and must be replaced.

- Wear Ribs: Which protect the first chain link into the clevis.
- No protruding tip.
- Forged, tempered and ergonomic safety latch with a triple-coiled, double-leg spring in stainless steel.
- Manufactured in Germany.



For Spare Latch Kits, please refer page 85.

* Lashing Capacity (LC): Half the Minimum Breaking Load as defined in AS/NZS 4344.



• Always comply with the requirements of the New Zealand Truck Loading Code.

HEAVY TRANSPORT LASHING EQUIP

The world's finest high-strength, low weight heavy transport lashing chain and connectors deserve the best lashing points.

Maintain required lashing system integrity by choosing your RUD lashing points from Rud's exclusive New Zealand distributor, Cookes.



VRBS Weld-on



VLBS Weld-on



VLBG Bolt-on

05

LASHING CHAINS & ACCESSORIES



• For specifications on RUD lashing points refer to Lifting Points & Eye Bolts section of this catalogue.



MARINE CHAIN & ACCESSORIES

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SHORT LINK ANCHOR CHAIN

ACCO GRADE 40 ANCHOR CHAIN

Grade 40 Short Link – DIN766 Dimensions



Product Code	ACCO Part No.	Dimensions (mm)			MWL *	Proof Load *	MBL *	Weight	Unit
		Dia	Inside Length	Outside Width	kg	KN	KN	kg/mtr	m/Drum
02611706	8612055	6	18.5	20	560	14.2	22.6	0.8	500
02611707	8612056	7	22	23	750	19.3	30.8	1.0	500
02611708	8612057	8	24	26	1,000	25.2	40.2	1.4	400
02611710	8612058	10	28	34	1,600	39.8	63.0	2.3	250
02611711	8612059	11	31	36	1,935	47.5	76.0	2.7	150
02611713	8612060	13	36	44	2,650	53.1	106.0	3.9	150

World renowned ACCO chain is manufactured in the USA to DIN766 dimensions with loads that are approximately 25-30% higher. DIN766 is a G30 chain – ACCO A4 is Grade 40.

- Extra thick hot dip galvanised finish.
- Certified high strength carbon steel Anchor Windlass Chain.
- Peerless / ACCO full certification available.
- 4:1 minimum design factor.
- Chain embossed 'A4'.
- Manufactured in the USA exclusively for Cookes.



Grade 40 Short Link – EN818-3 Dimensions



Product Code	ACCO Part No.	Dimensions (mm)			MWL *	Proof Load *	MBL *	Weight	Unit
		Dia	Inside Length	Outside Width	kg	KN	KN	kg/mtr	m/Drum
02611810	8612061	10	30	35	1,600	39.8	63.0	2.35	200
02611812	8612062	12	36	40	2,300	56.0	90.5	3.3	150
02611814	8612063	14	42	46	3,140	77.0	123.2	4.4	100



World renowned ACCO chain is manufactured in the USA. This chain is manufactured to EN818-3 specifications. Grade 40 ACCO A40 Chain offers higher working loads than mild steel Grade 30.

- Extra thick hot dip galvanised finish.
- Certified high strength carbon steel anchor chain.
- Peerless / ACCO full certification available.
- 4:1 minimum design factor.
- Chain embossed 'A40'.
- Manufactured in the USA exclusively for Cookes.



- MWL: Maximum Working Loads for guidance only in selection of chain with sufficient strength for intended application.
- Proof Load: A test load applied by the manufacturer – every link receives this test.
- MBL: The minimum load at which the chain will fail.



- Not suitable for lifting applications.
- Always check chain fit or contact your windlass manufacturer before purchase.

SHORT LINK ANCHOR CHAIN

PWB GRADE L ANCHOR CHAIN

PWB ANCHOR HIGHLIGHTS THE SERIOUS BUSINESS OF ANCHOR CHAIN.

PWB Anchor, Australian Manufacturer of Grade L Chain – New Marine Ratings.

In extremely harsh environments, especially stormy weather where shock loading is a common occurrence, the need to use high quality Anchor Chain is crucial for protecting your boat. It could even save lives.

Despite the potential risks, many people continue to use inferior chains in order to save a few dollars.

Features and Benefits of PWB Anchor Grade L Chains.

PWB Anchor Chain is manufactured in short link configuration and meets the requirements of Australian Standard AS2321.

PWB Grade L Chain has a design factor of 4:1 for marine use, which makes it ideal for use as an Anchoring Chain.

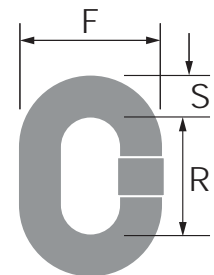
100% proof tested, batch destructively tested and bend tested on links. All chain is stamped and can be identified to Test Certificate and Manufacturer.



Grade L – AS2321 Dimensions



Product Code	PWB Item No.	Size	MWL *	Dimensions (mm)			Weight
		mm	t	S	R	F	kg/m
02611006	40074	6	0.5	6.3	18.8	21.6	0.9
02611008	40076	8	0.8	8.0	23.8	27.0	1.5
02611010	40078	10	1.26	10.0	29.8	34.3	2.3
02611013	40080	13	2.1	12.7	38.0	43.0	3.6
02611016	40082	16	3.2	16.0	47.8	54.9	5.7
02611020	40084	20	5.0	20.0	59.2	68.5	9.0
02611022	40086	22	6.3	22.0	64.9	77.0	10.9



- High quality hot dip galvanised.
- Chain embossed PWB-L.
- Manufactured in accordance with AS2321.
- 4:1 minimum design factor.
- Full certification available.
- Manufactured in Australia.



• MWL: Maximum Working Loads for guidance only in selection of chain with sufficient strength for intended application.

 • Always check chain fit or contact your windlass manufacturer before purchase.

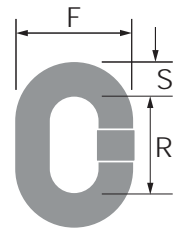
SHORT LINK ANCHOR CHAIN

CHINESE GRADE 30 ANCHOR CHAIN

Short Link – Economy

Product Code	Specification	Size	MWL *	Dimensions (mm)			Weight
		mm	t	S	R	F	kg/m
02611106M	DIN766	6	0.40	6.0	18.5	20.0	0.75
02611107M	DIN766	7	0.50	7.0	22.0	23.0	1.10
02611108M	DIN766	8	0.65	8.0	24.0	26.0	1.35
02611110M	DIN766	10	1.00	10.0	28.0	31.0	2.25
02611112M	EN818	12	1.36	12.0	36.0	40.0	3.10
02611113M	DIN766	13	1.80	13.0	36.0	47.0	3.90
02611114M	DIN766	14	2.30	14.0	41.0	47.0	4.50
02611116M	DIN766	16	3.00	16.0	45.0	54.0	5.70

- DIN766 or EN818 (12mm only) dimensions as detailed above.
- Hot dip galvanised finish.
- Test certificates available.
- Manufactured in China.



• MWL: Maximum Working Loads for guidance only in selection of chain with sufficient strength for intended application.



• Not suitable for lifting applications.

ANCHOR CHAIN COMPONENTS

ACCO OVAL CONNECTING LINKS

Grade 30 Oval Connecting Links



Product Code	ACCO Part No.	Trade Size		MWL *	Dimensions (in)		Weight gm
		in	mm		A	B	
02643306	440840403	1/4	6	590	0.88	0.44	25
02643308	440840503	5/16	8	862	0.94	0.50	50
02643310	440840603	3/8	10	1,202	1.20	0.56	80
02643312	440840802	1/2	13	2,042	1.44	0.66	160
02643316	6800035	5/8	16	4,535	1.89	0.78	340



- Designed for joining short link mild steel chain.
- Fully hot dip galvanised.
- 4:1 minimum design factor.
- Certification available.
- Quality connecting links from Peerless ACCO, USA.

06

MARINE CHAIN & ACCESSORIES

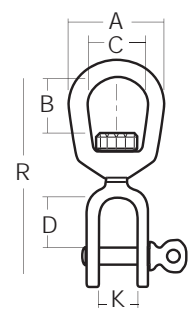
ACCO FORGED ANCHOR SWIVELS

Forged Jaw-Eye Anchor Swivels



Product Code	ACCO Part No.	Trade Size		MWL *	Dimensions (in)							Weight gm
		in	mm		A	B	C	K	D	Ø Pin	R	
02122006	8171241	1/4	6	386	1,250	0,688	0,750	0,469	0,875	0,250	2,625	95
02122008	8171341	5/16	8	567	1,625	0,813	1,000	0,500	0,875	0,313	2,938	145
02122009	8171441	3/8	10	1,021	2,000	0,938	1,250	0,625	1,063	0,375	3,625	275
02122013	8171541	1/2	13	1,634	2,500	1,313	1,500	0,750	1,313	0,500	4,500	560
02122016	8171641	5/8	16	2,360	3,000	1,563	1,750	0,938	1,500	0,625	5,313	1,160

- Drop Forged.
- Fully hot dip galvanised.
- 4:1 minimum design factor.
- Certification available.
- Quality anchor swivels from Peerless ACCO, USA.



• MWL: Maximum Working Loads for guidance only in selection of components with sufficient strength for intended application.



• Not suitable for lifting applications.

STUD LINK ANCHOR CHAIN

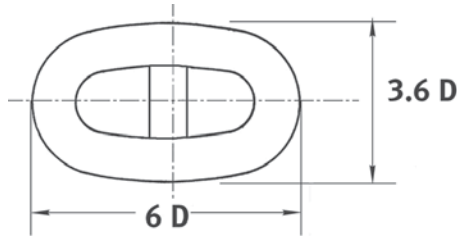
GENERAL INFORMATION

Stud Link Anchor Chain

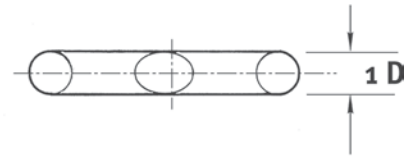
Stud Link Anchor Chain is cross-braced on each link to provide increased strength and resistance to crushing. The individual links are named Common Links, with a standard full chain length of 27.5m referred to as a shot or a cable.



Common Link (C)



Common Link (C) with Dimensions



Note: D = Chain material diameter.

Chain shots are usually joined using Kenter Joining Shackles.

Stud Link Chain is most commonly used on larger ocean going vessels such as merchant ships, commercial fishing vessels and super yachts.

Stud Link Anchor Chain conforms with Standard ISO1704 and is supplied with Lloyds (LR) certification. Other approvals are available on request.

- Available in self-colour or hot dip galvanised finish.
- Manufactured in China.



• Not suitable for lifting applications.

STUD LINK ANCHOR CHAIN

STUD LINK CHAIN STRENGTH TABLE

Strength Table For Grades U2 & U3

Chain Diameter		Grade U2 (kg)		Grade U3 (kg)	
mm	in	Proof Load	Breaking Load	Proof Load	Breaking Load
12.5	1/2	6,700	9,400	9,400	13,500
14.0	9/16	9,400	11,800	11,800	16,800
16.0	5/8	10,900	15,300	15,300	22,000
17.5	11/16	13,000	18,300	18,300	26,100
19.0	3/4	15,300	21,500	21,500	30,700
20.5	13/16	17,800	24,900	24,900	35,600
22.0	7/8	20,400	28,600	28,600	40,900
24.0	15/16	24,200	33,900	33,900	48,500
26.0	1.0	28,300	39,700	39,700	56,700
28.0	1-1/8	32,700	45,800	45,800	65,500
30.0	1-3/16	37,500	52,400	52,400	74,900
32.0	1-1/4	42,500	59,400	59,400	84,900
34.0	1-5/16	47,700	66,800	66,800	95,600
36.0	1-7/16	53,300	74,600	74,600	107,000
38.0	1-1/2	59,200	82,800	82,800	118,000
40.0	1-9/16	65,300	91,400	91,400	131,000
42.0	1-5/8	71,700	100,000	100,000	143,000
44.0	1-3/4	78,400	110,000	110,000	157,000
46.0	1-13/16	85,300	119,000	119,000	171,000
48.0	1-7/8	92,600	130,000	130,000	185,000
50.0	2.0	100,000	140,000	140,000	200,000
52.0	2-1/16	108,000	151,000	151,000	215,000
54.0	2-1/8	116,000	162,000	162,000	231,000
56.0	2-3/16	124,000	174,000	174,000	248,000
58.0	2-5/16	132,000	185,000	185,000	265,000
60.0	2-3/8	141,000	198,000	198,000	282,000
62.0	2-7/16	150,000	210,000	210,000	300,000
64.0	2-1/2	159,000	223,000	223,000	319,000
66.0	2-5/8	169,000	236,000	236,000	337,000
68.0	2-11/16	178,000	250,000	250,000	357,000
70.0	2-3/4	188,000	263,000	263,000	376,000
73.0	2-7/8	203,000	285,000	285,000	407,000
76.0	3.0	219,000	307,000	307,000	438,000



Self Colour finish



Hot Dip Galvanised finish

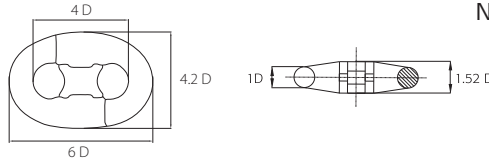


• Not suitable for lifting applications.

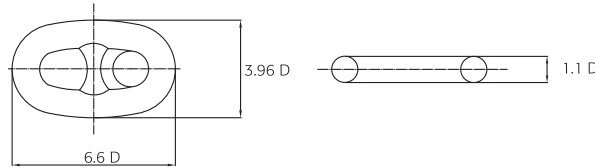
STUD LINK ANCHOR CHAIN

STUD LINK COMPONENTS

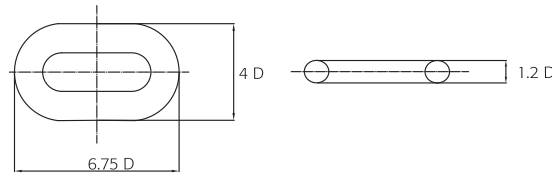
Note: D = Chain material diameter.



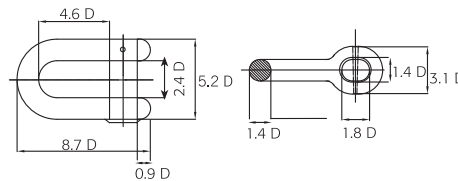
Kenter Shackle (KS): A joining shackle used to join two stud link chain elements together.



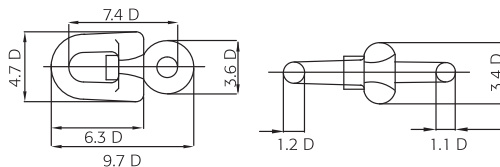
Enlarged Link (EL): The Enlarged Link is most often used to connect an End Link and Swivel to a Common Link.



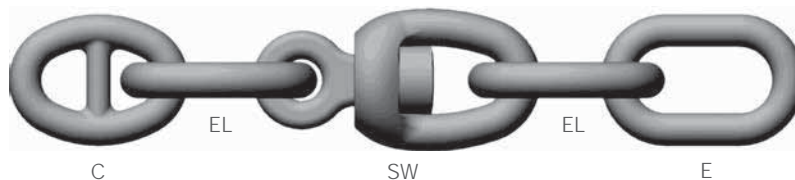
End Link (E): The studless End Link is designed to accept components such as Anchor Shackles.



D-Type Anchor Shackle (AS): The D-Type Anchor Shackle is used to connect the stud link chain to the anchor.



Swivel (SW): The Swivel is most commonly supplied as an assembly known as a Swivel Forerunner which consists of: Common Link (C) + Enlarged Link (EL) + Swivel (SW) + Enlarged Link (EL) + End Link (E)



The Common Link (C) connects to another Common Link (C) in the main Anchor Chain by means of a Kenter Shackle (KS). At the other end, the studless End Link (E) allows connection to an Anchor Shackle (AS).

- Components supplied with Lloyds certification.
- Available in self colour or galvanised finish.
- All stud link chain and components imported to order.
- Manufactured in China.



• Not suitable for lifting applications.

STUD LINK ANCHOR CHAIN

STUD LINK CHAIN & COMPONENT WEIGHTS

Approximate Weights Table

Diameter	Stud Link Chain Weight		Common Link	Enlarged Link	End Link	Joining Shackle Kenter	Joining Shackle Type D	Anchor Shackle Type D	Swivel
	mm	kg/m							
12.5	3.5	96	0.17	0.23	0.23	0.39	0.8	1.1	0.9
14.0	4.4	121	0.24	0.32	0.36	0.51	1.1	1.3	1.3
16.0	5.8	160	0.36	0.50	0.51	0.62	1.3	1.6	1.7
17.5	7.0	193	0.47	0.74	0.68	0.82	1.6	2.0	2.1
19.0	8.1	223	0.60	0.88	0.89	1.00	1.8	2.5	2.5
20.5	10.0	275	0.75	1.10	1.13	1.35	2.1	3.3	3.1
22.0	11.1	305	0.93	1.25	1.28	1.6	2.5	4.0	3.5
24.0	13.3	366	1.21	1.70	1.77	2.0	3.5	5.0	5.0
26.0	15.7	432	1.55	2.15	2.2	2.7	4.3	6.0	6.0
28.0	18.3	503	1.9	2.8	2.9	3.3	5.0	8.0	7.5
30.0	21.0	578	2.4	3.2	3.3	3.9	7.0	9.5	9.0
32.0	23.9	657	2.9	3.9	4.0	4.6	7.5	12.0	11.0
34.0	27.0	743	3.4	4.7	5.0	5.8	9.5	14.0	13.5
36.0	30.2	831	4.0	5.5	5.9	6.6	11.0	17.0	16.0
38.0	33.7	927	4.7	6.1	6.8	7.8	13.0	20.0	19.0
40.0	37.1	1,020	5.5	7.1	8.0	9.1	15.0	23.0	23.0
42.0	40.5	1,114	6.4	8.4	9.6	10.5	17.5	26.0	27.0
44.0	44.3	1,218	7.4	10.0	11.2	12.2	20.0	29.0	32.0
46.0	48.5	1,334	8.5	11.5	13.0	14.0	22.5	33.0	37.0
48.0	52.8	1,452	9.8	13.1	15.0	16.0	26.0	37.0	44.0
50.0	57.0	1,568	11.0	15.0	17.0	18.0	29.0	41.0	57.0
52.0	62.0	1,705	13.0	17.0	20.0	20.0	31.0	45.0	57.0
54.0	66.0	1,815	14.0	19.0	22.0	20.0	34.0	50.0	67.0
56.0	71.0	1,953	16.0	21.0	23.0	24.0	38.0	54.0	67.0
58.0	77.0	2,118	17.0	23.0	25.0	28.0	44.0	65.0	80.0
60.0	83.0	2,283	19.0	25.0	27.0	28.0	48.0	70.0	95.0
62.0	88.0	2,420	21.0	28.0	30.0	33.0	52.0	76.0	95.0
64.0	94.0	2,585	23.0	31.0	34.0	38.0	57.0	82.0	112.0
66.0	100.0	2,750	25.0	34.0	38.0	38.0	66.0	94.0	130.0
68.0	107.0	2,943	27.0	37.0	42.0	44.0	70.0	101.0	130.0
70.0	114.0	3,135	30.0	40.0	45.0	44.0	75.0	108.0	152.0
73.0	124.0	3,410	34.0	45.0	52.0	51.0	87.0	124.0	172.0
76.0	135.0	3,713	39.0	50.0	59.0	58.0	99.0	141.0	194.0

Note: Larger diameter chain and components available on request.



• Not suitable for lifting applications.

MOORING CHAIN & COMPONENTS

MOORING CHAINS

PROOF COIL CHAINS ARE NOT ALL CREATED EQUAL!

PWB Anchor utilises steel from OneSteel's integrated steel mill at Whyalla, South Australia. These Blast Furnace steels deliver the integrity required in demanding chain applications. With a controlled chemistry and refined grain structure, PWB Anchor can provide the right product to operate at the same critical levels time after time.

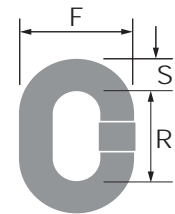
Steel integrity is the hidden element not always considered in a mooring chain purchasing decision, but by choosing PWB Anchor chain you are building in security of product performance, safety and operating life of your chain.

Cookes is proud to offer the highest quality regular link self colour proof coil chain manufactured by PWB Anchor, Australia in sizes 10mm through 24mm.

Regular Link Proof Coil Chain Self Colour



Product Code	PWB Item No.	Size	MWL*	Dimensions (mm)			Weight
		mm	t	S	R	F	kg/m
02609010	40029	10	0.86	9.5	43.4	35.5	1.70
02609013	40034	13	1.50	12.0	51.7	44.5	2.80
02609016	40038	16	2.31	16.0	59.6	57.3	5.30
02609020	40040	20	3.67	20.0	73.3	71.0	8.15
02609024	40042	24	5.34	24.0	87.0	84.8	11.60



Manufactured from a low grade carbon steel, this versatile range of chain is proof tested to at least twice the maximum load recommended for normal use.

- Manufactured in Australia.

Stud Link Mooring Chain

Product Code	Chain Ø	Approximate Breaking Load	Approximate Weight
	mm	t	kg/m
02600032	32	35	20
02600040	40	55	35
02600050	50	90	50



Most commonly used as bottom chain on a swing mooring to provide required weight and strength, particularly in heavy tides.

- New chain manufactured specifically for mooring or aquaculture applications.
- No variable dimensions as often found with second-hand stud link chains.
- Manufactured in China for Cookes.

- MWL: Maximum Working Loads for guidance only in selection of chain with sufficient strength for intended application.



• Not suitable for lifting applications.
 • Stud Link Mooring Chain is specifically manufactured for that application and is not suitable for ship's anchor chain use.

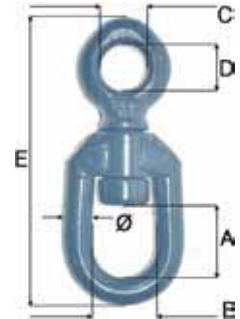
MOORING CHAIN & COMPONENTS

MOORING SWIVELS

Blueline® Forged Eye-Eye Swivels – FOC Model



Product Code	Blueline Item No.	Size	MWL*	Dimensions (mm)					Weight kg
		Ømm	t	A	B	C	D	E	
17393116	A 16 FOC	16	2.4	30	28	22	22	150	0.87
17393119	A 19 FOC	19	3.8	42	40	28	28	185	1.30
17393122	A 22 FOC	22	5.3	57	48	34	34	230	2.20
17393125	A 25 FOC	25	7.2	63	52	37	37	265	3.65
17393128	A 28 FOC	28	9.0	65	52	37	37	280	4.30

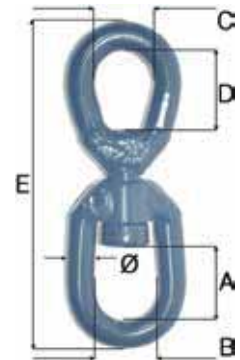


- Forged Alloy Steel.
- From the famous Blueline® range.
- 5:1 design factor.
- Blue painted finish.

Blueline® Forged Eye-Eye Swivels – ST Model



Product Code	Blueline Item No.	Size	MWL*	Dimensions (mm)					Weight kg
		Ømm	t	A	B	C	D	E	
17393101	A 10 ST	10	0.6	32	28	25	31	123	0.23
17393102	A 12 ST	12	1.1	35	30	28	33	140	0.40

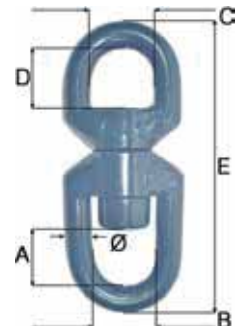


- Forged Alloy Steel.
- From the famous Blueline® range.
- 5:1 design factor.
- Blue painted finish.

Blueline® Forged Eye-Eye Swivels – STC Model



Product Code	Blueline Item No.	Size	MWL*	Dimensions (mm)					Weight kg
		Ømm	t	A	B	C	D	E	
17393132	A 32 STC	32	12.5	60	57	55	50	305	7.20
17393138	A 38 STC	38	15.4	72	60	55	55	340	9.90



- Forged Alloy Steel.
- From the famous Blueline® range.
- 5:1 design factor.
- Blue painted finish.

• MWL: Maximum Working Loads for guidance only in selection of chain with sufficient strength for intended application.



The famous Blueline® Swivels have been manufactured to high quality standards by the Markussen family in Denmark for over 40 years, and are proudly distributed in New Zealand by Cookes.



• Not suitable for lifting applications.

MOORING CHAIN & COMPONENTS

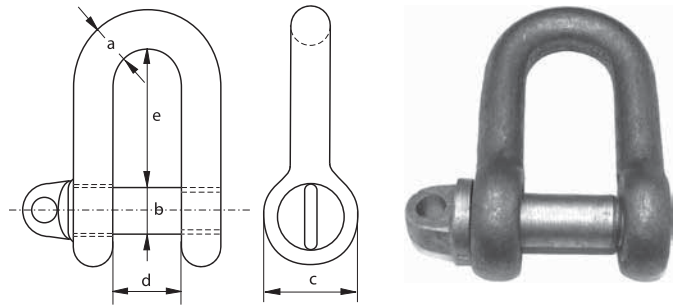
MOORING CHAIN SHACKLES

Self Colour Mild Steel Large Dee Shackles – Screw Pin

Product Code	Dimensions (mm)					Weight
	a	b	c	d	e	kg
02298016	16	16	32	32	64	0.48
02298019	19	19	38	38	76	0.95
02298022	22	22	44	44	88	1.26
02298026	25	25	50	50	100	1.85
02298029	28	28	56	56	112	2.60
02298032	32	32	64	64	128	3.68
02298035	35	35	70	70	140	5.00
02298038	38	38	76	76	152	6.50

These self-colour mild steel dee shackles are designed specifically for connection to self-colour mild steel chains in mooring applications to reduce the possibility of galvanic corrosion.

- Mild steel, grade 30.
- Uncertified.
- Self colour finish.
- Manufactured in China.



• Check with your Cookes branch if dimensions are critical for intended application.



• Commercial grade uncertified shackles must never be used for lifting applications.

MOORING CHAIN & COMPONENTS

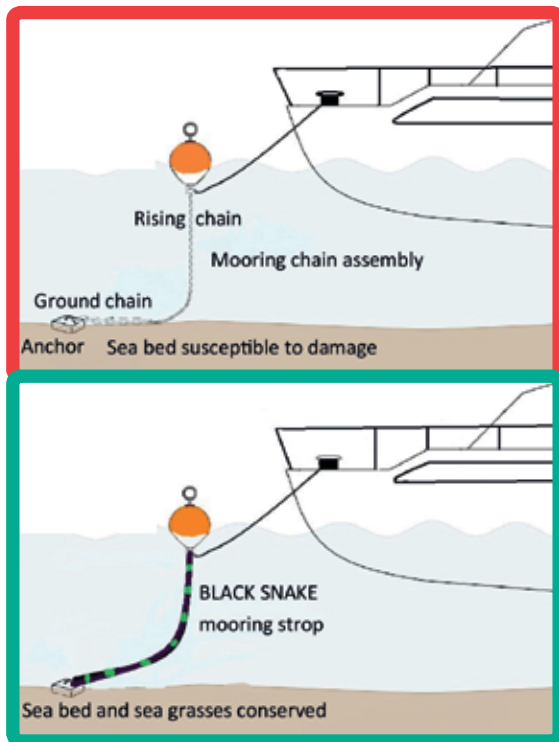


BLACK SNAKE MOORING STROP

An Environmentally Sensitive Alternative to Chain.

Black Snake Nylon Mooring Strops replace ground/rising chains and are ideal for marine mooring applications. Unlike chains, the Black Snake Mooring Strops minimize damage to the sea bed's vegetation around the mooring block/anchor. The smooth stretch of the nylon core absorbs shock loads in the wave and tidal conditions of the marine environment.

The embedded thimbles (heavy duty galvanized or stainless) eliminate fraying of the nylon fibres and the thick rubber cover maintains the full strength of the nylon in salt water and also protects the thimbles. Approved by Parks Victoria in Australia for installation in Victoria's bays and recently introduced to New Zealand by Cookes.



Features

- Friendly to the marine environment.
- Abrasion/cut resistant rubber protects the inner nylon fibres from the elements and keeps out water, mud and creatures. The Mooring Strop is UV stabilised and salt water resistant allowing it to be virtually maintenance free for years.
- High strength Nylon 6.6 core with smooth stretch up to 20%.
- Very flexible and light weight and suitable with various attachment devices.
- Easy to install with galvanised thimble eyelets embedded into the rubber casing. Heavy duty stainless steel thimbles also available on request for 8 and 12 tonne strops.
- Special thimble eye configurations can be requested.
- Manufactured in Australia.



Breaking Load & Weight Chart

	8 Tonne	12 Tonne	20 Tonne	30 Tonne	50 Tonne
4 Metre Length	4 kg	5 kg	6 kg	10 kg	17 kg
6 Metre Length	5 kg	6 kg	8 kg	12 kg	20 kg
10 Metre Length	7 kg	9 kg	12 kg	18 kg	32 kg
15 Metre Length	10 kg	12 kg	16 kg	25 kg	42 kg
20 Metre Length	13 kg	15 kg	21 kg	30 kg	56 kg
A.S. 1138 Galvanised Thimble Size	22mm	22mm	24mm	28mm	36mm
Stainless 316 Heavy Duty Steel Thimble Option	19mm	19mm	—	—	—

Break strength is the applied load at which the mooring strop fails. Higher break strengths up to 100t and different lengths up to 20m available.

Black Snake Mooring Strops are supplied to order from Australia.

TRAWL CHAIN & COMPONENTS

GRADE 80 TRAWL CHAIN

Cookes is proud to be New Zealand's authorised distributor for Peerless ACCO (American Chain Company). The ACCO brand name and high quality chain has maintained a strong presence in the marine industry since 1912 and remains a market leader today.

Mid Link Trawl Chain



Product Code	ACCO Item No.	Size	MBL *	Dimensions (mm)		Weight
		mm	t	Inside Length	Inside Width	kg/m
02635013P	TML13-8	13	21.4	52	22	3.4
02635016P	TML16-8	16	32.2	64	24	5.1
02635019P	TML19-8	19	45.4	76	29	7.2

- Grade 80 high strength special steel hardened and tempered.
- Black surface finish.
- Excellent resistance to shock loading and wear.
- Manufactured in the USA.



Long Link Trawl Chain



Product Code	ACCO Item No.	Size	MBL *	Dimensions (mm)		Weight
		mm	t	Inside Length	Inside Width	kg/m
02636009P	TLL9-8	9	10.2	53	15	1.4
02636011P	TLL11-8	11	15.4	64	19	2.2
02636013P	TLL13-8	13	21.4	80	23	2.9
02636016P	TLL16-8	16	32.2	100	26	4.4

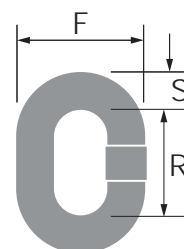
- Grade 80 high strength special steel hardened and tempered.
- Black surface finish.
- Excellent resistance to shock loading and wear.
- Manufactured in the USA.

Mid Link Trawl Chain – 22mm



Product Code	ACCO Item No.	Size	MBL *	Dimensions (mm)			Weight
		mm	t	S	R	F	kg/m
02635022	MLL22-8	22	61	22	88	76	9.4

- Grade 80 special alloy steel, hardened and tempered.
- Self colour finish.
- Manufactured in Norway.



* MBL: Minimum Breaking Load.



• Not suitable for lifting applications.

TRAWL CHAIN & COMPONENTS

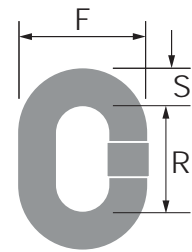
GRADE 80 TRAWL CHAIN (AUSTRALIAN MADE)

Cookes is proud to distribute quality Australian manufactured PWB Anchor Trawl Chain. PWB Anchor offers over 90 years of manufacturing expertise.

Mid Link Trawl Chain



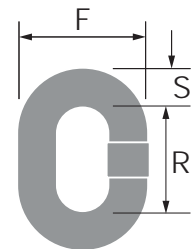
Product Code	PWB Item No.	Chain Size	MBL	Dimensions (mm)			Weight
		mm	t	S	R	F	kg/m
02635113	42520	13	21.6	12.7	50.8	45.8	3.0
02635216	42018	16	32.7	16.0	59.6	57.3	5.1
02635219	42019	19	46.2	19.0	76.0	66.5	7.2



Long Link Trawl Chain



Product Code	PWB Item No.	Chain Size	MBL	Dimensions (mm)			Weight
		mm	t	S	R	F	kg/m
02636213	42017	13	21.6	12.7	80.5	49.0	2.9



PWB Trawl Chain is suitable for all methods of commercial fishing.

- Specialised heat treatment process ensures high strength.
- Maximum hardness (36-40Rc) to avoid hydrogen embrittlement.
- All PWB trawl chain embossed with TRAWL-80.
- Manufactured in Australia.

06
MARINE CHAIN & ACCESSORIES

• Not suitable for lifting applications.

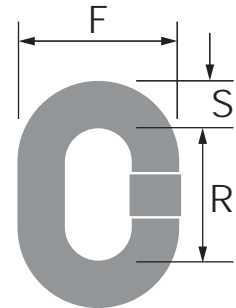
TRAWL CHAIN & COMPONENTS

GRADE 95 TRAWLEX® CHAIN

Mid Link Trawl Chain



Product Code	Size	MBL *	Dimensions (mm)			Weight
	mm		S	R	F	
02400516	16	41.0	16	64	54.5	4.90
02400519	19	57.0	19	76	65.0	6.95



*MBL = Minimum Breaking Load

Crosby Trawlex® trawl chain with improved resistance to stress corrosion and materials optimised for low temperature conditions.

- Manufactured from high strength, wear and shock resistant special steel.
- Self colour finish.
- Manufactured in France.

06

MARINE CHAIN & ACCESSORIES



• Not suitable for lifting applications.

TRAWL CHAIN & COMPONENTS

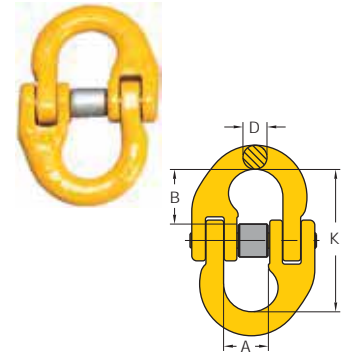
GRADE 80 CONNECTING LINKS

Yoke Connectors maintain the strength and integrity of your Grade 80 Trawl Chain. Tested and certified, and available in painted or Dacromet® Corrosion protected finish.

Connector – Painted Finish



Product Code	MBL*	Chain Dia. mm	Dimensions (mm)				N. W. kg
	t		A	B	D	K	
02459010	12.6	10	25	26	11	68	0.3
02459013	21.2	13	30	35	16	91	0.7
02459016	32.0	16	36	38	19	100	1.1
02459019	50.0	19	42	46	22	122	1.9



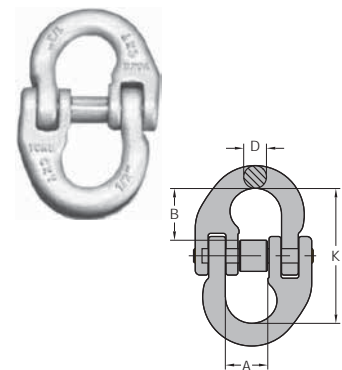
* MBL = Minimum Breaking Load

- Spare pins and bush sets available.
- Manufactured in Taiwan.

Connector with Dacromet® Surface Finish



Product Code	MBL*	Chain Dia. mm	Dimensions (mm)				N. W. kg
	t		A	B	D	K	
02459310	12.6	10	25	26	11	68	0.3
02459313	21.2	13	30	35	16	91	0.7
02459316	32.0	16	36	38	19	100	1.1
02459319	50.0	18, 20	42	46	22	122	1.9
02459322	60.0	22	49	59	24	152	3.0
02459326	84.8	26	55	62	30	162	4.6



* MBL = Minimum Breaking Load

- With smooth pin specifically designed for marine applications.
- Spare pins and bush sets available.
- Manufactured in Taiwan.

?

Dacromet® is a time proven coating system that does not require acid pickling or involve electroplating. Dacromet® offers excellent corrosion protection.

Salt Spray Test (ISO9227)

- 240 hours without white rust.
- 600 hours without red rust.



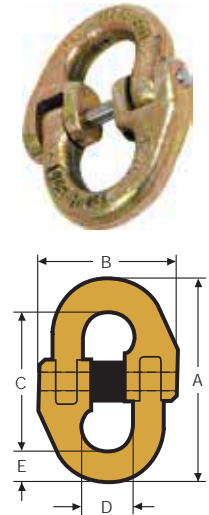
TRAWL CHAIN & COMPONENTS

GRADE 85 PLUS CONNECTING LINKS

Trawlex Connecting Links



Product Code	Trawlex Item No.	ABL*	Dimensions (mm)					Weight
		t	A	B	C	D	E	kg
02419007	TL7	7.0	67	47	48	14.3	9	0.11
02419010	TL10	16.9	89	63	64	19.2	13	0.36
02419013	TL13	25.7	118	84	85	26.5	17	0.66
02419016	TL16	36.0	144	95	106	32.0	19	1.08
02419019	TL19	49.0	168	114	122	38.5	23	1.77
02419023	TL23	73.8	206	140	150	49.0	28	2.80
02419026	TL26	92.0	230	160	166	57.0	32	4.40
02419032	TL32	144.0	278	209	200	63.0	39	8.40



* ABL: Average Breaking Load; based on destruction tests taken over 8 years of manufacture (2008 – 2015).

Crosby Trawlex® Grade 85 Plus Connectors. Designed for the rigours of deep sea fishing.

- Improved resistance to stress corrosion.
- Spare Pins and Bush Sets available.
- Manufactured in the U.K.

06

MARINE CHAIN & ACCESSORIES



TL Connectors may also be used for lifting applications as a Grade 80 component – refer page 18 for Working Load Limits (WLL).



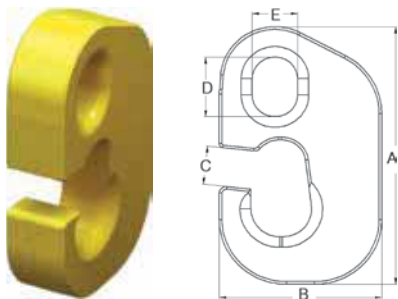
TRAWL CHAIN & COMPONENTS

G HOOKS & RECESSED LINKS

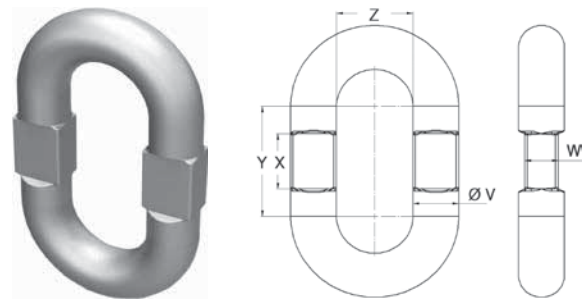
G Hooks



Product Code	Plate Thick	Dimensions (mm)					Suit Recessed Link
	mm	A	B	C	D	E	Product Code
07515016	16	151	90	18	31	21	07520022
07515026	25	195	107	23	45	33	07520032
07515040	40	195	118	29	45	33	07520036
07515045	45	230	130	33	60	46	07520038



G Hook



Recessed Link

Recessed Links



Product Code	Material Ø	Dimensions (mm)					Suit G Hook
	mm	Ø V	W	X	Y	Z	Product Code
07520022	22	22	15	20	100	50	07515016
07520032	32	32	19	30	125	50	07515026
07520036	36	36	26	45	90	60	07515040
07520038	38	39	30	50	100	62	07515045

- Designed to suit the demands of commercial trawling.
- Manufactured in New Zealand.



• Not suitable for lifting applications.

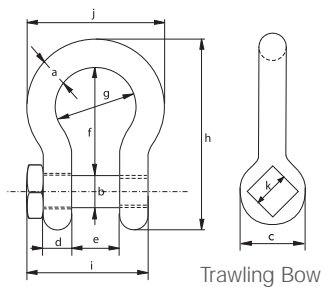
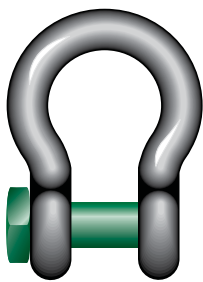
TRAWL CHAIN & COMPONENTS

HI-LOAD TRAWL SHACKLES

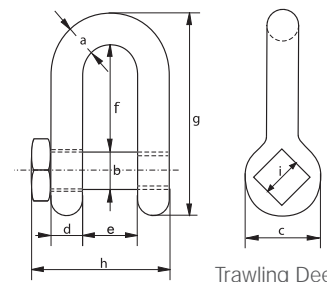
Green Pin® Trawling Bow – Square Headed Screw Pin



Product Code	WLL	Dimensions (mm)											Weight kg
	t	a	b	c	d	e	f	g	h	i	j	k	
02314322	4.75	19	22	46	19	31	76	51	129	82	89	32	1.00
02314326	6.50	22	25	52	22	36	83	58	144	93	102	32	1.44
02314328	8.50	25	28	59	25	43	95	68	164	108	118	36	2.21
02314332	9.50	28	32	66	28	47	108	75	185	120	131	41	3.18
02314335	12.00	32	35	72	32	51	115	83	201	137	147	50	4.32
02314338	13.50	35	38	80	35	57	133	92	227	149	162	50	5.67
02314342	17.00	38	42	88	38	60	146	99	249	164	175	60	7.36
02314351	25.00	45	50	103	45	74	178	126	300	192	216	60	12.38



Trawling Bow



Trawling Dee

Green Pin® Trawling Dee – Square Headed Screw Pin



Product Code	WLL	Dimensions (mm)										Weight kg
	t	a	b	c	d	e	f	g	h	i		
02314216	2.00	13.5	16	34	13	22	43	81	57.5	22	0.32	
02314219	3.25	16	19	40	16	27	51	97	71	27	0.58	
02314222	4.75	19	22	46	19	31	59	112	82	32	0.92	
02314225	6.50	22	25	52	22	36	73	134	93	32	1.33	
02314228	8.50	25	28	59	25	43	85	154	108	36	2.03	
02314232	9.50	28	32	66	28	47	90	167	120	41	2.88	
02314235	12.00	32	35	72	32	51	94	180	137	50	3.96	
02314238	13.50	35	38	80	35	57	115	209	149	50	5.24	
02314242	17.00	38	42	88	38	60	127	230	164	60	6.80	

The highest quality trawl shackles with exceptional strength to weight ratio.

- 6:1 design factor.
- Hot dipped galvanised finish.
- Certification available.
- Manufactured in The Netherlands.



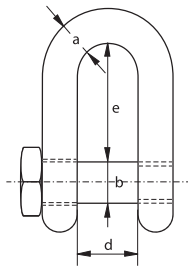
TRAWL CHAIN & COMPONENTS

MILD STEEL TRAWL SHACKLES

Self Colour Dee Trawl Shackles – Square Headed Screw Pin

Product Code	Dimensions (mm)					Weight
	a	b	c	d	e	kg
02314009	10	10	20	20	40	0.12
02314013	12	12	24	24	48	0.21
02314016	16	16	32	32	64	0.49
02314019	19	19	38	38	76	0.96
02314022	22	22	44	44	88	1.28
02314026	25	25	50	50	100	1.88
02314028	28	28	56	56	112	2.65

- Mild steel, Grade 30 material.
- Uncertified.
- Self coloured finish.
- Manufactured in China.



• Check with your Cookes branch if dimensions are critical for intended application.



• Not suitable for lifting applications.

TUNA NET CHAIN

ACCO TUNA CHAIN

Hot Dip Galvanised Tuna Net Chain



Product Code	ACCO Item No.	Dimensions (mm)			MWL **	Weight (kg)		Length (m)
		Diameter	Inside Length	Inside Width		t	m	Drum
02614010*	520140692	10	33.8	14.5	3.00	2.2	268	122
02614011*	520140792	12	34.8	19.1	3.97	3.2	291	91
02614013*	520140892	13	43.7	19.1	5.12	3.8	232	61
02614014*	520140992	14	43.2	21.6	5.50	4.5	275	61
02614016*	520141092	16	49.3	23.1	7.17	5.7	257	45

* Available on indent.

**MWL: Maximum Working Loads for guidance only in selection of chain with sufficient strength for intended application.

THE BEST CHAIN FOR A TOUGH JOB

ACCO uses high quality steel, especially formulated and heat treated for tuna fishing. Every heat treated lot is sampled and destructively tested for material strength and link elongation – assuring compliance to designed criteria. All Tuna Net Chain is then proof tested, 100%, every link.

The ACCO Tuna Net Chain is continuously hot dip galvanised to provide the deep strong protective coating you have come to expect which has over 30% more zinc per unit volume than mechanical coating.

In the hot dip process, the galvanised zinc coating is alloyed with the base steel creating a metallurgical bond that is several orders of magnitude stronger than mechanical bonding.

- Manufactured in the USA.



• Not suitable for lifting applications.





GENERAL PURPOSE & SPECIALTY CHAINS

General Purpose Chain	250
Short Link Galvanised	250
Regular Link Galvanised	251
Regular Link Self Colour	252
Long Link Galvanised	253
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GENERAL PURPOSE CHAIN

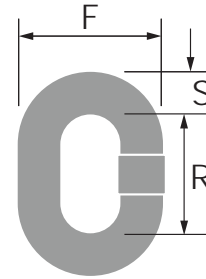
SHORT LINK GALVANISED

Short Link – Mild Steel

Product Code	Size	MWL *	Dimensions (mm)			Weight kg/m
	mm		S	R	F	
02611106M	6	0.40	6.0	18.5	20.0	0.75
02611107M	7	0.50	7.0	22.0	23.0	1.10
02611108M	8	0.65	8.0	24.0	26.0	1.35
02611110M	10	1.00	10.0	28.0	31.0	2.25
02611112M	12	1.36	12.0	36.0	40.0	3.10
02611113M	13	1.80	13.0	36.0	47.0	3.90
02611114M	14	2.30	14.0	41.0	47.0	4.50



- Hot dip galvanised finish.
- Test certificates available.
- Manufactured in China.



07

GENERAL PURPOSE &
SPECIALTY CHAINS

• MWL: Maximum Working Loads for guidance only in selection of chain with sufficient strength for intended application.



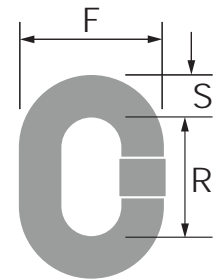
• Not suitable for lifting applications.

GENERAL PURPOSE CHAIN

REGULAR LINK GALVANISED

Regular Link – 3mm to 5mm

Product Code	Size	MWL*	Dimensions (mm)			Weight kg/m
	mm		S	R	F	
02605403	3	60	3.0	16.6	13.1	0.17
02605404	4	110	3.8	19.6	15.8	0.27
02605405	5	190	4.75	23.2	19.1	0.42

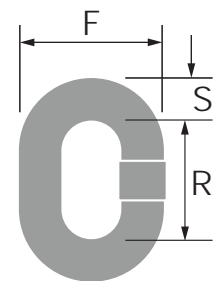


- Small diameter chains for general purpose use.
- Hot dip galvanised finish.
- Manufactured in China.

Regular Link – 6mm to 24mm



Product Code	PWB Item No.	Size	MWL*	Dimensions (mm)			Weight kg/m
		mm		S	R	F	
02605006	40021	6	0.32	6.0	28.0	24.0	0.74
02605008	40026	8	0.53	7.6	35.8	29.2	1.14
02605010	40031	10	0.86	9.5	43.4	35.5	1.73
02605013	40036	13	1.50	12.0	51.7	44.5	2.89
02605016	40039	16	2.31	16.0	59.6	57.3	5.40
02605020	40041	20	3.67	20.0	73.3	71.0	8.35
02605024	40043	24	5.34	24.0	87.0	84.8	11.90



The PWB Anchor range of Proof Coil Chain manufactured in Australia is from low grade carbon steel and available in a variety of link dimensions. Suitable for a wide range of applications across the manufacturing, marine and agricultural industries, this versatile range of chain is proof tested to half of the minimum breaking load.

- Designed with link dimensions suitable for a wide variety of general purpose uses.
- Hot dip galvanised finish.
- Manufactured in Australia.

• MWL: Maximum Working Loads for guidance only in selection of chain with sufficient strength for intended application.



PROOF COIL CHAINS ARE NOT ALL CREATED EQUAL!



PWB Anchor utilises steel from OneSteel's integrated steel mill at Whyalla, South Australia. These Blast Furnace steels deliver the integrity required in demanding chain applications. With a controlled chemistry and refined grain structure, PWB Anchor can provide the right product to operate at the same critical levels time after time.

Steel integrity is the hidden element not always considered in a general purpose chain purchasing decision, but by choosing PWB Anchor chain you build in security of product performance, safety and operating life of your chain.

Cookes is proud to offer the highest quality regular link galvanised proof coil chain by PWB Anchor, Australia in sizes 6mm through 24mm.



• Not suitable for lifting applications.

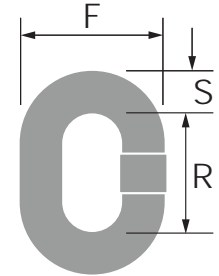
GENERAL PURPOSE CHAIN

REGULAR LINK SELF COLOUR

Regular Link Proof Coil Chain Self Colour



Product Code	PWB Item No.	Size	MWL*	Dimensions (mm)			Weight
		mm	t	S	R	F	kg/m
02609010	40029	10	0.86	9.5	43.4	35.5	1.70
02609013	40034	13	1.50	12.0	51.7	44.5	2.80
02609016	40038	16	2.31	16.0	59.6	57.3	5.30
02609020	40040	20	3.67	20.0	73.3	71.0	8.15
02609024	40042	24	5.34	24.0	87.0	84.8	11.60



07

GENERAL PURPOSE & SPECIALTY CHAINS

Manufactured from a low grade carbon steel, this versatile range of chain is proof tested to at least twice the maximum load recommended for normal use.

- Manufactured in Australia.



- MWL: Maximum Working Loads for guidance only in selection of chain with sufficient strength for intended application.



PROOF COIL CHAINS ARE NOT ALL CREATED EQUAL!



PWB Anchor utilises steel from OneSteel's integrated steel mill at Whyalla, South Australia. These Blast Furnace steels deliver the integrity required in demanding chain applications. With a controlled chemistry and refined grain structure, PWB Anchor can provide the right product to operate at the same critical levels time after time.

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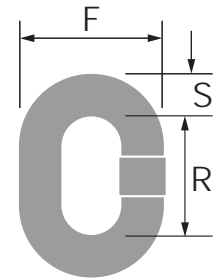
• Not suitable for lifting applications.

GENERAL PURPOSE CHAINS

LONG LINK GALVANISED

Long Link – 3mm to 5mm

Product Code	Size	MWL*	Dimensions (mm)			Weight kg/m
	mm		S	R	F	
02607403	3	50	3.0	23.2	15.4	0.16
02607404	4	90	3.8	26.8	18.4	0.26
02607405	5	150	4.75	29.8	21.5	0.43



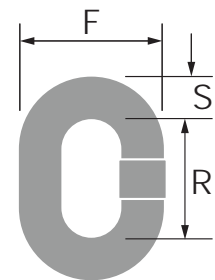
Small diameter chains with long inside link measurements for general purpose use.

- Hot dip galvanised finish.
- Manufactured in China.

Long Link – 6mm to 10mm



Product Code	PWB Item No.	Size	MWL*	Dimensions (mm)			Weight kg/m
		mm		t	S	R	
02607006	40061	6	0.26	6.0	36.2	26.0	0.67
02607008	40065	8	0.46	7.6	43.5	31.0	1.10
02607010	40069	10	0.75	9.5	53.1	39.0	1.68



With longest link formation in the range, the Long Proof Coil Chain features more generous link dimensions.

- Hot dip galvanised finish.
- Manufactured in Australia.



- MWL: Maximum Working Loads for guidance only in selection of chain with sufficient strength for intended application.



PROOF COIL CHAINS ARE NOT ALL CREATED EQUAL!



PWB Anchor utilises steel from OneSteel's integrated steel mill at Whyalla, South Australia. These Blast Furnace steels deliver the integrity required in demanding chain applications. With a controlled chemistry and refined grain structure, PWB Anchor can provide the right product to operate at the same critical levels time after time.

Steel integrity is the hidden element not always considered in a general purpose chain purchasing decision, but by choosing PWB Anchor chain you build in security of product performance, safety and operating life of your chain.

Cookes is proud to offer the highest quality regular link galvanised proof coil chain by PWB Anchor, Australia in sizes 6mm through 24mm.



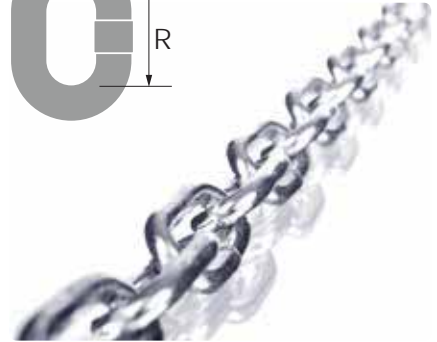
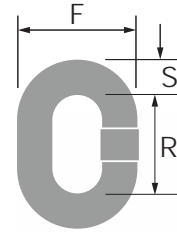
• Not suitable for lifting applications.

GENERAL PURPOSE CHAINS

REGULAR LINK STAINLESS STEEL

Regular Link Stainless Steel chain

Product Code	MWL*	Dimensions (mm)		
	kg	S	R	F
02624002	30	2.0	12	7.5
02624003	60	3.0	16	11.0
02624004	100	4.0	19	15.0
02624005	175	5.0	22	19.0
02624006	300	6.0	27	22.5
02624008	500	8.0	32	30.0
02624010	750	10.0	41	38.0



General purpose stainless steel chain with link dimensions that allow use in numerous applications.

- AISI316 Stainless Steel.
- Manufactured in China.

07

GENERAL PURPOSE &
SPECIALTY CHAINS

• MWL: Maximum Working Loads for guidance only in selection of chain with sufficient strength for intended application.



• Refer section starting on page 534 for full range of stainless steel hardware.



• Not suitable for lifting applications.

GENERAL PURPOSE CHAINS

PLASTIC PAIL LENGTHS

All regular link and long link chains can be supplied in handy reusable 20L Cookes plastic pails.

Plastic Pail Lengths



Chain Size	Regular Link	Long Link
mm	Length (m)	Length (m)
3	290	300
4	180	185
5	110	115
6	65	70
8	40	44
10	28	30
13	17	n.a.



- Supplied in a 20L plastic pail with tamper proof lid.
- For chain dimensions and specifications refer page 251 (regular link) and page 253 (long link).
- Full pail approximately 50kg.
- Cut to length and packed by Cookes.

07

GENERAL PURPOSE &
SPECIALTY CHAINS



• Not suitable for lifting applications.

SPECIALTY CHAINS

TRAILER SAFETY CHAIN & FITTINGS

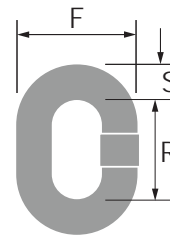
Long Link Trailer Safety Chain

Product Code	Size	MTM*	Dimensions (mm)			Weight	Finish	Standard
	mm		t	S	R			
02622108**	8	2.0	8.0	43.3	31.0	1.07	Gold Zinc Passivated	NZS 5467
02622010	10	2.5	9.5	53.1	39.0	1.68	Hot Dip Galvanised	AS 4177

** Also available in self colour finish (Product Code 02622208).

Long Link Trailer Safety Chain is a chain attached between the drawbar and the tow bar for the purpose of retaining connection between the towing vehicle and the trailer in the event of coupling failure.

- Gold zinc passivated finish (8mm) or hot dip galvanised (10mm).
- 02622108 manufactured in China.
- 02622010 manufactured in Australia.



Fabricated Trailer Chain Assembly

Product Code	Size	Length	MTM*	End Fitting	Standard
	mm				
02651004	8	0.6	2	11.7mm Pin Galvanised Shackle	NZS 5467

A 600mm length of long link trailer chain complete with shackle and washer.

- Manufactured in China.



Trailer Safety Shackles

Product Code	Dimensions (mm)			MTM*	Pin Type	Standard
	Pin Dia.	Inside L	Inside W			
02326511T	11.7	35	22	2.0	Standard Screw PIN	NZS 5467

Stamped with compliance to NZ Standard 5467.

- Hot dip galvanised with orange powder coated finish.
- Manufactured in China.



- MTM: Maximum Towing Mass



• All products on this page comply with the required Standards for trailer safety chains & fittings.



• Safety chains are required on all trailers up to 2.5T unless fitted with a breakaway brake.
• Trailers 2T to 2.5T require two safety chains that cross each other when connected.



• Not suitable for lifting applications.

SPECIALTY CHAINS

AGRICULTURAL TRAILER SAFETY CHAIN

Fabricated Agricultural Safety Chains

Product Code	Size	Length	Min. Breaking Load	Weight Ea.
	mm	m	t	kg
02652010	10	1.8	5.0	4.85
02652013	13	1.8	10.0	8.50

Land Transport Rule: Heavy Vehicles 2004 – Rule 31002.

Agricultural Safety Chain is designed to fit between the towing connection on an agricultural trailer and a tractor.

- High tensile zinc plated chain.
- Fitted with offset link on one end and grab hook with safety latch on the other end.
- Supplied in plastic pail.
- Manufactured in China.



Spare Grab Hook – To Suit Agricultural Safety Chain

Product Code	Suit Chain	Minimum Breaking Load	Weight Ea.
	Product Code	t	kg
02652010H	02652010	5.0	0.6
02652013H	02652013	10.0	1.2

Spare grab hooks for Agricultural Safety Chain.

- Spring latch to safely retain chain link.
- Zinc plated finish.
- Manufactured in China.



07
GENERAL PURPOSE &
SPECIALTY CHAINS

 • Not suitable for lifting applications.

SPECIALTY CHAINS

FEED-OUT WAGON CHAIN

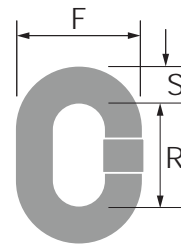
Long Link Feed-Out Chain



Product Code	PWB Item No.	Size	MBL*	Dimensions (mm)			Weight
		mm	t	S	R	F	kg/m
02619008	42138	8	6.5	8.0	34.0	29.4	1.26
02619010	40243	10	8.0	10.0	50.7	35.5	1.73

* MBL = Minimum Breaking Load.

- High tensile long link chain.
- Calibrated to ensure dimensional accuracy.
- Self colour finish.
- Manufactured in Australia.



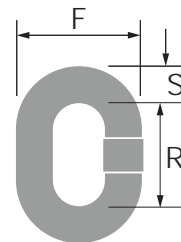
Mid Link Feed-Out Chain



Product Code	Peerless Item No.	Size	MBL*	Dimensions (mm)			Weight
		mm	t	S	R	F	kg/m
02635013P	THL13-8	13	20.0	13.0	52.0	48.0	3.40

* MBL = Minimum Breaking Load.

- High tensile mid-link chain.
- Self colour finish.
- Manufactured in the USA.



• Feed-out wagon chain dimensions can vary so always check required dimensions with your machinery manufacturer or supplier.



• Not suitable for lifting applications.

07

GENERAL PURPOSE & SPECIALTY CHAINS

SPECIALTY CHAINS

SNIG CHAINS & ACCESSORIES

High Tensile Snig Chain

Product Code	Chain Size	Maximum Drawbar Pull	Length
	mm	t	m
02645205	8	2.5	5.0
02645304	10	4.0	4.0
02645305	10	4.0	5.0
02645306	10	4.0	6.0



Cookes high tensile snig chains are fabricated using grade 70 gold zinc passivated carbon steel chain with a grab hook one end and lug link other end.

- Supplied in plastic pail.
- Manufactured in China.

Chain & End Fittings For Snig Chains

Product Code	Chain – G70 High Tensile	Product Code	Clevis Lug Link – G70 High Tensile
	Size (mm)		Size (mm)
02616108	8	02234120	8
02616110	10	02234122	10
02616113	13	02234124	13



G70 Chain



Clevis Lug Link

Product Code	Grab Hook – G70 High Tensile	Product Code	Clevis Slip Hook – G70 High Tensile
	Size (mm)		Size (mm)
02234108	8	02234116	8
02234110	10	02234117	10
02234113	13	02234118	13




Clevis Grab Hook



Clevis Slip Hook

A range of grade 70 chain and clevis end fittings enabling fabrication of snig chains to meet all requirements.

- Gold zinc passivated.
- Clevis components easy to fit.
- Manufactured in China.



- Chain, clevis grab hooks and clevis slip hooks are also available in 6mm size.
- 6mm Chain Product Code 02616106
- 6mm Grab Hook Product Code 02234106
- 6mm Slip Hook Product Code 02234115



- Not suitable for lifting applications.

07 GENERAL PURPOSE & SPECIALTY CHAINS

SPECIALTY CHAINS

ANTI-THEFT CHAIN & COMPONENTS

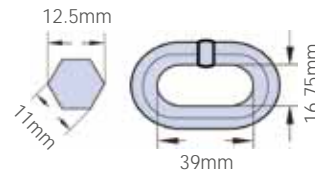
Hex Security Chain



Product Code	Chain Size	Approx. Breaking Load	Weight	Finish
	mm		kg/m	
02397011	11	10.8	2.75	Blue



Hex chain is a high alloy chain drawn in a six sided (hexagonal) shape and heat treated to be extremely hard. The hex shape does not allow bolt cutters to gain sufficient bite to enable them to cut the chain.



It is ideal for securing equipment or portable tools at a job site or for general purpose security use.

- Surface hardness HRC 53-58
- Blue zinc finish.
- Cut to required length.
- Sleeving available (Product Code 09562101).
- Manufactured in the USA.

Anti-Theft Padlock



Product Code	Shackle Length	Weight	Finish
	mm	g	
02397011P	25	725	Stainless

This lock is a great partner with Hex Chain for maximum security. The lock body extends up to protect the shackle from allowing bolt cutters to access it.

Locking device comes with 4 double notch cut reversible keys that cannot be removed unless the lock is closed and secure.

- Padlock body manufactured from AISI304 stainless steel.
- Padlock shackle manufactured from magnesium steel.
- Low shackle profile when locked to prevent bolt cutter access.
- Manufactured in the USA.



• **Helpful hint: Position all parts of a security chain assembly above ground level. This makes it more difficult for cutting equipment to gain the required purchase.**



• **Padlocks used with conventional mild steel round link chain is an ineffective deterrent to property theft. They are no match for large bolt cutters! Protect your valuable property and plant with superior Cookes Hex Security Chain & Padlocks.**



• **Not suitable for lifting applications.**

SPECIALTY CHAINS

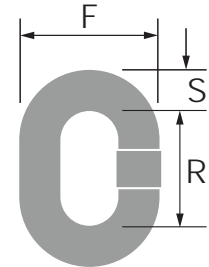
STEEL SAFETY BARRIER CHAIN

Long Link Steel Safety Barrier Chain



Product Code	Chain Size	MBL*	Dimensions (mm)			Weight
	mm		S	R	F	kg/30m
02604806	6	1,000	6.0	42.0	24.0	19.5

* MBL = Minimum Breaking Load and covers all welded links.



Cookes long link steel safety barrier chain is zinc plated then over-painted in 500mm sections of red and white for clear visibility.

- Chain complies with DIN763.
- Supplied in boxes of 30m.
- 500mm sections of red and white for excellent visibility.
- Each red section has an unwelded end link for ease of adding/removing sections.
- Manufactured in China.

07

GENERAL PURPOSE &
SPECIALTY CHAINS



• Steel barrier chain is less susceptible to damage or vandalism than plastic barrier chains.



• Not suitable for lifting applications.





LIFTING POINTS & EYE BOLTS

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INTRODUCTION

Cookes is proud to be the authorised New Zealand distributor for RUD Lifting and Lashing Points.



Do not be fooled by the many low quality imitations on the market today. Where safety is foremost there is only one choice, and that's RUD.

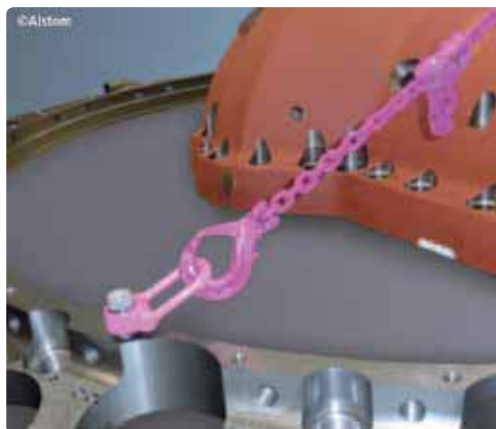
RUD Lifting and Lashing Points are manufactured to fully conform to EN1677. No further proof testing in the field is required.

With their headquarters and manufacturing plant in Germany, RUD's continuous research and development programmes have enabled them to remain at the forefront of lifting and lashing point product development.

RUD – highest quality and ongoing technical innovation.

08

LIFTING POINTS
& EYE BOLTS



INSIST ON
APPROVED
LIFTING
POINTS
FROM
RUD

COOKES – helping lift New Zealand business for over 100 years!
a BRIDON · BEKAERT Hoopes Group Brand

LIFTING & LASHING POINTS

RUD WELD-ON

Load Rings – ABA

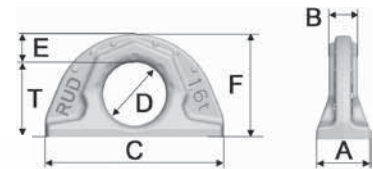


Product Code	RUD Item No.	WLL	Dimensions (mm)							Net Weight
		t	A	B	C	D	E	F	T	kg
09104161	ABA 1.6	1.6	30	16	100	35	16	57	41.5	0.44
09104163	ABA 3.2	3.2	41	23	137	50	21	80	59	1.1
09104165	ABA 5	5.0	51	27	172	60	27.5	99	71.5	2.3
09104169	ABA 10	10.0	70	38	228	80	35	130	95	5.3
09104175*	ABA 20	20.0	90	52	272	115	40	175	135	10.7
09104180*	ABA 31.5	31.5	108	64	320	130	50	204	154	18.3

* Available on indent.

The new ABA weld-on lifting point from RUD is the safer alternative which enables the user to take the guess work out of lifting safely.

- Manufactured from high tensile CrNiMo – steel.
- Full working load in all directions.
- 100% Electro-magnetic crack detection tested.
- Patented wear markings on the inside and on the outside.
- 4 :1 design factor on Working Load Limit.
- Complies with DIN 5691 and EN1677.
- Temperature Range -40°C to 100°C no reduction in WLL.
- No sharp edges, phosphated surface.
- Manufactured in Germany.



ABA Working Load Limits – G in Tonnes

Lifting Mode		Single Leg		2, 3 or 4 Legs		
Product Code	RUD Item No.			60°	α 90°	120°
09104161	ABA 1.6	1.6	1.6	2.8	2.2	1.6
09104163	ABA 3.2	3.2	3.2	5.5	4.5	3.2
09104165	ABA 5	5.0	5.0	8.6	7.0	5.0
09104169	ABA 10	10.0	10.0	17.3	14.1	10.0
09104175	ABA 20	20.0	20.0	34.6	28.2	20.0
09104180	ABA 31.5	31.5	31.5	54.5	44.4	31.5



- ? Welding instructions supplied.
- CAD drawings available upon request.

Loading from any side is permitted.



- Never exceed Manufacturer's Working Load Limit (WLL).
- Always inspect lifting points carefully before each use!

08
LIFTING POINTS
& EYE BOLTS

LIFTING & LASHING POINTS

RUD WELD-ON

Load Rings – VLBS

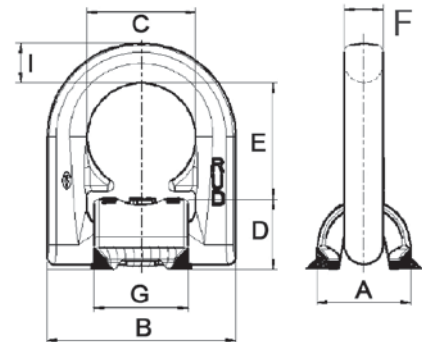


Product Code	RUD Item No.	WLL t	Dimensions (mm)								Net Weight kg
			A	B	C	D	E	Ø F	G	I	
09104101N	VLBS 1.5	1.5	32	66	38	25	40	13.5	33	14	0.35
09104102N	VLBS 2.5	2.5	36	77	45	27	48	13.5	40	16	0.50
09104104N	VLBS 4	4.0	42	87	51	31	52	16.5	46	18	0.80
09104106N	VLBS 6.7	6.7	61	115	67	44	73	22.5	60	24	1.90
09104110N	VLBS 10	10.0	75	129	67	55	71	26.5	60	26.5	2.90
09104116N *	VLBS 16 *	16.0	95	190	100	69	105	26.0	90	40	6.80

* Without spring.

The VLBS Load ring offers a functional, compact innovative design. The rings are 100% electro-magnetic crack tested and painted in the unique durable RUD pink powder coated finish.

- Manufactured from high tensile CrNiMo – steel.
- Offers a full WLL in any direction with 180° rotation.
- Rated capacity can be increased 100% in lashing applications.
- Internal position holding springs.
- Complies with EN1677.
- Test certificates available, with full traceability on Load Rings.
- 100% electro-magnetic crack detection tested.
- Mounting blocks fully prepared for welding including distance lugs.
- Manufactured in Germany.



08 LIFTING POINTS & EYE BOLTS



Distance lugs for root weld.



VLBS Working Load Limits – G in Tonnes

Lifting Mode		Single Leg		2, 3 or 4 Legs		
					60°	90°
Product Code	RUD Item No.					
09104101N	VLBS 1.5	1.5	1.5	2.6	2.1	1.5
09104102N	VLBS 2.5	2.5	2.5	4.3	3.5	2.5
09104104N	VLBS 4	4.0	4.0	6.9	5.6	4.0
09104106N	VLBS 6.7	6.7	6.7	11.6	9.4	6.7
09104110N	VLBS 10	10.0	10.0	17.3	14.1	10.0
09104116N	VLBS 16	16.0	16.0	27.7	22.6	16.0



- Welding instructions supplied.
- CAD drawings available upon request.



- Never exceed Manufacturer's Working Load Limit (WLL).
- Always inspect lifting points carefully before each use!

LIFTING & LASHING POINTS

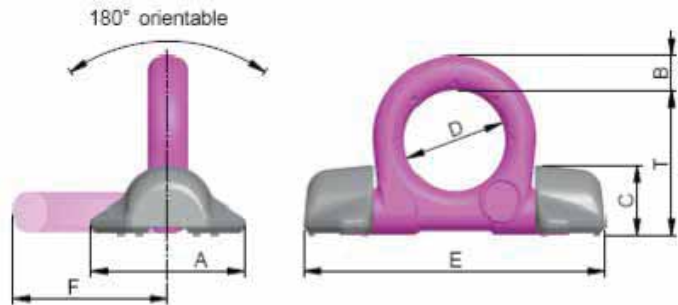
RUD WELD-ON

Load Rings – VRBS



Product Code	RUD Item No.	WLL	Dimensions (mm)						Net Weight
		t	A	B	C	D	E	T	kg
09104004N	VRBS 4	4.0	62	14	28	48	135	65	0.8
09104006N	VRBS 6.7	6.7	88	20	39	60	170	84	2.1
09104010N	VRBS 10	10.0	100	22	46	65	195	95	2.8
09104016N	VRBS 16	16.0	130	30	57	90	263	127	6.6
09104030N	VRBS 31.5	31.5	160	42	78	130	375	178	19.0
09104050N*	VRBS 50	50.0	240	70	120	230	620	313	54.1




* Available on indent.



The VRBS Load Ring offers a functional, compact innovative design. The range is 100% electro-magnetic crack tested and painted in the unique durable RUD pink powder coated finish.

- Manufactured from high tensile CrNiMo – steel.
- Offers full WLL in any direction with 4:1 lifting design factor.
- Complies with EN1677.
- Rated capacity can be increased 100% in lashing applications.
- Test certificates available, full traceability on Load Rings.
- 100% electro-magnetic crack detection tested.
- Mounting blocks fully prepared for welding including distance lugs.
- Manufactured in Germany.

VRBS Working Load Limits – G in Tonnes

Lifting Mode		Single Leg		2, 3 or 4 Legs		
		 G	 G		60°	90°
Product Code	RUD Item No.					
09104004N	VRBS 4	4.0	4.0	6.9	5.6	4.0
09104006N	VRBS 6.7	6.7	6.7	11.6	9.4	6.7
09104010N	VRBS 10	10.0	10.0	17.3	14.1	10.0
09104016N	VRBS 16	16.0	16.0	27.7	22.6	16.0
09104030N	VRBS 31.5	31.5	31.5	54.5	44.5	31.5
09104050N	VRBS 50	50.0	50.0	86.5	70.5	50.0



- Welding instructions supplied.
- CAD drawings available upon request.



- Never exceed Manufacturer's Working Load Limit (WLL).
- Always inspect lifting points carefully before each use!

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LIFTING POINTS
& EYE BOLTS

LIFTING & LASHING POINTS

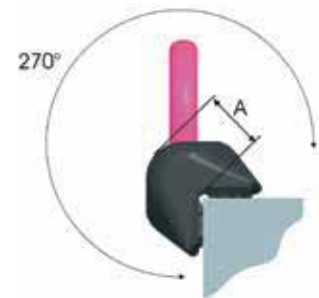
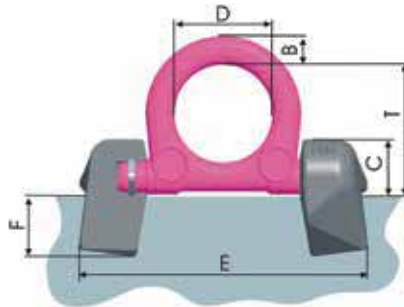
RUD WELD-ON

Load Rings – VRBK



Product Code	RUD Item No.	WLL t	Dimensions (mm)							Net Weight kg
			A	B	C	D	E	F	T	
09104131*	VRBK 4	4.0	32	14	28	48	140	29	65	1.1
09104132*	VRBK 6.7	6.7	40	20	35	60	180	33	84	2.1
09104133*	VRBK 10	10.0	52	22	46	65	212	46	94	4.4

* Available on indent.



The VRBK Load Ring is designed for lifting on 90° edges. The range is 100% electro-magnetic crack tested and painted in the unique durable RUD pink powder coated finish.

- Manufactured from high tensile CrNiMo – steel.
- Low profile and 270° pivoting.
- Offers a full WLL in any direction with 4:1 lifting design factor.
- Complies with EN1677.
- Rated capacity can be increased 100% in lashing applications.
- Test certificates available, with full traceability.
- 100% electro-magnetic crack detection tested.
- Mounting blocks fully prepared for welding including distance lugs.
- Internal position holding springs to reduce vibration noise.
- Available for 90° edges with WLL's up to 10,000kg.
- Manufactured in Germany.

VRBK Working Load Limits – G in Tonnes

Lifting Mode		Single Leg		2, 3 or 4 Legs		
					60°	90°
Product Code	RUD Item No.					
09104131	VRBK 4	4.0	4.0	6.9	5.6	4.0
09104132	VRBK 6.7	6.7	6.7	11.6	9.4	6.7
09104133	VRBK 10	10.0	10.0	17.3	14.1	10.0



- Welding instructions supplied.
- CAD drawings available upon request.



- Never exceed Manufacturer's Working Load Limit (WLL).
- Always inspect lifting points carefully before each use!
- The VRBK must be able to pivot 270° when installed.

LIFTING & LASHING POINTS

RUD WELD-ON

Lifting Points – WPP-S with Hook



Product Code	RUD Item No.	WLL	Dimensions (mm)						Net Weight
		t	A	B	C	D	E	G	kg
09104751*	WPP-S-0.63	0.63	13	75	18	40	115	40	0.4
09104752*	WPP-S-1.5	1.5	20	97	25	46	147	50	1.0
09104753*	WPP-S-2.5	2.5	28	126	30	61	187	61	1.5
09104754*	WPP-S-4	4.0	36	150	35	78	222	77	3.3
09104755*	WPP-S-5	5.0 (6.7)	37	174	40	95	267	93	7.1
09104756*	WPP-S-8	8.0 (10)	49	208	48	100	310	102	8.2

() Increased WLL in axial load direction. * Available on indent.

The first generation of lifting points for welding with a universal connection for every slinging means (sling chains, round slings, wire ropes, etc).




Provided with a double ball-bearing which enables jerk – free tilting, swivelling and turning .

- Optimised design avoids damage when swivelling.
- Complies with EN1677.
- 4:1 design factor.
- Manufactured in Germany.



08
LIFTING POINTS
& EYE BOLTS

WPP-S Working Load Limits – G in Tonnes (Fixed or Swivelling)

Lifting Mode		Single Leg		2, 3 or 4 Legs		
						
Product Code	RUD Item No.			60°	90°	120°
09104751	WPP-S-0.63	0.63	0.63	1.1	0.89	0.63
09104752	WPP-S-1.5	1.5	1.5	2.6	2.1	1.5
09104753	WPP-S-2.5	2.5	2.5	4.3	3.5	2.5
09104754	WPP-S-4	4.0	4.0	6.9	5.6	4.0
09104755	WPP-S-5	6.7	5.0	8.6	7.0	5.0
09104756	WPP-S-8	10.0	8.0	13.8	11.3	8.0



- Welding instructions supplied.
- CAD drawings available upon request.



- Never exceed Manufacturer's Working Load Limit (WLL).
- Always inspect lifting points carefully before each use!
- Not suitable for permanent swivelling under load.

LIFTING & LASHING POINTS

RUD WELD-ON

Lifting Points – WPP-B with Lifting Ring



Product Code	RUD Item No.	WLL	Dimensions (mm)							Net Weight
		t	A	B	C	D	E	G	R ¹	kg
09104761*	WPP-B-0.63	0.63	9	65	35	40	105	40	15	0.35
09104762*	WPP-B-1.5	1.5	11	65	35	46	115	50	15	0.6
09104763*	WPP-B-2.5	2.5	13	74	40	61	135	61	18	1.0
09104764*	WPP-B-4	4.0	16	95	45	78	172	77	20	2.3
09104765*	WPP-B-5	5.0 (6.7)	19	130	60	95	223	93	25	4.7
09104766*	WPP-B-8	8.0 (10)	24	140	65	100	242	102	28	5.3

() Increased WLL in axial load direction. * Available on indent.

The first generation of lifting points for welding provided with a double ball-bearing which enables jerk – free tilting, swivelling and turning.

- Ring provides convenient connection to shackle, hook, etc.
- Optimal design avoids damage when swivelling.
- Complies with EN1677.
- 4:1 design factor.
- Manufactured in Germany.



WPP-B Working Load Limits – G in Tonnes (Fixed or Swivelling)

Lifting Mode		Single Leg		2, 3 or 4 Legs		
Product Code	RUD Item No.			60°	90°	120°
09104761	WPP-B-0.63	0.63	0.63	1.1	0.89	0.63
09104762	WPP-B-1.5	1.5	1.5	2.6	2.1	1.5
09104763	WPP-B-2.5	2.5	2.5	4.3	3.5	2.5
09104764	WPP-B-4	4.0	4.0	6.9	5.6	4.0
09104765	WPP-B-5	6.7	5.0	8.6	7.0	5.0
09104766	WPP-B-8	10.0	8.0	13.8	11.3	8.0



- Welding instructions supplied.
- CAD drawings available upon request.



- Never exceed Manufacturer's Working Load Limit (WLL).
- Always inspect lifting points carefully before each use!
- Not suitable for permanent swivelling under load.

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LIFTING POINTS & EYE BOLTS

LIFTING & LASHING POINTS

RUD WELD-ON

Lifting Points – WPP-VIP

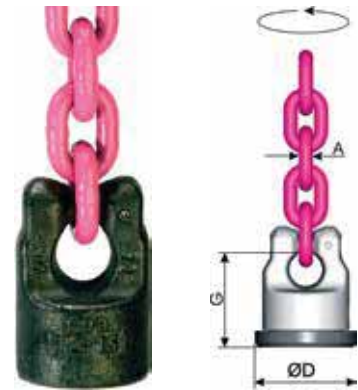


Product Code	RUD Item No.	WLL	Dimensions (mm)			Net Weight
		t	A	B	C	kg
09104771*	WPP-VIP4-0.63	0.63	4	40	40	0.25
09104772*	WPP-VIP6-1.5	1.5	6	46	50	0.45
09104773*	WPP-VIP8-2.5	2.5	8	61	61	0.85
09104774*	WPP-VIP10-4	4.0	10	78	77	2.1
09104775*	WPP-VIP13-5	5.0 (6.7)	13	95	93	3.4
09104776*	WPP-VIP16-8	8.0 (10)	16	100	102	4.5

() Increased WLL in axial load direction. * Available on indent.

The first generation of weldable lifting points with a double ball-bearing load point with clevis for direct connection to Grade 100 chain.

- Optimal design avoids damage when swivelling.
- Complies with EN1677.
- 4:1 design factor.
- Manufactured in Germany.



08
LIFTING POINTS
& EYE BOLTS

WPP-VIP Working Load Limits – G in Tonnes (Fixed or Swivelling)

Lifting Mode		Single Leg		2, 3 or 4 Legs		
Product Code	RUD Item No.			60°	90°	120°
09104771	WPP-VIP4-0.63	0.63	0.63	1.1	0.89	0.63
09104772	WPP-VIP6-1.5	1.5	1.5	2.6	2.1	1.5
09104773	WPP-VIP8-2.5	2.5	2.5	4.3	3.5	2.5
09104774	WPP-VIP10-4	4.0	4.0	6.9	5.6	4.0
09104775	WPP-VIP13-5	6.7	5.0	8.6	7.0	5.0
09104776	WPP-VIP16-8	10.0	8.0	13.8	11.3	8.0

• Welding instructions supplied.
• CAD drawings available upon request.

• Never exceed Manufacturer's Working Load Limit (WLL).
• Always inspect lifting points carefully before each use!
• RUD warranty applies when used with RUD VIP Grade 100 chain.
• Not suitable for permanent swivelling under load.

LIFTING & LASHING POINTS

RUD STAINLESS WELD-ON

Load Rings – Stainless Steel LBS-RS

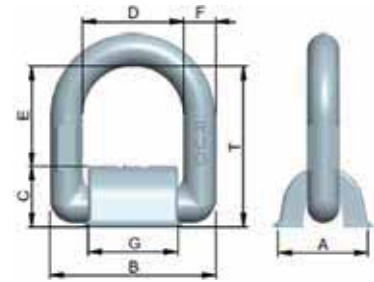


Product Code	RUD Item No.	WLL t	Dimensions (mm)									Net Weight kg
			A	B	C	D	E	Ø F	G	H	T	
09104191* ⁽¹⁾	LBS-RS 0.5	0.5	32	65	36	25	39	13.5	33	69	64	0.3
09104192* ⁽¹⁾	LBS-RS 1	1.0	42	85	50	31	50	16.5	46	87	81	0.6
09104193*	LBS-RS 2	2.0	61	110	65	44	72	22.5	60	125	116	1.6

* Available on indent. (1) Without spring.

Stainless steel load ring for welding. Manufactured from material 1.4571 (stainless steel). The chemical resistance and resistance against pitting by chloride media has been increased due to the Mo content.




- Incorporates a 180° pivoting action for multi position loading.
- In it's welded condition is resistant against intercrystalline corrosion, when being used in permanent operation, up to 400°C.
- The material 1.4571 is widely used in the chemical, petroleum, coal-tar, chemistry and textile industries.
- Manufactured in Germany.



Distance lugs for root weld.



LBS-RS Working Load Limits – G in Tonnes

Lifting Mode		Single Leg		2, 3 or 4 Legs		
		 G	 G	 G	60°	90°
Product Code	RUD Item No.					
09104191	LBS-RS 0.5	0.5	0.5	0.86	0.70	0.5
09104192	LBS-RS 1	1.0	1.0	1.70	1.40	1.0
09104193	LBS-RS 2	2.0	2.0	3.50	2.80	2.0



- Welding instructions supplied.
- CAD drawings available upon request.



- Never exceed **Manufacturer's Working Load Limit (WLL)**.
- Always inspect lifting points carefully before each use!

LIFTING & LASHING POINTS

RUD BOLT-ON

ALL BOLT-ON LIFTING EYES ARE NOT CREATED EQUAL!

While conventional eye bolts do have their place, they are not suitable for certain lifting applications, particularly where side loading may occur or where load rotation may lead to the eye bolt unscrewing.

It is critical from a safety perspective that you use only proven quality lifting points from reputable manufacturers. RUD Lifting and Lashing Points, manufactured in Germany, meet exacting quality standards and will provide the assurance you require.

THE WRONG WAY

INCORRECT LOADING ON IMPROVISED LIFTING POINTS!



Frequently, heavy fabricated plates are used which have not been designed for a possible inclined load, or they have been over dimensioned which prevents hooks with a small width or shackles from being attached.

SAFETY HAZARDS!



Using non-rated eye bolts, or side loading conventional eye bolts can pose significant safety risks.

THE RIGHT WAY



RUD Starpoint Eye Bolts, PowerPoint® or VLBG bolt-on Lifting Points can be adjusted to the load direction offering full Working Load Limit (WLL).

RUD Lifting Points are designed with a low installation height, high dynamic and static strength. All RUD Lifting Points complies with EN1677 with every original RUD bolt crack detection tested.

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LIFTING POINTS
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LIFTING & LASHING POINTS

RUD BOLT-ON

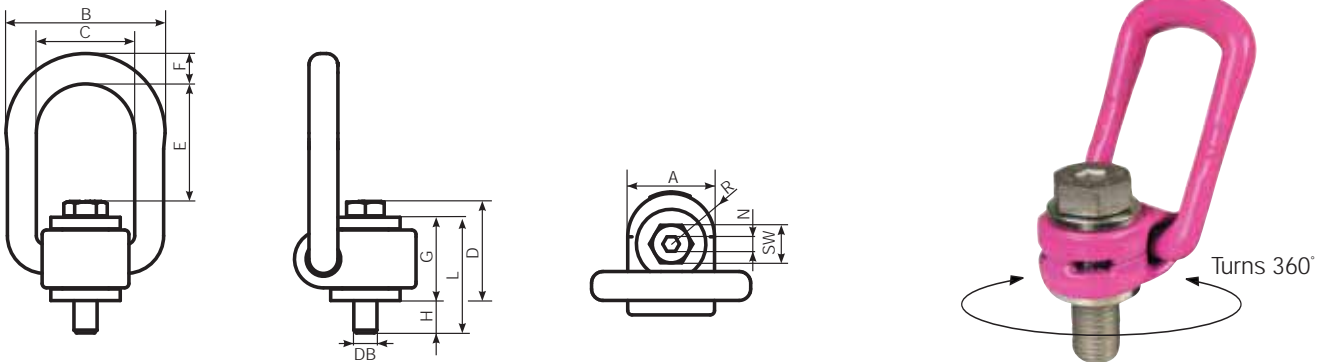
Load Rings – VLBG Standard Bolt Length Model



Product Code	RUD Item No.	WLL		Dimensions (mm)														N. W.
		t	kg	A	B	C	D	E	F	G	H	L	N	SW	R	DB	kg	
09104251	VLBG M8	0.3	30	30	54	34	35	40	10	29	11	40	5	13	32	24	0.30	
09104252	VLBG M10	0.63	60	30	54	34	36	39	10	29	16	45	6	17	32	24	0.32	
09104253	VLBG M12	1.0	100	32	54	34	37	38	10	29	21	50	8	19	32	26	0.33	
09104254	VLBG M16	1.5	150	33	56	36	46	39	13.5	36	24	60	10	24	38	30	0.55	
09104255	VLBG M20	2.5	250	50	82	54	55	55	16.5	43	32	75	12	30	48	45	1.30	
09104256	VLBG M24	4.0	400	50	82	54	58	67	18	43	37	80	14	36	48	45	1.50	
09104257	VLBG M27	4.0	400	60	103	65	78	69	22.5	61	39	100	17	41	67	60	3.10	
09104258	VLBG M30	5.0	500	60	103	65	80	67	22.5	61	49	110	17	46	67	60	3.30	
09104259	VLBG M36	7.0	700	60	103	65	72	74	22.5	55	52	107	—	55	67	60	3.40	
09104260	VLBG M36	8.0	800	77	122	82	100	97	26.5	77	63	140	22	55	85	70	6.20	
09104261*	VLBG M42	10.0	1,000	77	122	82	103	94	26.5	77	73	150	24	65	87	70	6.70	
09104262*	VLBG M42	15.0	1,500	95	156	100	113	109	36	87	63	150	24	65	100	85	11.20	
09104263*	VLBG M48	20.0	2,000	95	156	100	117	105	36	87	73	160	27	75	100	95	11.60	

Note: RUD Item No. includes thread diameter. Refer column H for bolt length

* Available on indent.



The VLBG Load Ring offers a functional, compact innovative design. Rings are 100% electro-magnetic crack tested and painted in the unique durable RUD pink powder coat finish. 360° rotation and 180° pivoting.

- Manufactured using high tensile CrNiMo steel.
- Offers a full WLL in any direction with 4:1 lifting design factor.
- Complies with EN1677.
- Rated capacity can be increased 100% in specific lashing applications.
- Test certificates available, with full traceability on Ring Bolts.
- 100% electro-magnetic crack detection tested.
- UNC threads also available on indent.
- Manufactured in Germany.



- CAD drawings available upon request.
- For different bolt length refer Vario model on the following page.



- Never exceed Manufacturer's Working Load Limit (WLL).
- Always inspect lifting points carefully before each use!
- The VLBG must be rotatable 360° when installed.

LIFTING & LASHING POINTS

RUD BOLT-ON

Load Rings – VLBG VARIO Variable Bolt Length



Product Code	RUD Item No.	WLL	Torque	Dimensions (mm)						
		t	Nm	D	E	F	G	H	L (max)	T
09104251V*	VLBG M8	0.3	30	24	40	10.0	29	8 – 76	105	75
09104252V*	VLBG M10	0.63	60	24	39	10.0	29	10 – 96	125	75
09104253V*	VLBG M12	1.0	100	26	38	10.0	29	12 – 116	145	75
09104254V*	VLBG M16	1.5	150	30	39	13.5	36	16 – 149	185	85
09104255V*	VLBG M20	2.5	250	45	55	16.5	43	20 – 187	230	110
09104256V*	VLBG M24	4.0	400	45	67	18.0	43	24 – 222	265	125
09104258V*	VLBG M30	5.0	500	60	67	22.5	61	30 – 279	340	147
09104260V*	VLBG M36	8.0	800	70	97	26.5	77	36 – 223	300	197
09104261V*	VLBG M42	10.0	1,000	70	94	26.5	77	42 – 273	350	197
09104262V*	VLBG M42	15.0	1,500	85	109	36.0	87	42 – 263	350	222
09104263V*	VLBG M48	20.0	2,000	95	105	36.0	87	48 – 303	350	222

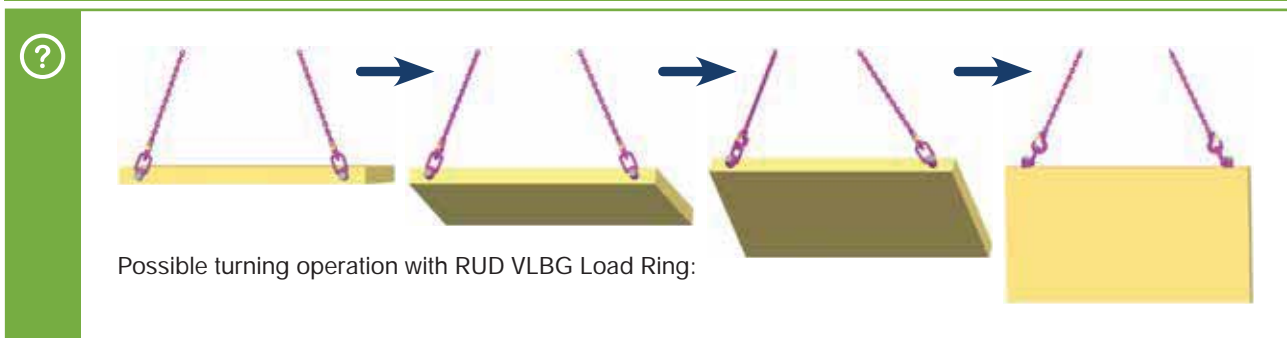
Note: RUD Item No. includes thread diameter. * Available on indent.

Same as VLBG Load Rings detailed on previous page with variable bolt lengths available as detailed in column H.

- Manufactured using high tensile CrNiMo steel.
- Offers a full WLL in any direction with 4:1 lifting design factor.
- Complies with EN1677.
- Rated capacity can be increased 100% in specific lashing applications.
- Test certificates available, with full traceability on Ring Bolts.
- 100% electro-magnetic crack detection tested.
- UNC threads also available on request.
- Supplied with two nuts.
- Manufactured in Germany.



• CAD drawings available upon request.



• Vario option is not available for VLBG 4T M27. Alternative: 09104256V (VLBG 4T M24)
 • Vario option is not available for VLBG 7T M36. Alternative: 091047260V (VLBG 8T M36)

• Never exceed Manufacturer's Working Load Limit (WLL).
 • Always inspect lifting points carefully before each use!
 • The VLBG must be rotatable 360° when installed.

LIFTING & LASHING POINTS

RUD BOLT-ON

VLBG Working Load Limits – G in Tonnes



Lifting Mode		Single Leg		2, 3 or 4 Legs		
					60°	90°
Product Code	RUD Item No.					
09104251	VLBG M8	0.30	0.30	0.52	0.42	0.30
09104252	VLBG M10	0.63	0.63	1.1	0.89	0.63
09104253	VLBG M12	1.0	1.0	1.7	1.4	1.0
09104254	VLBG M16	1.5	1.5	2.6	2.1	1.5
09104255	VLBG M20	2.5	2.5	4.3	3.5	2.5
09104256	VLBG M24	4.0	4.0	6.9	5.6	4.0
09104257	VLBG M27	4.0	4.0	6.9	5.6	4.0
09104258	VLBG M30	5.0	5.0	8.6	7.0	5.0
09104259	VLBG M36	7.0	7.0	12.1	9.9	7.0
09104260	VLBG M36	8.0	8.0	13.8	11.3	8.0
09104261	VLBG M42	10.0	10.0	17.3	14.1	10.0
09104262	VLBG M42	15.0	15.0	26.0	21.2	15.0
09104263	VLBG M48	20.0	20.0	34.6	28.2	20.0



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LIFTING POINTS
& EYE BOLTS



• WLL chart applies to both standard bolt length and variable bolt length (Vario) models.



- Never exceed Manufacturer's Working Load Limit (WLL).
- Always inspect lifting points carefully before each use!
- The VLBG must be rotatable 360° when installed.

LIFTING & LASHING POINTS

RUD BOLT-ON

Spare Bolts to suit VLBG Load Rings



Product Code	Suit RUD VLBG	Threat Size	Threat Length (mm)		
			VLBG Standard	Minimum Length	Maximum Length
09104251B*	0.3 T	M8	11	8	76
09104252B*	0.63 T	M10	16	10	96
09104253B*	1.0 T	M12	21	12	116
09104254B*	1.5 T	M16	24	16	149
09104255B*	2.5 T	M20	32	20	187
09104256B*	4.0 T	M24	37	24	222
09104257B*	4.0 T	M27	39	n.a.	n.a.
09104258B*	5.0 T	M30	49	30	279
09104260B*	8.0 T	M36	63	36	223
09104261B*	10.0 T	M42	73	42	273
09104262B*	15.0 T	M42	63	42	263
09104263B*	20.0 T	M48	73	48	303

* Available on indent.

Original RUD bolts available for Standard and Vario VLBG Load Ring assemblies.

RUD Spare Bolts comply with DIN580 and are supplied complete with washer and 2 crack tested nuts.

- Longer bolts (Vario) are not available for VLBG 4.0T M27.
- Spare bolts are not available for VLBG 7.0T M36.
- Manufactured in Germany.



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LIFTING POINTS
& EYE BOLTS

LIFTING & LASHING POINTS

RUD BOLT-ON

ICE-LBG-SR Super Rotational Ring Bolts



The new ICE-LBG-SR Series manufactured by RUD in Germany provides safer turning and mounting thanks to the unique double ball bearing arrangement.

The ICE-LBG-SR range of load rings maintain the same mounting size as the VLBG range but offer several advantages where there is constant rotary movement.

The ICE-LBG-SR ring bolts can be fully loaded in all directions whether vertically or at 90 degrees to the bolt. The special double ball bearing arrangement transfer the forces under load into rotation without jerking, avoiding unfastening of the fixing bolt.

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LIFTING POINTS
& EYE BOLTS



RUD Unique Double Ball Bearing Arrangement.



New ICE-Bolt

The new ICE-Bolt has increased resistance to bending and reduces sensitivity to hydrogen embrittlement. Ultimately this translates to maximum safety.

ICE-Bolt – for ICE-LBG-SR – 100% magnetically crack tested with circlip. The hexagon socket bolt is with a snap ring so that it can be captively mounted with the ICE-LBG-SR.

State-of-the-art approved lifting points by RUD.



LIFTING & LASHING POINTS

RUD BOLT-ON

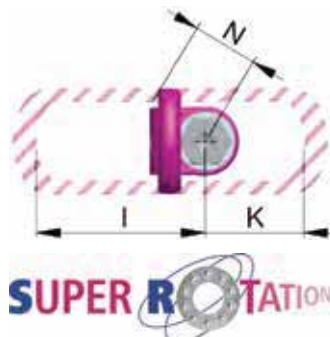
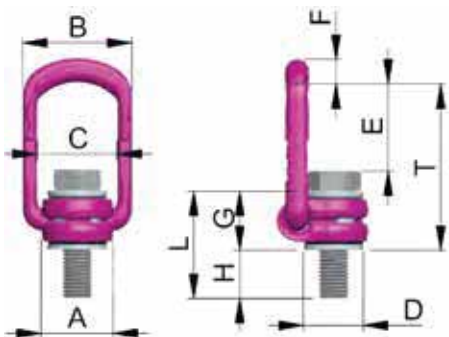
ICE-LBG-SR Super Rotational – Standard Bolt Length



Product Code	RUD Item No.	WLL	Torque	Dimensions (mm)													N. W.
		t	Nm	A	B	C	D	E	F	G	H	I	K	L	N	T	kg
09104251SR*	ICE-LBG-SR M8	0.3	30	32	50	34	24	40	10.0	29	12	75	43	41	32	75	0.30
09104252SR*	ICE-LBG-SR M10	0.63	60	32	50	34	24	39	10.0	29	15	75	43	44	32	74	0.31
09104253SR*	ICE-LBG-SR M12	1.0	100	32	50	34	26	38	10.0	29	18	75	43	47	32	74	0.34
09104254SR*	ICE-LBG-SR M16	1.5	150	36	54	40	30	39	13.5	34	24	86	46	58	38	84	0.52
09104255SR*	ICE-LBG-SR M20	2.5	250	54	82	60	45	53	17.0	45	30	113	61	75	48	110	1.30
09104256SR*	ICE-LBG-SR M24	4.0	400	54	82	60	45	66	18.0	45	36	130	76	80	48	125	1.40
09104258SR*	ICE-LBG-SR M30	5.0	500	63	102	69	55	66	22.5	60	45	151	79	105	66	145	3.20
09104260SR*	ICE-LBG-SR M36	8.0	800	84	122	90	70	95	26.5	79	54	205	110	133	87	197	6.00
09104261SR*	ICE-LBG-SR M42	10.0	1,000	84	122	90	70	92	26.5	79	73	205	110	152	87	197	6.70
09104262SR*	ICE-LBG-SR M42	15.0	1,500	105	156	110	90	107	36.0	89	63	230	130	152	100	222	11.20
09104263SR*	ICE-LBG-SR M48	20.0	2,000	105	156	110	90	103	36.0	89	72	230	130	161	100	222	11.60

Note: RUD Item No. includes thread diameter. Refer column H for bolt length

* Available on indent.



Designed for applications where there is constant rotary movement. Double ball bearing avoids unintentional unfastening of fixing bolt. New ICE-Bolt offers increased bending resistance.

- Rotates 360° and pivots 180°.
- Assembly complies with EN1677.
- Corrosion protection.
- Clearly marked with required torque and WLL in all directions.
- Manufactured in Germany.



- CAD drawings available upon request.
- For different bolt length refer Vario model on the following page.



- Never exceed Manufacturer's Working Load Limit (WLL).
- Always inspect lifting points carefully before each use!

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LIFTING POINTS
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LIFTING & LASHING POINTS

RUD BOLT-ON

ICE-LBG-SR Super Rotational – Vario Bold Length

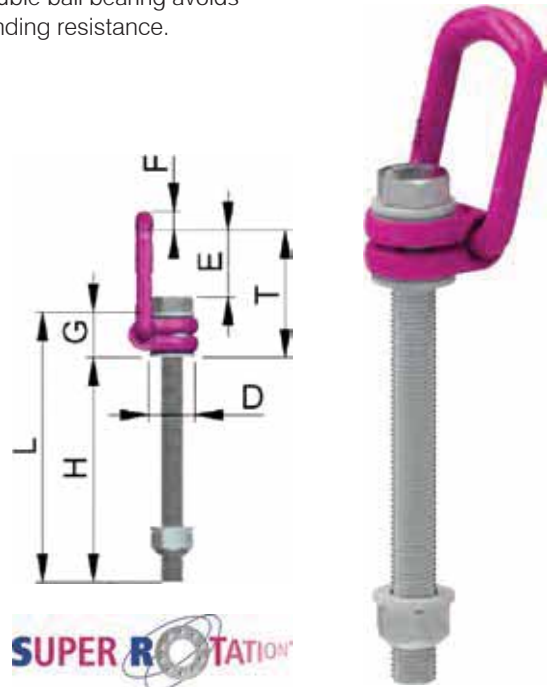


Product Code	RUD Item No.	WLL	Torque	Dimensions (mm)						
		t	Nm	D	E	F	G	H	L	T
09104251VS*	ICE-LBG-SR M8	0.3	30	24	40	10.0	29	8-76	37-105	75
09104252VS*	ICE-LBG-SR M10	0.63	60	24	39	10.0	29	10-96	39-125	74
09104253VS*	ICE-LBG-SR M12	1.0	100	26	38	10.0	29	12-116	41-145	74
09104254VS*	ICE-LBG-SR M16	1.5	150	30	39	13.5	34	16-149	50-185	84
09104255VS*	ICE-LBG-SR M20	2.5	250	45	53	17.0	45	20-187	65-230	110
09104256VS*	ICE-LBG-SR M24	4.0	400	45	66	18.0	45	24-222	69-265	125
09104258VS*	ICE-LBG-SR M30	5.0	500	55	66	22.5	60	30-279	90-340	145
09104260VS*	ICE-LBG-SR M36	8.0	800	70	95	26.5	79	36-221	105-300	197
09104261VS*	ICE-LBG-SR M42	10.0	1,000	70	92	26.5	79	42-271	111-350	197
09104262VS*	ICE-LBG-SR M42	15.0	1,500	90	107	36.0	89	42-261	121-350	222
09104263VS*	ICE-LBG-SR M48	20.0	2,000	90	103	36.0	89	48-301	137-390	222

RUD Item No. includes thread diameter. * Available on indent.

Designed for applications where there is constant rotary movement. Double ball bearing avoids unintentional unfastening of fixing bolt. New ICE-Bolt offers increased bending resistance.

- Rotates 360° and pivots 180°.
- Available in variable bolt lengths (refer column H above).
- Corrosion protection.
- Clearly marked with required torque and WLL in all directions.
- Manufactured in Germany.



SUPER ROTATION

• CAD drawings available upon request.

- Never exceed Manufacturer's Working Load Limit (WLL).
- Always inspect lifting points carefully before each use!

LIFTING & LASHING POINTS



RUD BOLT-ON

ICE-LBG-SR Working Load Limits – G in Tonnes



Product Code			09104251SR 09104251VS	09104252SR 09104252VS	09104253SR 09104253VS	09104254SR 09104254VS	09104255SR 09104255VS	09104256SR 09104256VS	09104258SR 09104258VS	09104260SR 09104260VS	09104261SR 09104261VS	09104262SR 09104262VS	09104263SR 09104263VS
Type			0.3t	0.63t	1.0t	1.5t	2.5t	4.0t	5.0t	8.0t	10.0t	15.0t	20.0t
Thread Size			M8	M10	M12	M16	M20	M24	M30	M36	M42	M42	M48
Number of Legs		β											
	1	0°	0.30	0.63	1.0	1.5	2.5	4.0	5.0	8.0	10.0	15.0	20.0
	1	90°	0.30	0.63	1.0	1.5	2.5	4.0	5.0	8.0	10.0	15.0	20.0
	2, 3 or 4	60°	0.52	1.10	1.7	2.6	4.3	6.9	8.6	13.8	17.3	26.0	34.6
	2, 3 or 4	90°	0.42	0.89	1.4	2.1	3.5	5.6	7.0	11.3	14.1	21.2	28.2
	2, 3 or 4	120°	0.30	0.63	1.0	1.5	2.5	4.0	5.0	8.0	10.0	15.0	20.0

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LIFTING POINTS
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• WLL chart applies to both standard bolt length and variable bolt length (vario) models.

• Never exceed Manufacturer's Working Load Limit (WLL).
• Always inspect lifting points carefully before each use!

LIFTING & LASHING POINTS

RUD BOLT-ON

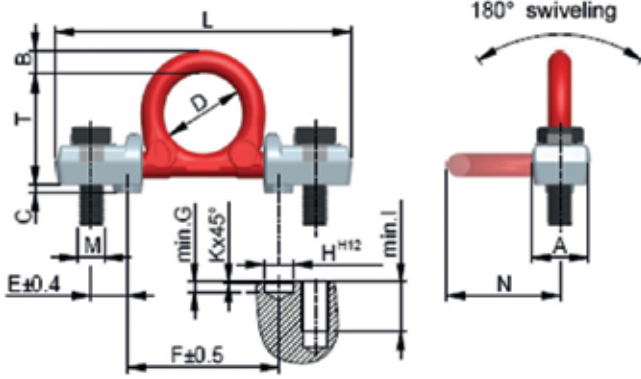
Load Ring – RBG / VRBG



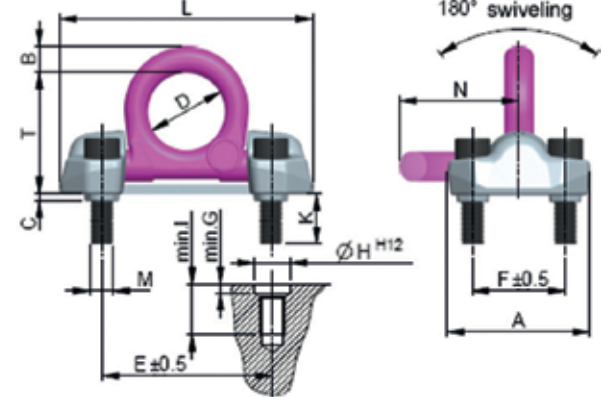
Product Code	RUD Item No.	WLL t	Torque Nm	Dimensions (mm)														Screw	N. W. kg
				A	B	C	D	E	F	G	H	J	K	L	M	N	T		
09104990*	RBG 3	3	120	34	16	5	48	22	92	6	18	30	1	178	16	71	67	M16x50-10.9	0.9
09104991*	RBG 8	8	200	120	22	6	65	143	78	8	30	50	45	194	20	100	102	M20x70-12.9	4.1
09104994*	VRBG 10	10	300	120	22	6	65	143	78	8	30	50	—	213	20	100	102	M20x70-12.9	4.1
09104995*	VRBG 16	16	600	170	30	8	90	198	104	10	46	70	—	270	30	134	131	M30x90-12.9	11.3

* Available on indent.

RBG 3



RBG 8, VRBG 10, VRBG 16



Lifting points ready for bolting with patented relief naps, protecting the fixing screws against bending- and shearing loads. This provides additional safety. Stowable with smaller bolts and thus low profile.

- Manufactured using Grade 80 material.
- Complies with EN1677.
- 100% electro-magnetic crack detection tested.
- Multi-directional loading.
- Ring folds flat.
- Rated capacity can be increased 100% in lashing applications.
- Manufactured in Germany.

VLBG Working Load Limits – G in Tonnes

Lifting Mode		Single Leg		2, 3 or 4 Legs		
Product Code	RUD Item No.	G	G	60°	90°	120°
09104990	RBG 3	3	3	5.2	4.2	3
09104991	RBG 8	8	8	13.8	11.3	8
09104994	VRBG 10	10	10	17.3	14.1	10
09104995	VRBG 16	16	16	27.7	22.6	16



• CAD drawings available upon request.



- Never exceed Manufacturer's Working Load Limit (WLL).
- Always inspect lifting points carefully before each use!

LIFTING & LASHING POINTS

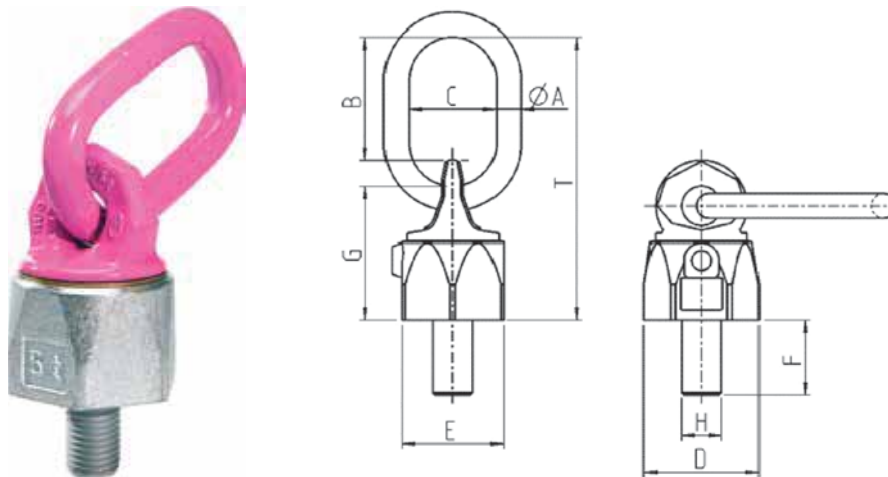
RUD BOLT-ON

Swivel Load Ring – VWBG-V



Product Code	RUD Item No.	WLL	Dimensions (mm)								Screw	Weight
		t	Ø A	B	C	D	E	F	G	T	H	kg
09104908*	VWBG-V 0.3	0.3	8	31	29	30	28	13	36	76	M8	0.18
09104910*	VWBG-V 0.45	0.45	8	31	29	36	30	17	38	78	M10	0.29
09104912*	VWBG-V 0.6	0.6	10	49	35	42	36	21	47	107	M12	0.41
09104914*	VWBG-V 1.0	1.0	13	46	38	48	41	21	56	113	M14	0.63
09104916*	VWBG-V 1.3	1.3	13	46	38	48	41	25	56	113	M16	0.69
09104918*	VWBG-V 1.8	1.8	13	54	35	62	55	27	67	137	M18	1.18
09104920*	VWBG-V 2.0	2.0	13	54	35	62	55	33	67	137	M20	1.42
09104924*	VWBG-V 3.5	3.5	18	66	40	81	70	40	88	173	M24	2.63
09104930*	VWBG-V 5.0	5.0	22	90	50	99	85	50	106	221	M30	5.09

* Available on indent.



The VWBG-V Load Ring is a high tensile, approved suspension ring according EN1677 – 4.

- Loadable in any direction. Design factor 4:1.
- Bolts 100% electro-magnetic crack detection tested.
- Surface protection CORRUD-DT (20 times better than zinc plating).
- Turnable under load in vertical direction.
- Simple installation, just a thread hole is required.
- Surface: Ring pink powder coating. Housing: zinc plated.
- VWBG-V is also available with UNC imperial thread sizes and in variable bolt length.
- Manufactured in Germany.



• CAD drawings available upon request.



- Never exceed Manufacturer's Working Load Limit (WLL).
- Always inspect lifting points carefully before each use!

LIFTING & LASHING POINTS

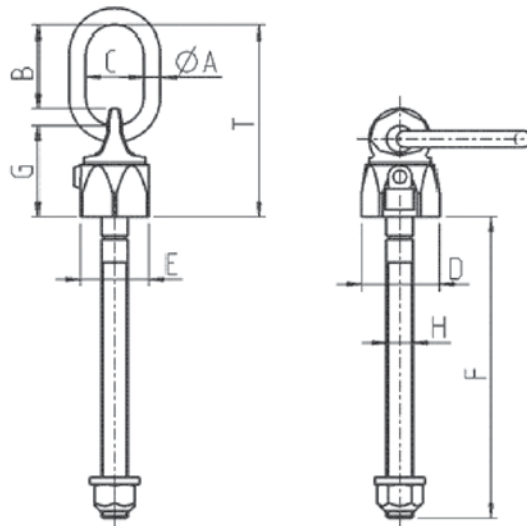
RUD BOLT-ON

Swivel Load Ring Variable Bolt Length – VWBG-V VARIO



Product Code	RUD Item No.	WLL	Dimensions (mm)								Screw
		t	Ø A	B	C	D	E	F _{max}	G	T	H
09104908V*	VWBG-V-VARIO 0.3	0.3	8	31	29	30	28	102	36	76	M8
09104910V*	VWBG-V-VARIO 0.45	0.45	8	31	29	36	30	122	38	78	M10
09104912V*	VWBG-V-VARIO 0.6	0.6	10	49	35	42	36	140	47	107	M12
09104914V*	VWBG-V-VARIO 1.0	1.0	13	46	38	48	41	65	56	114	M14
09104916V*	VWBG-V-VARIO 1.3	1.3	13	46	38	48	41	180	56	114	M16
09104918V*	VWBG-V-VARIO 1.8	1.8	13	54	35	62	55	83	67	137	M18
09104920V*	VWBG-V-VARIO 2.0	2.0	13	54	35	62	55	223	67	137	M20
09104924V*	VWBG-V-VARIO 3.5	3.5	18	66	40	81	70	255	88	173	M24
09104930V*	VWBG-V-VARIO 5.0	5.0	22	90	50	99	85	330	106	221	M30

* Available on indent.



Same as VWBG-V Swivel Load Rings detailed on previous page with variable bolt lengths. Refer Column F for maximum bolt length.

- Loadable in any direction. Design factor 4:1.
- Bolts 100% electro-magnetic crack detection tested.
- Surface protection CORRUD-DT (20 times better than zinc plating).
- Turnable under load in vertical direction.
- Simple installation, just a thread hole is required.
- Surface: Ring pink powder coating. Housing: zinc plated.
- VWBG-V VARIO is also available with UNC imperial thread sizes.
- Manufactured in Germany.



• CAD drawings available upon request.



- Never exceed Manufacturer's Working Load Limit (WLL).
- Always inspect lifting points carefully before each use!

LIFTING & LASHING POINTS

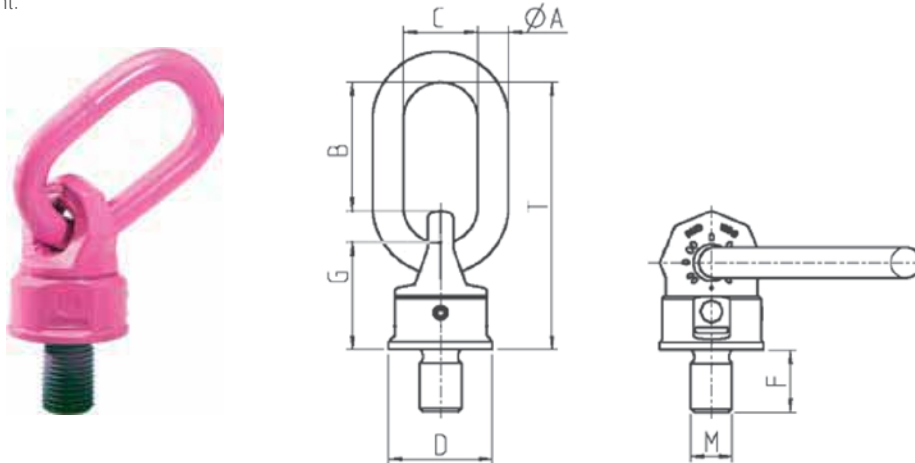
RUD BOLT-ON

Swivel Load Ring – VWBG



Product Code	RUD Item No.	WLL	Dimensions (mm)							Screw	Weight
		t	Ø A	B	C	D	F	G	T	M	kg
09104940*	VWBG 8	8.0	22	86	50	90	54	94	208	M36	4.7
09104942*	VWBG 12	12.0	26	111	65	98	63	96	235	M42	6.1
09104948*	VWBG 12	12.0	26	111	65	98	67	96	235	M45	6.2
09104950*	VWBG 13	13.0	26	111	65	98	68	96	235	M48	6.3
09104956*	VWBG 14	14.0	32	119	70	120	78	120	274	M52	10.5
09104960*	VWBG 16	16.0	32	119	70	120	84	120	274	M56	10.7
09104964*	VWBG 16	16.0	32	119	70	120	94	120	274	M64	11.4
09104972*	VWBG 31.5	31.5	46	130	90	170	108	159	338	M72	29.9
09104980*	VWBG 35	35.0	46	130	90	170	120	159	338	M80	31.2
09104985*	VWBG 40	40.0	46	170	110	170	135	159	378	M90	34.4

* Available on indent.



The VWBG Load Ring is a high tensile, approved suspension ring according EN1677 – 4.

- Simple installation, just a thread hole is required.
- Loadable in any direction. Design factor 4:1.
- Bolts 100% electro-magnetic crack detection tested.
- Surface protection CORRUD-DT (20 times better than zinc plating).
- Turnable under load in vertical direction.
- Surface: Pink powder coating.
- VWBG is also available with UNC imperial thread sizes and in variable bolt length.
- Manufactured in Germany.



• CAD drawings available upon request.



- Never exceed Manufacturer's Working Load Limit (WLL).
- Always inspect lifting points carefully before each use!

LIFTING & LASHING POINTS

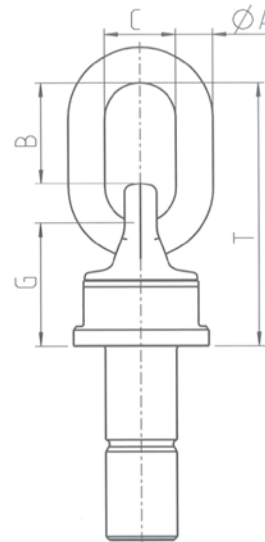
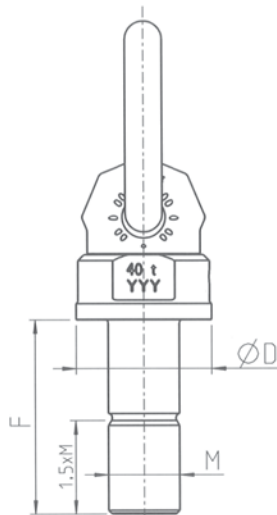
RUD BOLT-ON

Swivel Load Ring Variable Bolt Length – VWBG VARIO



Product Code	RUD Item No.	WLL t	Dimensions (mm)							Screw M
			Ø A	B	C	D	F	G	T	
09104938V*	VWBG-VARIO 6	6	22	86	50	90	33-300	94	208	M33
09104940V*	VWBG-VARIO 8	8	22	86	50	90	36-300	94	208	M36
09104942V*	VWBG-VARIO 12	12	26	111	65	98	42-300	96	235	M42
09104950V*	VWBG-VARIO 13	13	26	111	65	98	48-300	96	235	M48
09104960V*	VWBG-VARIO 16	16	32	119	70	120	56-300	120	274	M56
09104964V*	VWBG-VARIO 16	16	32	119	70	120	64-300	120	274	M64
09104972V*	VWBG-VARIO 31.5	31.5	46	130	90	170	72-300	159	338	M72
09104980V*	VWBG-VARIO 35	35	46	130	90	170	80-300	159	338	M80
09104985V*	VWBG-VARIO 40	40	46	170	110	170	90-300	159	378	M90

* Available on indent.



The VWBG VARIO Load Ring is a high tensile, approved suspension ring according EN1677 – 4.

- Simple installation, just a thread hole is required.
- Loadable in any direction. Design factor 4:1.
- Bolts 100% electro-magnetic crack detection tested.
- Surface protection CORRUD-DT (20 times better than zinc plating).
- Turnable under load in vertical direction.
- Surface: Pink powder coating.
- VWBG VARIO is also available with UNC imperial thread sizes.
- Manufactured in Germany.



• CAD drawings available upon request.



- Never exceed Manufacturer's Working Load Limit (WLL).
- Always inspect lifting points carefully before each use!

LIFTING & LASHING POINTS

RUD BOLT-ON

PowerPoint® – PP-S with Hook

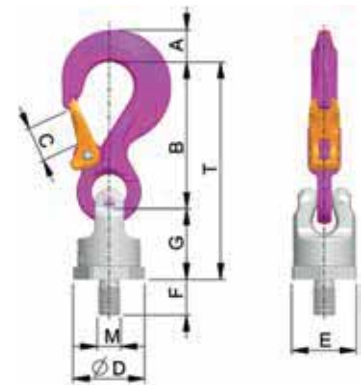


Product Code		RUD Item No.	WLL	Torque	Dimensions (mm)										N. W.
Standard	Vario				t	Nm	A	B	T	C	D	E	F _{Standard}	F _{Vario}	
09104851*	09104851V*	PP-S M12	0.63	10	13	75	116	18	40	36	18	19-145	41	12	0.4
09104852*	09104852V*	PP-S M16	1.5	30	20	97	147	25	46	41	25	26-180	50	16	1.0
09104853*	09104853V*	PP-S M20	2.5	70	28	126	187	30	61	55	30	31-200	61	20	1.7
09104854*	09104854V*	PP-S M24	4.0	150	36	150	227	35	78	70	36	37-255	77	24	3.5
09104855*	09104855V*	PP-S M30	5.0 (6.7)	225	37	174	267	40	95	85	45	46-330	93	30	7.2
09104856*	09104856V*	PP-S M36	8.0 (10.0)	410	49	208	310	48	100	90	54	55-300	102	36	9.2

() Increased WLL in axial load direction. * Available on indent.

The PowerPoint® PP-S range offers a functional, compact innovative design. The range is 100% electro-magnetic crack tested and painted in the unique durable RUD pink powder coated finish.

- Manufactured using high tensile CrNiMo steel.
- Offers a full WLL in any direction with 4:1 lifting design factor.
- Complies with EN1677.
- Double ball bearing for free turning and soft winding:
360° swiveling / 180° pivoting.
- Maximum load limit at smallest thread diameter.
- Variable thread lengths available – refer column F (Vario) above.
- Also available with UNC threads.
- Manufactured in Germany.



PP-S Working Load Limits – G in Tonnes

Lifting Mode		Single Leg		2, 3 or 4 Legs		
					60°	90°
Product Code	RUD Item No.					
09104851	PPS M12	0.63	0.63	1.1	0.89	0.63
09104852	PPS M16	1.5	1.5	2.6	2.1	1.5
09104853	PPS M20	2.5	2.5	4.3	3.5	2.5
09104854	PPS M24	4.0	4.0	6.9	5.6	4.0
09104855	PPS M30	6.7	5.0	8.6	7.0	5.0
09104856	PPS M36	10.0	8.0	13.8	11.3	8.0



• CAD drawings available upon request.

- Never exceed Manufacturer's Working Load Limit (WLL).
- Always inspect lifting points carefully before each use!

08
LIFTING POINTS
& EYE BOLTS

LIFTING & LASHING POINTS

RUD BOLT-ON

PowerPoint® – PP-B with Lifting Ring

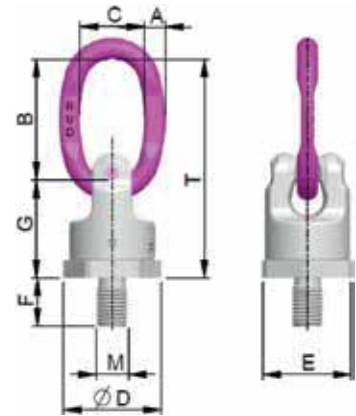


Product Code		RUD Item No.	WLL	Torque	Dimensions (mm)										N. W.
Standard	Vario				t	Nm	A	B	T	C	D	E	F _{Standard}	F _{Vario}	
09104861*	09104861V*	PP-B M12	0.63	10	9	65	105	35	40	36	18	19-145	41	12	0.35
09104862*	09104862V*	PP-B M16	1.5	30	11	65	115	35	46	41	25	26-180	50	16	0.6
09104863*	09104863V*	PP-B M20	2.5	70	13	74	135	40	61	55	30	31-200	61	20	1.1
09104864*	09104864V*	PP-B M24	4.0	150	16	95	172	45	78	70	36	37-255	77	24	2.4
09104865*	09104865V*	PP-B M30	5.0 (6.7)	225	19	130	223	60	95	85	45	46-330	93	30	5.2
09104866*	09104866V*	PP-B M36	8.0 (10.0)	410	24	140	242	65	100	90	54	55-300	102	36	6.3

() Increased WLL in axial load direction. * Available on indent.

The PowerPoint® PP-B range offers a functional, compact innovative design. The range is 100% electro-magnetic crack tested and painted in the unique durable RUD pink powder coated finish.

- Manufactured using high tensile CrNiMo steel.
- Offers a full WLL in any direction with 4:1 lifting design factor.
- Complies with EN1677.
- Double ball bearing for free turning and soft winding: 360° swiveling / 180° pivoting.
- Maximum load limit at smallest thread diameter.
- Variable thread lengths available – refer column F (Vario) above.
- Also available with UNC threads.
- Manufactured in Germany.



08 LIFTING POINTS & EYE BOLTS

PP-B Working Load Limits – G in Tonnes

Lifting Mode		Single Leg		2, 3 or 4 Legs		
					60°	90°
Product Code	RUD Item No.					
09104861	PP-B M12	0.63	0.63	1.1	0.89	0.63
09104862	PP-B M16	1.5	1.5	2.6	2.1	1.5
09104863	PP-B M20	2.5	2.5	4.3	3.5	2.5
09104864	PP-B M24	4.0	4.0	6.9	5.6	4.0
09104865	PP-B M30	6.7	5.0	8.6	7.0	5.0
09104866	PP-B M36	10.0	8.0	13.8	11.3	8.0



• CAD drawings available upon request.

• Never exceed Manufacturer's Working Load Limit (WLL).
• Always inspect lifting points carefully before each use!

LIFTING & LASHING POINTS

RUD BOLT-ON

PowerPoint® – PP-VIP with Chain Clevis

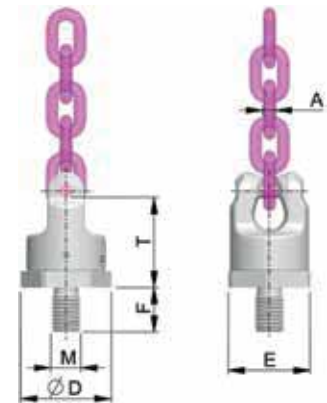


Product Code		RUD Item No.	WLL	Torque	Dimensions (mm)							N. W.
Standard	Vario		t	Nm	A	T	D	E	F _{Standard}	F _{Vario}	M	kg
09104871*	09104871V*	PP-VIP M12	0.63	10	4	41	40	36	18	19-145	12	0.25
09104872*	09104872V*	PP-VIP M16	1.5	30	6	50	46	41	25	26-180	16	0.45
09104873*	09104873V*	PP-VIP M20	2.5	70	8	61	61	55	30	31-200	20	0.95
09104874*	09104874V*	PP-VIP M24	4.0	150	10	77	78	70	36	37-255	24	2.2
09104875*	09104875V*	PP-VIP M30	5.0 (6.7)	225	13	93	95	85	45	46-330	30	3.5
09104876*	09104876V*	PP-VIP M36	8.0 (10.0)	410	16	102	100	90	54	55-300	36	5.2

() Increased WLL in axial load direction. * Available on indent.

The PowerPoint® PP-VIP range offers a functional, compact innovative design. The range is 100% electro-magnetic crack tested and painted in the unique durable RUD pink powder coated finish.

- Manufactured using high tensile CrNiMo steel.
- Offers a full WLL in any direction with 4:1 lifting design factor.
- Complies with EN1677.
- Double ball bearing for free turning and soft winding:
360° swiveling / 180° pivoting.
- Maximum load limit at smallest thread diameter.
- Variable thread lengths available – refer column F (Vario) above.
- Also available with UNC threads.
- Manufactured in Germany.



PP-VIP Working Load Limits – G in Tonnes

Lifting Mode		Single Leg		2, 3 or 4 Legs		
Product Code	RUD Item No.			60°	90°	120°
09104871	PP-VIP M12	0.63	0.63	1.1	0.89	0.63
09104872	PP-VIP M16	1.5	1.5	2.6	2.1	1.5
09104873	PP-VIP M20	2.5	2.5	4.3	3.5	2.5
09104874	PP-VIP M24	4.0	4.0	6.9	5.6	4.0
09104875	PP-VIP M30	6.7	5.0	8.6	7.0	5.0
09104876	PP-VIP M36	10.0	8.0	13.8	11.3	8.0



• CAD drawings available upon request.

• Never exceed Manufacturer's Working Load Limit (WLL).
• Always inspect lifting points carefully before each use!
• RUD warranty applies when used with RUD VIP Grade 100 Chain.

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LIFTING POINTS
& EYE BOLTS

LIFTING & LASHING POINTS

RUD BOLT-ON

PowerPoint® Vario Models

All RUD PowerPoint® swivelling lifting points are available with variable bolt lengths.

PowerPoint® – Vario Thread Table



Thread Size	Vario Thread Length	Standard Thread Length
Metric	Min – Max (mm)	mm
M12	19 – 145	18
M16	26 – 180	25
M20	31 – 200	30
M24	37 – 255	36
M30	46 – 330	45
M36	56 – 300	54



PP-S Vario

PP-B Vario

PP-VIP Vario

The PowerPoint® PP-VIP range offers a functional, compact innovative design. The range is 100% electro-magnetic crack tested and painted in the unique durable RUD pink powder coated finish. Easy identification of Working Load Limit.

Can be turned under full load even in a 90° position from the bolt centre line. Fast amortization because of easy handling. Warranty can only be guaranteed with originally assembled RUD components and chains.

Genuine RUD bolts supplied with washer and 100% crack detected nut.

- Manufactured using high tensile CrNiMo steel.
- Offers a full WLL in any direction with 4:1 lifting design factor.
- Complies with EN1677.
- Double ball bearing for free turning and soft winding: 360° swivelling / 180° pivoting.
- Maximum load limit at smallest thread diameter.
- Also available with UNC threads.
- Manufactured in Germany.



• CAD drawings available upon request.



- Never exceed Manufacturer's Working Load Limit (WLL).
- Always inspect lifting points carefully before each use!

EYE BOLTS

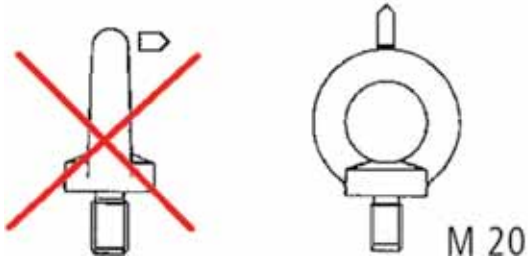
RUD STARPOINT EYE BOLTS

Starpoint Eye Bolt VRS-F The superior alternative to conventional DIN580 or BS4278 eye bolts.

– COMPARISON –

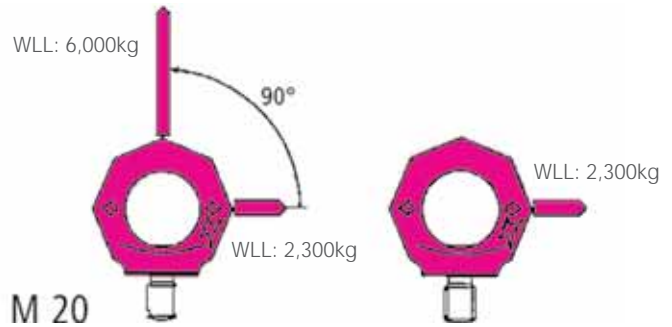
Eye Bolt BS4278-M20
AS2317-M20

WLL: 1,600kg



Starpoint VRS-M20

WLL: 6,000kg



Starpoint Eye Bolts include an integrated installation tool.

Simply engage the tool into the hexagon socket screw – tighten by hand – disengage tool – done!



The new generation of eye bolts from RUD in Germany.
RUD Starpoints: The perfect solution to eliminate unsafe eye bolts.

EYE BOLTS

RUD STARPOINT EYE BOLTS

Starpoint Eye Bolt – VRS-F

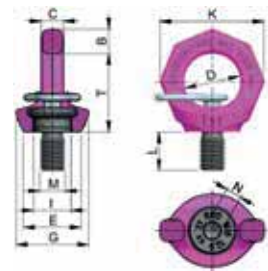


Product Code	RUD Item No.	WLL	Dimensions (mm)											N. W.
		t	B	T	C	D	E	G	I	K	L	M	N	kg
09104508	VRS-F M8	0.4	11	34	9	25	25	31	16.3	47	12	8	6	0.1
09104510	VRS-F M10	0.4	11	34	9	25	25	31	16.3	47	15	10	6	0.1
09104512	VRS-F M12	0.75	13	42	10	30	30	38	19.8	56	18	12	8	0.2
09104516	VRS-F M16	1.5	15	49	14	35	35	41	23.9	65	24	16	10	0.3
09104520	VRS-F M20	2.3	17	57	16	40	40	50	29.6	75	30	20	12	0.5
09104524	VRS-F M24	3.2	21	69	19	49	50	60	35.5	90	36	24	14	0.9
09104530	VRS-F M30	4.5	26	86	24	60	66	75	44.5	112	45	30	17	1.7
09104536*	VRS-F M36	7.0	32	103	29	75	75	90	52.8	135	54	36	22	2.9
09104542*	VRS-F M42	9.0	38	120	34	82	85	105	61.5	158	63	42	24	4.6
09104548*	VRS-F M48	12.0	43	137	38	94	100	120	70.4	180	72	48	27	7.0

* Available on indent.

The STARPOINT Eye Bolt can be adjusted to the direction of pull allowing significantly higher load capacities than standard DIN580 eye bolts.

- Manufactured using high tensile CrNiMo steel.
- Complies with EN1677.
- Side loading permissible when adjusted to the correct plane.
- Grade 10.9 metric coarse pitch thread.
- Manufactured in Germany.



VRS-F Working Load Limits – G in Tonnes

Lifting Mode		Single Leg		2, 3 or 4 Legs		
					60°	90°
Product Code	RUD Item No.					
09104508	VRS-F M8	1.0	0.3	0.69	0.56	0.4
09104510	VRS-F M10	1.0	0.4	0.69	0.56	0.4
09104512	VRS-F M12	2.0	0.75	1.4	1.0	0.8
09104516	VRS-F M16	4.0	1.5	2.6	2.1	1.5
09104520	VRS-F M20	6.0	2.3	4.0	3.2	2.3
09104524	VRS-F M24	8.0	3.2	5.5	4.5	3.2
09104530	VRS-F M30	12.0	4.5	7.8	6.3	4.5
09104536	VRS-F M36	16.0	7.0	12.1	9.8	7.0
09104542	VRS-F M42	24.0	9.0	15.6	12.6	9.0
09104548	VRS-F M48	32.0	12.0	20.8	16.8	12.0



Fully adjustable to load direction.



• CAD drawings available upon request.



- Never exceed Manufacturer's Working Load Limit (WLL).
- Always inspect lifting points carefully before each use!

EYE BOLTS

RUD STARPOINT EYE BOLTS

Starpoint Eye Bolt – VRS-F Vario

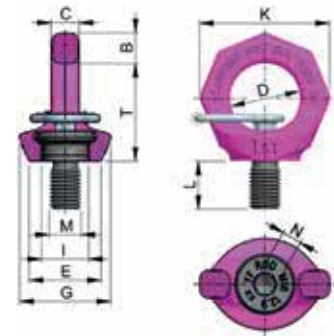


Product Code	RUD Item No.	WLL	Dimensions (mm)											N. W.
		t	B	T	C	D	E	G	I	K	L	M	N	kg
09104510V*	VRS-F Vario M10	0.4	11	34	8.5	25	25	32	16	47	16-70	10	6	0.15
09104512V*	VRS-F Vario M12	0.75	13	42	10	30	30	34	20	56	18-150	12	8	0.28
09104516V*	VRS-F Vario M16	1.5	15	49	14	35	35	35	23.5	65	16-120	16	10	0.35
09104520V*	VRS-F Vario M20	2.3	17	57	16	40	42	50	29	75	30-160	20	12	0.55
09104524V*	VRS-F Vario M24	3.2	21	70	19	48	50	60	35	90	36-140	24	14	0.9
09104530V*	VRS-F Vario M30	4.5	26	86	24	60	60	75	44	112	45-190	30	17	1.9

* Available on indent.

The STARPOINT Vario Eye Bolt can be adjusted to the direction of pull allowing significantly higher load capacities than standard DIN580 eye bolts.




- Manufactured using high tensile CrNiMo steel.
- Complies with EN1677.
- 4:1 design factor on Working Load Limit.
- 100% Electro-magnetic crack detection tested.
- Side loading permissible when adjusted to the correct plane.
- Class 10.9 metric coarse pitch thread.
- Countersunk hexagon socket screw held captive.
- Shape: Star (clearly distinguishable from other collared eyebolts).
- Colour: Pink powder coated.
- Manufactured in Germany.



08

LIFTING POINTS & EYE BOLTS

VRS-F Vario Working Load Limits – G in Tonnes

Lifting Mode		Single Leg		2, 3 or 4 Legs		
		 G	 G	 G	60°	90°
Product Code	RUD Item No.					
09104510V	VRS-F Vario M10	1.0	0.4	0.69	0.56	0.4
09104512V	VRS-F Vario M12	2.0	0.75	1.4	1.0	0.8
09104516V	VRS-F Vario M16	4.0	1.5	2.6	2.1	1.5
09104520V	VRS-F Vario M20	6.0	2.3	4.0	3.2	2.3
09104524V	VRS-F Vario M24	8.0	3.2	5.5	4.5	3.2
09104530V	VRS-F Vario M30	12.0	4.5	7.8	6.3	4.5



Fully adjustable to load direction.



• CAD drawings available upon request.



- Never exceed Manufacturer's Working Load Limit (WLL).
- Always inspect lifting points carefully before each use!

EYE BOLTS

RUD STAINLESS STEEL EYE BOLTS

Starpoint Eye Bolt – Stainless Steel



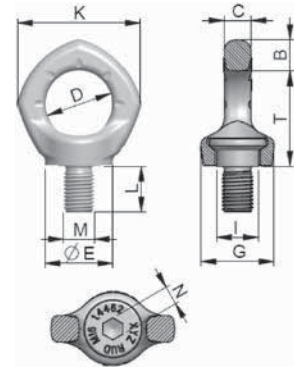
Product Code	RUD Item No.	WLL	Dimensions (mm)											N. W.
		t	B	T	C	D	E	G	I	K	L	M	N	kg
09104552*	Inox Star M12	0.5	14	43	10	30	30	32	20	56	18	12	8	0.2
09104554*	Inox Star M16	1.0	16	50	14	35	35.5	38	23.5	65	24	16	10	0.3
09104556*	Inox Star M20	2.0	19	57	16	40	41	46.5	29	74	30	20	12	0.5
09104558*	Inox Star M24	2.5	24	70	19	48	50	56	35	92	36	24	14	0.9

* Available on indent.

The INOX-STAR Eye Bolt offers a functional, compact innovative design. The range is 100% electro-magnetic crack tested and it's pentagonal shape makes it significantly different to the DIN 580 eyebolt.

Manufactured from stainless steel – 50% higher loading than DIN with no directional restrictions.

- 100% electro-magnetic crack detection tested.
- Turns through 360°. Can be set in the direction of the load.
- 4 :1 design factor.
- Forged eye body and screw with captive, mounted bolt.
- Pentagon shape is clearly distinguishable from other eye bolts.
- Manufactured in Germany.



VRM Working Load Limits – G in Tonnes

Lifting Mode		Single Leg		2, 3 or 4 Legs		
Product Code	RUD Item No.	G	G	60°	90°	120°
09104552	Inox Star M12	1.2	0.5	0.87	0.71	0.5
09104554	Inox Star M16	2.4	1.0	1.7	1.4	1.0
09104556	Inox Star M20	3.6	2.0	3.5	2.8	2.0
09104558	Inox Star M24	5.2	2.5	4.3	3.5	2.5



RUD Item No.	Torque
Inox Star M12	25 Nm
Inox Star M16	60 Nm
Inox Star M20	115 Nm
Inox Star M24	190 Nm

• CAD drawings available upon request.

• For permanent installation tighten to torque specified in the table above.
• For a temporary assembly, hand tightening with an allen key is sufficient.

• Never exceed Manufacturer's Working Load Limit (WLL).
• Always inspect lifting points carefully before each use!

EYE BOLTS

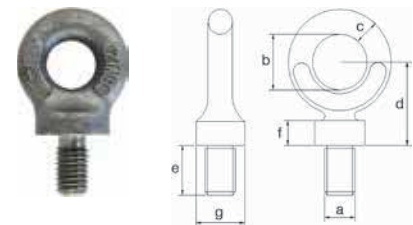
AS2317 COLLARED EYE BOLTS

Self Colour – Metric Thread (M8 – M30)

Product Code	WLL *	Thread	Dimensions (mm)						
	t		a	b	c	d	e	f	g
02102508	0.15	M8	8	12	9	27	18	5	17
02102510	0.25	M10	10	14	9	27	18	5	17
02102512	0.40	M12	12	18	9	27	18	5	17
02102516	0.80	M16	16	24	11	34	23	6	23
02102520	1.60	M20	20	29	15	47	32	9	32
02102522	2.00	M22	22	33	17	53	35	14	35
02102524	2.50	M24	24	38	19	60	40	12	40
02102530	4.00	M30	30	48	28	65	52	16	71

* WLL shown relates to 0° (vertical) lift.

- Manufactured generally in conformance with AS2317.
- Test certificates available.
- Manufactured in China.

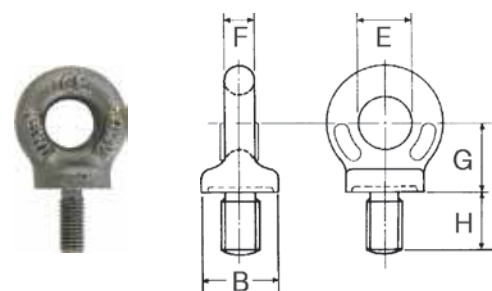


Self Colour – Imperial Thread (3/8" – 1.0")

Product Code	WLL *	Thread	Dimensions (mm)				
	t	in	B	E	F	G	H
02102009	0.25	3/8	22	15	9	20	18
02102013	0.40	1/2	29	20	12	26	23
02102016	0.80	5/8	36	24	14	32	28
02102019	1.60	3/4	45	30	18	40	35
02102022	2.00	7/8	52	35	21	46	40
02102026	2.50	1.0	58	39	23	52	46

* WLL shown relates to 0° (vertical) lift.

- Manufactured generally in conformance with AS2317.
- Whitworth thread.
- Test certificates available.
- Manufactured in China.



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LIFTING POINTS
& EYE BOLTS



• For WLL when used in pairs refer page 298.



• For Trunnion Lifting: The load taken by a single eyebolt should not exceed 25% of its marked WLL.



- Never exceed Manufacturer's Working Load Limit
- Always inspect eye bolts carefully before each use!
- Eye Bolts under 12mm are not recommended for lifting applications.

EYE BOLTS

BS4278 COLLARED EYE BOLTS

Self Colour – Metric Thread (M12 – M72)

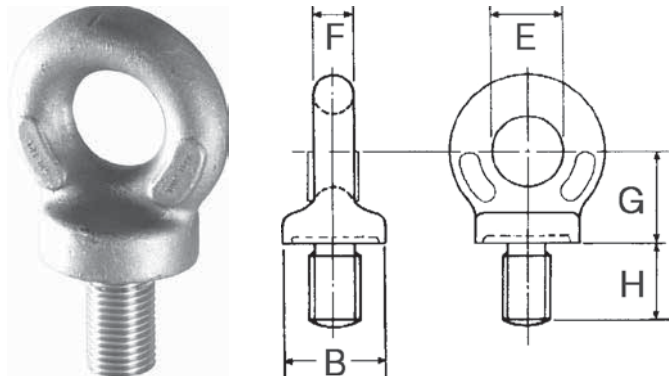


Product Code	Harris Walton Item No.	WLL **	Thread	Dimensions (mm)					Weight
		t		B	E	F	G	H	kg
07602M12	HW410/1	0.4	M12	22	15	9	20	18	0.07
07602M16	HW410/2	0.8	M16	29	20	12	26	23	0.16
07602M20	HW410/4	1.6	M20	40	27	16	36	32	0.44
07602M24	HW410/6	2.5	M24	52	35	21	46	40	0.85
07602M30	HW410/8	4.0	M30	65	44	26	58	51	1.66
07602M36	HW410/10	6.3	M36	81	54	32	72	63	3.17
07602M48	HW410/12A	10.0	M48	101	68	40	90	79	9.00
02102552*	HW410/13	12.5	M52	115	76	46	102	89	9.00
02102556*	HW410/14	16.0	M56	128	86	51	114	100	13.00
02102564*	HW410/15	20.0	M64	144	96	58	128	112	17.50
02102572*	HW410/16A	25.0	M72	162	108	65	144	126	31.00

* Available on indent. ** WLL shown relates to 0° (vertical) lift.

Self Colour Metric Thread Collar Eye Bolts.
Complies with BS4278:1984 Table 1.

- Hardened and tempered material.
- Metric coarse threads.
- Test certificates available.
- Manufactured in the U.K.



- For WLL when used in pairs refer page 298.
- Collared Eye Bolt Blanks: HW Eye bolt blanks allow us to supply eye bolts with some adjustment to shank length in sizes M30 through M48. For further information contact your nearest Cookes branch, Freephone 0508 274 366 or email customerservices@bridoncookes.co.nz.



- For Trunnion Lifting: The load taken by a single eyebolt should not exceed 25% of its marked WLL.



- Never exceed Manufacturer's Working Load Limit
- Always inspect eye bolts carefully before each use!

EYE BOLTS

BS4278 COLLARED EYE BOLTS

Self Colour – Imperial Thread (3/8" – 3.0")

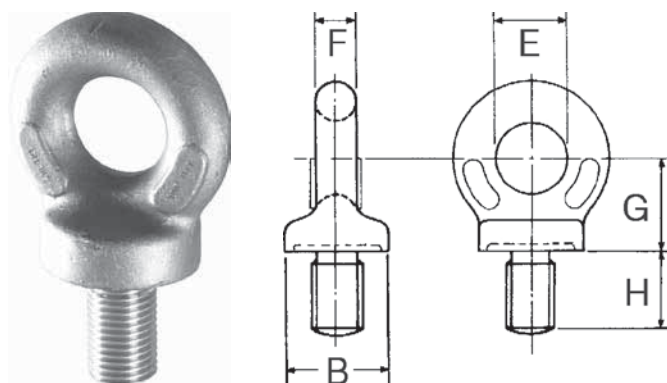


Product Code	Harris Walton Item No.	WLL (t)**		Thread	Dimensions (mm)					Weight kg
		0° vertical			B	E	F	G	H	
07600028	HW440/1	0.25		3/8	22	15	9	20	18	0.08
07600030	HW440/2	0.50		1/2	29	20	12	26	23	0.14
07600032	HW440/3	0.90		5/8	36	24	14	32	28	0.38
07600034	HW440/4	1.40		3/4	45	30	18	40	35	0.6.0
07600036	HW440/5	2.00		7/8	52	35	21	46	40	0.78
07600038	HW440/6	2.75		1.0	58	39	23	52	46	1.67
07600112	HW440/7	3.50		1 1/8	65	44	26	58	51	1.78
07600125	HW440/8	4.50		1 1/4	72	48	29	64	56	2.24
07600150	HW440/9	6.50		1 1/2	81	54	32	72	63	3.17
07600175	HW440/10	9.00		1 3/4	101	68	40	90	79	6.00
07600200	HW440/11	12.00		2.0	115	76	46	102	89	9.00
02102057*	HW440/12	15.00		2 1/4	128	86	51	114	100	15.00
02102064*	HW440/13	20.00		2 1/2	144	96	58	128	112	18.20
02102075*	HW440/14	30.00		3.0	172	114	67	153	133	30.40

* Available on indent. ** WLL shown relates to 0° (vertical) lift.

Self Colour Metric Thread Collar Eye Bolts.
Complies with BS4278:1984 Appendix 'A' Table 4.

- Hardened and tempered material.
- Whitworth thread.
- Test certificates available.
- Manufactured in the U.K.



- For WLL when used in pairs refer page 298.
- Collared Eye Bolt Blanks: HW Eye bolt blanks allow us to supply special threads or some adjustment to eye bolt shank length. For further information contact your nearest Cookes branch, Freephone 0508 274 366 or email customerservices@bridoncookes.co.nz.



- For Trunnion Lifting: The load taken by a single eyebolt should not exceed 25% of its marked WLL.



- Never exceed Manufacturer's Working Load Limit
- Always inspect eye bolts carefully before each use!

EYE BOLTS

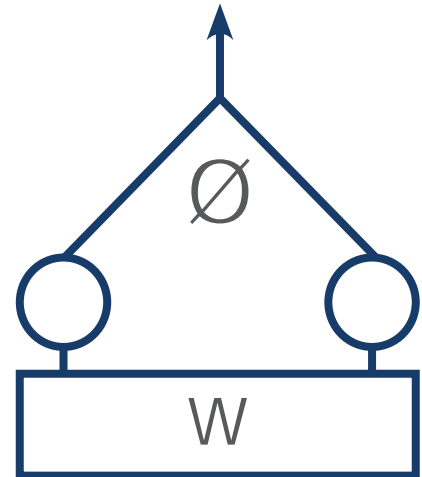
WLL TABLE FOR COLLARED EYE BOLTS USED IN PAIRS

WLL Chart for Inclined Lifting in Pairs

WLL for a single eyebolt	Maximum Load 'W' to be lifted by a pair of eyebolts when the angle θ between the legs is:		
	0° vertical	0° – 30°	30° – 60°
0.25	0.32	0.20	0.13
0.40	0.50	0.32	0.20
0.50	0.63	0.40	0.25
0.80	1.00	0.64	0.40
0.90	1.13	0.72	0.45
1.40	1.76	1.12	0.70
1.60	2.00	1.25	0.80
2.00	2.50	1.60	1.00
2.50	3.20	2.00	1.25
2.75	3.47	2.20	1.38
3.50	4.41	2.80	1.75
4.00	5.00	3.20	2.00
4.50	5.67	3.60	2.25
5.00	6.30	4.00	2.50
6.30	8.00	5.00	3.2
6.50	8.19	5.20	3.25
8.00	10.00	6.30	4.00
9.00	11.34	7.20	4.50
10.00	12.50	8.00	5.00
12.00	15.12	9.60	6.00
12.50	16.00	10.00	6.30
15.00	18.90	12.00	7.50
16.00	20.00	12.50	8.00
20.00	25.20	16.00	10.00
25.00	32.00	20.00	12.50
30.00	37.80	24.00	15.00

For Inclined Lifting:

Shown are the maximum recommended Working Load Limits (WLL) for British Standard Eye Bolts, imperial and metric threads, when used in pairs for inclined loading conditions.



08

LIFTING POINTS
& EYE BOLTS



Note 1: This chart covers only those collared eye bolts detailed on the preceding three pages.

Note 2: For Trunnion lifting the load taken by a single eye bolt should not exceed 25% of its marked WLL.

Note 3: Metric sizes under 12mm and imperial sizes under 3/8" are not recommended for lifting applications.



• Never exceed Manufacturer's Working Load Limit (WLL).

EYE BOLTS

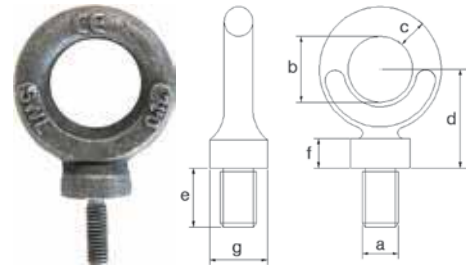
DYNAMO EYE BOLTS

Self Colour Dynamo Pattern – Metric Thread

Product Code	WLL	Thread	Dimensions (mm)							Weight
	t		a	b	c	d	e	f	g	kg
02102206	0.10	M6	6	22	9	27	18	5	17	0.07
02102208	0.15	M8	8	22	9	27	18	5	17	0.07
02102210	0.25	M10	10	22	9	27	18	5	17	0.07
02102212	0.32	M12	12	22	9	27	18	5	17	0.07
02102216	0.63	M16	16	29	11	34	23	6	23	0.14
02102220	1.25	M20	20	40	15	47	32	9	32	0.40
02102224	2.00	M24	24	51	19	60	40	12	40	0.80

Provides a larger eye diameter than conventional metric eye bolts.

- Generally in conformance with BS4278-3.
- Test certificates available.
- Manufactured in China.



CERTIFIED STAINLESS STEEL EYE BOLTS

Stainless Steel Eye Bolts – with Longer Thread

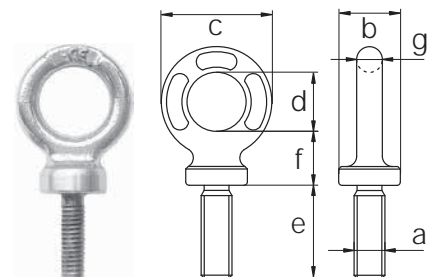
EXCEL[®]

Product Code	Excel Item No.	WLL *	Dimensions (mm)							Weight
		t	a	b	c	d	e	f	g	kg
02487010	AL10I	0.4	M10 x 1.50	20	38	22	30	19	8	0.08
02487012	AL12I	0.6	M12 x 1.75	25	47	26	36	23	10	0.14
02487016	AL16I	1.0	M16 x 2.00	36	65	35	55	30	14	0.37
02487020	AL20I	2.0	M20 x 2.50	40	73	39	59	34	16	0.58
02487024	AL24I	3.0	M24 x 3.00	55	95	54	84	40	20	1.12

* WLL applicable when angle of use is limited to maximum 30° from the axis.

Stainless Steel Eye Bolt. Longer thread length than DIN580 eye bolts (refer column e).

- Polished finish.
- AISI316L material.
- Tested and certified.
- 5:1 design factor.
- Manufactured in France.



- Never exceed Manufacturer's Working Load Limit (WLL).
- Eye Bolts under 12mm are not recommended for lifting applications.



- Do not use Dynamo Eye Bolts for inclined lift.
- When using Dynamo Eye Bolts in pairs or groups, a spreader frame must always be used.

EYE BOLTS

SHOULDER EYE BOLTS

Galvanised Shoulder Eye Bolts – Imperial Thread

Product Code	Thread	MWL*	Shank Length
	Inches	T	mm
02102660	1/4	0.20	122
02102662	5/16	0.35	138
02102666	3/8	0.50	151
0210270	1/2	1.00	184
02102674	1/2	1.00	284
02102678	5/8	1.50	295
02102682	5/8	1.50	395
02102686	3/4	2.30	320
02102690	3/4	2.30	420



Long shank eyebolt c-w washer and nut.

- Hot dip galvanised finish.
- Stamped with Maximum Working Load (refer below).
- Supplied with nut and washer.
- Manufactured in China.

• MWL: The Maximum Working Load is shown only for guidance in selecting an eye bolt with sufficient strength for the intended application.



• These eye bolts are stamped with a rating but with no batch number cross reference to their certificates, they are not suitable for lifting applications.

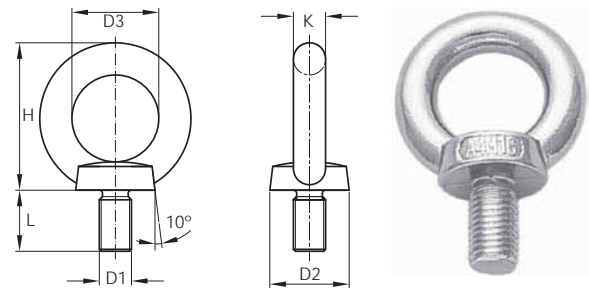
EYE BOLTS

UNCERTIFIED STAINLESS STEEL EYE BOLTS

Stainless Steel – Collared, Metric Thread

Product Code	MWL*	Size	Dimensions (mm)				
	kg	D1	D2	D3	H	L	K
09568580	70	M6	16	16	28.0	11.0	6
09568581	140	M8	20	20	33.0	13.0	8
09568582	230	M10	25	25	42.0	17.0	10
09568583	340	M12	30	30	51.0	20.5	12
09568584	700	M16	35	35	60.0	27.0	14
09568585	1,200	M20	40	40	68.8	30.0	16

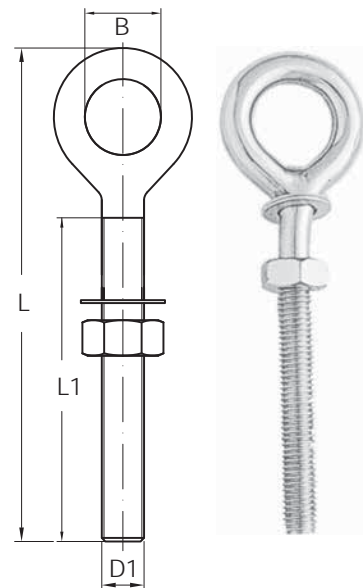
- DIN580 dimensions.
- AISI 316 Stainless Steel.
- Manufactured in China.



Stainless Steel Long Shank – Non-Collared, Metric Thread

Product Code	MWL*	Size	Dimensions (mm)		
	kg	D1	L	L1	B
09568716	209	M6	100	74	13
09568718	370	M8	130	92	16
09568720	574	M10	150	90	22

- AISI 316 Stainless Steel.
- Complete with nut and washer.
- Manufactured in China.



* MWL: The Maximum Working Load is shown only for guidance in selecting an eye bolt with sufficient strength for the intended application.



• Not suitable for lifting applications

EYE NUTS

RUD STARPOINT EYE NUTS

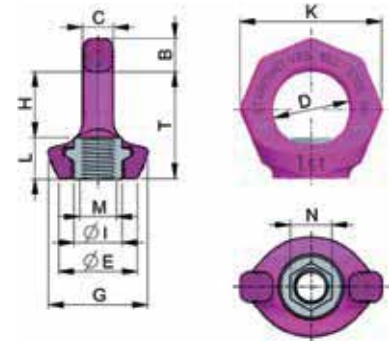
Starpoint Eye Nut – VRM



Product Code	RUD Item No.	WLL t	Dimensions (mm)												N. W. kg
			B	T	C	D	E	G	H	I	K	L	M	N	
09104306N	VRM M6	0.1	9	28	7	20	23	28	16	13	37	11	6	9	0.06
09104308N	VRM M8	0.3	11	34	8,5	25	25	28	20	16	47	14	8	12	0.1
09104310N	VRM M10	0.4	11	34	8,5	25	25	28	20	16	47	14	10	12	0.1
09104312N	VRM M12	0.75	13	42	10	30	30	34	25	20	56	17	12	14	0.2
09104316N	VRM M16	1.5	15	51	14	35	35.5	40	30	22	65	21	16	19	0.3
09104320N	VRM M20	2.3	17	57	16	40	40	50	34	29	75	23	20	24	0.5
09104324N	VRM M24	3.2	21	69	19	48	50	60	40	35	90	29	24	30	0.9
09104330N	VRM M30	4.5	26	86	24	60	60	75	52	44	112	34	30	36	1.5

The STARPOINT Eye Nut offers a functional, compact innovative design. The range is 100% electro-magnetic crack tested and painted in the unique durable RUD pink powder coat finish.

- Manufactured using high tensile CrNiMo steel.
- Side loading permissible when adjusted to the correct plane.
- Grade 10.9 metric coarse pitch thread
- Complies with EN1677.
- 4 :1 design factor on Working Load Limit.
- Star shaped (clearly distinguishable from other collared eyenuts).
- Manufactured in Germany.



VRM Working Load Limits – G in Tonnes

Lifting Mode		Single Leg		2, 3 or 4 Legs		
Product Code	RUD Item No.	G	G	60°	90°	120°
09104306N	VRM M6	0.5	0.1	0.17	0.14	0.1
09104308N	VRM M8	1.0	0.3	0.52	0.42	0.3
09104310N	VRM M10	1.0	0.4	0.69	0.56	0.4
09104312N	VRM M12	2.0	0.75	1.3	1.4	0.75
09104316N	VRM M16	4.0	1.5	2.6	2.1	1.5
09104320N	VRM M20	6.0	2.3	4.0	3.2	2.3
09104324N	VRM M24	8.0	3.2	5.5	4.5	3.2
09104330N	VRM M30	12.0	4.5	7.8	6.3	4.5



• CAD drawings available upon request.



- Never exceed Manufacturer's Working Load Limit (WLL).
- Always inspect lifting points carefully before each use!
- Not suitable for swivelling under load and swivelling movement must be avoided during transportation.

EYE NUTS

RUD STARPOINT EYE NUTS

Starpoint Eye Nut – RM

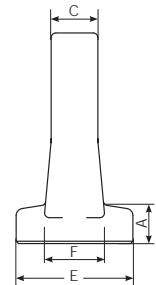
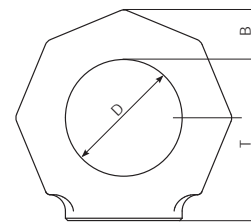


Product Code	RUD Item No.	WLL – F2	Dimensions (mm)							Weight
		t	A	B	C	D	E	F	T	kg
09104312*	RM – M12	0.4	18	13	12	30	30	12	41	0.20
09104316*	RM – M16	0.8	24	15	14	35	35	13	48	0.30
09104320*	RM – M20	1.5	30	17	16	40	40	16	55	0.45
09104324*	RM – M24	2.0	36	21	20	50	50	20	70	0.70
09104330*	RM – M30	3.0	45	26	24	60	60	25	85	1.60
09104336*	RM – M36	4.0	54	43	38	90	100	37	130	6.00
09104342*	RM – M42	6.0	53	43	38	90	100	37	130	6.20
09104348*	RM – M48	8.0	68	43	38	90	100	37	130	6.40

* Available on indent.

The RUD RM Eye Nuts provide a higher WLL than DIN582 eye nuts in equivalent size. The octagonal shape symbolises quality class 8.

- Clear WLL shown for the most unfavourable load direction (refer F2 WLL above).
- Loaded in direction F1 (refer chart below) up to 4 times higher WLL than F2.
- 100% electromagnetic crack detected according to EN1677.
- 4 :1 design factor on Working Load Limit.
- Manufactured in Germany.



RM Working Load Limits – G in Tonnes

Lifting Mode		Single Leg – F1	
		G	G
Product Code	RUD Item No.	Vertical Lift	90°
09104312	RM – M12	1.6	0.4
09104316	RM – M16	4.0	0.8
09104320	RM – M20	6.0	1.5
09104324	RM – M24	8.0	2.0
09104330	RM – M30	12.0	3.0
09104336	RM – M36	16.0	4.0
09104342	RM – M42	24.0	6.0
09104348	RM – M48	32.0	8.0

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LIFTING POINTS
& EYE BOLTS

• CAD drawings available upon request.

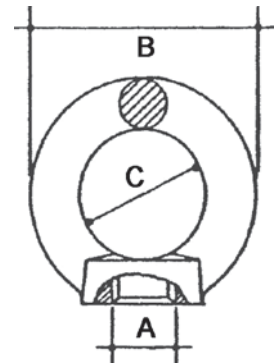
• Never exceed Manufacturer's Working Load Limit
 • Always inspect lifting points carefully before each use!
 • The RM Eye Nut is not suitable for swivelling under load and swivelling movement must be avoided during transportation.
 • To guarantee the WLL, RUD RM eye nuts must be used with a thread connection of at least quality 8.8.

EYE NUTS

DIN582 COLLARED EYE NUTS

Shouldered Eye Nuts

Product Code	Metric Thread	WLL (kg)	Dimensions (mm)	
	A	0°	B	C
02102608	M8	140	36	20
02102610	M10	230	45	25
02102612	M12	340	54	30
02102616	M16	700	63	35
02102618	M18	900	72	40
02102620	M20	1,200	72	40
02102624	M24	1,800	90	50
02102630*	M30	3,600	108	60
02102636*	M36	5,100	126	70
02102642*	M42	7,000	144	80
02102648*	M48	8,600	188	90



* Available on indent.

Metric Thread Shouldered Eye Bolts are primarily intended as permanent attachments on equipment such as motors, control cabinets, gear boxes, etc.

- Complies with DIN582.
- For increased loading capacities refer Rud Eye Nuts page 302.
- Sizes M8 – M24, Zinc Plated, manufactured in China.
- Sizes M30 – M48, Self Colour, manufactured in the UK.



• DIN582 Collared Eye Bolts are recommended for axial loading only.



- Never exceed WLL which is shown for axial loading.
- To maintain the full WLL as shown you must ensure:
 1. The eye nut is fully tightened by sufficient thread depth.
 2. The eye nut must be in the correct plane and the collar must sit evenly on the contact surface.
 3. The bolt thread length is sufficient.
 4. The material of the bolt on which the eye nut will be screwed is of adequate strength.

EYE NUTS

STAINLESS STEEL EYE NUTS

Certified Stainless Steel Eye Nuts

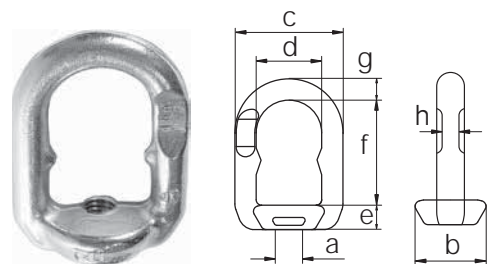
EXCEL[®]

Product Code	Excel Item No.	WLL*	Dimensions (mm)								Weight kg
		t	a	b	c	d	e	f	g	h	
02486010	EL10I	0.4	M10 x 1.50	31	51	30	14	44	11	6	0.15
02486012	EL12I	0.6	M12 x 1.75	39	56	32	15	48	12	7	0.23
02486016	EL16I	1.0	M16 x 2.00	44	66	37	17	60	14	9	0.37
02486020	EL20I	2.0	M20 x 2.50	44	66	37	17	60	14	9	0.37
02486024	EL24I	3.0	M24 x 3.00	52	81	48	21	75	17	11	0.63

* WLL applicable when angle of use is limited to maximum 30° from the axis.

Stainless Steel Eye Nut. Polished finish.

- AISI316L material.
- Tested and certified.
- 5:1 design factor.
- Manufactured in France.



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LIFTING POINTS
& EYE BOLTS



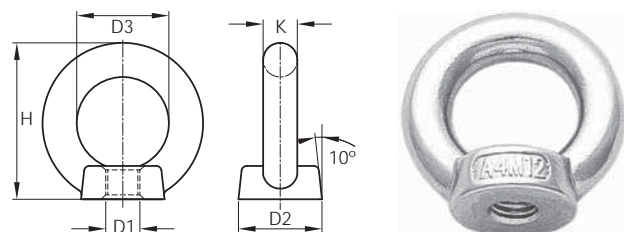
- Never exceed WLL which is shown for axial loading.
- Any angle of use beyond 30° from the axis will decrease the WLL substantially and should be avoided.

General Purpose Commercial Stainless Steel Eye Nuts

Product Code	MWL*	Thread (D1)	Dimensions (mm)			
	kg		D2	D3	H	K
09568590	70	M6	16	16	28.0	6
09568591	140	M8	20	20	33.0	8
09568592	230	M10	25	25	42.0	10
09568593	340	M12	30	30	51.0	12
09568594	700	M16	35	35	60.0	14
09568595	1,200	M20	40	40	68.8	16

A stainless steel eye nut for general purpose applications.

- AISI316 Stainless Steel.
- Polished finish.
- Design factor 4:1 MWL to MBL.
- Manufactured in China.



- MWL: The Maximum Working Load is shown only for guidance in selecting an eye nut with sufficient strength for the intended application.



- General Purpose Commercial Stainless Steel Eye Nuts are not suitable for lifting applications.

LIFTING & LASHING POINTS

FERRY LASHING RINGS

Under the Maritime New Zealand rule dated May 2012, heavy vehicles including semi-trailers must have suitable lashing points when travelling on Cook Strait ferries. To meet this new rule, lashing points must have a minimum inside diameter of 80mm.

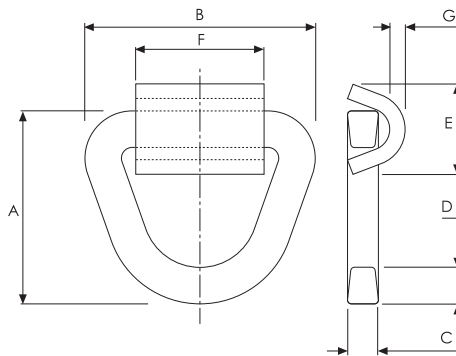
Cookes is pleased to offer lashing points that meet the Maritime New Zealand requirement.

Ferry (Roro) Lashing Rings

Product Code	Lashing Capacity (t)	Dimensions (mm)							Weight
		A	B	C	D	E	F	G	kg
09105000	12	151	176	25	28	70	100	12	2.95

Meet the Maritime New Zealand rule from May 2012 relating to heavy vehicles travelling on the Cook Strait ferries.

- Conform with EN29367 (ISO9367)
- Forged steel, galvanised triangular ring exceeds 80mm diameter.
- Weld-on mild steel cleat for fixing.
- Manufactured in China.



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LIFTING POINTS
& EYE BOLTS



- Never exceed Lashing Capacity.
- Ferry Lashing Rings are designed for lashing applications only and must not be used as lifting points.





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INTRODUCTION

Cookes has been heavily involved in all major New Zealand construction projects for over 100 years. We represent the world's leading manufacturers which means that you receive only the highest quality products available today.

With branches and service vehicles situated right around New Zealand, the Cookes team will ensure your job can be undertaken safely using fit for purpose rigging equipment.

If, by some small chance, we do not have what you are looking for, be assured that we will find it for you.

09

WIRE ROPE FITTINGS
& RIGGING TOOLS



COOKES – helping lift New Zealand business for over 100 years!
a BRIDON · BEKAERT Ropes Group Brand

WIRE ROPE GRIPS

FITTING & INSPECTION

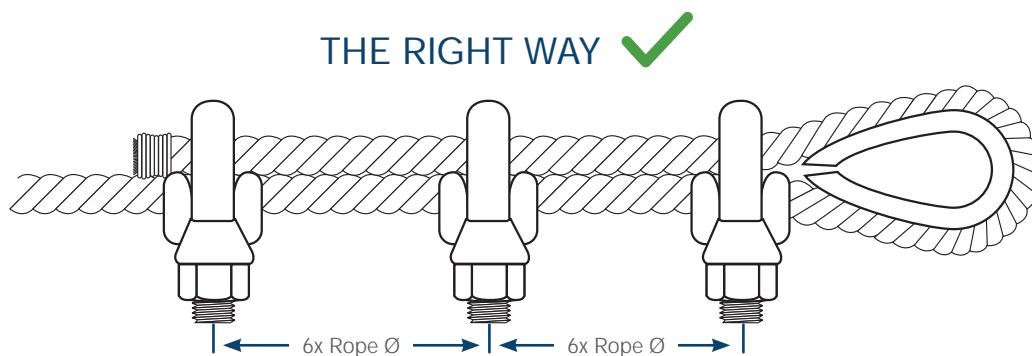
Cookes' range of wire rope grips provide a fast and convenient means of forming an eye loop on wire ropes where socketing or splicing is not feasible, or where a temporary join is required.

Cookes offers three ranges of wire rope grips, from the heavy pattern, fully hot dip galvanised EN13411-5 Type B (formerly FF-C-450) range, to zinc plated EN13411-5 Type A (formerly DIN1142) and our light duty commercial pattern range.

Fitting of Wire rope grips

The efficiency of a wire rope termination made with wire rope grips will depend on the correct placement on the ropes and on the care and skill of the fitting and tightening of the grips. With inadequately tightened nuts, or with an insufficient number of wire rope grips, the rope may slide through the clips at a very early stage in loading.

The saddle of the wire rope grip must always sit on the load bearing section of the wire rope, with the grip's U-Bolt on the rope tail or dead-end ('Never saddle a dead horse'). For recommended grip numbers and torque values, please refer to the table in following pages for the pattern of wire rope grip concerned.



Inspection of Wire rope grips

Wire rope grips should be inspected before use to ensure that:

- all markings are legible
- the wire rope grip is free from nicks, gouges and cracks
- a wire rope grip with the correct dimensions has been selected.



- Wire rope grips must never be used on load hoisting ropes. Wire rope grips should only be used for forming eyes on stays or guys (refer *Approved Code of Practice for Load-Lifting Rigging 5th Edition*).
- Never modify, repair or reshape a wire rope grip by machining, welding, heating or bending as this may affect the performance.

WIRE ROPE GRIPS

HEAVY PATTERN

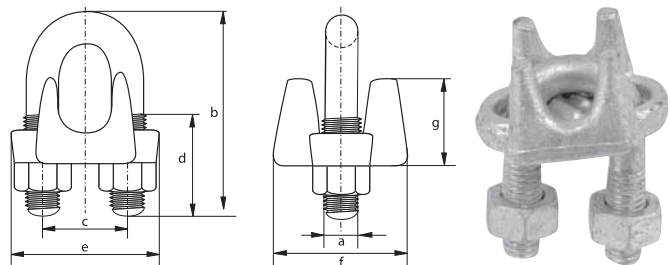
Hot Dip Galvanised Forged Grips* to EN13411-5 Type B

Product Code	Suit Rope	Dimensions (mm)							Required Number of Grips		
	Ømm	a	b	c	d	e	f	g	No. of Clips	Turn Length (mm)	Torque (Nm)
02101406	6 – 7	8	34	19	13	37	30	18	2	120	20.3
02101408	8	10	45	22	19	43	33	19	3	133	40.7
02101410	9 – 10	11	49	26	19	49	42	25	3	165	61
02101411	11	12	60	30	25	58	46	26	3	178	88
02101413	12 – 13	13	61	30	25	58	48	31	3	292	88
02101416	16	14	74	33	32	64	54	36	3	305	129
02101419	18 – 20	16	86	38	37	72	57	38	4	460	176
02101422	22	19	98	45	41	80	62	40	4	480	305
02101426	24 – 26	19	108	48	46	88	67	47	5	660	305
02101428	28 – 30	19	117	51	51	91	73	48	6	860	305
02101432	32 – 34	22	130	59	54	105	79	56	7	1,120	488
02101435	35 – 36	22	140	60	59	108	79	58	7	1,120	488
02101438	38	22	147	66	60	112	85	64	8	1,370	488
02101440	40 – 42	25	161	70	67	121	92	67	8	1,470	583
02101445	44 – 48	29	174	78	70	134	97	76	8	1,550	800
02101451	50 – 52	32	195	86	78	150	113	85	8	1,800	1,017
02101456*	56 – 58	32	213	98	81	162	116	100	8	1,850	1,017
02101465*	62 – 65	32	227	105	87	168	119	113	9	2,130	1,017
02101468*	68 – 72	32	243	112	91	174	127	124	10	2,540	1,017
02101475*	75 – 78	38	271	121	98	194	135	136	10	2,690	1,627

* Available on indent.

Heavy Pattern Hot Dip Galvanised Forged Wire rope grips. Complies with EN13411-5 Type B (Federal Specification FF-C-450).

- Saddle grooved for improved nesting of the wire rope.
- Manufactured in China.



- Sizes 1/4" and 5/16" have hot dip galvanised saddle with Dacromet coated U Bolt and Nuts. Sizes 3/8" and larger are fully hot dip galvanised.



- Where dimensions are critical, refer your nearest Cookes branch or email customerservices@bridoncookes.co.nz.

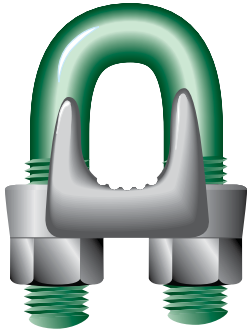


- Wire rope grips must never be used on load hoisting ropes!
- Always use the correct number of wire rope grips and torque to force shown in table above.

WIRE ROPE GRIPS

HEAVY PATTERN

ALSO AVAILABLE ON INDENT:



G-6240 Van Beest 'Green Pin' Wire Rope to EN13411-5:Type B (FF-C-450).

- Hot dipped galvanised.
- Sizes 7/16" and larger fully hot dip galvanised.
- Manufactured in The Netherlands.

For pricing and delivery on high quality Van Beest forged wire rope grips, please contact your nearest Cookes branch or email: customerservices@bridoncookes.co.nz.



G-450 Crosby 'Red Bolt' Wire Rope Clips to EN13411-5:Type B (FF-C-450).

- Bow mechanical galvanised then painted red.
- Saddle hot dip galvanised.
- Manufactured in the USA.

For pricing and delivery on high quality Crosby forged wire rope grips, please contact your nearest Cookes branch or email: customerservices@bridoncookes.co.nz.

DOUBLE-THROATED WIRE ROPE GRIPS



- Manufactured in Australia in accordance with AS2076.
- Available on indent in sizes to suit wire rope from 8mm to 28mm diameter.

For a specification sheet please contact your nearest Cookes branch or email customerservices@bridoncookes.co.nz.



• Wire rope grips must never be used on load hoisting ropes!

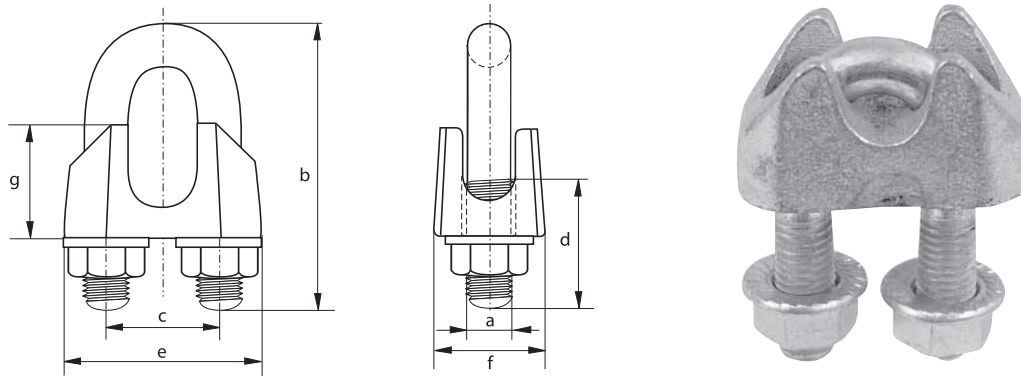
WIRE ROPE GRIPS

REGULAR PATTERN

Electro-Galvanised Regular Duty Grips to EN13411-5 Type A

Product Code	Suit Rope	Dimensions (mm)							Required Number of Grips	
	Ømm	a	b	c	d	e	f	g	No. of Clips	Torque (Nm)
02100005	5	5	25	12	14	25	13	13	3	2
02100006	6	6	32	14	17	30	16	14	3	3.5
02100008	8	8	41	18	20	39	20	18	4	6
02100010	9 – 10	8	46	20	24	40	20	21	4	9
02100013	12 – 13	12	64	29	29	55	28	29	4	33
02100016	16	14	76	34	35	64	32	35	4	49
02100019	19 – 20	14	83	37	36	68	33	40	5	68
02100022	22	16	96	41	40	74	34	44	5	107
02100026	26	20	111	46	50	84	38	51	5	147
02100030	28 – 30	20	127	54	55	95	41	59	6	212
02100034	32 – 34	22	141	60	60	105	45	67	6	296
02100040*	38 – 40	24	159	68	65	117	49	77	6	363

* Available on indent.



Regular Duty Electro-Galvanised Wire rope grips. Comply generally with EN13411-5 (formerly DIN1142).

- Malleable steel saddle and mild steel U-bolt.
- Electro-galvanised finish.
- Non-grooved saddle.
- Manufactured in China.



• Where dimensions are critical, refer your nearest Cookes branch or email customerservices@bridoncookes.co.nz.



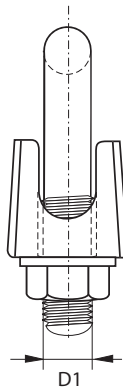
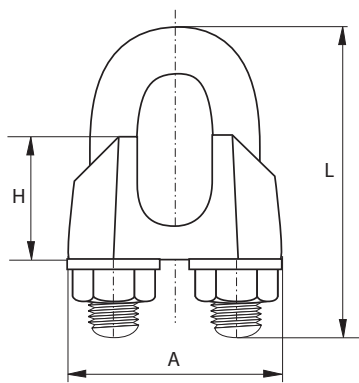
- Wire rope grips must never be used on load hoisting ropes!
- Always use the correct number of wire rope grips and torque to force shown in table above.

WIRE ROPE GRIPS

LIGHT PATTERN

Electro-Galvanised Commercial Wire rope grips

Product Code	Suit Rope	Dimensions (mm)			
	Ømm	Diameter (D1)	Width Base (A)	Height Saddle (H)	Height Bow (L)
02099003	3	4	21	10	20
02099005	5	5	23	10	24
02099006	6	5	26	11	28
02099008	8	6	30	15	34
02099009	10	8	34	17	42
02099013	13	10	42	21	55
02099016	16	12	50	26	63
02099019	19	12	54	30	75
02099022	22	14	61	34	85
02099026	26	14	65	37	95
02099030	30	16	74	43	110
02099034	34	16	80	50	120



Light duty Commercial Wire rope grips based on DIN 741 pattern.

- Electro-galvanised finish.
- Non-grooved saddle.
- Manufactured in China.



• Where dimensions are critical, refer your nearest Cookes branch or email customerservices@bridoncookes.co.nz.



• Commercial pattern light duty wire rope grips must not be used.

WIRE ROPE GRIPS

STAINLESS STEEL

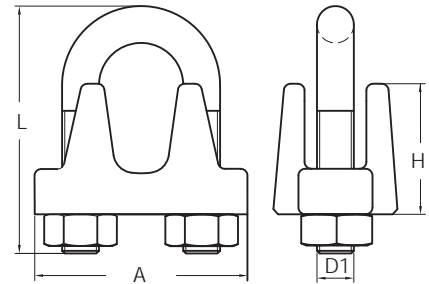
Stainless Steel – American Style

Product Code	Suit Rope	Dimensions (inch)			
	Ømm	Diameter (D1)	Width Base (A)	Height Saddle (H)	Height Bow (L)
09568303	3	M6	0.94	0.40	0.85
09568305	5	M6	1.14	0.50	1.20
09568306	6	M8	1.42	0.65	1.35
09568308	8	M10	1.69	0.72	1.75
09568310	10	M12	1.93	0.91	1.95
09568312	12	M12	2.28	1.15	2.45
09568316	16	M14	2.48	1.34	2.95

Stainless Steel Grips – American Style

- Grade AISI316 Stainless Steel.
- Manufactured in China.

Larger sizes available on indent.



Stainless Steel – Japanese Style

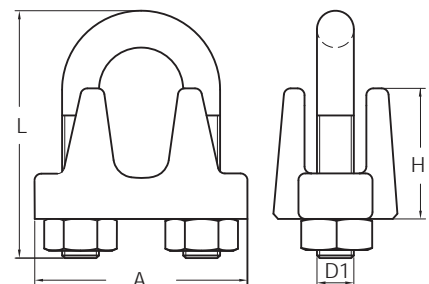
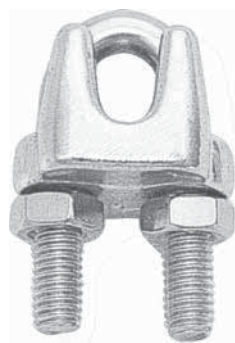
Product Code	Suit Rope	Dimensions (mm)			
	Ømm	Diameter (D1)	Width Base (A)	Height Saddle (H)	Height Bow (L)
09568304	4	M4	19	13	25
09568306LD	6	M6	27	17	35.5

Stainless Steel Grips – Japanese Style.

Lighter pattern than the American style wire rope grips.

- Grade AISI316 Stainless Steel.
- Manufactured in China.

Other sizes available on indent.



• Commercial pattern light duty wire rope grips must not be used.

WIRE ROPE THIMBLES

INTRODUCTION & SAFE USE

Cookes offers a range of wire rope and synthetic rope thimbles designed to prevent rope eyes from crushing.

The thimble is inserted into the formed eye prior to termination and will protect a wire rope from contact with edges that may damage the wires.

A rope or synthetic rope eye formed without a thimble may be subjected to sharp bends under load, leading to premature failure. Rope slings may also be damaged if a thimble is not inserted correctly.



Heavy Duty – Galvanised



Stainless Steel



Solid Thimble



Tube Thimble



Safe Use of Rope Thimbles

Thimbles should be regularly inspected because in use they may be affected by wear, misuse and overloading, leading to deformation of the steel structure. The dimensions of the thimbles must allow the (wire) rope to seat correctly in the groove of the thimble. For (wire) ropes intermediate sizes, the next larger size of thimble should be used.



• To have thimbles professionally fitted contact your nearest Cookes branch or email customerservices@bridoncookes.co.nz.



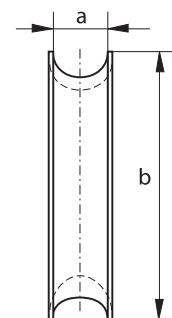
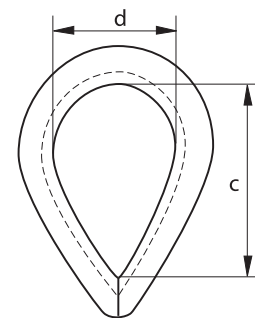
• Before use, check that the thimble is free from impurities, sharp edges, cracks or other irregularities which may damage the rope.

WIRE ROPE THIMBLES

HEAVY DUTY

Hot Dip Galvanised Thimbles to AS1138

Product Code	Suit Rope	Dimensions (mm)			
	Ømm	a	b	c	d
02106006	6	6	48	30	20
02106008	8	8	54	33	22
02106009	10	10	64	38	25
02106011	11	13	73	41	29
02106013	13	14	80	44	32
02106014	14	15	80	44	32
02106016	16	17	98	59	41
02106019	19	20	124	73	51
02106022	22	23	133	83	57
02106026	26	27	162	108	70
02106028	29	29	178	111	76
02106032	32	33	197	133	95
02106035	35	38	229	152	105
02106038	38	41	254	165	114
02106042	42	46	254	165	114
02106044	45	51	286	178	127
02106048	48	60	318	191	133
02106051	51	64	330	203	140
02106064	64	70	413	241	159



Generally comply to AS1138.

- Suitable for lifting applications.
- Hot dip galvanised finish.
- Manufactured in China.

Open Pattern Galvanised Thimbles

Product Code	Suit Rope	Dimensions (mm)				Gap
	Ømm	a	b	c	d	mm
02106012O	13	14	80	44	32	17
02106016O	16	17	98	59	41	21



Allows thimble to be assembled directly onto another component.



• Cookes recommends using only AS1138 thimbles above or cast solid thimbles (page 319) for wire ropes used in lifting applications.



• Before use, check that the thimble is free from impurities, sharp edges, cracks or other irregularities which may damage the rope.

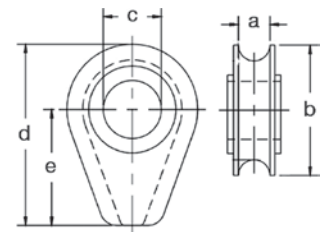
WIRE ROPE THIMBLES

SOLID TYPE & REGULAR DUTY

S-412 Solid Wire Rope Thimbles



Product Code	Crosby Item No.	Suit Rope	Dimensions (mm)					Weight kg
		Ømm	a	b	c	d	e	
02113013C	1037121	13	14.2	54.0	26.9	71.5	44.5	0.28
02113016C	1037149	16	20.6	86.0	33.3	119	76.0	1.00
02113019C	1037167	18 – 20	20.6	86.0	38.1	119	76.0	1.05
02113022C	1037185	22	26.9	114	44.5	154	97.0	2.47
02113026C	1037201	24 – 26	26.9	114	54.0	154	97.0	2.38
02113028C	1037229	28 – 30	33.3	137	60.5	184	116	4.21
02113032C	1037247	32 – 35	38.9	137	67.0	184	116	4.45

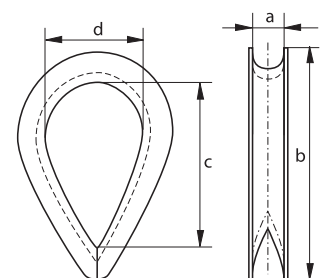


A high quality Crosby manufactured solid thimble pre-drilled to suit open wire rope socket, boom pendant clevis, wedge socket, shackle, etc.

- Cast ductile iron.
- Manufactured in the USA.

Electro / Hot Dip Galvanised Thimbles to DIN6899 (B)

Product Code	Suit Rope	Dimensions (mm)			
	Ømm	a	b	c	d
02105003	3	3	22	19	12
02105004	4	5	32	23	14
02105005	5	6	38	25	16
02105006	6	7	44	28	18
02105008	8	8	51	32	20
02105010	10	10	57	38	24
02105012	12	12	64	45	28
02105016	16	16	83	58	36
02105020	20	20	102	72	45
02105022	22	22	114	80	50
02105026	26	28	152	112	70



Generally comply to DIN 6899(B). Commercial thimbles have a shallower groove, making them suitable for use with synthetic ropes.

- Zinc plated finish.
- Manufactured in China.

i • Cookes recommends using only AS1138 thimbles (page 318) or cast solid thimbles (at top of this page) for wire ropes used in lifting applications.

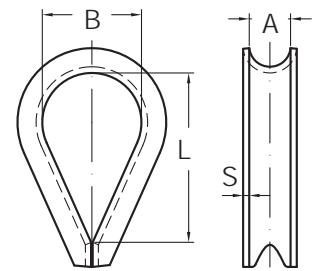
! • Before use, check that the thimble is free from impurities, sharp edges, cracks or other irregularities which may damage the rope.

WIRE ROPE THIMBLES

STAINLESS STEEL

Heavy Pattern Stainless Steel – U.S. Pattern

Product Code	Suit Rope	Dimensions (mm)			
	Ømm	A	B	L	S
02106603	3	3.5	17.5	33.0	1.2
02106605	5	6.0	19.0	35.5	1.5
02106606	6	7.0	22.0	41.0	2.0
02106608	8	8.5	27.0	48.0	2.0
02106610	10	10.5	29.0	54.0	3.0
02106612	12	13.5	38.0	70.0	3.5
02106616	16	17.0	44.5	82.5	4.0
02106620	20	20.0	51.0	95.0	6.1
02106622	22	24.0	57.0	108.0	6.1
02106625	25	27.0	63.5	114.0	6.1
02106632	32	36.5	89.0	167.0	8.9

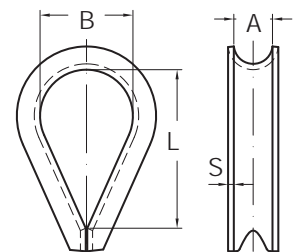


These heavy pattern stainless steel thimbles are more suitable for use with steel wire rope.

- 3mm manufactured from AISI.304 Stainless Steel.
- 5mm and larger manufactured from AISI.316 Stainless Steel.

Light Pattern Stainless Steel – European Pattern

Product Code	Suit Rope	Dimensions (mm)			
	Ømm	A	B	L	S
02106720	2	2.0	7	12	1.0
02106725	2.5	2.5	8	14	1.0
02106730	3	3.0	10	17	1.0
02106740	4	4.0	11	18	1.0
02106750	5	5.6	13	20	1.2
02106760	6	6.5	15	26	1.2
02106780	8	9.0	18	33	1.5
02106800	10	11.0	23	43	2.0
02106820	12	14.0	27	48	2.0
02106822	14	15.0	34	53	2.5
02106825	16	17.0	38	57	3.0
02106865	18	19.0	40	67	3.0
02106900	20	22.0	45	75	4.0
02106925	24	26.0	56	96	5.0



A smaller, light pattern thimble suitable for use with synthetic ropes. AISI.316 Stainless Steel.



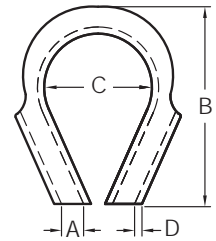
• Before use, check that the thimble is free from impurities, sharp edges, cracks or other irregularities which may damage the rope.

WIRE ROPE THIMBLES

TUBE THIMBLES

Heavy Duty – with gusset

Product Code	Model	Dimensions (mm)				
		Max Wire Ø	A	B	C	D
17185010	G715 K	12	15	95	27	5
17185011	G717 K	14	17	100	27	5
17185012	G719 K	16	19	112	32	5
17185013	G722 K	20	22	125	35	6
17185014	G725 K	22	25	150	45	6
17185015	G730 K	26	30	170	47	7
17185016	G735 K	32	35	190	60	7

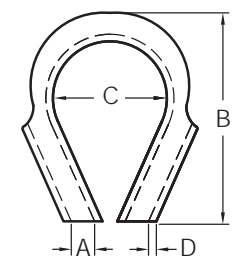


Tube thimbles are designed to provide additional protection for the rope.

- Added gusset prevents thimble from crushing under load.
- Manufactured in China.

Stainless Steel

Product Code	Model	Dimensions (mm)				
		Max Wire Ø	A	B	C	D
17185010S	SS715	12	15	85	28	2.5
17185011S	SS717	14	16	98	34	3.0
17185012S	SS719	16	20	112	38	3.0
17185013S	SS722	20	24	140	50	3.0
17185014S	SS725	22	26	154	55	3.0
17185015S	SS730	26	30	182	65	4.0
17185016S	SS735	32	38	224	80	6.0



Tube thimbles are designed to provide additional protection for the rope.

- G316 Stainless Steel.
- Manufactured in China.



• Before use, check that the thimble is free from impurities, sharp edges, cracks or other irregularities which may damage the rope.

RIGGING SCREWS & TURNBUCKLES

INTRODUCTION

Cookes offers a wide range of Rigging Screws (closed body) & Turnbuckles (open body) in a variety of models, grades and finishes from the world's leading manufacturers.

Rigging Screws and Turnbuckles have a multitude of uses from the length adjustment and tensioning of ropes used in recreational and sporting applications through to critical safety applications such as the tensioning of suspension bridge cables.

Tension is adjusted by rotating the frame which causes the left and right hand threaded sections to be screwed in or out simultaneously without twisting the cable.



09

WIRE ROPE FITTINGS
& RIGGING TOOLS

Safe Use of Rigging Screws & Turnbuckles

Rigging Screws & Turnbuckles should be inspected before use to ensure that:

- Where components are interfaced, they should readily connect and freely articulate, to ensure that loading will be applied in tension.
- Care should be taken to ensure that rigging screws & turnbuckles are not excessively tightened beyond the specified rating in tension.
- Regular inspection by a competent person is required.
- Threads should be protected from corrosion by effective means.
- The rigging screw or turnbuckle should be removed from service if it has a damaged screw thread, distorted body, distorted fitting, nicks, gouges, cracks or corrosion.

Locking of threads

Where rigging screws or turnbuckles are to be used in a permanently adjusted position and where a guy is subjected to shock vibration or rope spin it is necessary to prevent the screws from unwinding. Typical methods of locking threads include locknuts, locking plates and wire.

Locknuts, fitted at the ends of the body are a method of locking, but may not provide positive or reliable locking under all circumstances, such as that due to rope spin. Care should be taken to not use excessive torque during tightening.



• If you require assistance in selecting the correct product for your application, please contact your nearest Cookes branch, Freephone 0508 274 366 or email customerservices@bridoncookes.co.nz.

RIGGING SCREWS & TURNBUCKLES

JAW & JAW RIGGING SCREWS



Hot Dip Galvanised

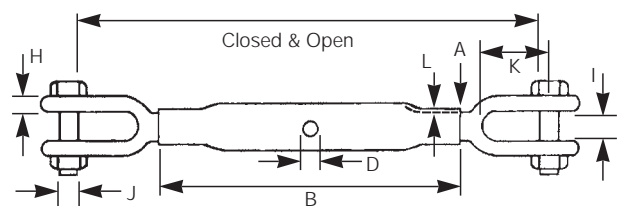
Product Code	Harris Walton Item No.	Thread	WLL	Proof L.	Dimensions (mm)								Weight kg
		in	t	t	B	C	D	H	I	J	K	L	
02201010H	HW71/0B	M10	0.381	0.762	153	22.0	8	8	12	8.0	27	3.6	0.47
02201013H	HW71/1	1/2	0.50	1.0	229	26.9	10	10	14	10.0	33	3.2	0.99
02201016H	HW71/2	5/8	0.75	1.5	229	26.9	11	10	22	12.7	48	3.6	1.41
02201019H	HW71/3	3/4	1.20	2.4	229	33.7	11	12	23	16.0	50	4.5	2.30
02201022H	HW71/4	7/8	1.70	3.4	305	38.1	13	12	28	19.0	58	5.0	3.44
02201026H	HW71/5	1.0	2.20	4.4	356	42.4	13	14	32	22.0	60	5.0	4.43
02201028H	HW71/6	1 1/8	2.75	5.5	356	42.4	13	15	32	22.0	75	5.0	5.30
02201032H	HW71/7	1 1/4	3.80	7.6	380	51.0	14	18	37	25.4	80	6.3	8.34
02201038H	HW71/9	1 1/2	5.20	10.4	405	60.3	16	21	49	33.0	85	6.3	12.80
02201045H	HW71/11	1 3/4	7.10	14.2	405	63.5	17	26	49	36.0	110	6.3	18.50
02201051H	HW71/13	2.0	9.50	19.0	405	76.1	19	30	58	42.0	125	8.0	23.80

High quality British manufactured jaw and jaw rigging screws with hot dip galvanised finish.

- Tested and certified.
- 4:1 design factor.
- Manufactured in the U.K.

Open & Closed Dimensions Bearing Points

(mm)	M10	1/2	5/8	3/4	7/8	1.0	1 1/8	1 1/4	1 1/2	1 3/4	2.0
Closed	240	340	370	375	465	535	555	590	650	705	745
Open	348	530	540	535	673	773	773	828	908	913	973



• Lifting Applications: Harris Walton rigging screws in sizes 1/2" thread and above are approved for lifting providing the full assembly in which they are fitted is proof-tested following fabrication and prior to use.



- Never exceed manufacturer's Working Load Limit (WLL).
- Inspect rigging screws carefully before every use.

RIGGING SCREWS & TURNBUCKLES

JAW & JAW RIGGING SCREWS

High Tensile – Hot Dip Galvanised

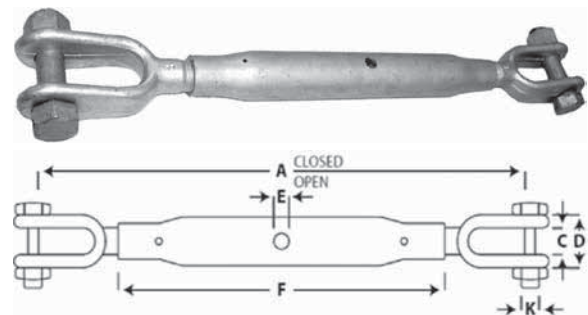


Product Code	Townley Item No.	Thread	WLL	Proof L.	A		Dimensions (mm)						Weight kg
			t	t	Closed	Open	B	C	D	E	F	K	
02201010T*	TBCC10P	M10	0.6	1.2	265	395	30	14	30	8.5	180	10	0.49
02201012T	TBCC12P	M12	1.0	2.0	340	525	36	15	35	8.5	230	10	0.97
02201016T	TBCC16P	M16	1.6	3.2	360	535	45	20	40	9.0	230	12	1.36
02201020T	TBCC20P	M20	2.5	5.0	390	555	55	22	46	10.5	230	16	2.35
02201024T	TBCC24P	M24	4.0	8.0	555	740	59	30	58	13.0	360	20	4.20
02201033T	TBCC33P	M33	8.0	16.0	628	904	80	38	75	14.0	380	27	11.20
02201048T*	TBCC48P	M48	16.0	32.0	800	1,030	109	46	110	18.0	420	42	32.00
02201064T*	TBCC64P	M64	28.0	56.0	838	1,035	115	70	152	22.0	405	51	62.20

* Available on indent.

High Tensile Jaw & Jaw Rigging Screws, tested & certified, hot dip galvanised finish. Complies with AS2319.

- The tubular body provides a reservoir for lubrication.
- Approved for both lifting and tensioning applications as per AS2319-2001.
- 6:1 Design Factor helps to counter possible problems from shock, vibration, fatigue wear, damage and corrosion.
- Lock nuts available on indent.
- Manufactured in Australia.



• Proven quality in critical applications such as suspension bridges.



• Townley rigging screws are approved for lifting applications providing length adjustment of the rigging screw is not made under full load.
• The rigging screw must never be used as the means to lift a load.



• Never exceed manufacturer's Working Load Limit (WLL).
• Inspect rigging screws carefully before every use.

RIGGING SCREWS & TURNBUCKLES

TOWNLEY INFORMATION GUIDE



Townley Drop Forge High Tensile Rigging Screws & Turnbuckles.

As New Zealand distributor for Townley Drop Forge Rigging Screws and Turnbuckles, Cookes has access to this higher quality range of Australian manufactured products, from locally sourced steel, in their various grades and with a number of end fitting options.

All Townley Rigging Screws and Turnbuckles are fully tested and certified, & offer a 6:1 design factor.

Quality & Safety You Can Rely On.

RIGGING SCREWS TO AS2319



Jaw & Jaw



Jaw & Eye



Eye & Eye

TURNBUCKLES TO AS2319



Jaw & Jaw



Jaw & Eye



Eye & Eye

Working Load Limits (WLL) & Test Forces

Nominal Size mm	Quality Grade L			Quality Grade P			Quality Grade S		
	WLL t	Test Force (kN)		WLL t	Test Force (kN)		WLL t	Test Force (kN)	
		Destructive Test (min)	Production Proof Test		Destructive Test (min)	Production Proof Test		Destructive Test (min)	Production Proof Test
10	0.3	17.7	5.9	0.6	35.4	11.8	0.8	47.1	15.7
12	0.5	29.5	9.9	1.0	58.9	19.7	1.2	70.7	23.6
16	0.75	44.2	14.7	1.6	94.2	31.4	2.0	118	39.3
20	1.25	73.6	24.6	2.5	148	49.1	3.2	189	62.8
24	2.5	148	49.1	4.0	236	78.5	5.0	295	98.1
27	3.0	177	58.9	5.0	295	98.1	6.3	371	124
30	4.0	236	78.5	6.3	371	124	8.0	471	157
33	5.0	295	98.1	8.0	471	157	10.0	589	197
39	6.0	354	118	10.0	589	197	12.0	707	236
42	7.5	442	148	12.0	707	236	16.0	942	314
48	10.0	589	197	16.0	942	314	20.0	1,180	393
56	15.0	883	295	20.0	1,177	393	28.0	1,650	550
64	20.0	1,180	393	28.0	1,648	550	36.0	2,120	707

Highlighted items may not be available.

RIGGING SCREWS & TURNBUCKLES

JAW & JAW TURNBUCKLES

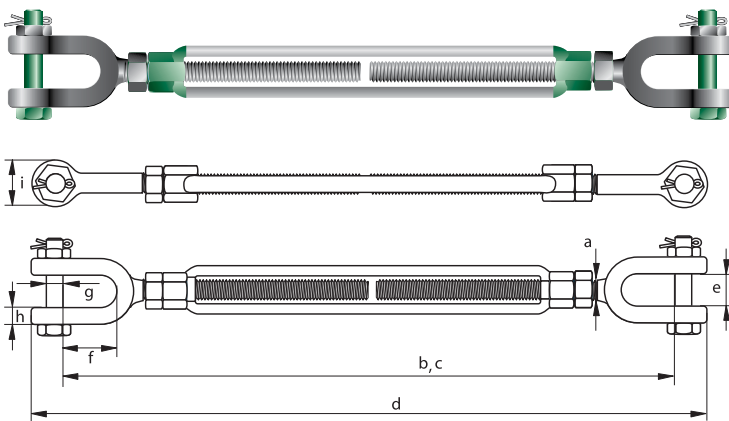
High Tensile – Hot Dip Galvanised



Product Code	WLL	Thread	Take Up	Dimensions (mm)								Weight kg
	t	Ø a (in)	in	closed b	open c	closed d	e	f	g	h	i	
02203061	0.54	3/8	6	273	409	305	12	21	8	9	21	0.57
02203064	1.00	1/2	9	380	587	418	16	26	10	11	26	1.18
02203067	1.59	5/8	9	421	622	481	18	32	13	14	33	2.12
02203070	2.36	3/4	12	518	791	588	24	38	16	16	41	3.29
02203073	3.27	7/8	12	559	825	636	27	42	19	19	48	4.90
02203078	4.54	1.0	12	598	859	683	30	50	22	20	55	6.96
02203081	6.90	1 1/4	18	793	1,218	900	44	71	28	26	68	13.60

09

WIRE ROPE FITTINGS & RIGGING TOOLS



Jaw & Jaw GreenPin® Turnbuckles, hot dip galvanised finish. Tested and certified generally to ASTM-F1145-92 (formerly FF-T-791b) and are approved for lifting applications (refer below).

- Manufactured from drop forged high tensile steel.
- 5:1 design factor.
- Jaw end fittings with Safety Bolt.
- Manufactured in The Netherlands.



• Other sizes up to 2-3/4" thread available on indent. For further information or specification sheets contact your nearest Cookes branch, Freephone 0508 274 366 or email customerservices@bridoncookes.co.nz.



Quality GreenPin® turnbuckles are suitable for lifting applications but please note the following:

- Length adjustment of the turnbuckle must not be made under full load.
- The turnbuckle must never be used as the means to lift a load.



• Never exceed manufacturer's Working Load Limit (WLL).

RIGGING SCREWS & TURNBUCKLES

STUB END (WELDABLE) TURNBUCKLES

Stub End – Metric Thread

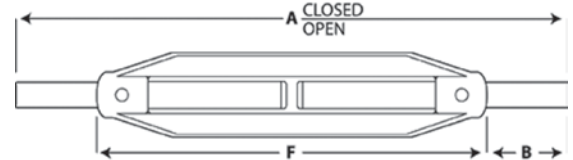


Product Code	Nominal Size	WLL	Dimensions (mm)				Weight
		t	closed A	open A	B	F	kg
02202310T*	M10	0.30	265	375	55	150	0.50
02202312T*	M12	0.50	335	475	70	191	0.80
02202316T*	M16	0.75	365	495	72	204	1.20
02202320T*	M20	1.25	365	500	79	217	2.00
02202324T*	M24	2.50	400	535	89	232	3.12
02202333T*	M33	5.00	400	554	74	252	5.50

* Available on indent.

Turnbuckle body marked with 'Townley Australia' and batch ID.

- Complies to load requirements of AS2319 (body only).
- Manufactured using only certified Australian steel.
- G300 Mild Steel to AS/NZS3679.1.
- Body galvanised to AS1650.
- Manufactured in Australia.

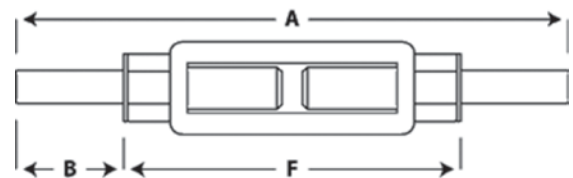
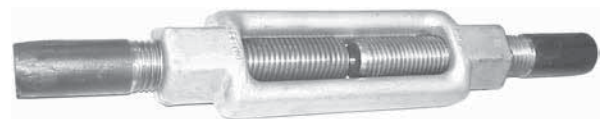


Stub End – Imperial Thread



Product Code	Nominal Size	WLL	Dimensions (mm)				Weight
		t	closed A	open A	B	F	kg
02202432T*	1 1/4"	5.00	415	565	70	255	4.61
02202438T*	1 1/2"	6.00	550	740	160	275	8.25

* Available on indent.



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WIRE ROPE FITTINGS
& RIGGING TOOLS



- CAD drawings available on request.
- Welding instructions available from Cookes.



Safety Instructions:

- Welding must be undertaken by a certified welder to ensure full WLL is maintained.
- Inspection must be carried out by a competent person before each use.



- Never exceed manufacturer's Working Load Limit (WLL).

RIGGING SCREWS & TURNBUCKLES

CROSBY GROUP TURNBUCKLES



As the authorised distributor for the Crosby Group in New Zealand, Cookes can offer on direct indent this world renowned range of high quality turnbuckles.

All Crosby turnbuckles meet the requirements of FF-T-791b / ASTM F-1145. End fittings are Quenched and Tempered, bodies heat treated by normalizing. Crosby's Quenched and Tempered end fittings and normalised bodies have enhanced impact properties for greater toughness at all temperatures.



HG-223

Hook & Hook

HG-225

Hook & Eye

HG-226

Eye & Eye

HG-227

Jaw & Eye

HG-228

Jaw & Jaw

Turnbuckle eyes are forged elongated, by design, to maximize easy attachment in system and minimize stress in the eye. For turnbuckle sizes $\frac{1}{4}$ " through $2\frac{1}{2}$ ", a shackle one size smaller can be reeved through eye. Forged jaw ends are fitted with bolts and nuts on sizes $\frac{1}{4}$ " – $\frac{5}{8}$ ", and pins and cotter on sizes $\frac{3}{4}$ " – $2\frac{3}{4}$ ".

- Hot dip galvanised finish.
- Hooks are forged with a greater cross sectional area that results in a stronger hook with better fatigue properties.
- Modified UNJ thread on end fittings for improved fatigue properties. Body has UNC threads.
- Lock Nuts available for all sizes.
- Typical hardness levels, tensile strengths and ductility properties are available for all sizes.
- Turnbuckles can be furnished proof tested or magnaflux inspected with certificates if requested at time of order.
- Manufactured in the USA.



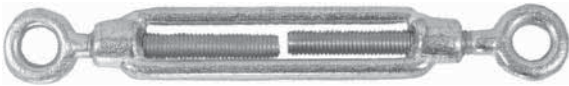
• Contact your nearest Cookes branch or email to customerservices@bridoncookes.co.nz for full specification sheet.

RIGGING SCREWS & TURNBUCKLES

COMMERCIAL QUALITY TURNBUCKLES

Mild Steel – Eye & Eye

Product Code	Thread	Ends
02203005	M5	Eye & Eye
02203006	M6	Eye & Eye
02203008	M8	Eye & Eye
02203009	M10	Eye & Eye
02203013	M12	Eye & Eye
02203016	M16	Eye & Eye
02203019	M20	Eye & Eye
02203022	M22	Eye & Eye
02203024	M24	Eye & Eye

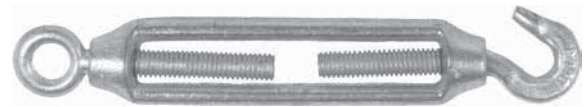


Commercial Quality Mild Steel Turnbuckles, galvanised finish. Non-Rated.

- Economy range for non-critical applications.
- Untested.
- Manufactured in China.

Mild Steel – Hook & Eye

Product Code	Thread	Ends
02204005	M5	Hook & Eye
02204006	M6	Hook & Eye
02204008	M8	Hook & Eye
02204009	M10	Hook & Eye
02204013	M12	Hook & Eye
02204016	M16	Hook & Eye



Commercial Quality Mild Steel Turnbuckles, galvanised finish. Non-Rated.

- Economy range for non-critical applications.
- Untested.
- Manufactured in China.

09

WIRE ROPE FITTINGS
& RIGGING TOOLS



• Not suitable for load bearing applications.

INTRODUCTION

Cookes represents the world's leading manufacturers of wire rope sockets. Crosby USA, Yoke Taiwan, Van Beest, Rope Block and GN Rope Fittings in the Netherlands are all names synonymous with rope socket quality and safety.

Whether your requirement is for wedge sockets, spelter sockets, mooring sockets or swage sockets, Cookes can help. As New Zealand's major supplier of steel wire rope, our specialist riggers can fit spelter sockets to new or existing ropes either in-house or at your site to ensure a safe and secure connection.



09

WIRE ROPE FITTINGS
& RIGGING TOOLS

OUR WORLD LEADING PARTNERS...



COOKES – helping lift New Zealand business for over 100 years!
a BRIDON · BEKAERT Ropes Group Brand

WIRE ROPE SOCKETS

WEDGE SOCKETS

S-421T Socket



Product Code	Crosby Item No.	Wire Rope	Dimensions (mm)							
		Ømm*	A	B	C ^{+/- 2.29}	D	G	H	J	K
02001223	1035000	9 – 10	145	69.1	20.6	20.6	35.1	77.7	198	47.8
02001224	1035009	11 – 13	175	88.1	25.4	25.4	41.1	95.5	226	32.0
02001225	1035018	14 – 16	210	109	31.8	30.2	53.8	114	273	50.5
02001226	1035027	18 – 19	251	130	38.1	35.1	62.0	134	314	61.2
02001228	1035036	20 – 22	286	149	44.5	41.4	68.5	156	365	63.0
02001230	1035045	24 – 26	325	161	51.0	51.0	74.7	177	414	77.2
02001232	1035054	28 – 29	365	176	57.0	57.0	84.0	194	466	65.0
02001233	1035063	30 – 32	415	222	66.5	63.5	90.5	239	520	74.7

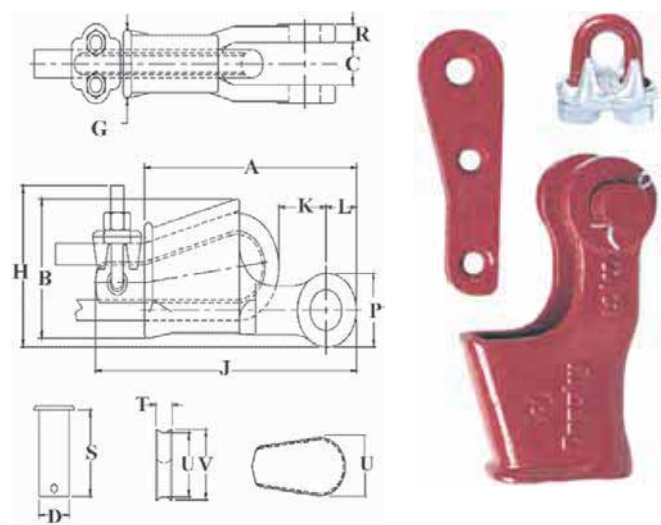
S-421T Socket (continued)

Product Code	Crosby Item No.	Wire Rope	Dimensions (mm)							Weight
		Ømm*	L	P	R	S	T	U	V	kg
02001223	1035000	9 – 10	22.4	39.6	11.2	54.1	11.2	31.8	35.1	1.44
02001224	1035009	11 – 13	26.9	49.3	12.7	65.0	13.5	44.5	47.8	2.79
02001225	1035018	14 – 16	31.0	57.2	14.2	82.6	17.5	51.0	55.5	4.40
02001226	1035027	18 – 19	35.6	66.8	16.8	92.2	19.8	59.5	65	6.58
02001228	1035036	20 – 22	42.4	79.5	19.1	109	22.4	68.5	74.5	9.75
02001230	1035045	24 – 26	51.0	95.5	22.4	119	26.2	73.0	83.5	13.9
02001232	1035054	28	57.0	108	25.4	138	27.9	82.6	90.5	20.5
02001233	1035063	30 – 32	59.5	114	26.9	156	30.2	117	125	29.4

* For intermediate wire rope sizes, use next larger size socket.

Assembly incl. Socket, Wedge, Pin and Wire Rope Clip. Type Approval and certification in accordance with ABS 2006 Steel Vessel Rules 1-1-17.7, and ABS Guide for Certification of Cranes.

- Basket is cast steel and individually magnetic particle inspected. Eliminates the need for an extra piece of rope, and is easily installed.
- Pin diameter and jaw opening allows wedge and socket to be used in conjunction with closed swage and spelter sockets.
- Secures the tail or "dead end" of the wire rope to the wedge, thus eliminates loss or "Punch out" of the wedge.
- The TERMINATOR™ wedge eliminates the potential breaking off of the tail due to fatigue.
- Utilizes standard Crosby Red-U-Bolt® wire rope clip.
- Manufactured in the USA.



STOP • Load applied in direct contact with the wedge can dislodge the wedge and cause loss of load!

WIRE ROPE SOCKETS

FORGED SPELTER SOCKETS

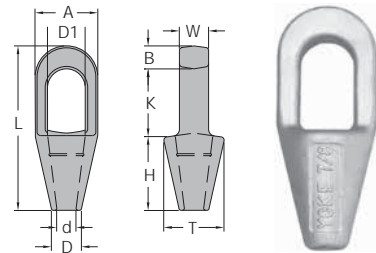
Forged Closed Spelter Socket



Product Code	Yoke Item No.	Rope Ømm	Dimensions (mm)										Weight kg
			A	B	D	D1	d	H	K	L	T	W	
02127113	8-735-13G	11-13	51	18	25	30	14	64	57	138	50	22	0.7
02127116	8-735-16G	14-16	67	21	28	36	18	76	64	160	63	25	1.2
02127119	8-735-19G	18-20	76	27	32	41	21	89	76	192	70	32	2
02127122	8-735-22G	22-23	92	32	38	48	24	101	89	222	88	38	3.6
02127126	8-735-26G	24-26	104	35	45	58	29	114	102	251	96	45	4.9
02127128	8-735-28G	28-30	114	38	51	65	32	127	114	279	105	50	7.2
02127135	8-735-36G	32-35	135	41	57	71	38	140	127	308	121	57	10.5
02127138	8-735-38G	36-39	135	49	70	81	41	152	152	354	133	64	14.3

Forged Closed Spelter Wire Rope Sockets. Meet performance requirements of Federal Specification RR-S-550E, Type B. Galvanised Finish.

- Forged from hardness controlled bar quality carbon steel.
- Closed spelter sockets correctly applied have an efficiency rating of 100% based on the catalogue strength of steel wire rope.
- Manufactured in Taiwan.



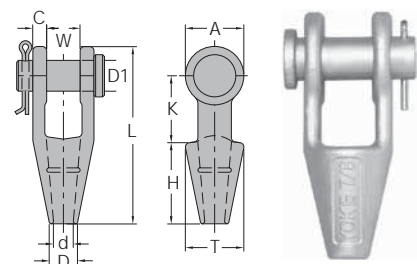
Forged Open Spelter Socket



Product Code	Yoke Item No.	Rope Ømm	Dimensions (mm)										Weight kg
			A	C	D	D1	d	H	K	L	T	W	
02128113	8-734-13G	11-13	48	13	25	25	15	63	54	142	50	25	1.1
02128116	8-734-16G	14-16	58	14	29	30	18	76	64	172	57	32	1.8
02128119	8-734-19G	18-20	67	16	32	35	22	92	76	202	67	38	2.6
02128122	8-734-22G	22-23	80	20	38	41	24	102	89	235	85	45	4.7
02128126	8-734-26G	24-26	96	23	44	51	29	114	102	268	95	52	7.4
02128128	8-734-28G	28-30	105	25	51	56	32	127	117	300	105	57	10.1
02128135	8-734-36G	32-35	121	29	57	62	38	140	127	335	120	64	14.9
02128138	8-734-38G	36-39	137	30	70	70	41	152	152	384	133	76	20.7

Forged Open Spelter Wire Rope Sockets. Meet performance requirement of Federal Specification RR-S-550D, Type A. Galvanised finish.

- Forged from hardness controlled bar quality carbon steel.
- Open spelter sockets correctly applied have an efficiency rating of 100% based on the catalogue strength of steel wire rope.
- Manufactured in Taiwan.



RIGGING TOOLS

INTRODUCTION

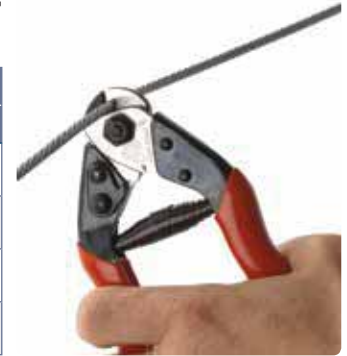
Manufactured in Switzerland from high quality steel, Felco cutters are widely regarded as the world leading product for hand cutting of steel cable. With high strength blades and lightweight handles, the Felco Wire Rope Cutter is built to last.

WIRE ROPE CUTTERS

Steel Wire Rope Cutters



Product Code	Cuts Wire Rope Up To		Length mm	Spare Blade	Spare Pivot Bolt
	Low Tensile Ø	Steel Rope Ø		Product Code	Product Code
02036007	7	5	190	n.a.	02036307
02036009	9	7	325	02036109	02036309
02036012	12	8	500	02036112	02036312
02036016	16	14	630	02036116	02036316



Replacement blades are available for all sizes except the small C7 cutters.

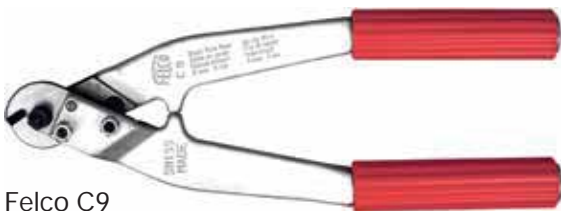
- The cutting capacities shown are indicative and actual cutting capacity will depend on the individual strength of the user and the density of material being cut.



Felco C7



Felco C12



Felco C9



Felco C16

• Don't be fooled by cheap imitations – insist on quality Swiss manufactured Felco wire rope cutters.

• When using cutters in a salt water environment we recommend coating the blades with a suitable protectant such as Anhydrous Lanolin.

RIGGING TOOLS

WIRE ROPE SWAGING & CRIMPING TOOLS

Hand Swaging Pliers – High Quality Local Manufacture

Product Code	Suits Wire Rope	Crimping Positions	Length	Spare Jaws Availability
	Ømm		mm	
02020005	1.5 – 2.5	3	300	No
02020020	1.5 – 3.0	4	600	Yes
02020003	3.0 – 4.0	2	750	Yes
02020004	4.0 – 5.0	2	750	Yes
02020006	6.0	1	750	Yes
02020023	7.0	1	750	Yes
02020015	8.0	1	750	Yes
02020011	10.0	1	900	No



02020005

Premium quality tool steel to ensure long and trouble free use.

- Hardened and tempered jaws.
- Fully adjustable.
- Refer following page for spare jaws.
- Designed specifically to suit crimping sleeves on page 336.
- Manufactured in New Zealand.

Hand Swaging Tools

Product Code	Suits Wire Rope	Crimping Positions	Length	Weight
	Ømm		mm	kg
02020001	1.5 – 2.5	3	350	0.95
02020002	1.5 – 5.0	4	600	2.70



02020001

02020002

An economy tool designed for low volume use.

- Complete with side cutters.
- Manufactured in China.



• Always strip covering from PVC coated wire rope prior to crimping.



• Do not use hand swaging tool & crimping sleeves for the fabrication of lifting slings or safety lifelines.

RIGGING TOOLS

WIRE ROPE SWAGING & CRIMPING TOOLS

Bench Tool – High Quality Local Manufacture

Product Code	Material	Handle Length
		mm
02020017	Cast Steel	750

Tool only – Jaws sold separately.

- Designed for repetitive work.
- Choose from jaw options below.
- Manufactured in New Zealand.



Swaging Jaws – High Quality Local Manufacture

Product Code	Suits Wire Rope	Crimping Positions	Also Suits Swage Tool
	Ømm		
02020018	1.5 – 3.0	4	02020020
02020016	3.0 – 4.0	2	02020003
02020014	4.0 – 5.0	2	02020004
02020010	6.0	1	02020006
02020013	7.0	1	02020023
02020022	8.0	1	02020015



Jaws suit Bench Tool above and Swage Tools on previous page.

- Hardened and tempered steel.
- Manufactured in New Zealand.

09

WIRE ROPE FITTINGS & RIGGING TOOLS



• Always strip covering from PVC coated wire rope prior to crimping.



• Do not use hand swaging tool & crimping sleeves for the fabrication of lifting slings or safety lifelines.

RIGGING TOOLS

WIRE ROPE SWAGING & CRIMPING SLEEVES

Copper Hand Swage Ferrule

Product Code	Suits Wire Rope	Finish
	Ømm	
03109015	1.5	Bright
03109020	2.0	Bright
03109025	2.5	Bright
03109030	3.0	Bright
03109040	4.0	Bright
03109050	5.0	Bright
03109060	6.0	Bright
03109070	7.0	Bright
03109080	8.0	Bright
03109100	10.0	Bright

Product Code	Suits Wire Rope	Finish
	Ømm	
03109015NP	1.5	Nickel Plated
03109020NP	2.0	Nickel Plated
03109025NP	2.5	Nickel Plated
03109030NP	3.0	Nickel Plated
03109040NP	4.0	Nickel Plated
03109050NP	5.0	Nickel Plated
03109060NP	6.0	Nickel Plated
03109070NP	7.0	Nickel Plated
03109080NP	8.0	Nickel Plated
03109100NP	10.0	Nickel Plated

- Designed for hand swage pliers and bench swaging tool.
- Available in either bright finished copper, or nickel plated copper to give a bright stainless steel matching appearance.



Bright Finish



Nickel Plated



- Cookes branches throughout New Zealand can machine press steel wire ropes for safety critical applications.
- Full certification facilities available!
- Alloy Swage Ferrules and Copper Stopper also available. For further information, refer to your nearest Cookes branch or email customerservices@bridoncookes.co.nz.

RIGGING TOOLS

MARLIN SPIKES

Wire Rope Marlin Spikes

Product Code	Nominal Length
	mm
07205200	200
07205230	230
07205250	250
07205300	300
07205450	450
07205600	600
07205800	800



A high quality range of tools available in various lengths to meet individual requirements for wire rope splicing.

- Manufactured from 4140 high tensile round bar.
- Fully machined with heat treated and ground tip.
- Manufactured in New Zealand.



- **Interesting Fact:** The fish and bird named marlin each derived their name based on their resemblance to a sailor's marlin spike, originally named a 'marlinespike'.
- **Custom Hand Splicing:** Cookes can hand splice wire ropes for you at our branches across New Zealand or undertake specialist hand splicing on site. For more information contact your nearest Cookes branch, Freephone 0508 274 366 or email customerservices@bridoncookes.co.nz.

RIGGING TOOLS

KLEIN WIRE PULLING GRIPS

Klein Chicago® and Haven® Grips are used to pull wire and cable, and to maintain temporary tension until the cable can be permanently terminated. These grips are not to be used as anchors.

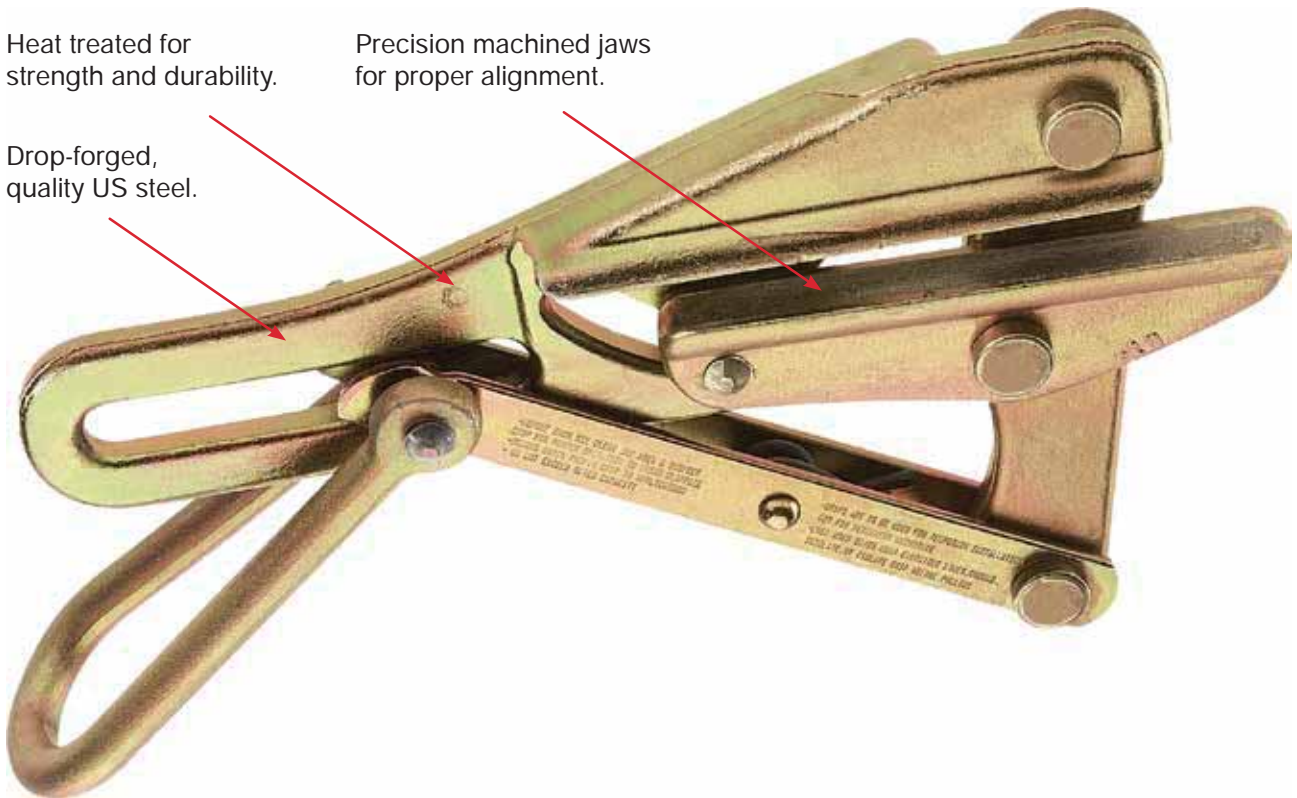
Klein Chicago® Grips have locking loop handles as standard on most models that allow the jaws to be held in an open position for easier placement on wire or cable. This saves substantial time, and makes grip positioning easier than with wedge or bolt-on designs. To lock, open the jaws and fold loop handle toward the side plates.



Heat treated for strength and durability.

Precision machined jaws for proper alignment.

Drop-forged, quality US steel.



Klein Chicago® Grips

Authentic Chicago® Grips designed for use on aluminium, copper, weatherproof coated wire, PVC covered conductors, catenary wire and guy strand.

- Locking loop handles. The locking feature allows the jaws to be held in an open position for easy placement on wire or cable.



Haven's® Grips

Haven's® Grips are designed for use when a light, compact grip is desired.

- Some models include a swing latch that holds cable securely in jaw.
- Recommended for catenary wire and guy strand.



Parallel Jaw Grips

Lightweight compact parallel jaw grips pull an exceptionally wide range of cable types and sizes.

- Large-diameter eye accommodates large hooks on hoists, winches and tackle blocks.

09

WIRE ROPE FITTINGS
& RIGGING TOOLS

RIGGING TOOLS

KLEIN WIRE PULLING GRIPS

Reliability

Before leaving the manufacturing plant, each and every authentic Klein grip is individually hand inspected and actuated for proper function.

Grips are rigorously tested using the Magnflux method and pulled to rated load to ensure the highest quality and reliability for which Klein Tools is known.

How to Select the Correct Grip

Three basic factors determine the selection of the proper grip for each specific application:

- Type of wire or cable.
- Outside diameter of wire or cable.
- Maximum Working Load Limit (WLL).

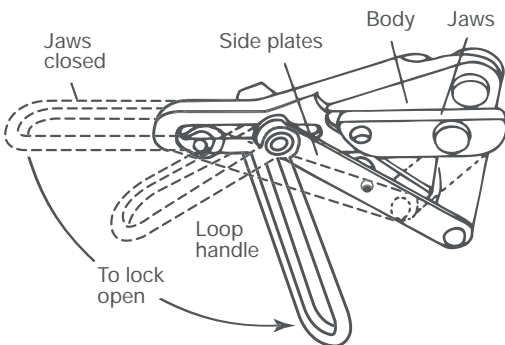


Care & Maintenance

The following guidelines have been established in order to maintain all grips in good condition.

Clean the Grip Jaws: Use emery cloth or a clean wire brush to periodically clean the surface of grip jaws. Note: Aluminium-strand conductors may have a die-grease coating, which can deposit on grip jaws. New aluminium conductors should be wiped clean before grip application. Grip jaw should be wiped clean of all grease before use. Be sure to clean grip jaws before and after each use in wire or cable, which has been galvanised or otherwise coated.

Check all parts: Look carefully for distortion or misalignment.



Pre-Use Check

Before each use, check all grips for jaw condition, proper alignment of jaws and all parts, and possible distortion caused by exceeding Working Load Limit specifications. Grips should operate smoothly. Spring-loaded grips should lock open with loop handle 'Down' position and should close automatically with loop handle 'Up' (illustration to the left).

The Klein parallel jaw grip may be tested by opening and closing the jaws by hand, while exercising proper caution. All parts and rivets, which may be distorted due to exceeding Working Load Limit, should be checked.



- Klein grips are designed for temporary installation and are not designed for permanent anchorage.
- Never attempt to repair Klein grips. Grips that are bent, misaligned or otherwise distorted must be discarded and replaced.

RIGGING TOOLS

KLEIN CHICAGO® GRIPS

Klein Chicago® Grips



Product Code	Klein Item No.	Max. WLL	Min. to Max. Cable	Jaw Length	Weight
		kg	Ømm	mm	kg

For Copper (Stranded or Aluminium ACSR)

02002021	1656-20	2,041	5.08 – 10.16	102	1.36
02002026	1656-30	2,041	7.87 – 13.46	121	1.70
02002028	1656-40	3,629	13.46 – 18.80	140	3.76
02002034	1656-50	3,629	18.80 – 21.84	140	3.76

For Extra High-Strength Cables or Guy Strand

02002019	1613-40	2,041	3.05 – 9.40	106	1.36
02002020	1684-5	3,629	5.54 – 13.97	127	2.84
02002025	1628-16	6,803	7.87 – 15.75	184	7.00
02002035	1628-17	6,803	12.70 – 19.05	184	7.40

For PVC Covered Conductor

02002036	1659-20	2,041	5.08 – 10.67	106	1.36
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For Small Bare Wires

02002018	1613-30	680	2.03 – 5.08	76	0.68
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Klein Chicago® Grips are designed for use on aluminium, copper, weatherproof coated wire, PVC covered conductors and messenger and guy strand.

- Jaws are shaped to provide maximum contact with the cable.
- Designed to virtually eliminate cable deformation.
- Manufactured in the USA.



02002018



02002026



- Never exceed manufacturer's Working Load Limit (WLL).
- Klein grips are designed for temporary installation and are not designed for permanent anchorage.
- Never attempt to repair Klein grips. Grips that are bent, misaligned or otherwise distorted must be discarded and replaced.

RIGGING TOOLS

KLEIN HAVEN® GRIPS

Klein Haven® Grips



Product Code	Klein Item No.	Max. WLL	Min. to Max. Cable	Jaw Length	Weight
		kg	Ømm	mm	kg

For Steel Strand

02002024	1604-20	2,268	3.18 – 12.70	n.a.	1.14
02002023	1625-20	3,629	7.11 – 19.05	n.a.	1.81



02002023



02002024

Authentic Klein Haven® Grips are individually inspected and tested. Designed for use when a light, compact grip is desired and where cable deformation is not a factor.

- Item 02002023 (1625-20) has a swing latch to help hold cable in the jaw.
- Manufactured in the USA.

Klein Parallel Jaw Grips

Product Code	Klein Item No.	Max. WLL	Min. to Max. Cable	Jaw Length	Weight
		kg	Ømm	mm	kg

For PVC Covered or Bare Wire

02002022	1685-20	2,041	4 – 22	64	1.30
02002016*	1685-31	3,400	16 – 32	114	2.27

* Available on indent.



02002022



02002016

Authentic Klein Parallel Jaw Grips are individually inspected and tested. This lightweight compact grip suits a wide range of cable types and sizes. Serrated lower jaw firmly grips insulated cables and conductors.

- Includes a latch that prevents the grip from falling in case of disengagement from cable.
- Large eye accommodates large hooks on hoists, winches and tackle blocks.
- Manufactured in the USA.



- Never exceed manufacturer's Working Load Limit (WLL).
- Klein grips are designed for temporary installation and are not designed for permanent anchorage.
- Never attempt to repair Klein grips. Grips that are bent, misaligned or otherwise distorted must be discarded and replaced.

RIGGING TOOLS

KLEIN HOWE WIRE TOOL

Klein Howe Wire Tool



Product Code	Klein Item No.	Max. Safe Load	Strap Diameter	Strap Length	Weight
		kg	Ømm	mm	kg
02002039	1702-20N	225	25	2,100	0.90

- Strap manufactured from tough Klein-Kord®.
- Swivel hook is forged steel with large opening.
- Shank of hood is lengthened to reach under insulator.
- Other end has cam-lock to hold the load at any distance.
- All metal parts galvanised.
- Manufactured in the USA.



09

WIRE ROPE FITTINGS
& RIGGING TOOLS



• Never exceed manufacturer's safe load rating.

RIGGING TOOLS

TACOMAN WIRE ROPE CLAMP

Tacoman Clamps

Product Code	Tacoman Item No.	Suit Wire Rope	Rated Capacity	Weight
		Ømm	t	kg
02166010	TC – 10	6 – 10	1.0	0.9
02166014	TC – 14	12 – 14	2.0	2.1

Tacoman Rope Clamps are designed for applications where wire ropes are used in conjunction with lever hoists or chain blocks. They can be fixed easily at any desired location along a wire rope. Generous eye diameter for hoist hook connection.

- Wire is gripped firmly by inserting the rope into the frame and pulling.
- Suitable for horizontal pulling of load or machines, or for applications such as stump pulling.
- Excellent for use with a lever hoist.



Quick and easy to assemble/
disassemble.

09

WIRE ROPE FITTINGS
& RIGGING TOOLS

NOTE: Discontinued line from manufacturer. Available only while stocks last.



- Never exceed the Rated Capacity.
- Do not use Tacoman rope clamps as a fixture for slinging applications.

RIGGING ACCESSORIES

MAXIRIG SLING EQUALISERS

Sling Equalisers – 5T to 120T WLL

Maxirig

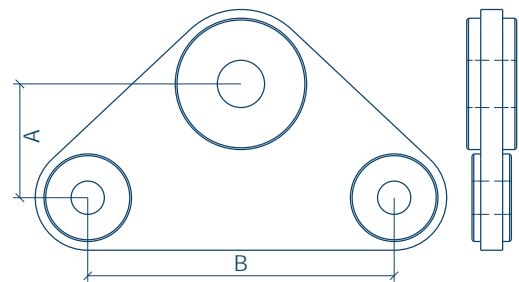
Product Code	Maxirig Item No.	Working Load Limit	Dimensions (mm)		Net Weight
		kg	A	B	kg
10972270*	EQP1005	5,000	100	300	10
10972272*	EQP1010	10,000	105	300	15
10972273*	EQP1020	20,000	130	350	25
10972275*	EQP1030	30,000	150	450	40
10972278*	EQP1050	50,000	200	500	90
10972280*	EQP1085	85,000	200	500	130
10972283*	EQP1100	120,000	310	600	190

* Available on indent.

Designed for multi-leg slings, the Maxirig Sling Equaliser equalises forces within the legs.

Connection is made via a standard alloy bow shackle. The device can be used with chain, wire rope or synthetic slings.

- Complies with AS4991.
- Ideal in compensating for differences in load lift points and sling lengths.
- Supplied with Proof Load Certificate and MPI Welding Report.
- Manufactured in Australia.



Shackles to Suit Maxirig Sling Equalisers

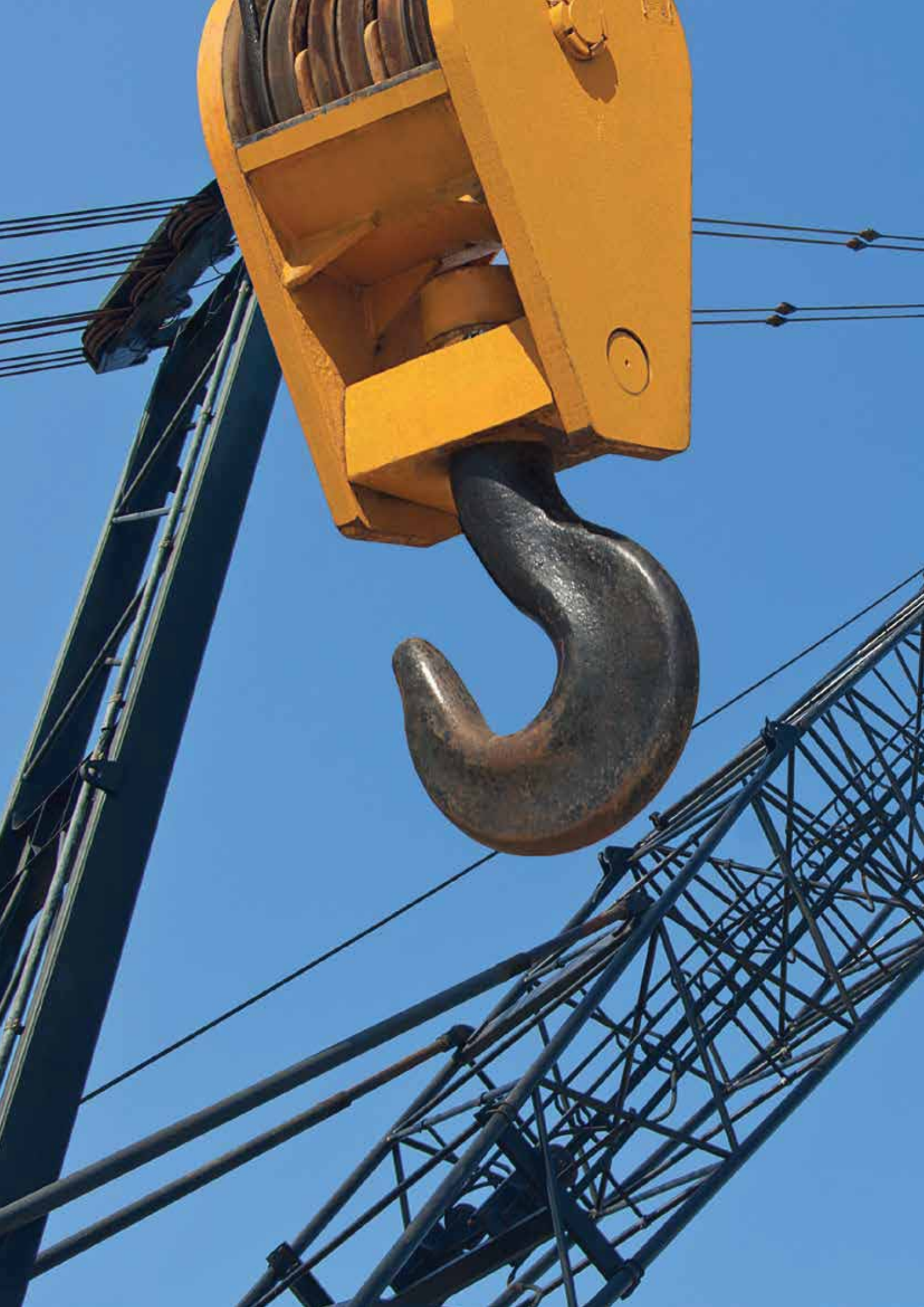
Equaliser Product Code	Maxirig Item No.	Safety Shackle Pin Ø (mm)		Shackle Product Code	
		Lifting Lug	Load Lugs	Lifting Lug	Load Lugs
10972270	EQP1005	25	19	02329026	02329019
10972272	EQP1010	35	25	02329035	02329026
10972273	EQP1020	50	35	02329051	02329035
10972275	EQP1030	57	42	02329057	02329042
10972278	EQP1050	70	57	02329070	02329057
10972280	EQP1085	83	70	02329080	02329070
10972283	EQP1100	95	83	02329095	02329080



• For a comprehensive data sheet on your required model, please contact your nearest Cookes branch Freephone 0508 274 366 or email customerservices@bridoncookes.co.nz.



• Never exceed manufacturer's Working Load Limit (WLL).





BLOCKS, PULLEYS & SWIVELS

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INTRODUCTION

Cookes shares a unique history with local engineering company C&R Equipment. Formed over 50 years ago in Christchurch, C&R Equipment was for many years a group subsidiary of William Cooke Holdings Ltd. Popular blocks of the time such as the 'Cookes All Cast Block' are testament to our shared history, and Cookes is proud to continue offering this exceptional range of New Zealand manufactured blocks.

Refer to the standard range of C&R blocks on following pages or contact your nearest Cookes branch for special configurations that can be manufactured to order.



High Tensile Rigging Blocks



Heavy Duty Cargo Blocks



Non-Snatch Pulley Blocks



Snatch Pulley Blocks



Pulley Blocks with Hook



Stainless Steel Blocks



Multi Sheave Purse Blocks



Single Sheave Crane Blocks



Multi Sheave Crane Blocks

10

BLOCKS, PULLEYS & SWIVELS

OUR WORLD LEADING PARTNER...



COOKES - helping lift New Zealand business for over 100 years!

is BRIDON · BEKAERT Ropes Group Brand

C&R BLOCKS & SHEAVES

HIGH TENSILE RIGGING BLOCKS

High Tensile Rigging Blocks – with Swivel Shackle



Product Code	WLL (t)*		Proof Load t	Sheave Ømm	Suit Rope Ømm	Dimensions (mm)				Weight kg
	moving	fixed				A	B	C	Ø D	
07155150	10	5	20	150	20	462	195	87	45	20
07155200	12	6	24	200	22	513	248	87	45	26
07155250	15	7.5	30	250	26	562	290	87	45	33
07155300	20	10	40	300	28	674	350	102	53	65

* For an explanation with diagram covering 'Fixed' and 'Moving' blocks, refer page 365.



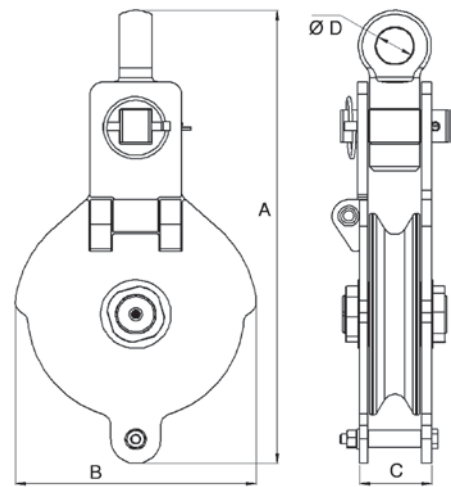
07155150, 07155200,
07155250

07155300



New

Now fitted with GreenPin Safety Anchor Shackle in crosshead.



Proudly manufactured in New Zealand. Now featuring a 'Green Pin' Safety Shackle on swivel crosshead.

- Manufactured in accordance with AS B298-1871 and BS4018.
- Tested and certified with easy to read WLL plate.
- Quick action single snatch facilitates ease of rope reeving with positive location and locking (sizes 150 – 250mm).
- 300mm block features quick action double snatch to facilitate ease of rope reeving with positive location and locking.
- Fully machined sheave with greaseable bronze bearing hub.
- Wide shoulder sheave profile ensures maximum rope guiding and added sheave protection.
- Stepped axle is fully locked for block rigidity. Becket for third fall of rope.
- D.L.L. Australia (Vict.) approved.
- Powder-coated side plates with zinc plated hardware for maximum corrosion resistance.

Larger sizes or double sheave configurations manufactured to order. Refer your nearest Cookes branch or email customerservices@bridoncookes.co.nz.



10
BLOCKS, PULLEYS & SWIVELS



• Never exceed manufacturer's Working Load Limit (WLL).

C&R BLOCKS & SHEAVES

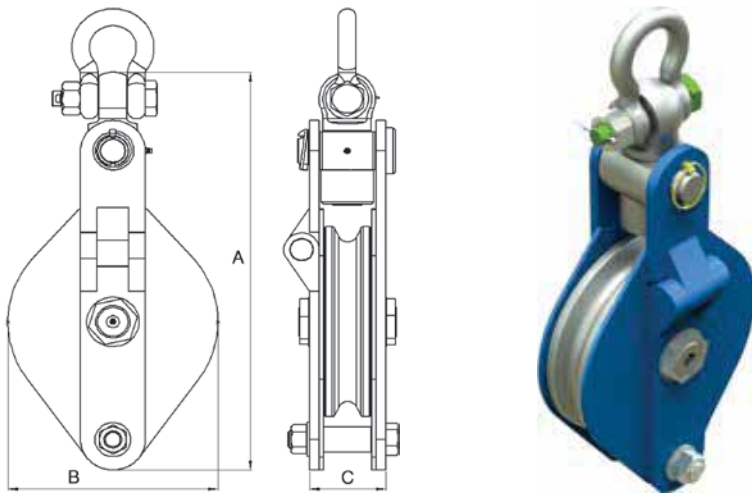
HEAVY DUTY CARGO BLOCKS

Heavy Duty Cargo Blocks – with Swivel Shackle



Product Code	WLL (t)*		Proof Load t	Sheave Ømm	Suit Rope Ømm	Dimensions (mm)			Weight kg
	moving	fixed				A	B	C	
07145150	2	1	4	150	12	337	160	59	7
07145200	4	2	8	200	16	429	212	79	17
07145250	6	3	12	250	20	524	260	94	39

* For an explanation with diagram covering 'Fixed' and 'Moving' blocks, refer page 365.



Proudly manufactured in New Zealand.

- Manufactured in accordance with AS B298-1871 and BS4018.
- Tested and certified with easy to read WLL plate.
- Quick action single snatch facilities ease of rope reeving with positive location and locking.
- Swivelling crosshead.
- Fitted with high load 'Green Pin' safety shackle.
- Fully machined sheave with greaseable bronze bearing hub.
- Wide shoulder sheave profile ensures maximum rope guiding and added sheave protection.
- Stepped axle is fully locked for block rigidity. Becket for third fall of rope.
- D.L.L. Australia (Vict.) approved.
- Powder-coated side plates with zinc plated hardware for maximum corrosion resistance.



- Also manufactured to order with Hook head fitting and 2 or 3-sheave configuration.
- Refer your nearest Cookes branch or email customerservices@bridoncookes.co.nz.



- Never exceed manufacturer's Working Load Limit (WLL).

C&R BLOCKS & SHEAVES

NON-SNATCH PULLEY BLOCKS

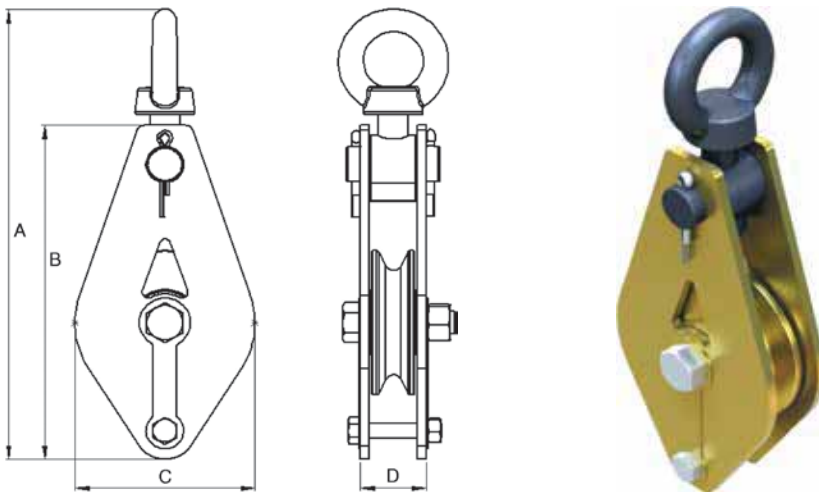
Non-Snatch Pulley Blocks – with Swivel Eye



Product Code	WLL (t) **		Bearing Type *	Sheave	Suit Rope	Dimensions (mm)				Weight kg
	moving	fixed		Ømm	Ømm	A	B	C	D	
07101050T	0.50	0.25	PB	50	6	150	100	70	28	0.50
07101075	0.40	0.20	PB	75	10	180	140	90	28	1.30
07101100	1.00	0.50	PB	100	10	313	232	120	44	2.00
071011002T	2.00	1.00	PB	100	10	313	232	120	44	2.50
07101150	1.00	0.50	BB	150	12	380	300	168	44	4.00
071011502T	2.00	1.00	BB	150	12	380	300	168	44	4.50

* PB=Plain Bearing. BB=Ball Bearing.

** For an explanation with diagram covering 'Fixed' and 'Moving' blocks, refer page 365.



Light weight, New Zealand manufactured quality pulley block with swivelling eye & crosshead.

- Available in heavy duty models with increased Working Load Limits in sizes 50mm, 100mm and 150mm.
- 4:1 design factor.
- 50 – 100mm with Nylon Bush.
- 150mm with Ball Bearing.
- Zinc plated for corrosion resistance.



- Also manufactured to order with Hook head fitting and 2 or 3-sheave configuration.
- Refer your nearest Cookes branch or email customerservices@bridoncookes.co.nz.



- Never exceed manufacturer's Working Load Limit (WLL).

C&R BLOCKS & SHEAVES

NON-SNATCH PULLEY BLOCKS

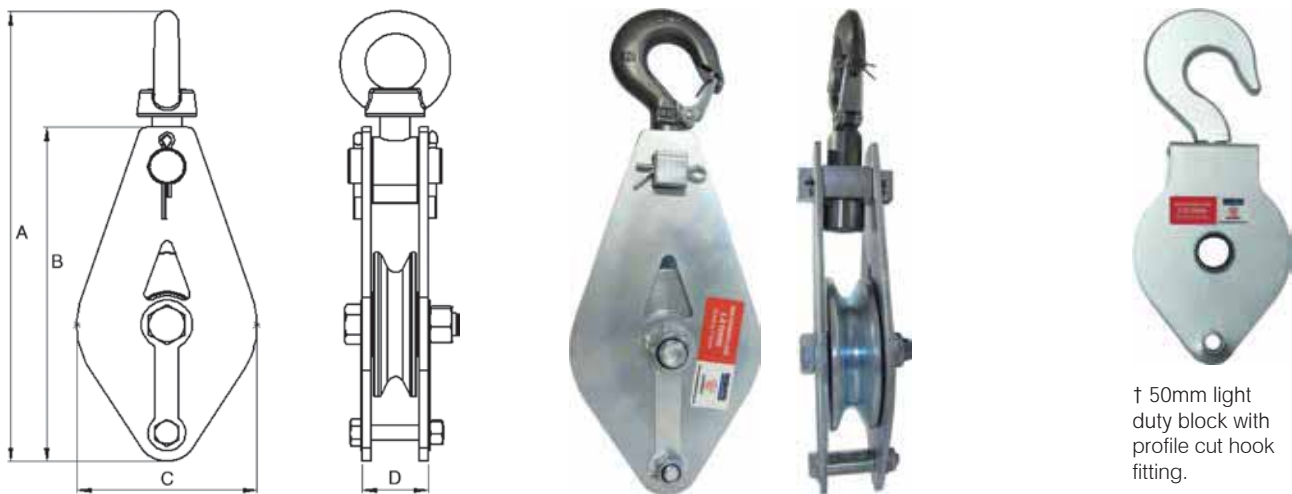
Non-Snatch Pulley Blocks – with Swivel Hook



Product Code	WLL (t) **		Bearing Type *	Sheave	Suit Rope	Dimensions (mm)				Weight kg
	moving	fixed		Ømm	Ømm	A	B	C	D	
07101050 †	0.25	0.125	PB	50	6	150	100	70	28	0.35
07102100	1.0	0.5	PB	100	10	313	232	120	39	1.75
07102150	1.0	0.5	BB	150	12	380	300	168	39	2.75

* PB=Plain Bearing. BB=Ball Bearing.

** For an explanation with diagram covering 'Fixed' and 'Moving' blocks, refer page 365.



Dimensions for block with hook head fitting are same as swivel eye type.

† 50mm light duty block with profile cut hook fitting.

Light weight, New Zealand manufactured quality pulley block with swivelling hook.

- 4:1 design factor.
- 50mm and 100mm with Nylon Bush.
- 150mm with Ball Bearing.
- Zinc plated for corrosion resistance.



- Also manufactured to order with Hook head fitting and 2 or 3-sheave configuration.
- Refer your nearest Cookes branch or email customerservices@bridoncookes.co.nz.



- Never exceed manufacturer's Working Load Limit (WLL).

C&R BLOCKS & SHEAVES

SNATCH PULLEY BLOCKS

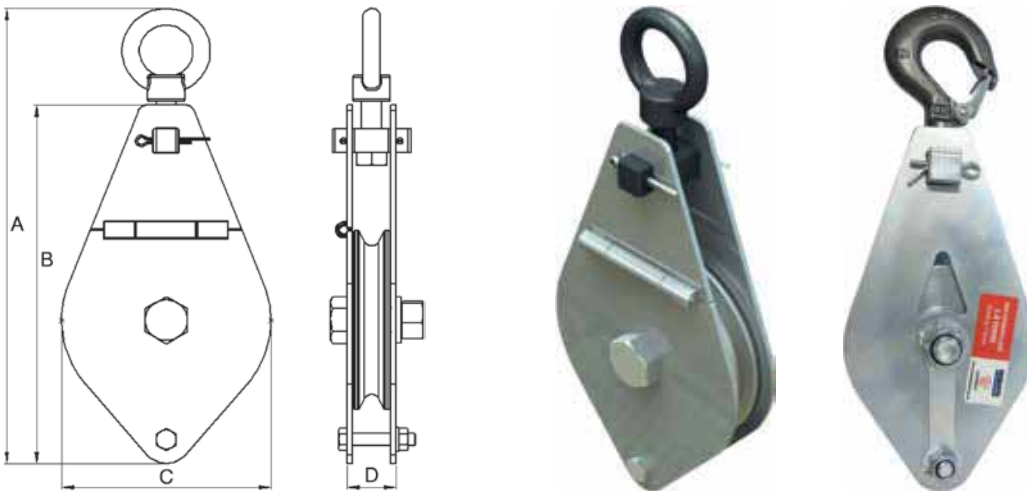
Snatch Type Pulley Blocks – with Swivel Oval Eye



Product Code	WLL (t) **		Bearing Type *	Sheave Ømm	Suit Rope Ømm	Dimensions (mm)				Weight kg
	moving	fixed				A	B	C	D	
07105100	1.0	0.5	PB	100	10	313	232	120	39	1.75
07105150	1.0	0.5	BB	150	12	380	300	168	39	2.75

* PB=Plain Bearing. BB=Ball Bearing.

** For an explanation with diagram covering 'Fixed' and 'Moving' blocks, refer page 365.



Dimensions for block with hook head fitting are same as swivel eye type.

Snatch Type Pulley Blocks – with Swivel Hook



Product Code	WLL (t) **		Bearing Type *	Sheave Ømm	Suit Rope Ømm	Dimensions (mm)				Weight kg
	moving	fixed				A	B	C	D	
07105100H	1.0	0.5	PB	100	10	313	232	120	39	1.75
07105150H	1.0	0.5	BB	150	12	380	300	168	39	2.75

* PB=Plain Bearing. BB=Ball Bearing.

** For an explanation with diagram covering 'Fixed' and 'Moving' blocks, refer page 365.

Light weight, New Zealand manufactured quality pulley block with choice of swivel eye or swivel hook head fitting.

- 4:1 design factor.
- Quick action single snatch facilitates ease of rope reeving.
- 100mm with Nylon Bush.
- 150mm with Ball Bearing.
- Zinc plated for corrosion resistance.



- Also manufactured to order and 2 or 3-sheave configuration.
- Refer your nearest Cookes branch or email customerservices@bridoncookes.co.nz.



- Never exceed manufacturer's Working Load Limit (WLL).

C&R BLOCKS & SHEAVES

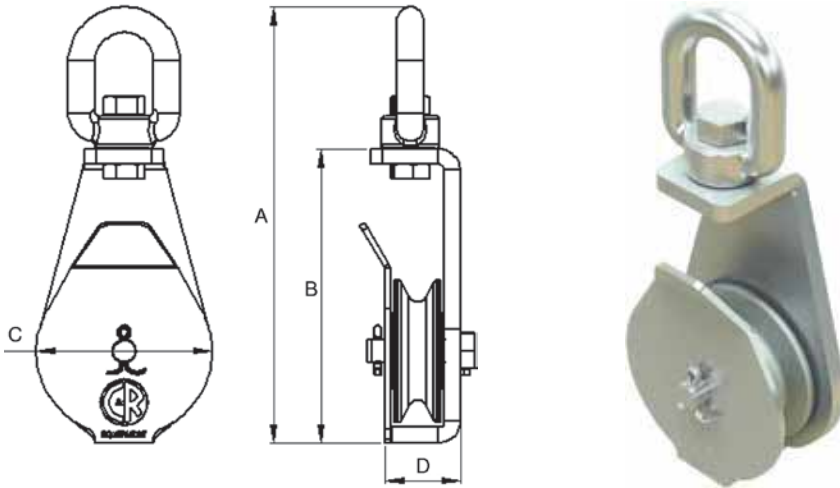
STAINLESS STEEL MARINE BLOCKS

Stainless Steel Open Side Pulley Blocks – with Swivel Oval Eye



Product Code	WLL (t)*		Proof Load t	Sheave Ømm	Suit Rope Ømm	Dimensions (mm)				Weight kg
	moving	fixed				A	B	C	D	
07107075	1.5	0.75	3.0	75	10	229.5	154.5	90	38.5	1.85

* For an explanation with diagram covering 'Fixed' and 'Moving' blocks, refer page 365.



Heavy duty swivel eye marine block.

- 5:1 design factor.
- Full AISI316 stainless steel construction for best protection in marine environments.
- Open side plate allows fast rigging for simple winch lifts.
- Proudly manufactured in New Zealand.

Stainless Steel Open Side Pulley Blocks – Fixed Eye



Product Code	WLL	Proof Load t	Suit Rope Ømm	Overall (mm)		Weight kg
	t			Height	Width	
07107080	0.25	0.50	15 – 16	215	75	1.0

Light capacity fixed eye marine block perfect for lifting the likes of cray pots.

- 5:1 design factor.
- AISI316 stainless steel block construction with nylon sheave.
- Open side plate allows fast rigging.



• Never exceed manufacturer's Working Load Limit (WLL).

C&R BLOCKS & SHEAVES

CRANE BLOCKS & PURSE BLOCKS

SINGLE SHEAVE & MULTI SHEAVE CRANE BLOCKS

Proudly manufactured in New Zealand. All steel construction with billet sheave as standard.

- All designs approved by M.O.T. Marine Division and proof load tested to meet certification.
- SKF Ball Bearing sheave, SKF Thrust Bearing crosshead.
- Hook with safety latch as shown below.
- Powder-coated sideplates with zinc plated hardware for maximum corrosion resistance.
- Rope guided sheave. Greaseable.
- Range of sheave sizes and block rating available.

SINGLE SHEAVE & MULTI SHEAVE PURSE BLOCKS

Proudly manufactured in New Zealand. Blocks can be used in a wide range of applications.

- Range of sheave sizes and ratings available (Ø 430mm 45T WLL Triple shown below right).
- Ball bearing, Roller bearing or Plain bearing sheave options.
- Single, Double and Triple Sheave configurations available.
- Galvanised, Zinc plated or Powder coated options.



Single Sheave Crane Block



Multi Sheave Crane Block



Multi Sheave Purse Block



• For further information or pricing and delivery on the C&R Crane Blocks or Purse Blocks, please contact your nearest Cookes branch or email customerservices@bridoncookes.co.nz.

C&R BLOCKS & SHEAVES

STEEL SHEAVES

Steel Sheaves – Plain Bearing (Bushed)

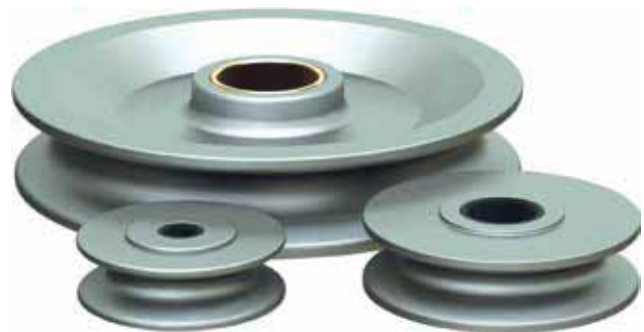
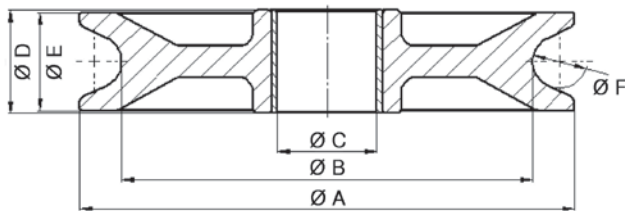


Product Code	Outside Ø	Suit Rope Ø *	Standard Bush Type	B.O.G. Ø	Shaft Ø	Hub Width	Rim Width
	A (mm)	F (mm)		B (mm)	C (mm)	D (mm)	E (mm)
07130054	50	6	Nylon	34	10	17	16
07130075	75	10	Nylon	52	12	27	24
07130100	100	10	Nylon	73	20	31	28
07130150	150	12	Bronze	124	35	31	29
07130200	200	16	Bronze	166	35	43	41
07130250	250	20	Bronze	210	45	59	57
07130300	310	26	Bronze	260	63.5	80	74
07132355	355	19	Bronze	310	60	60	56

* Note: Sheaves can be grooved to suit your rope requirements.

Proudly manufactured in New Zealand.

- Fully machined from billet.
- Zinc plated for maximum corrosion resistance.



CUSTOM ENGINEERED SHEAVES

Sheaves can be manufactured to your specifications. Refer your nearest Cookes branch or email customerservices@bridoncookes.co.nz.

Guide to ordering of your New Zealand Custom Manufactured Plain Bearing Pulley Sheaves:

Please specify the following details to ensure sheaves are manufactured accurately. Use drawing above as guide for required dimensional details.



Required Information:

Outside Ø	Suit Rope Ø	Finish / Bush Type	B.O.G. Ø	Shaft Ø	Hub Width	Rim Width
A (mm)	F (mm)		B (mm)	C (mm)	D (mm)	E (mm)

C&R BLOCKS & SHEAVES

STEEL SHEAVES

Steel Sheaves – Ball Bearing

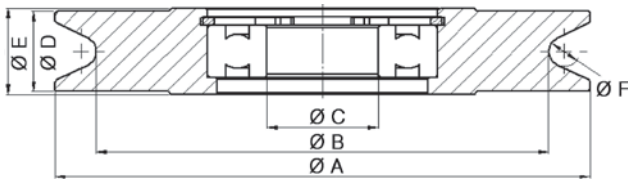


Product Code	Outside Ø	Suit Rope Ø*	B.O.G. Ø	Shaft Ø	Hub Width	Rim Width
	A (mm)	F (mm)	B (mm)	C (mm)	D (mm)	E (mm)
07130052	50	6	34	10	17	16
07130079	75	10	52	12	27	24
07130102	100	10	73	20	29.5	28
07130153	150	12	124	20	30.5	29
07130168*	168	9	142	35	28	26

* Standard crane truck sheave.

Proudly manufactured in New Zealand.

- Fully machined from billet.
- Zinc plated for maximum corrosion resistance.
- SKF Single row deep groove ball bearing installed and circlipped as standard.



CUSTOM ENGINEERED SHEAVES

Sheaves can be manufactured to your specifications. Refer your nearest Cookes branch or email customerservices@bridoncookes.co.nz.

Guide to ordering of your New Zealand Custom Manufactured Plain Bearing Pulley Sheaves:

Please specify the following details to ensure sheaves are manufactured accurately. Use drawing above as guide for required dimensional details.

Required Information:

Outside Ø	Suit Rope Ø	Finish / Bush Type	Bearing Type	B.O.G. Ø	Shaft Ø	Hub Width	Rim Width
A (mm)	F (mm)			B (mm)	C (mm)	D (mm)	E (mm)



YOKE BLOCKS

COOKES IS PROUD TO BE NEW ZEALAND'S AUTHORISED DISTRIBUTOR FOR YOKE INDUSTRIAL.

Superior design features of Yoke Snatch Blocks:



Groove bottom hardened to 35 Rc to maximise durability.

Yoke Snatch Blocks are manufactured from closed-die drop forged steel and available in sheave sizes from 75mm to 300mm.

Quality Approvals: API, Q1, QMS, DNV



YOKE BLOCKS

SNATCH BLOCKS

Snatch Blocks – with Swivel Shackle



Product Code	Yoke Item No.	Dimensions (mm)			WLL (t)*		Sheave	Wire Rope	Weight
		A	B	C	Moving	Fixed	Ømm	Ømm	kg
02229002	8-501-02	227.6	75.0	35.5	2	1	75	8 – 10	2
02229004	8-501-04	355.1	107.5	64.0	4	2	112	10 – 13	6
02229008	8-501-0808	557.5	220.0	87.5	8	4	200	16 – 19	20
02229013	8-541-12	540.2	166.0	78.5	12	6	150	19 – 22	24
02229016	8-541-15	589.2	220.0	78.5	15	7.5	200	19 – 22	28
02229021	8-551-2012-25	832.8	330.0	109.5	20	10	300	25	63

* For an explanation with diagram covering 'Fixed' and 'Moving' blocks, refer page 365.

High quality blocks manufactured under a strict quality control regime.

- Fully tested and certified.
- Closed-die forged sheaves.
- Ball bearings
- Swivel eye head fitting.
- 4:1 design factor.
- Batch number for full traceability.
- Manufactured in Taiwan.



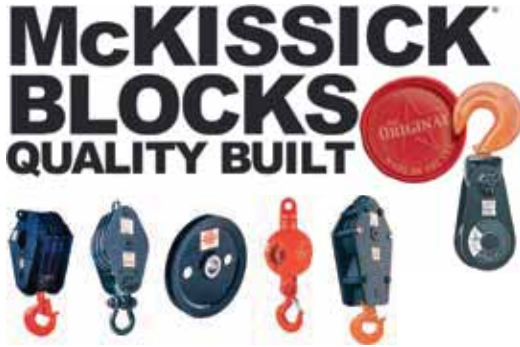
• Never exceed manufacturer's Working Load Limit (WLL).

MCKISSICK® BLOCKS



AVAILABLE ON INDENT

As New Zealand's authorised distributor for the Crosby Group, USA, Cookes has direct access to the world renowned Crosby McKissick® range of blocks and sheaves.



Time Tested & Work Proven!

Crosby McKissick® blocks, overhaul balls and sheaves have been leading the way for more than 65 years, and have been utilised in the most demanding applications in every corner of the world. Crosby McKissick® offers world class products with unequalled service and customer support behind each one.

Crosby Western & Crosby Lebus® blocks also available on indent

For a copy of the latest Crosby catalogue or the Crosby McKissick®, Western or Lebus® block range, please contact your nearest Cookes branch or email customerservices@bridoncookes.co.nz.



Western Block



Lebus Block

The Crosby Experience

At Crosby, it's not just the product, it's the brand. With over 120 years in the making, market leadership has been sustained by the Crosby brand advantage. A brand built on market leading product lines and the idea that quality is never compromised and customer expectation must be met. A brand built on the desire to be the innovative leader in both product development and the utilisation of current technologies to ensure product users know how to properly use Crosby products.

When a contract reads Crosby or equal, it is not by accident, but instead based on the time tested and work-proven 'Crosby Experience'. The Crosby Difference is more than a slogan, it is a culture. Several generations of Crosby employees have, and continue to work hard every day to ensure the Crosby Difference remains strong. This difference is the synergy around the following attributes:

- Technical Leadership
- Innovative Solutions
- Vertically Integrated Manufacturing
- Premier User Support

Individually, each attribute is strong. But together, they differentiate Crosby throughout the industry, create a distinct competitive advantage and support the company's leading market position.

You owe it to yourself and the personnel that will be using the product to understand that there is no equal to Crosby.

Uncompromising quality does not just happen, it is a process that requires detail at every level. Whether drilling or servicing wells in the oil and gas industry, harnessing alternative energy sources, construction or mining, dependable Crosby products are on the job. Using their expertise to turn your challenges into industry solutions had made Crosby the market leader yesterday and today, and will keep Crosby the market leader tomorrow.

OTHER BLOCKS

GENERAL PURPOSE SNATCH BLOCKS

Snatch Type Plain Bearing Pulley Blocks – with Swivel Oval Eye

Product Code		Working Load Limit (t)*		Sheave	Max. Rope
Single Sheave	Double Sheave	moving	fixed	Ømm	Ømm
02005603	02005703	0.5	0.25	75	8
02005604	02005704	1.0	0.5	100	10
02005606	02005706	2.0	1.0	150	12
02005608	02005708	3.0	1.5	175	14

* For an explanation with diagram covering 'Fixed' and 'Moving' blocks, refer page 365.

A cost effective general purpose pulley block recommended for low use, non-industrial applications.

- Plain bearing.
- Rope becket.
- Manufactured in China.



Snatch Type Ball Bearing Pulley Blocks – with Swivel Oval Eye

Product Code		Working Load Limit (t)*		Sheave	Max. Rope
Single Sheave	Double Sheave	moving	fixed	Ømm	Ømm
02005210	02005228	0.5	0.25	75	8
02005215	02005230	1.0	0.50	100	10
02005220	02005235	1.5	0.75	125	10
02005225	02005240	2.0	1.0	150	12
02005226	—	4.0	2.0	200	13

* For an explanation with diagram covering 'Fixed' and 'Moving' blocks, refer page 365.

A cost effective general purpose pulley block recommended for low use, non-industrial applications.

- Ball bearings.
- Manufactured in China.



CARGO LASHING BLOCKS

Ship's Cargo Lashing Blocks – with Swivel Oval Eye

Product Code	Working Load Limit For Lashing (kg)	Sheave	Max. Wire Rope
		Ømm	Ømm
02006155	5,000	150	22

Designed specifically for cargo lashing applications.

- Proof tested to 10,000kg.
- Design Factor 4:1.
- Manufactured in China.



• Never exceed manufacturer's Working Load Limit (WLL).

OTHER BLOCKS

4 WHEEL DRIVE BLOCKS

8T Economy 4WD Off-Road Recovery Block



Product Code	Max. Wire Rope	Sheave Dia.	Max. Pulling Load	Weight
	Ømm	mm	kg	kg
02007125	11	125	8,000	4.60



Economy imported 4WD Off-Road Recovery Block – 8,000kg Line Pull.

- Minimum Breaking Load 12 tonne.
- 125mm sheave to suit up to 11mm Ø wire rope.
- Manufactured in China.

8T NZ 4WD Off-Road Recovery Block



Product Code	Max. Wire Rope	Sheave Dia.	Max. Pulling Load	Weight
	Ømm	mm	kg	kg
02007125R	11	125	8,000	4.90



Locally manufactured, quality 4WD Off-Road Recovery Block – 8,000kg Line Pull.

- Minimum Breaking Load 12 tonne.
- Cast iron 125mm sheave with bronze bush. Suits up to 11mm Ø wire rope.
- Proudly manufactured in New Zealand.

15T H.D. 4WD Off-Road Recovery Block



Product Code	Max. Wire Rope	Sheave Dia.	Max. Pulling Load	Weight
	Ømm	Ømm	kg	kg
07128151	22	150	15,000	7.1



Locally manufactured, quality Heavy Duty 4WD Off-Road Recovery Block – 15,000kg line pull for the grunty jobs!

- Minimum Breaking Load 24 tonne.
- Cast iron 150mm sheave with bronze bush. Suits up to 22mm Ø wire rope.
- Proudly manufactured in New Zealand.



The Full 4WD Recovery Equipment Range

Cookes offer a full range of 4WD recovery equipment including their locally manufactured Snatch Master recovery straps.

Refer the 4WD Recovery Section of this catalogue or contact your local Cookes branch for more information:

Freephone 0508 274 366 or email customerservices@bridoncookes.co.nz



- Designed for 4WD recovery use and not to be used for lifting applications.
- Never exceed the Maximum Pulling Load.

OTHER BLOCKS

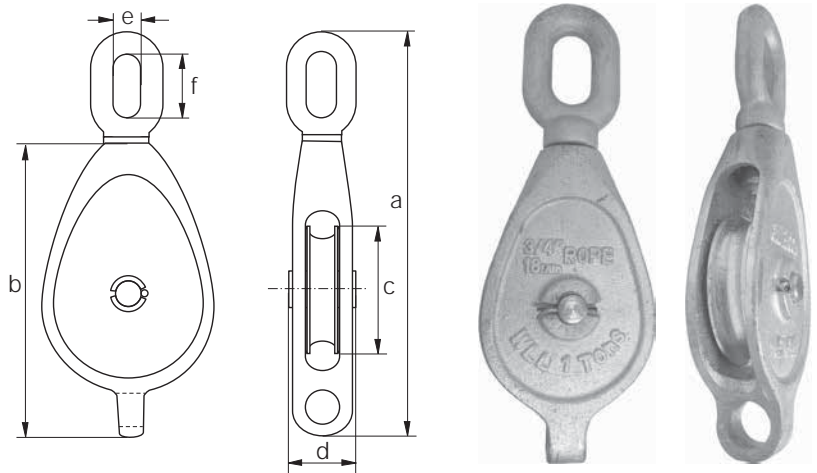
FIBRE ROPE BLOCKS

Galvanised Malleable Iron Fibre Rope Block – with Swivel Eye



Product Code	Van Beest Item No.	WLL (t)		Suit Rope	Dimensions (mm)						Weight
		moving	fixed	Ømm	a	b	Ø c	d	e	f	kg
02139004	G6917-0.4	0.4	0.2	12	164	118	45	39	14	25	0.7
02139008	G6917-0.8	0.8	0.4	16	232	158	62	45	18	37	1.4
02139100	G6917-1.0	1.0	0.5	18	270	178	82	49	24	52	1.8

- May also be used with wire rope.
- WLL marked on head fitting.
- Minimum breaking load four times WLL.
- Malleable Iron material.
- Hot dip galvanised finish.
- Ex Van Beest, The Netherlands.



NOTE: Discontinued line from manufacturer. Available only while stocks last.


?

Perfect For Manila Rope

These blocks are perfect for rigging up Manila ropes – Cookes can supply Manila rope in all sizes.

Contact your local Cookes branch for more information:

Freephone 0508 274 366 or email to customerservices@bridoncookes.co.nz



• Never exceed manufacturer's Working Load Limit (WLL).

SPECIAL BLOCKS

STILL CAN'T FIND THE BLOCK YOU REQUIRE?

Cookes has access to the finest high quality blocks manufactured in New Zealand and throughout the world.

From wooden shell maritime blocks to construction blocks and NATO approved pulley blocks, Cookes can source exactly what you are looking for directly from world-renowned manufacturers.



Crosby McKissick®
Tilt-Up Wall Block



Crosby McKissick®
Tower Erection Block



NATO Approved
Snatch Block



Crosby Western
Wooden Shell Block



Crosby Western
Gin Block

CARE & USE OF BLOCKS

SAFE USE & CARE INSTRUCTIONS

Pre-Use


If you are unsure of the origin of the block or have any doubts at all in regard to its suitability for the job, **do not proceed**. Refer to a suitably qualified person for assessment.

- Ensure WLL markings are legible. If only one WLL rating is shown, always assume this is based on a 'moving block'.
- Ensure the correct block is selected taking into account the load being moved and the wire rope being used.
- Ensure the WLL is sufficient for the method of use. Refer 'fixed' and 'moving' block information below.
- Ensure block is free from nicks, gouges or cracks.
- Ensure the sheave rotates freely.
- Discard any block that shows signs of having been welded, heat treated, bent or modified in any way.

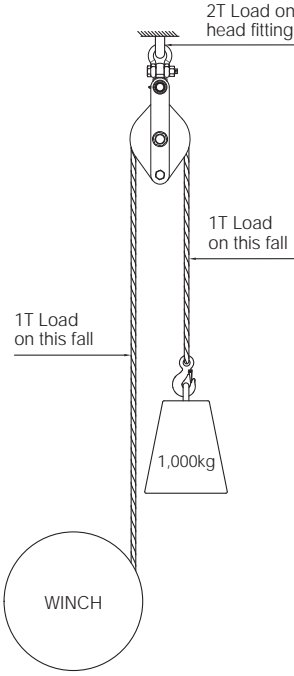
In-Use

- Never exceed Working Load Limit (WLL).
- Avoid shock loading of block.
- Never side load a block.
- Ensure the shackle, hook or eye head fitting is supporting the load correctly.

 • Cookes can provide you with full inspection and recertification of your blocks.



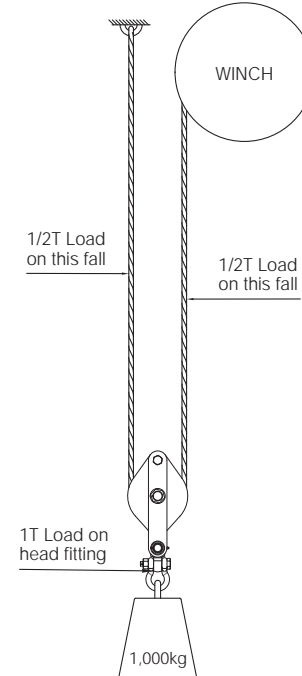
FIXED VS. MOVING BLOCK EXAMPLE USING 1 TONNE LOAD



Fixed Block – Load approaches block

←

Load is supported by 1 fall of rope.
Line pull = 1T.
Lifting at same speed as winch drum rotation.
Block should have WLL of 2T minimum (if load approaches block, block should have a WLL of twice the load).




Moving Block – Block rises with load

→

Load is supported by two falls of rope.
Line pull = 1/2T.
Lifting at 1/2 speed of winch drum rotation.
Block should have WLL of 1T minimum (if load travels with block, block should have a WLL the same as the load).

Information supplied courtesy of C&R Equipment. To assist, Cookes has provided both fixed and moving block WLL figures where applicable through this catalogue section.

 • Never exceed manufacturer's Working Load Limit (WLL).
• The load on a block will vary based on the angle between the incoming and departing lines. Refer details on following page.

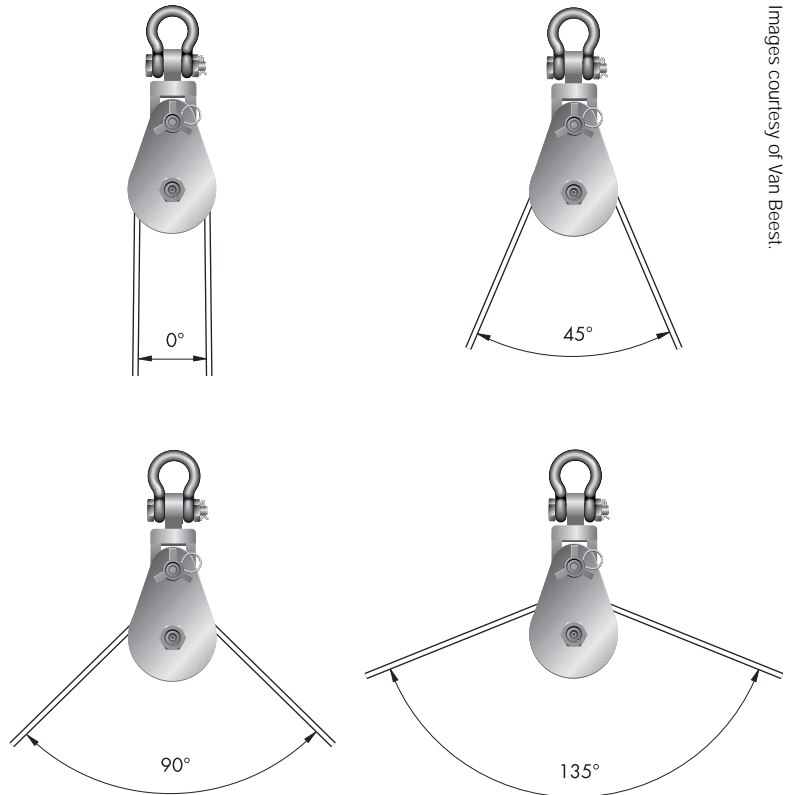
CARE & USE OF BLOCKS

SAFE USE & CARE INSTRUCTIONS

Angle Factor Multipliers for Blocks

The load on a sheave or a block varies with the angle between the incoming and departing lines. As the working angle between the lines increase, the load on the block is reduced by the angle factor shown in the chart below.

Working Angle	Angle Factor
0°	2.00
10°	1.99
20°	1.97
30°	1.93
40°	1.87
45°	1.84
50°	1.81
60°	1.73
70°	1.64
80°	1.53
90°	1.41
100°	1.29
110°	1.15
120°	1.00
130°	0.84
135°	0.76
140°	0.68
150°	0.52
160°	0.35
170°	0.17
180°	0.00



Images courtesy of Van Beest.

SWIVELS

CERTIFIED SWIVELS FOR LIFTING APPLICATIONS

Eye & Eye Lifting Swivels

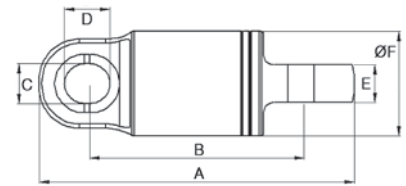


Product Code	WLL	Proof Load	Dimensions (mm)						Approx. Weight
	t	t	A	B	C	D	E	Ø F	kg
07260015	1.5	3	128.0	85.0	16.5	19.0	16	40.0	0.7
07265031	3.0	6	215.5	147.6	28.5	32.5	20	64.5	2.0
07260060	6.0	12	275.0	198.0	34.0	39.0	30	85.0	6.0
07260100	10.0	20	326.5	233.0	40.0	45.0	36	106.0	11.8
07260150	15.0	30	326.5	233.0	42.0	45.0	36	106.0	11.8
07260200	20.0	40	535.0	405.0	53.0	53.0	70	150.0	45.0
07260250	25.0	50	623.0	480.0	52.0	52.0	71	170.0	56.0
07260350	35.0	70	737.0	560.0	60.0	60.0	75	200.0	80.0
07260500	50.0	100	765.0	595.0	73.0	73.0	100	215.0	95.0

A high quality range of thrust bearing swivels certified for lifting applications.

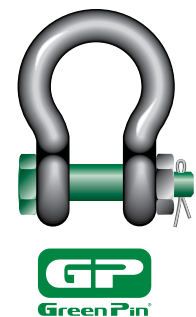
- Compact and rugged design.
- 5:1 design factor.
- Fully sealed, greaseable.
- SKF roller thrust bearings.
- Proof loaded to two times WLL.
- Zinc plated for corrosion resistance.
- Sizes up to 80 tonne WLL available.
- Manufactured in New Zealand.

C&R Certified Lifting Swivels are designed to suit Green Pin® Safety Bow Shackles as shown below.



Green Pin® Safety Bow Shackles Compatibility Chart

Swivel	WLL	Corresponding Safety Anchor Shackle
Product Code	t	Product Code
07260015	1.5	02329013
07265031	3.0	02329019
07260060	6.0	02329026
07260100	10.0	02329035
07260150	15.0	02329042
07260200	20.0	02329051
07260250	25.0	02329051
07260350	35.0	02329057
07260500	50.0	02329070



• Clevis-Eye or Clevis-Clevis configurations manufactured to order.



• Never exceed manufacturer's Working Load Limit (WLL).

SWIVELS

INSULATED SWIVELS FOR LIFTING APPLICATIONS

Insulated Swivels – Type 8-123

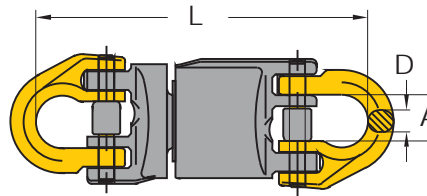


Product Code	Yoke Item No.	WLL	G80 Chain	Dimensions (mm)			Weight
		t	mm	A	D	L	kg
02469007	8-123-07	2.0	7, 8	18	9	131	0.7
02469010	8-123-10	3.15	10	25	11	162	1.5
02469013	8-123-13	5.3	13	30	16	214	3.2
02469016	8-123-16	8.0	16	36	19	243	5.4
02469019	8-123-20	12.5	18, 20	42	22	285	9.0



Designed for use during welding operations.

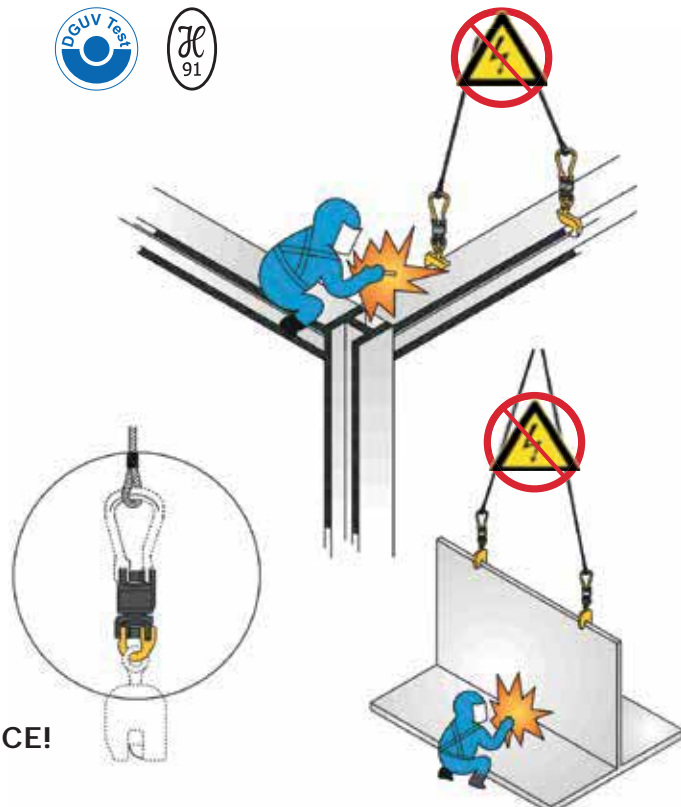
- Comes with two half connector links.
- Removable end fittings provides easy connection to chain or other components.
- Swivels under load.
- Design Factor 4:1 proof tested and certified.
- Complies with EN1677.
- Manufactured in Taiwan.



YOKE INSULATION SOLUTION

The Yoke Insulated Swivel is designed to provide for protection during overhead crane or electric hoist welding operations.

- Heavy hoisting with a strong but lightweight system.
- Fully rotational at maximum Working Load Limit (WLL)
- Individual swivels & components are 100% proof load tested to a minimum of 2.5 times the Working Load Limit.
- All swivels are individually tested during manufacturing to assure 1,000 Volts insulating property.
- Test certificate is packed with each unit shipped.
- Acquired certificate approved by Deutsche Gesetzliche Unfallversicherung (DGUV).



1,000 VOLTS RESISTANCE!



• Never exceed manufacturer's Working Load Limit (WLL).

SWIVELS

CERTIFIED SWIVELS FOR NON-LIFTING APPLICATIONS

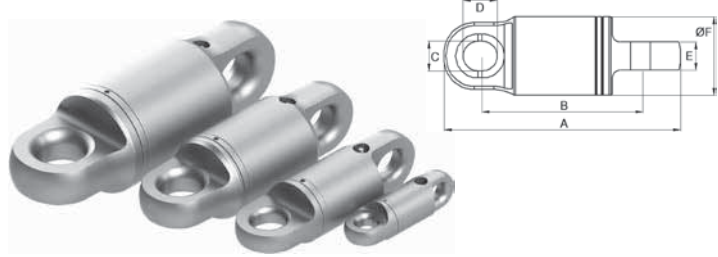
Eye & Eye Trawl & General Purpose Swivels



Product Code	MWL *	Proof Load	Dimensions (mm)						Approx. Weight
	t	t	A	B	C	D	E	Ø F	kg
07265016	1.5	3	129.5	80.5	16.5	19	16	40	0.6
07265031	3	6	215.5	147.6	28.5	32.5	20	64.5	2.0
07265061	6	12	252.5	168.5	34.0	39	30	85	5.0
07265091	9	18	252.5	168.5	34.0	39	30	85	5.0
07265101	10	20	312.5	212.5	40	45	38	106	11.0
07265150	15	30	312.5	212.5	40	45	38	106	12.0
07265260	26	52	623.0	480.0	52	52	71	170	56.0

A high quality range of roller thrust bearing swivels for trawling, logging & general purpose applications.

- Fully sealed, greaseable.
- SKF roller thrust bearings.
- Eyes will accept shackles or hammerlocks.
- 5:1 design factor.
- Proof loaded to two times MWL.
- Zinc plated for corrosion resistance.
- Manufactured in New Zealand.



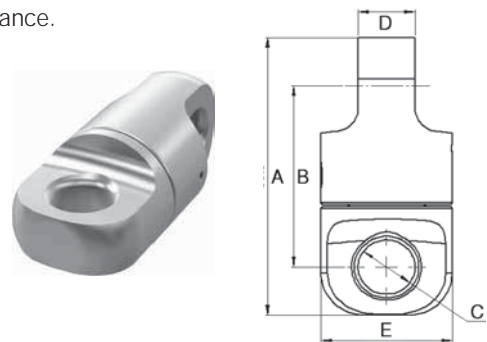
Midget Stainless Steel Swivels – Eye & Eye



Product Code	MWL *	Proof Load	Dimensions (mm)					Approx. Weight
	t	t	A	B	C	D	Ø E	kg
07250010	0.5	1.0	66.5	43.5	13	13	30	0.21

Fully machined 316 Stainless Steel construction for maximum corrosion resistance. Fully ball raced for smooth swivel action and long service life.

- Compact and durable design.
- Greaseable.
- Eyes will accept shackles.
- 5:1 design factor.
- Proof loaded to two times MWL.
- Manufactured in New Zealand.



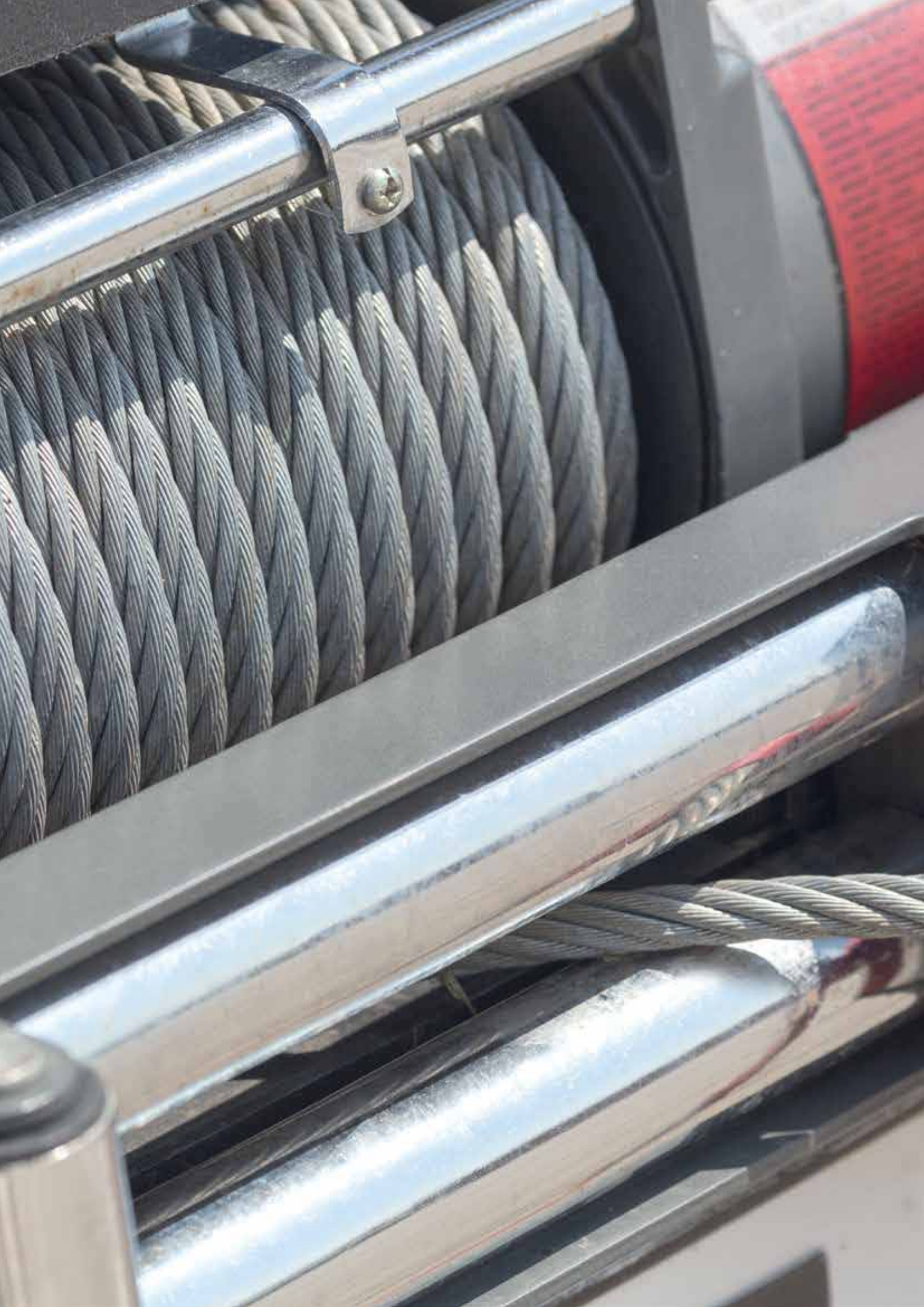
• MWL: The Maximum Working Load is shown only for guidance in selecting a swivel with sufficient strength for the intended application.



• Clevis-Eye or Clevis-Clevis configuration manufactured to order. Larger sizes manufactured to order.



• With the exception of item 07265031 these swivels are not suitable for industrial lifting applications.
• For certified lifting swivels, refer page 367.





WINCHES

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MANUAL OPERATION WINCHES

HAND BRAKE WINCHES

Hand Brake Winches – Powder Coated



Product Code	Model No.	Rated Capacity (kg)		Gear Ratio	Wire Rope Ø	Storage Cap.	Net Weight
		Pulling	Lifting		mm	m	kg
10059535	BHW – 0800	370	180	4.1 : 1	4	36	3.0
10059545	BHW – 1200	545	270	4.1 : 1	5	23	3.3
10059681	BHW – 1800	820	410	5.0 : 1	6	24	8.0
10059745	BHW – 2600	1,200	600	10.0 : 1	8	16	10.3

Complies with AS1418.2 where correctly fitted with approved wire rope and fittings. High quality multi-purpose winches suitable for wire rope or webbing straps.

Automatic 'Weston-Style' load-actuated brake can hold the load in any position. Compact, lightweight and rugged construction with very low operator effort required for easy handling.

Winch features include:

- Gears and brakes fully covered to prevent dust, dirt and rain contamination.
- Strong removable handles.
- Finished in high quality powder coated paint finish.
- Heat-treated pinion gears.
- Universal mounting plate.
- Supplied without rope.
- Manufactured in Taiwan.

Full specifications and dimensional drawings on following pages.



11

WINCHES

Noiseless Hand Brake Winches – Powder Coated



Product Code	Model No.	Rated Capacity (kg)		Gear Ratio	Wire Rope Ø	Storage Cap.	Net Weight
		Pulling	Lifting		mm	m	kg
10059545Q	BHW – 1200-N	545	270	4.1 : 1	5	23	3.3

Equipped with a patented quiet brake design that is virtually silent and fully automatic. Perfect for locations where quiet is required such as hospitals, theatres and schools.

- Gears and brakes fully covered to prevent dust, dirt & rain contamination.
- Strong removable handles.
- Finished in high quality powder coated paint finish.
- Heat-treated pinion gears.
- Universal mounting plate.
- Supplied without rope.
- Manufactured in Taiwan.

Full specifications and dimensional drawings on following pages.



- Never use a winch for supporting or transporting people or for loads over areas where people could be.
- Never walk or work under a load or in the line of force of any load.
- Never exceed the Rated Capacity of a winch or winch component.

MANUAL OPERATION WINCHES

HAND BRAKE WINCHES

Corrosion Protected Hand Brake Winches – Stainless Steel



Product Code	Model No.	Rated Capacity (kg)		Gear Ratio	Wire Rope Ø	Storage Cap.	Net Weight
		Pulling	Lifting		mm	m	kg
10059545S	BHW – 1200S	545	270	4.1 : 1	5	23	3.3
10059681S	BHW – 1800S	820	410	5.0 : 1	6	24	8.0
10059745S	BHW – 2600S	1,200	600	10.0 : 1	8	16	10.3

These winches are protected to give long-term reliability.

- Superior corrosion resistance.
- Protection in the most severe conditions.
- Supplied without rope.
- Manufactured in Taiwan.

Full specifications and dimensional drawings on following pages.



Industrial Ratchet Hand Brake Winches – Powder Coated



Product Code	Model No.	Rated Capacity (kg)		Gear Ratio	Wire Rope Ø	Storage Cap.	Net Weight
		Pulling	Lifting		mm	m	kg
10059735	SF – 2200	1,700	850	22.2 : 1	8	32	13.5

A key feature of this winch is the ratchet-style handle design which permits handle movement in both directions for lifting and lowering loads.

Ratchet handle accommodates installation in cramped locations such as a wall or floor.

- Positive 'Weston-Style' load-actuated brake can hold the load in any position.
- Gears and brakes are fully covered to prevent dust, dirt & rain contamination.
- High precision construction minimises gear noise.
- Finished in high quality powder coated paint finish.
- Very low operator effort is required for easy operation.
- Supplied without rope.
- Manufactured in Taiwan.

Full specifications and dimensional drawings on following pages.



- Never use a winch for supporting or transporting people or for loads over areas where people could be.
- Never walk or work under a load or in the line of force of any load.
- Never exceed the Rated Capacity of a winch or winch component.

MANUAL OPERATION WINCHES

HAND BRAKE WINCH SPECIFICATIONS

Hand Brake Winches

Pacific Hoists

Model	BHW – 0800	BHW – 1200 *	BHW – 1800	BHW – 2600	SF – 2200
Product Code	10059535	10059545	10059681	10059745	10059735
Pulling Capacity (kg)	370	545	820	1200	1700
Lifting Capacity	180	270	410	600	850
Hand Force Required (kg)	14.5	15	22	19	16
Standard Finish	Powder Coated	Powder Coated	Powder Coated	Powder Coated	Powder Coated
Gear Ratio	4.1 : 1	4.1 : 1	5.0 : 1	10.0 : 1	22.2 : 1
Handle Length (mm)	160	210	320	320	300
Hub Diameter (mm)	Ø40	Ø50	Ø70	Ø80	Ø60
Cable Diameter (mm x m)	Ø4.1 x 36	Ø4.8 x 23	Ø6.4 x 24	Ø8.0 x 18	Ø8.0 x 35
Net. Weight (kg)	3.0	3.3	8.0	10.3	13.5
Kylan Finish Available	Yes	Yes	Yes	Yes	No
Stainless Steel Available	No	Yes	Yes	Yes	No
Noiseless Available	No	Yes	No	No	No

* Also covers noiseless model BHW-1200N (Product Code 10059545Q).

General specifications also cover stainless steel models:

- BHW-1200S (Product Code 10059545S)
- BHW-1800S (Product Code 10059681S)
- BHW-2600S (Product Code 10059745S)



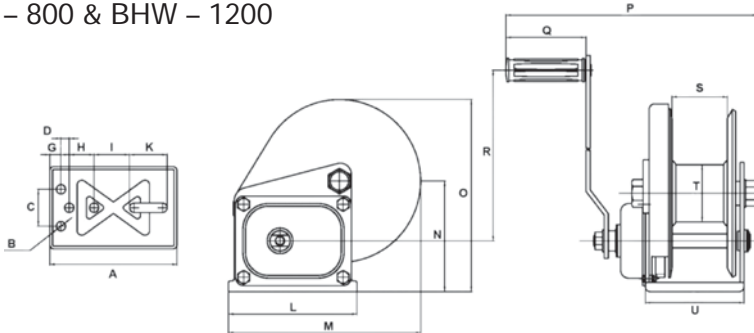
- Never use a winch for supporting or transporting people or for loads over areas where people could be.
- Never walk or work under a load or in the line of force of any load.
- Never exceed the Rated Capacity of a winch or winch component.

MANUAL OPERATION WINCHES

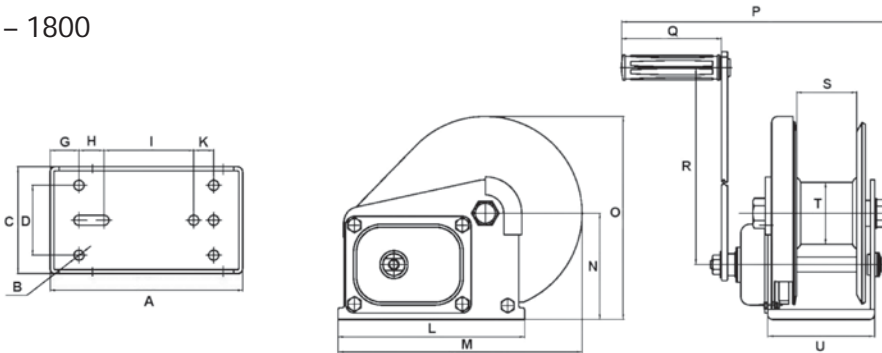
HAND BRAKE WINCH DIMENSIONAL DRAWINGS

Refer dimensions on following page.

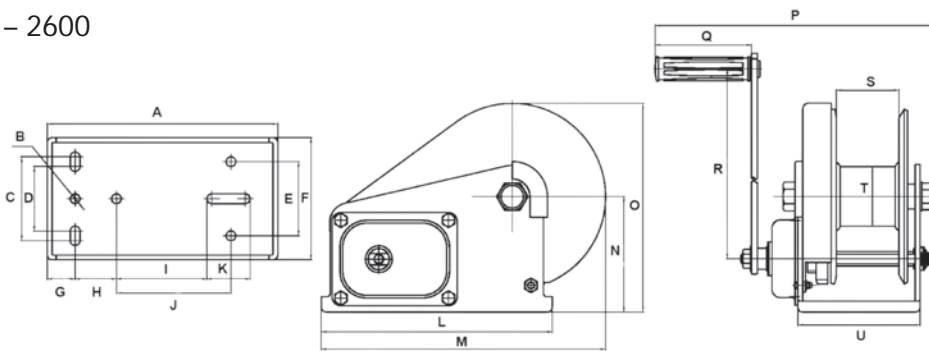
BHW – 800 & BHW – 1200



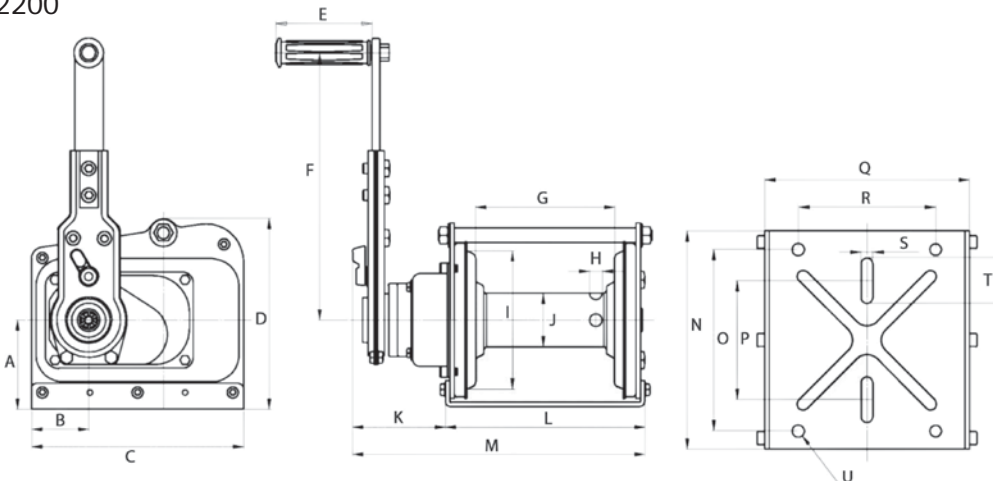
BHW – 1800



BHW – 2600



SF – 2200



MANUAL OPERATION WINCHES

HAND BRAKE WINCH DIMENSIONS

Refer to previous page for respective drawings of each model.

Hand Brake Winches – Dimensions



Model	BHW – 0800	BHW – 1200	BHW – 1800	BHW – 2600	SF – 2200
Product Code	10059535	10059545	10059681	10059745	10059735
A (mm)	138	138	193	240	100
B (mm)	4 – Ø10	4 – Ø10	Ø10	Ø10	64.3
C (mm)	40	40	107	87	238
D (mm)	9	9	70	67	214
E (mm)	—	—	—	77	108
F (mm)	—	—	—	127	300
G (mm)	12	12	29	29	156
H (mm)	27	27	25	43	Ø16
I (mm)	38.5	38.5	90	94	Ø155
J (mm)	—	—	—	119	Ø60
K (mm)	41	41	20	45	118
L (mm)	138	138	187	240	224
M (mm)	190	190	245	295	342
N (mm)	85	85	106.5	120	238
O (mm)	160	160	204	217	198
P (mm)	275	275	285	300	130
Q (mm)	108	108	108	108	224
R (mm)	160	210	320	320	150
S (mm)	55	52	60	65	13
T (mm)	Ø40	Ø50	Ø70	Ø82	50
U (mm)	89	89	107	127	4 – Ø13



- The information shown is to be used as a guide only. Specifications are subject to change without notice.
- All materials handling or lifting jobs should be assessed individually.

MANUAL OPERATION WINCHES

GENERAL PURPOSE HAND WINCHES

Worm Drive Hand Brake Winch – Pulling / Lifting



Product Code	Model No.	Rated Capacity (kg)		Gear Ratio	Wire Rope Ø	Storage Cap.	Net Weight
		Pulling	Lifting		mm	m	kg
10059546	HW-1500	680	340	41 : 1	6.0	23	5.0

A general purpose worm drive winch. The worm gear automatically retains the load when cranking is stopped, avoiding the risk of the winch free-wheeling.

- Winch is operated by cranking clock-wise.
- Load remains suspended when crank is released.
- Load is lowered by cranking handle counter-clockwise.
- Heat treated gears with minimal noise in operation.
- Strong, removable 195mm handle.
- Lift Per Crank Rotation: 7.5mm
- Very low operator effort required.
- Universal mounting plate.
- Baked enamel finish for corrosion protection.
- Manufactured in Taiwan.



⚠️

- Do not use this winch for lifting people or for lifting things over areas where people may stand or pass by.
- Do not lift any load when the rope is completely unrolled. Make sure that there are three complete rope turns on the drum.
- The winch must not be kept under continuous loading.
- Never exceed the Rated Capacity of a winch or winch component.

Corrosion Protected Hand Winches – Pulling



Product Code	Model No.	Rated Capacity	Gear Ratio	Handle Length	Cable Diameter	Net Weight
		Pulling (kg)		mm	mm x m	kg
10059560	HW600K	280	3.1 : 1	175	Ø4.0 x 30	2.26
10059561	HW1200K	550	4.1 : 1	210	Ø5.0 x 20	2.84

These general purpose hand winches are compact, lightweight and a cost effective solution for a variety of applications. Supplied with marine-coated corrosion resistant finish.

- Compact, lightweight and rugged construction.
- Mechanical components enclosed for protection and safety.
- Rope to drum fixing clamp provided.
- High precision construction minimises gear noise.
- Heat treated gears.
- Strong removable handle.
- Kylan coated for excellent corrosion protection.
- Manufactured in Taiwan.



⚠️

- These winches are designed for pulling applications only.
- Never exceed the Rated Capacity of a winch or winch component.

MANUAL OPERATION WINCHES

TUGGER LEVER WINCHES

Cookes Wire Rope Lever Winches



Product Code	Rated Capacity	Design Factor		Wire Rope		Net Weight
	kg	Wire Rope	Static Load	Ø (mm)	Length (m)	kg
10048080	800	5 : 1	4 : 1	8.3	20	6
10048160	1,600	5 : 1	4 : 1	11.0	20	11
10048320	3,200	5 : 1	4 : 1	16.0	20	22

The Cookes Wire Rope 'Tugger Winches' are lever operated hand winches offering light weight, strong performance and substantial operating life with the added advantages of lower operator effort and less rope wear. They are designed to be operated by one person to perform tasks such as lifting, pulling and general movement of loads. With the addition of load sheaves the load can be multiplied accordingly.

Small, compact and light weight, the Cookes 'Tugger Winch' can be easily transported and used for many applications including construction sites, pipe laying, movement and positioning of machinery, large switchboards and storage tanks, laying of tracks and sleepers, installation of masts and towers, loading & unloading of heavy and bulky goods for transportation, cable tensioning, demolition, many rural applications and of course as a necessary part of all 4WD recovery kits.



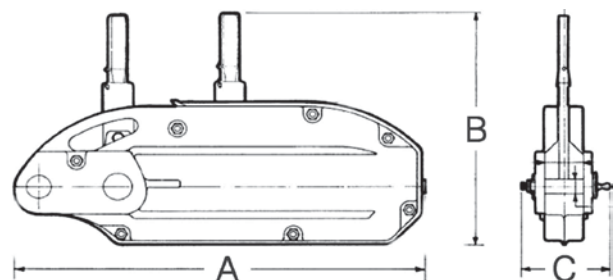
Spare Parts – Tugger Winches

Number	Description
1	Suspension Hook
2	Rope Outlet
3	Safety Pin
4	Feed Control Lever
5	Carry Handle
6	Telescopic Operating Handle
7	Reverse Lever
8	Latch Lever
9	Rope Inlet
10	Wire Rope Including Hook
11	Reel
12	Base Stand

Dimensions – Tugger Winches



Capacity (kg)	800	1,600	3,200
Product Code	10048080	10048160	10048320
A (mm)	328	328	458
B (mm)	232	232	316
C (mm)	367	367	505



Note: Information shown is to be used as a guide only. Specifications are subject to change without notice.

- Compact, Lightweight & Versatile – Extremely versatile to safely lift, pull, lower or stretch loads over long distances. It can be used in horizontal, vertical or angled working positions. Comes with a high strength alloy housing with durable chrome finish to protect against rust. All internal components galvanised. The rope gripping system is easily disengaged, allowing smooth installation of the wire rope. Built in overload protection by a shear pin arrangement in the forward lever. Broken shear pins can be replaced without removing the load.



- Never use a winch for supporting or transporting people or for loads over areas where people could be.
- Never exceed the Rated Capacity of a winch or winch component.

BOAT TRAILER WINCHES

BOAT TRAILER WINCHES

Hand Operated Boat Trailer Winches



Product Code	Manufacturer Item No.	Gear Ratio	Maximum Pull	To Suit	Finish
			kg		
02046011	CPW 1	1 : 1	260	Small Craft	Zinc Plated
02046031	CPW 3	3 : 1	450	Small Boats < 14ft	Zinc Plated
02046051	CPW 5	5 : 1	750	Craft 14ft – 19ft	Zinc Plated
02046101	CPW 10	5 : 1 and 10 : 1	1,150	Larger Craft	Zinc Plated
02046151	CPW 15	15 : 1	1,650	Larger Craft	Zinc Plated

- All units supplied with handle.
- Manufactured in New Zealand.



Electric Boat Trailer Winch



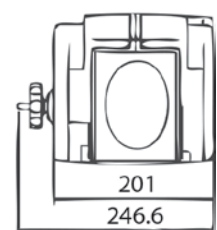
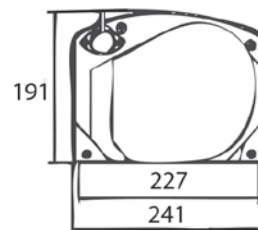
Product Code	Pacific Item No.	Voltage	Boat Weight	Line Pull	Rolling Load	Line Speed	Wire Rope	Net Weight
		V	kg	kg	kg	m / min	Ømm / m	kg
10059068	DW1500i	12 or 24	< 2,268	680	2,268	1.8	5.5 x 9.1	15

Top Gear DW1500i Boat Trailer Winch features a powerful electric motor and is suitable for a wide variety of applications including light duty vehicle recovery, general farm use, boat launching and retrieving as well as for multiple purpose trailer uses.

Suitable for boats up to 18ft (5.5m) and with a maximum weight of 2,268kg.

Features include:

- Powerful permanent magnet motor.
- High impact weather resistant plastic housing for extra durability.
- Manual free spool for rapid wire rope payout.
- Circuit breaker motor protection prevents overload.
- Crank handle supplied for emergency winching.
- Remote control (3m), ball adapter plate and power supply lead included.
- Manufactured in Taiwan.



• Winch wires or straps can be manufactured in-house – refer to your nearest Cookes branch.



- Boat trailer winches are not designed for lifting applications.
- Never walk in the line of force of any load.
- Never exceed the Maximum Line Pull of a boat trailer winch.

ELECTRIC WINCHES

UTILITY WINCHES

Comeup Utility Duty Winches – DV Series



Product Code		Comeup Item No.	Line Pull	Line Speed	Motor Rating	Wire Rope	Drum Size	Gear Ratio	Weight
12 Volt	24 Volt		kg	m / min	watt / hp	Ømm x m	mm xmm		kg
10059095	n.a.	DV2500i	1,134	5.0	600 / 0.8	5 x 15.2	54 / 83	170 : 1	13.5
10059100	10059105	DV4500i	2,041	6.5	1,200 / 1.6	6 x 15.2	54 / 83	170 : 1	14.2

The Utility Duty Winch series (DV2500i – DV4500i) are designed to be used as a trailer winch; providing a line pull of up to 2,000kg.

They are dexterous, easy to install and the high torque permanent magnet motor delivers high line pull at lower amp draw. Automatic load-holding mechanical failsafe brake ensures strength and reliability.



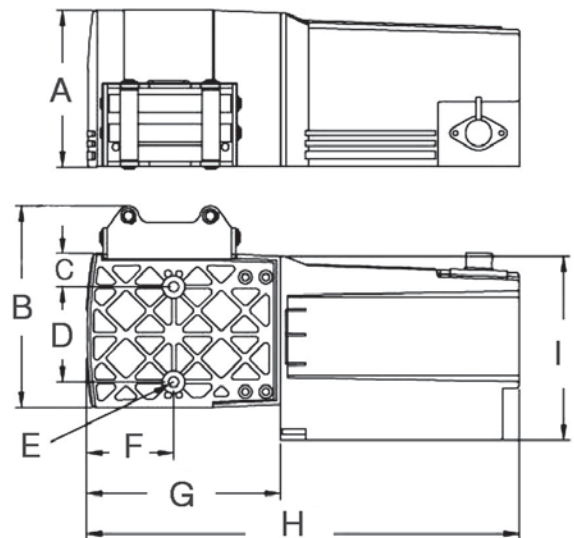
Standard features include:

- Power in and power out.
- Galvanised wire rope 7 x 19.
- Tough weather resistant housing with integrated solenoid pack.
- Built-in mechanical safety braking device.
- Sliding pin and ring gear clutch for rapid wire rope payout.
- Remote control with 3m cable.
- Compact and lightweight.
- Roller Fairlead as standard.
- Manufactured in Taiwan.



DV Series Dimensions

Line Pull (kg)	1,134	2,041	2,041
Model	DV2500i	DV4500i – 12V	DV4500i – 24V
Product Code	10059095	10059100	10059105
A (mm)	153	153	153
B (mm)	197	197	197
C (mm)	32	32	32
D (mm)	93	93	93
E (mm)	2 – 10	2 – 10	2 – 10
F (mm)	86	86	86
G (mm)	190	190	190
H (mm)	423	423	423
I (mm)	180	180	180



- The information shown is to be used as a guide only. Specifications are subject to change without notice.
- All materials handling or lifting jobs should be assessed individually.



- Never use a winch for supporting or transporting people or for loads over areas where people could be.
- Never walk or work under a load or in the line of force of any load.
- Never exceed the Rated Capacity of a winch or winch component.

ELECTRIC WINCHES

SINGLE PHASE 240V WINCHES

Comeup Electric Winches – CP Series

Pacific Hoists

Product Code	Model No.	Rated Capacity	Lifting Speed	Max Lift Height	Wire Rope Ø	Storage Cap.	Net Weight
		kg	m / min	m	mm	m	kg
10059200	CP200	200	10 – 15	29	6	30	32
10059250	CP250	250	10 – 15	29	6	30	34
10059300	CP300	300	10 – 15	29	6	30	38
10059500	CP500*	500	10 – 15	58	7	60	55

* Also available in 3 phase model CP500T (Product Code 10059500T).

Comeup Single Phase 240V Electric Winches are precision engineered and available in lifting capacities from 200kg to 500kg to suit a wide range of applications.



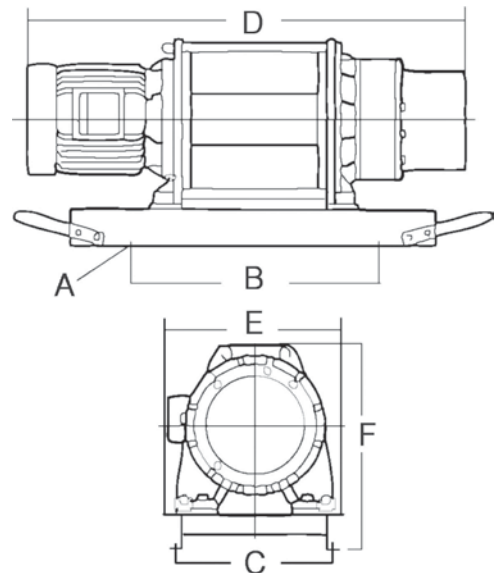
This low maintenance, high performance electric winch range is constructed from heavy duty materials and features include:

- Lightweight, compact design for easy installation and portable use.
- Electromagnetic spring-applied failsafe brake designed for both static and dynamic loading which applies automatically in event of power loss.
- IP65 pendant control. 24V push button control.
- Compact load sharing design of the heat-treated planetary gear which ensures quiet operation and long life.
- Emergency stop function switch is featured on all models.
- Manufactured in Taiwan.



CP Single Phase Series Dimensions

Model	CP200	CP250	CP300	CP500
Product Code	10059200	10059250	10059300	10059500
A (mm)	6 – Ø10.5	6 – Ø10.5	6 – Ø10.5	4 – Ø13.5
B (mm)	142	142	142	267
C (mm)	142	142	142	156
D (mm)	510	548	576	694
E (mm)	210	210	210	260
F (mm)	241	241	241	299



- The information shown is to be used as a guide only. Specifications are subject to change without notice.
- All materials handling or lifting jobs should be assessed individually.



- Never use a winch for supporting or transporting people or for loads over areas where people could be.
- Never walk or work under a load or in the line of force of any load.
- Never exceed the Rated Capacity of a winch or winch component.

ELECTRIC WINCHES

SINGLE PHASE 240V WINCHES

Comeup Electric Winches – CWG Series (1 Phase)

Pacific Hoists

Product Code	Model No.	Rated Capacity	Lifting Speed	Max Lift Height	Wire Rope Ø	Storage Cap.	Net Weight
		kg	m / min	m	mm	m	kg
10059770	CWG10077	300	12 – 18	58	6	60	42
10059851	CWG10151	400	12 – 18	58	9	60	120

Comeup Single Phase 240V Electric Winches are precision engineered and available in lifting capacities of 300kg and 400kg to suit a wide range of applications.



These low maintenance, high performance electric winches are constructed from heavy duty materials to ensure ongoing safety and reliability.

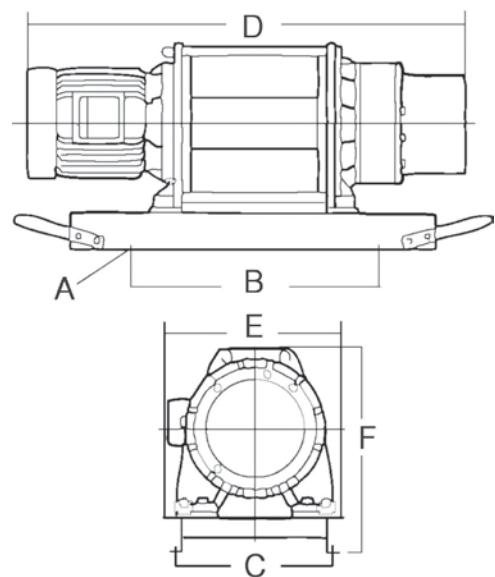
Features include:

- Lightweight, compact design for easy installation and portable use.
- Electromagnetic spring-applied failsafe brake designed for both static and dynamic loading which applies automatically in event of power loss.
- IP65 pendant control. 24V push button control.
- Compact load sharing design of the heat-treated planetary gear which ensures quiet operation and long life.
- Emergency stop function switch is featured on both models.
- Manufactured in Taiwan.



CWG Single Phase Series Dimensions

Model	CWG10077	CWG10151
Product Code	10059770	10059851
A (mm)	4 – Ø13.5	4 – Ø16
B (mm)	197	400
C (mm)	156	325
D (mm)	624	937
E (mm)	252	367
F (mm)	300	425



- The information shown is to be used as a guide only. Specifications are subject to change without notice.
- All materials handling or lifting jobs should be assessed individually.



- Never use a winch for supporting or transporting people or for loads over areas where people could be.
- Never walk or work under a load or in the line of force of any load.
- Never exceed the Rated Capacity of a winch or winch component.

ELECTRIC WINCHES

THREE PHASE 415V WINCHES

Comeup Electric Winches – CWG Series (3 Phase)

Pacific Hoists

Product Code	Model No.	Rated Capacity	Lifting Speed	Max Lift Height	Wire Rope Ø	Storage Cap.	Net Weight
		kg	m / min	m	mm	m	kg
10059951	CWG30151	500	12 – 18	58	9	60	120
10059953	CWG30375	900	13 – 20	58	10	60	220
10059955	CWG30565	1,100	14 – 25	97	12	100	290
10059957	CWG30750	2,200	7 – 12	97	16	100	450
10059959	CWG31500	3,500	5 – 7	144	18	150	860
10059961	CWG34000	5,000	9 – 14	192	22	200	1,500

Comeup Three Phase 415V Winches are precision engineered and available in lifting capacities from 500kg to 5,000kg to suit a wide range of applications.

These low maintenance, high performance electric winches are constructed from heavy duty materials to ensure ongoing safety and reliability.

Features include:

- Lightweight, compact design for easy installation and portable use.
- Electromagnetic spring-applied failsafe brake designed for both static and dynamic loading which applies automatically in event of power loss.
- IP65 pendant control. 24V push button control.
- Compact load sharing design of the heat-treated planetary gear which ensures quiet operation and long life.
- Emergency stop function switch is featured on all models.
- Manufactured in Taiwan.

COMEUP
WINCH

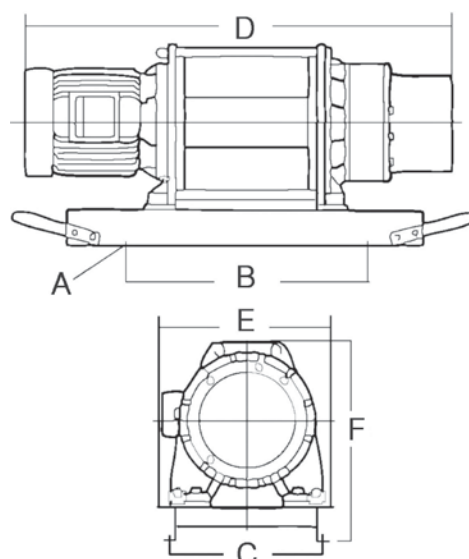


11

WINCHES

CWG Three Phase Series Dimensions

Model	CWG30151	CWG30375	CWG30565	CWG30750	CWG31500	CWG34000
Product Code	10059951	10059953	10059955	10059957	10059959	10059961
A (mm)	4 – Ø16	4 – Ø19	4 – Ø19	4 – Ø22	8 – Ø30	8 – Ø32
B (mm)	400	500	620	600	847	920
C (mm)	325	370	425	499	680	680
D (mm)	922	974	1120	1246	1439	1860
E (mm)	367	400	470	565	740	740
F (mm)	425	445	520	658	860	905



- The information shown is to be used as a guide only. Specifications are subject to change without notice.
- All materials handling or lifting jobs should be assessed individually.



- Never use a winch for supporting or transporting people or for loads over areas where people could be.
- Never walk or work under a load or in the line of force of any load.
- Never exceed the Rated Capacity of a winch or winch component.

ELECTRIC WINCHES

SINGLE PHASE 240V CAPSTAN WINCH

Comeup Dual Drum Electric Capstan Winch

Pacific Hoists

Product Code	Model No.	Drum Size	Rated Capacity	Speed	Gear Ratio	Max. Pulling Durations (min)	Weight
			kg	m / min			kg
10058250	H2500	Large Drum	1,500	4.0	154 : 1	15	43
		Small Drum	2,500	2.5			

The Comeup Capstan winch is designed to tackle the toughest wall, ground and underground pulling applications. Precision engineered and constructed from heavy duty materials for high performance winch with low maintenance.

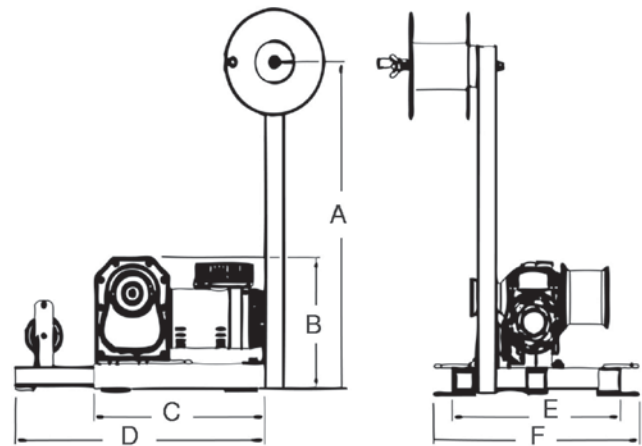
Features include:

- 240 Volt single phase cable puller.
- Dual pulling capacity of 2,500kg and 1,500kg.
- Dual speeds vary according to drum size.
- Over load protection switch which ensures automatic shut-off.
- Electromagnetic spring-applied fail safe brake.
- Heavy duty high efficiency ball bearings on all running surfaces.
- Rugged high power induction motor for proven reliability.
- Case hardened gear train for maximum mechanical efficiency.
- Rope storage reeler.
- Supplied with 3m power supply cable.
- Suitable rope diameter 7mm to 12mm (not supplied as standard).
- Manufactured in Taiwan.



Capstan Winch Dimensions

Model	H2500
Product Code	10058250
A (mm)	850
B (mm)	320
C (mm)	450
D (mm)	655
E (mm)	440
F (mm)	540



• A minimum of 6 wraps of rope around the drum is necessary to support the rated load.



- Never use a winch for supporting or transporting people.
- Do not use the Capstan winch as a lifting device for vertical lifting.
- Never exceed the Rated Capacity of a winch or winch component.
- Never walk in the line of force of any load.

ELECTRIC WINCHES

HOISTING WINCHES

Comeup Hoisting Winches – DH Series



Product Code		Comeup Item No.	Rated Capacity	Line Speed	Motor Rating	Wire Rope	Amp Circuit Breaker	Gear Ratio	Weight
12 Volt	24 Volt								
10100200	10100205	DH120	120	5.0	100 / 0.3	4.0 x 5	20 / 10	56 : 1	17
10100210	10100215	DH300	300	5.0	300 / 0.4	4.8 x 12	30 / 15	240 : 1	27
10100220	10100225	DH1200	545	12.5	900 / 1.2	6.0 x 15	150 / 80	216 : 1	22
10100230	10100235	DH1600	725	14.0	900 / 1.2	5.5 x 20	200 / 120	216 : 1	24
n.a.	10100245	DH2000	907	10.0	2,690 / 3.6	6.0 x 30	210 / 140	261 : 1	48

The Comeup 12 & 24 Volt DC Hoisting Winches provide a great answer to the Health & Safety recommendations for vans and pickups from 1/4 tonne to 1.5 tonne.



Ideal for installation in small trucks and utilities to eliminate the need for manual lifting and pulling. They are constructed from heavy duty material which creates a high performance product with low maintenance; suited for a wide range of applications.

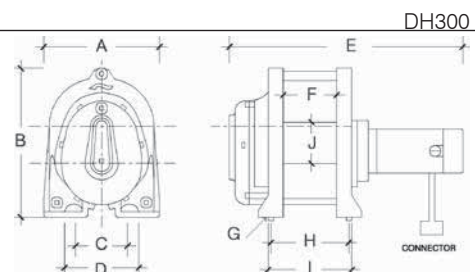
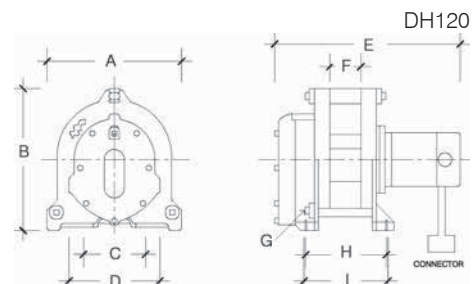
Standard features include:

- Compact, powerful and robust. Corrosion resistant.
- 12 or 24 Volt options. Over-current protection.
- Strong robust mechanical brake.
- Strong base for horizontal mounting.
- Remote pendant control – 4.4m length.
- Galvanised wire rope.
- Duty cycle is 25% ED and maximum frequency of 60 times per hour
- Circuit breakers are supplied with all models.
- Manufactured in Taiwan.



DH120 & DH300 Series Dimensions

Capacity (kg)	120	120	300	300
Model	DH120 – 12V	DH120 – 24V	DH300 – 12V	DH300 – 24V
Product Code	10100200	10100205	10100210	10100215
A (mm)	200	200	210	210
B (mm)	210	210	270	270
C (mm)	92	92	94	94
D (mm)	135	135	135	135
E (mm)	276	276	423	423
F (mm)	46	46	97	97
G (mm)	B – Ø10.5	B – Ø10.5	B – Ø10.5	B – Ø10.5
H (mm)	120	120	142	142
I (mm)	125	125	152	152
J (mm)	—	—	75	75



Note: The information shown is to be used as a guide only. Specifications are subject to change without notice. All materials handling or lifting jobs should be assessed individually.



• Never exceed the Rated Capacity.

ELECTRIC WINCHES

RECOVERY WINCHES

Comeup Self Recovery Winches – DV Series



Product Code		Comeup Item No.	Line Pull	Line Speed	Motor Rating	Wire Rope	Drum Size	Gear Ratio	Weight
12 Volt	24 Volt		kg	m / min	watt / hp	Ømm x m	mm xmm		kg
10059754	n.a.	DV6000S	2,720	8.0	2,386 / 3.2	7 x 24.4	63.5 x 125.5	216 : 1	17.7
10059756	10059757	DV9000	4,080	13.4	3,430 / 4.6	8 x 30.5	63.5 x 229.0	216 : 1	36.0

The Comeup Self Recovery Winches are equipped with a heavy duty motor which delivers superior torque output for self recovery applications. Our featured items offer a choice between 6,000lbs (2,720kg) or 9,000lbs (4,080kg) line pull though other options are available up to 15,000lbs (6,800kg) line pull.



All Comeup Recovery Winches offer the strongest power for working in off-road environments.

Standard features include:

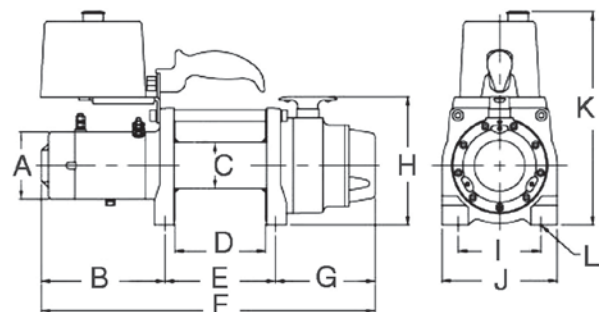
- All sealed high performance motor supplies superior torque output and faster line speed.
- Three stage planetary gearbox delivers the most reliable & durable performance of winch under tough weather conditions.
- Protective thermal sensor LED.
- Heavy duty sealed contactor ensures sound waterproof protection.
- Galvanised 7x19 construction steel wire rope.
- Manufactured in Taiwan.



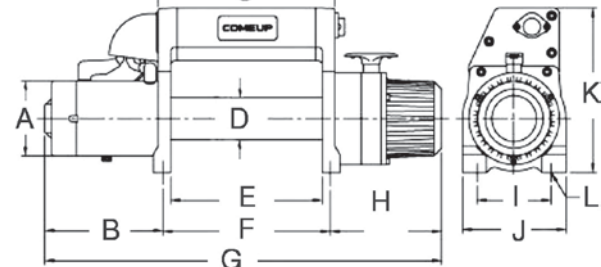
DV6000S & DV9000 Series Dimensions

Line Pull (kg)	2,720	4,080	4,080
Model	DV6000S – 12V	DV9000 – 12V	DV9000 – 24V
Product Code	10059754	10059756	10059757
A (mm)	93	114	114
B (mm)	170.6	179	179
C (mm)	63.5	268	268
D (mm)	125.5	63.5	63.5
E (mm)	152.4	229	229
F (mm)	460	254	254
G (mm)	137	602	602
H (mm)	177	169	169
I (mm)	114	114	114
J (mm)	159	159	159
K (mm)	294	250	250
L (mm)	4 – 11	4 – 11	4 – 11

DV6000S



DV9000



• The information shown is to be used as a guide only. Specifications are subject to change without notice.
• All materials handling or lifting jobs should be assessed individually.



• Never exceed the maximum Line Pull.

HYDRAULIC WINCHES

HYDRAULIC RECOVERY WINCHES

Comeup Hydraulic Recovery Winches – HV Series



Product Code	Comeup Item No.	Line Pull	Line Speed	Operating Pressure	Wire Rope	Drum Size	Gear Ratio	Weight
		kg	m / min	psi	Ømm x m	mm xmm		kg
10059800	HV8000SP	3,630	15	2,030	9.5 x 30.5	90 x 190	16.0 : 1	43.3
10059810	HV10000SP	4,535	14	2,030	9.5 x 40.0	102 x 253	16.0 : 1	46.6
10059820	HV12000P	5,440	10	2,030	13 x 40.0	114 x 255	19.4 : 1	87.0
10059830	HV15000P	6,800	9	2,030	14 x 27.0	127 x 255	19.4 : 1	88.0

Comeup Hydraulic Recovery Winches feature supreme power and reliability to handle the most demanding situations. They are designed for heavy duty applications on car transporters, tilt-tray vehicles, tractors, trucks and fire rescue vehicles and have the ability to run continuously in every condition.



Standard features include:

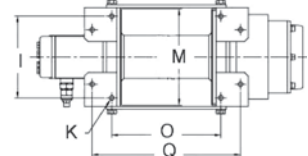
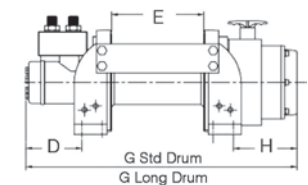
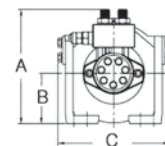
- Highly efficient and constant operating high torque motor.
- Two stage planetary gear train for greater pulling force.
- Drag brake and over-centre valve providing full 100% braking.
- European Standard EN14492-1 compliant; meets SAE J706, CE Machinery Directive 2006/42/EC and REMSA Standards.
- 10:1 D/d ratio and 2:1 wire rope strength allow severe duty vehicles and commercial recovery.
- Manufactured in Taiwan.



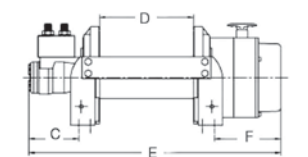
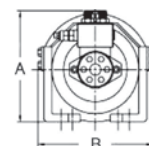
HV Series Dimensions

Line Pull (kg)	3,630	4,535	5,440	6,800
Model	HV8000SP	HV10000SP	HV1200P	HV1500P
Product Code	10059800	10059810	10059820	10059830
A (mm)	243.2	243.2	276.0	276.0
B (mm)	107.5	107.5	289.0	289.0
C (mm)	238.0	238.0	135.4	139.9
D (mm)	115.4	117.9	255.0	255.0
E (mm)	190.0	235.0	684.0	688.5
G Std Drum	557.6	623.1	171.2	171.2
G Long Drum	620.6	—	—	—
H (mm)	131.0	131.0	114.0	114.0
I (mm)	171.2	171.2	8-M12XP1.75	8-M12XP1.75
K (mm)	8-M10XP1.5	8-M10XP1.5	252.0	252.0
L (mm)	90.0	102.0	303.5	303.5
M (mm)	201.5	201.5	368.5	368.5
O (mm)	291.6	291.6	—	—
Q (mm)	374.2	374.2	—	—

HV8000SP,
HV10000SP



HV12000P,
HV15000P



• HV20000 Model with 9,000kg line pull now available. Contact your local Cookes branch.



• The information shown is to be used as a guide only. Specifications are subject to change without notice.
• All materials handling or lifting jobs should be assessed individually.



• Never exceed the maximum Line Pull.

CARE & USE OF WINCHES

SAFE USE

Never:

- Exceed the Rated Capacity or maximum Line Pull.
- Use a winch for lifting people unless it has been purposely designed to do so.
- Never lift loads over areas where people could be present.
- Use winches with loose or insecure handles.
- Use winches if the rope is twisted or trapped.
- Leave a load suspended freely in the air. If a load must be left suspended for a period of time, then a safety holding device such as a suitable rated chain should be fitted to secure the load.
- Use the pawl to arrest descending loads.

Loading on Winches

The load and speed of electric winches varies according to how much rope is on the drum. The first layer of rope on the drum delivers the slowest speed and the maximum load. A full drum delivers the maximum speed and the minimum load. Most winches are rated at their first layer capacities and the rating reduces by approximately 10% for each subsequent rope layer.

Using a brake winch safely in a lifting application

Winches are primarily designed as pulling devices and in most cases a hoist is recommended for lifting applications.

It is accepted however that a winch may prove more effective for lifting in certain circumstances. There are important considerations to be taken into account prior to using a winch for lifting purposes:

- Does the winch have a braking system approved for lifting applications?
- Does the winch have a specific rating for lifting as opposed to pulling?
- Does the winch comply with the required standard for use as a lifting device?

When using a winch in a lifting application you must ensure that the following safety instructions are adhered to:

Always:

- Satisfy yourself that the winch chosen is suitable for the intended lift application and meets all health and safety regulations.
- Have certification available to confirm that both the winch and the wire rope and components have sufficient WLL for the intended lift.
- Inspect the winch, rope and accessories before use and before placing into storage.
- Ensure mounting and suspension points are secure and suitable for all loads that will be imposed.
- Lift the load just clear of the ground and halt for short period to ensure the integrity of the brake before completing the lift.
- Ensure that only competent and fully trained persons use the winch.



- This information is provided as a guide only. When using a winch for pulling or lifting purposes, it is the user's responsibility to ensure the winch meets all required regulations and that the operator is fully trained and competent in operating the device.
- Never exceed the Rated Capacity or maximum Line Pull of any winch.



- Improper winch use could result in serious injuries or death.

CARE & USE OF WINCHES

SAFE USE OF TUGGER WINCHES

Before Use:

- Before use, carefully visually inspect the winch to ensure it is in a safe condition for use with no missing screws or parts. Operate all of the handles to ensure they are in order with no unusual noise or restrictions.
- Ensure the correct rope is selected for the winch and check the rope to ensure it is clean and undamaged before reeving into the winch.
- During normal operation it is not necessary to grease the rope.

Always:

- Always select a Cookes Wire Rope Pulling Hoist which is suitable for the required load.
- Always ensure the wire rope being used is the correct assembly for the specific winch. During operation, the rope should be kept clean to ensure mud and/or dirt does not get inside the winch. Failure to follow this precaution will increase wear on the rope and the grip jaws and may shorten the serviceable life of both.
- Always ensure the correct telescopic handle for the specific winch is being used. Do not utilise extended handles or leverage bars to save effort. If the load is too heavy for the winch operation, either use a larger capacity winch or apply the use of pulley blocks with the rope to decrease the effort required on the operating handle.
- Always ensure the rope inlet and outlet on the winch is not obstructed during operation. Also check the rope is free to move through the inlet and outlet without jamming due to being curled or wrapped around an obstacle. Be aware of any rope twisting trend during operation as tension release of this may damage the rope or cause injury to any personnel in the vicinity.
- Always ensure only one handle is in use at any time and that the others are not obstructed during use. Failure to do so may cause injury to personnel.

Never:

- Never use the rope itself as a loop around the load as this may damage the rope strands leading to failure.
- The factory supplied anchor pin fitted into the fixed axis must not be substituted for any other pin. Failure to follow this directive may cause a misalignment of the winch with possible damage and failure of the unit which may cause personal injury to the operator.
- Only the fixed axis point with the anchor pin fitted must be used to fix the winch and the fixed point of the rope end must support the other end. Never try to operate the winch in any other configuration as personal injury may be the result.



- This information is provided as a guide only. When using a winch for pulling or lifting purposes, it is the user's responsibility to ensure the winch meets all required regulations and that the operator is fully trained and competent in operating the device.
- Never exceed the Rated Capacity of a Tugger Winch.



- Improper winch use could result in serious injuries or death.

WINCH OPERATED CRANE

TELESCOPIC JIB CRANE

My-T-Lift Telescopic Crane & Winch

Product Code	Model No.	Rated Capacity	Net Weight
		kg	kg
10058500	MYT300	300	68

The My-T-Lift is the perfect solution for the safe handling of heavy loads, up to 300kg. This 360° telescopic jib crane is designed for single handed operation and can be mounted on trucks, trailers, pontoons and similar structures. It has the option of a manual winch or a 12 or 24 volt electric winch.

Due to its design, the My-T-Lift has the capability to allow accurate placement of heavy loads, even in confined space. This product is made from high quality durable steel and has the option to fold down when not in use.

Supplied as standard without winch – refer winch options below.

Standard features include:

- Available with manual brake winch, 12 or 24 volt electric winch.
- 360° manual radial slew; with slipper bearing thrust race for ease of slewing motion.
- Rugged structure with low maintenance powder coated finish.
- Folds down when not in use.
- Allows accurate placement of heavy loads in confined space.
- Drum lifting sling available as optional extra.

Options Available

Product Code	Model No.	Description
10059681	BHW1800	Manual Brake Winch
10100210	DH300	Electric Winch – 12V
10100215	DH300	Electric Winch – 24V
02836810	DLS	Drum Lifting Sling
02840030	PD6100	Drum Lifting Grab
10058520	CWS159A	Weighted Hook *
10058510	CRN300AP	Mounting Plate *

* Required with electric winch option.



Application Example: My-T-Lift with manual brake winch mounted on truck cargo area.



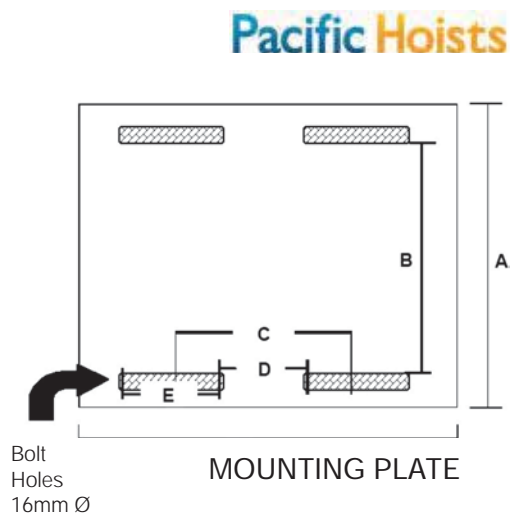
• Never exceed the Rated Capacity.

WINCH OPERATED CRANE

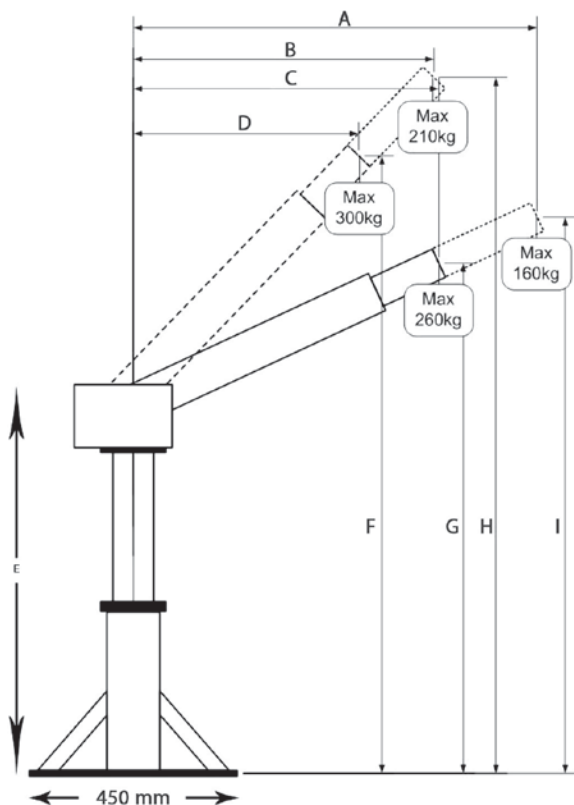
DIMENSIONAL DRAWINGS

My-T-Lift Telescopic Crane & Winch

Model	MYT300B	Mounting Plate
Product Code	10058500	10058510
A (mm)	1,790	455
B (mm)	1,490	379
C (mm)	1,290	195
D (mm)	1,110	70
E (mm)	920	123
F (mm)	1,730	450
G (mm)	1,330	—
H (mm)	2,030	—
I (mm)	1,510	—



MY-T-LIFT TELESCOPIC CRANE



- The information shown is to be used as a guide only. Specifications are subject to change without notice.
- All materials handling or lifting jobs should be assessed individually.

WINCH ROPES & STRAPS

WIRE ROPES, DYNAMICA ROPES & WEBBING STRAPS

Cookes have the in-house capability to manufacture winch ropes and polyester webbing straps to your specific requirements.

Note that many winches are supplied without ropes or straps as the choice is often one of personal preference.

Winch ropes and straps can be manufactured from the following materials:

- Steel wire rope.
- Polyester webbing.
- Dynamica cordage.

Hook options detailed on following pages.



• For further information contact your local Cookes branch, Freephone 0508 274 366 or email customerservices@bridoncookes.co.nz.



• Where ropes are being fitted to winches approved for lifting applications, be sure to advise our team member of your required Working Load Limit (WLL).



• Where a hook is fitted always ensure load is seated correctly in bowl of hook.
• Never exceed the Rated Capacity of any wire rope, Dynamica rope or webbing straps.

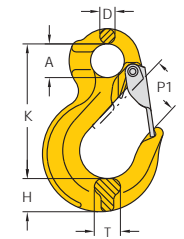
WINCH ROPES & STRAPS

HOOKS FOR WINCH ROPES & STRAPS

Eye Hooks – For Lifting & Pulling Applications



Product Code	Yoke Item No.	WLL	Dimensions (mm)						Weight
		t	A	D	H	K	P1	T	kg
02463006	8-044/S-06	1.12	20	9	20	80	23	16	0.3
02463007	8-044/S-07	2.0	25	11	23	98	28	20	0.5
02463010	8-044/S-10	3.15	32	14	31	121	36	23	1.0
02463013	8-044/S-13	5.3	40	18	38	152	40	28	1.7



Where a winch is approved for lifting applications it must carry a rope and hook also approved for lifting. The Yoke eye hooks are fully tested and certified for such applications. Includes safety latch.

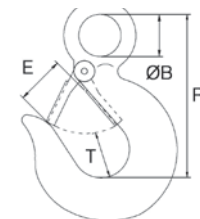


- Replacement safety latch kits available.
- Complies with EN1677.
- Design factor 4:1 proof tested and certified.
- Manufactured in Taiwan.



Eye Hooks – For Pulling Applications Only

Product Code	MWL*	Dimensions (mm)				Approx. Weight
	kg	Ø B	E	R	T	kg
09564505	750	16	20	71	16.5	0.20
09564506	1,000	19	21	82	20.0	0.25
09564507	1,500	23	23	93	21.0	0.40
09564508	2,000	28	24	104	21.0	0.60
09564509	3,000	32	26	119	27.5	1.00



Designed for pulling applications only.

- Manufactured from 40cr Alloy Steel.
- Marked with MWL.
- 4:1 design factor.
- Complete with spring actuated safety catch.
- Zinc plated finish.
- Manufactured in China.

* MWL: The Maximum Working Load is shown only for guidance in selecting a hook with sufficient strength for the intended application.



• Cookes can manufacture winch ropes and straps in-house to your requirements.



• Item 2 is not suitable for lifting applications!

WINCH ROPES & STRAPS

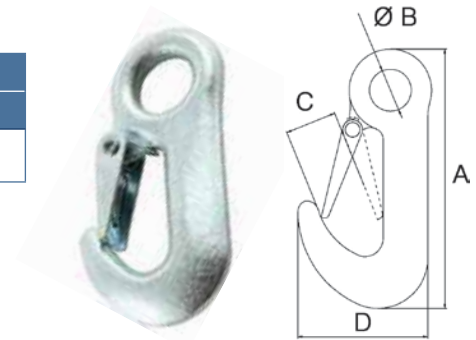
HOOKS FOR BOAT WINCH ROPES & STRAPS

Forged Snap Hooks

Product Code	MWL	Dimensions (mm)			
	kg	A	Ø B	C	D
09564740	750	91	18	19	46

A small compact hook that offers a stronger alternative to S-Hooks on boat trailer winch ropes.

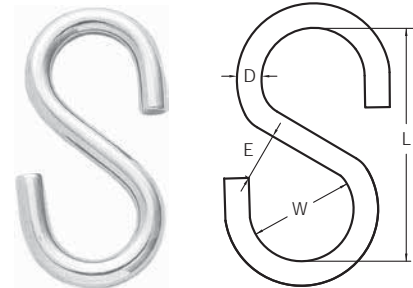
- Suitable for use with both rope and webbing.
- Complete with spring actuated safety catch.
- Zinc plated finish.
- Manufactured in China.



S-Hooks

Product Code	Size (mm)	MWL	Dimensions (mm)		
	D		L	W	E
09564309	8	158	64	24	12

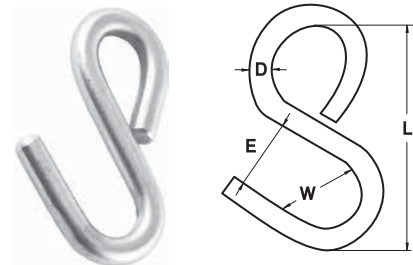
- AISI316 Stainless Steel material.
- Polished finish.
- Design factor 4:1 MWL to MBL.
- Manufactured in China.



Bull Nose S-Hooks

Product Code	Size (mm)	MWL	Dimensions (mm)		
	D		L	W	E
09564303	9.5	250	70	21	23.5

- AISI316 Stainless Steel material.
- Machined 'Bull Nose' one end.
- Design factor 4:1 MWL to MBL.
- Manufactured in New Zealand.



* MWL: The Maximum Working Load is shown only for guidance in selecting a S-hook with sufficient strength for the intended application.



• Cookes can manufacture winch ropes and straps in-house to your requirements.



- Not suitable for lifting applications!
- Never use a winch rope or winch strap as a sling.
- Where a hook is fitted always ensure load is seated correctly in bowl of hook.





HOISTS, TROLLEYS & BEAM CLAMPS

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CHAIN BLOCKS

MANUAL CHAIN BLOCKS



Product Code	Rated Capacity	Lift Height	Hand Force When Fully Loaded	Load Chain Falls	G80 Load Chain Size	Min. Dist. Btw. Head Hooks (Headroom)	Hand Chain Diameter	Hand Chain Drop	Net Weight
	kg	m	N	No.	Ø xmm	mm	Ø xmm	m	kg
10045025	250	3	190	1	4.0 x 12	280	5 x 23.7	2	6
10045050	500	3	210	1	5.0 x 15	280	5 x 23.7	2	9
10045056	500	6	210	1	5.0 x 15	280	5 x 23.7	5	10
10045100	1,000	3	285	1	6.3 x 19	330	5 x 23.7	2	12
10045106	1,000	6	285	1	6.3 x 19	330	5 x 23.7	5	15
10045150	1,500	3	325	1	7.1 x 21	360	5 x 23.7	2	14
10045156	1,500	6	325	1	7.1 x 21	360	5 x 23.7	5	18
10045200	2,000	3	355	1	8.0 x 24	385	5 x 23.7	2	20
10045206	2,000	6	355	1	8.0 x 24	385	5 x 23.7	5	25
10045300	3,000	3	340	2	7.1 x 21	510	5 x 23.7	2	23
10045306	3,000	6	340	2	7.1 x 21	510	5 x 23.7	5	29
10045500	5,000	3	400	2	9.0 x 27	615	5 x 23.7	2	39
10045506	5,000	6	400	2	9.0 x 27	615	5 x 23.7	5	50

12

HOISTS, TROLLEYS & BEAM CLAMPS


Incorporate the latest technology to assure you of a high quality device which is easy to use and safe for the operator. Every hoist is inspected and tested upon receipt in New Zealand to ensure compliance with AS1418.2. Improved braking performance ensures the integrity of the load under all conditions.

Design improvements mean up to 25% less operator effort to lift the load. New style load hooks with cast, notched safety latches increase safety and lengthen service life of the latches. All key internal components are CNC machined for enhanced product reliability.

- Manufactured to comply with AS1418.2
- Suitable for operating temperatures -10°C to +50°C
- Manufactured in China.




 • All Cookes Manual Chain Blocks can have longer load chains and hand chains fitted to suit your specific requirements.
 • Refer following page for spare parts.


 • Never exceed the Rated Capacity!
 • Never use a hoist for lifting, supporting or transporting people.
 • Never support a load on the tip of a hook.

CHAIN BLOCKS

CHAIN BLOCK SPARES

Hand Chain & Load Chain



Product Code	Description	To Suit Models	Size
			Ø xmm
10045020	Hand Chain	All Models	5.0 x 23.7
10067329	Load Chain	250 Kg	4.0 x 12.0
10067330	Load Chain	500 Kg	5.0 x 15.0
10067331	Load Chain	1,000 Kg	6.3 x 19.0
10067333	Load Chain	1,500 & 3,000 Kg	7.1 x 21.0
10067335	Load Chain	2,000 Kg	8.0 x 24.0
10067336	Load Chain	5,000 Kg	9.0 x 27.0

Brake Discs, Hooks & Safety Catches

Chain Block	Rated Capacity of Hoist (kg)	Brake Discs	Top Hook	Bottom Hook	Hook Safety Latch
Product Code		Product Code	Product Code	Product Code	Product Code
10045025	250	10045025BD	10045025TH	10045025BH	10045025SL
10045050	500	10045050BD	10045050TH	10045050BH	10045050SL
10045056	500	10045050BD	10045050TH	10045050BH	10045050SL
10045100	1,000	10045100BD	10045100TH	10045100BH	10045100SL
10045106	1,000	10045100BD	10045100TH	10045100BH	10045100SL
10045150	1,500	10045150BD	10045150TH	10045150BH	10045150SL
10045156	1,500	10045150BD	10045150TH	10045150BH	10045150SL
10045200	2,000	10045200BD	10045200TH	10045200BH	10045200SL
10045206	2,000	10045200BD	10045200TH	10045200BH	10045200SL
10045300	3,000	10045300BD	10045300TH	10045300BH	10045300SL
10045306	3,000	10045300BD	10045300TH	10045300BH	10045300SL
10045500	5,000	10045500BD	10045500TH	10045500BH	10045500SL
10045506	5,000	10045500BD	10045500TH	10045500BH	10045500SL



- Increasing Height of Lift: All Cookes chain hoists can have longer load chains and hand chains fitted to suit your specific requirements.
- The full range of spare parts are detailed in the Instruction Manual provided with Cookes Chain Blocks.

CHAIN BLOCKS

MANUAL CHAIN BLOCKS

Manual Chain Block c/w Overload Protection

Pacific Hoists

Product Code	Rated Capacity	Lift Height	Hand Force When Fully Loaded	Load Chain Falls	G80 Load Chain Size	Hand Chain Diameter	Hand Chain Drop	Net Weight
	kg	m	N	No.	Ø xmm	Ø xmm	m	kg
10067050OL	500	3	210	1	5.0 x 15	5 x 23.7	2	9.0
10067056OL	500	6	210	1	5.0 x 15	5 x 23.7	5	9.5
10067100OL	1,000	3	285	1	6.3 x 19	5 x 23.7	2	12.0
10067106OL	1,000	6	285	1	6.3 x 19	5 x 23.7	5	13.0
10067150OL	1,500	3	325	1	7.1 x 21	5 x 23.7	2	14.0
10067156OL	1,500	6	325	1	7.1 x 21	5 x 23.7	5	15.0
10067200OL	2,000	3	355	1	8.0 x 24	5 x 23.7	2	20.0
10067206OL	2,000	6	355	1	8.0 x 24	5 x 23.7	5	21.0
10067300OL	3,000	3	340	2	7.1 x 21	5 x 23.7	2	23.0
10067306OL	3,000	6	340	2	7.1 x 21	5 x 23.7	5	25.0
10067500OL	5,000	3	400	2	9.0 x 27	5 x 23.7	2	39.0
10067506OL	5,000	6	400	2	9.0 x 27	5 x 23.7	5	42.0
10067900OL	9,000	3	540	4	9.0 x 27	5 x 23.7	2	65.0
10067906OL	9,000	6	540	4	9.0 x 27	5 x 23.7	5	69.0

A compact, easy to use, quality chain block with patented overload limiting device. This device limits the amount of overload that can be lifted, therefore preventing damage to the block.

- Manufactured to comply with AS1418.2.
- Suitable for operating temperatures -10°C to +50°C
- High strength end stop with secondary end anchor for increased safety.
- 'T' type hooks for improved load holding integrity.
- Gear system design for reduced effort when lifting loads.
- Includes a specially designed hand wheel to eliminate hand chain slippage and pocket wear.
- Encapsulated needle bearings and side plate bearings for smoother operation.
- Brake lockout bearing for security of braking mechanism.
- Key internal components are CNC machined before being heat-treated and toughened.
- Fitted with high quality European zinc plated grade 80 load chain.
- No aluminium content which ensures suitability for mining applications.
- Manufactured in China.



• All Pacific Manual Chain Hoists can have longer load chains and hand chains fitted to suit your specific requirements.



- Never exceed the Rated Capacity!
- Never use a hoist for lifting, supporting or transporting people.
- Never support a load on the tip of a hook.

CHAIN BLOCKS

MANUAL CHAIN BLOCKS

VITAL V5 SERIES

Vital is a Japanese brand which is globally recognised for their high quality products. Their range of chain blocks are suited for many applications in the mining, construction, industrial and automotive industry. They have proven to be an economical method to lift heavy loads with ease.

The rated capacities vary from 0.5 tonne to 20 tonne and all chain blocks can be supplied with overload protection for added security of use. Complies with AS1418.2.

Standard features include:

- Manufactured in Japan using optimum high quality steel which complies with the strict JIS & ISO regulations.
- Suitable for operating temperatures -20°C to +60°C
- Designed for long-term use while providing the lowest possible per-use cost.
- Can be supplied close coupled and extra close coupled to girder trolleys to alleviate headroom restrictions.
- All Vital chain blocks can be supplied with overload protection.
- Customised lift height are available upon request.
- Quality caged needle bearings on load sheave, thrust bearings on bottom hook.
- Hardened alloy steel load chain with embossed identification, marked as to the relevant standards.
- Load chain exceeds Australian standards with 5:1 design factor..
- Manufactured in Japan.



KITO M3 SERIES (INDENT OPTION)

KITO rugged M3 chain blocks are manufactured in Japan to exacting standards making them ideal for mining, engineering and construction. Complying with Australian Standard AS1418.2 the M3 series chain blocks offer numerous superior features.

- Available on indent from Australia in rated capacities from 500kg to 10 tonne.
- Suitable for operating temperatures -20°C to +60°C
- Gear case and hand wheel cover resistant to external shocks.
- Braking mechanism inside double enclosure.
- Dry type mechanical brake ensures reliable performance.
- Large dimension double hooks.
- Grade 100 load chain.
- All KITO chain blocks can be supplied with overload protection.
- Available in customised lift heights.
- Manufactured in Japan.



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HOISTS, TROLLEYS
& BEAM CLAMPS



• For further information on the Vital V5 Series or KITO M3 Series chain blocks, contact your local Cookes branch, Freephone 0508 274 366 or email customerservices@bridoncookes.co.nz.

MANUAL GIRDER TROLLEYS

CHOOSING A TROLLEY

Choosing a suitable manual girder trolley for your application.

Push Type

Push trolleys are most often used in areas where no power is readily available. They are moved by manual pushing with the load being lifted by the attached hoist along a monorail. Spacers allow adjustment to suit various beam widths.

- Single Pin Model: Popular standard model.
- Twin Pin Model: Provides increased headroom for hoist.

Geared Push Type

Geared push trolleys are most often used in areas where no power is readily available. They are hand-operated by pulling on a hand chain. While slower to operate than a non-g geared push trolley, they provide increased control over movement and stopping when under load. Spacers allow adjustment to suit various beam widths.



Cooke's Push Girder Trolley
– Single Pin



Pacific Push Girder
Trolley – Twin Pin



Pacific Geared Girder
Trolley – Single Pin



Pacific Geared Girder
Trolley – Twin Pin



- All materials handling or lifting jobs should be assessed individually.
- Hoisting products must not be used for lifting or lowering persons.
- Geared trolleys are recommended for loads over 5 tonne.

MANUAL GIRDER TROLLEYS

PUSH GIRDER TROLLEYS

Cookes Push Girder Trolley – Single Pin



Product Code	Rated Capacity	Beam Width	Headroom	Min. Curve Radius	Net Weight
	kg	mm	mm	m	kg
10046050	500	50 – 152	105.0	0.8	6.0
10046100	1,000	64 – 203	126.5	0.9	11.5
10046200	2,000	88 – 203	146.0	1.0	18.0
10046300	3,000	100 – 203	169.0	1.2	30.0
10046500	5,000	114 – 203	197.0	1.3	44.0

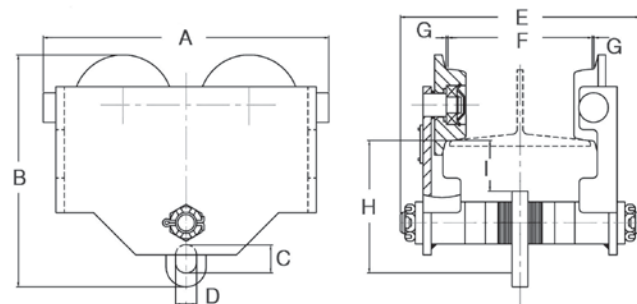
Constructed from high quality steel, the Cookes Push Trolley is designed to provide durable and reliable service at an economical price.

- High quality construction.
- Complies with AS1418.2.
- Fitted with anti-drop plates for improved safety compliance.
- High grade, fully sealed bearings for maintenance free extended life.
- Fully adjustable to suit a range of beam sizes.
- Manufactured in China.



Push Girder Trolley – Dimensions

Capacity (kg)	500	1,000	2,000	3,000	5,000
Product Code	10046050	10046100	10046200	10046300	10046500
A (mm)	223	270	300	356	405
B (mm)	188	224	261	308	354
C (mm)	32	40	52	62	75
D (mm)	24	30	38	40	50
E (mm)	244	310	327	342	354
F (mm)	50 – 152	64 – 203	88 – 203	100 – 203	114 – 203
G (mm)	1.5 – 3	1.5 – 3	1.5 – 3	1.5 – 3	1.5 – 3
H (mm)	105	126.5	146	169	197
I (mm)	31	38	36	40	42



i • The information shown is to be used as a guide only. Specifications are subject to change without notice.

!

- Never exceed the Rated Capacity!
- All materials handling or lifting jobs should be assessed individually.
- Hoisting products must not be used for lifting or lowering persons.

MANUAL GIRDER TROLLEYS

PUSH GIRDER TROLLEYS & PIPE TROLLEYS

Pacific Push Girder Trolley – Twin Pin



Product Code	Pacific Hoist Item No.	Rated Capacity	Beam Width	Headroom	Min. Curve Radius	Net Weight
		kg	mm	mm	mm	kg
10069605	PPT305MK	500	50 – 152	75	900	6
10069610	PPT310MK	1,000	64 – 203	96	900	12
10069620	PPT320MK	2,000	88 – 203	110	1,000	18
10069630	PPT330MK	3,000	100 – 203	122	1,200	30
10069650	PPT350MK	5,000	114 – 203	142	1,300	44
10069660	PPT100MK	10,000	124 – 203	160	2,000	90

The Pacific range of girder trolleys include the same quality and safety features found in the Cookes trolley range. Twin pin girder trolleys are designed for low headroom applications.

- High quality construction.
- Complies with AS1418.2.
- Fitted with anti-drop plates for improved safety compliance.
- High grade, fully sealed bearings for maintenance free extended life.
- Fully adjustable to suit a range of beam sizes.
- Manufactured in China.



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Pacific Pipe Push Trolley



Product Code	Pacific Hoist Item No.	Rated Capacity	Pipe Diameter	Net Weight
		kg	mm	kg
10100304	PPT203	300	60	2.5



Complies with AS4991.

The Pacific Pipe Trolley is compact and light weight. This general purpose powder coated trolley is designed to suit 60mm outside diameter pipes.

- Manufactured in China.



- Never exceed the Rated Capacity!
- All materials handling or lifting jobs should be assessed individually.
- Hoisting products must not be used for lifting or lowering persons.
- Caution should be taken when choosing girder trolleys for loads heavier than 5 tonne. In most cases a geared trolley is recommended for such loads to provide required control when stopping movement.

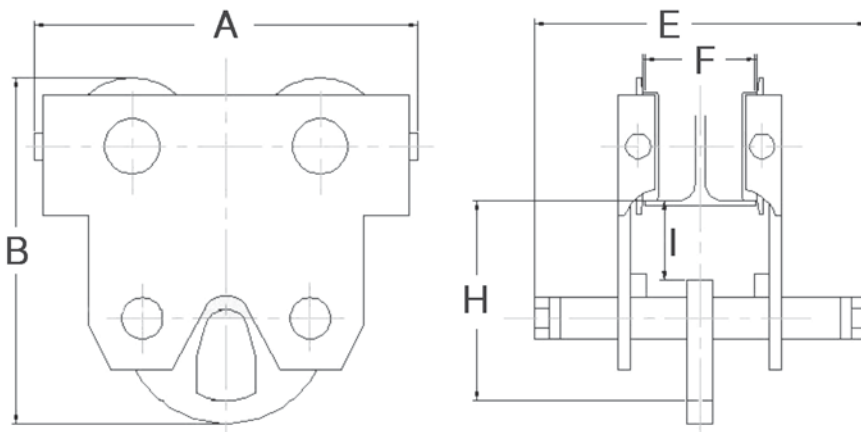
MANUAL GIRDER TROLLEYS

DIMENSIONAL DRAWINGS

Pacific Push Girder Trolley – Twin Pin



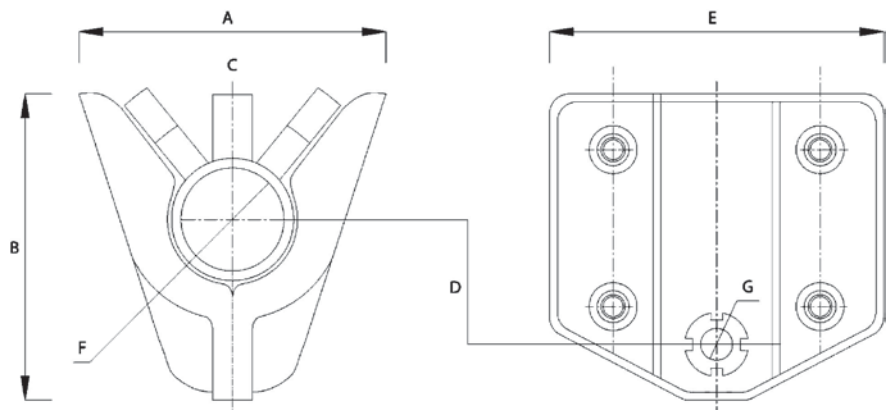
Model	PPT305MK	PPT310MK	PPT320MK	PPT330MK	PPT350MK	PPT100MK
Product Code	10069605	10069610	10069620	10069630	10069650	10069660
A (mm)	194	236	266	322	352	490
B (mm)	158	196	226	266	301	395
E (mm)	236	303	317	333	355	482
F (mm)	50 – 152	64 – 203	88 – 203	100 – 203	114 – 203	124 – 203
H (mm)	75	96	110	122	142	189
I (mm)	30	38	38	40	42	45



Pipe Push Trolley



Model	PPT203
Product Code	10100304
A (mm)	147.5
B (mm)	160
C (mm)	22
D (mm)	68
E (mm)	160
F (mm)	60
G (mm)	17



The information shown is to be used as a guide only. Specifications are subject to change without notice.



- All materials handling or lifting jobs should be assessed individually.
- Hoisting products must not be used for lifting or lowering persons.

MANUAL GIRDER TROLLEYS

GEARED GIRDER TROLLEYS

Pacific Geared Girder Trolley – Single Pin



Product Code	Pacific Hoist Item No.	Rated Capacity	Beam Width	Headroom	Min. Curve Radius	Net Weight
		kg	mm	mm	mm	kg
10069405	PGT305HK	500	50 – 152	57.5	800	10.0
10069410	PGT310HK	1,000	66 – 188	67.0	1,000	15.0
10069415	PGT315HK	1,500	74 – 192	72.0	1,000	18.5
10069420	PGT320HK	2,000	88 – 203	75.0	1,100	22.0
10069430	PGT330HK	3,000	100 – 205	88.0	1,300	35.0
10069450	PGT350HK	5,000	114 – 212	96.5	1,400	46.0

Pacific Geared Girder Trolley – Twin Pin



Product Code	Pacific Hoist Item No.	Rated Capacity	Beam Width	Headroom	Min. Curve Radius	Net Weight
		kg	mm	mm	mm	kg
10069460	PGT300MK	10,000	124 – 305	189.0	2,000	176
10069465	PGT315MK	15,000	136 – 305	236.5	3,500	321
10069470	PGT390MK	20,000	136 – 305	233.0	3,500	326

Geared girder trolleys are designed to ensure a precision lift with controlled movement across the beam. This ensures more accuracy than a push trolley and allows the manoeuvring of heavy loads into position at any given point along the beam.

- High quality construction.
- Complies with AS1418.2.
- Fitted with anti-drop plates for improved safety compliance.
- High grade, fully sealed bearings for maintenance free extended life.
- Fully adjustable to suit a range of beam sizes.
- Manufactured in China.



Single Pin



Twin Pin



- Never exceed the Rated Capacity!
- All materials handling or lifting jobs should be assessed individually.
- Hoisting products must not be used for lifting or lowering persons.

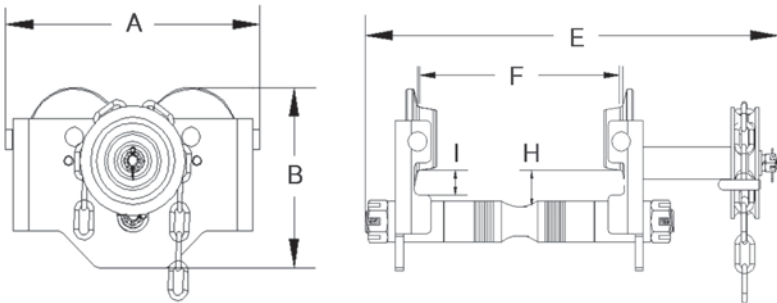
MANUAL GIRDER TROLLEYS

DIMENSIONAL DRAWINGS

Pacific Geared Girder Trolley – Single Pin



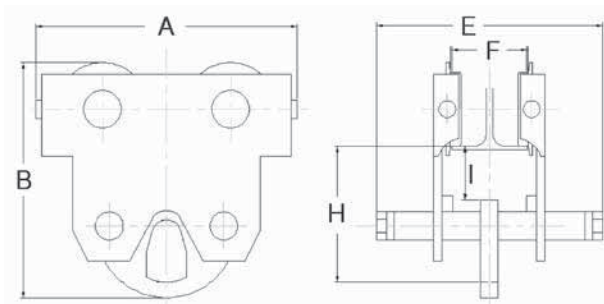
Model	PGT305HK	PGT310HK	PGT315HK	PGT320HK	PGT330HK	PGT350HK
Product Code	10069405	10069410	10069415	10069420	10069430	10069450
A (mm)	199.0	246	260	276	332	377
B (mm)	158.5	190	205	217	263	293
E (mm)	306.0	355	369	383	409	429
F (mm)	50 – 152	66 – 188	74 – 192	88 – 203	100 – 205	114 – 212
H (mm)	57.5	67	72	75	88	96.5
I (mm)	35.0	38	38	38	42	45.0



Pacific Geared Girder Trolley – Twin Pin



Model	PGT300MK	PGT315MK	PGT390MK
Product Code	10069460	10069465	10069470
A (mm)	490	605	605
B (mm)	395	498	498
E (mm)	862	1,002	1,002
F (mm)	124 – 305	136 – 305	136 – 305
H (mm)	189	237	233
I (mm)	45	62	58



The information shown is to be used as a guide only. Specifications are subject to change without notice.



- All materials handling or lifting jobs should be assessed individually.
- Hoisting products must not be used for lifting or lowering persons.

MANUAL GIRDER TROLLEYS

SELF-LOCKING BEAM TROLLEYS

Pacific Self-Locking Beam Trolleys



Product Code	Pacific Hoist Item No.	Rated Capacity	Beam Size	Net Weight
		kg	mm	kg
10069600	CLP250	3,000	76 – 230	21.0
10069601	CLP251	6,000	100 – 305	32.0
10069602	CLP252	10,000	125 – 305	47.5

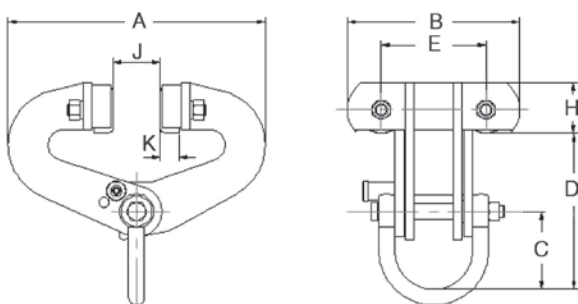
The Self-Locking Beam Trolleys feature a robust design with a spring assisted locking pin to enable quick and easy installation. Ideally suited to the rigging industry.

- Complies with AS1418.2.
- Quick and easy installation with no tools required.
- Suitable for a wide range of beam sizes.
- Inclusive of a spring assisted locking pin for safe and easy attachment to the beam.
- Cost-effective and time saving way of suspending loads.
- Ideal for the rigging industry.
- Manufactured in China.



Self-Locking Beam Trolleys – Dimensions

Model	CLP250	CLP251	CLP252
Product Code	10069600	10069601	10069602
A (mm)	380	500	600
B (mm)	280	296	310
C (mm)	126	126	131
D (mm)	253	290	290
E (mm)	170	170	170
H (mm)	82	88	113
J (mm)	30	40	54
K (mm)	32	38	43



• The information shown is to be used as a guide only. Specifications are subject to change without notice.



- Never exceed the Rated Capacity!
- All materials handling or lifting jobs should be assessed individually.
- Hoisting products must not be used for lifting or lowering persons.

MANUAL GIRDER TROLLEYS

TROLLEY WHEELS

Cookes Single Flange Trolley Wheels



Product Code	Rated Capacity (kg)		Diameter	Net Weight
	on 4 Wheels	per Wheel	mm	kg
10960060	500	125	62	0.7
10960061	1,000	250	70	1.0
10960062	2,000	500	100	2.5
10960063	3,000	750	114	3.7
10960064	5,000	1,250	140	6.2
10960066	10,000	2,500	175	12.3

Cookes Single Flange Trolley Wheels are ideally suited for general machinery production, crane building, platforms, carriages and rail systems.

They are designed to suit both parallel and tapered flanges and are available in different capacities from 500kg to 10 tonne.

- CNC machined from high quality #45 carbon steel.
- Designed to suit both parallel and tapered flanges.
- Fully sealed ball bearings.
- Inclusive of dust cap and circlip.
- Supplied complete; with galvanised axle and nut.
- Manufactured in China.

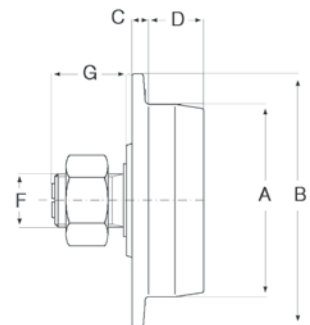


Cookes' Trolley Wheels are perfect for movie camera dollies.



Single Flange Trolley Wheels – Dimensions

Product Code	ØA	ØB	C	D	F	G
	mm	mm	mm	mm	mm	mm
10960060	62	92	9	18	M16	30
10960061	70	100	9	20	M20	35
10960062	100	136	11	24	M24	45
10960063	114	160	13	28	M30	50
10960064	140	190	15	34	M36	60
10960066	175	230	12	53	M48	70



• The information shown is to be used as a guide only. Specifications are subject to change without notice.



• Never exceed the Rated Capacity!

BEAM CLAMPS

BEAM CLAMPS

Cookes Girder Clamps



Product Code	Model	Rated Capacity	Beam Width Range	Net Weight
		kg	mm	kg
10049100	BC310	1,000	80 – 245	3.5
10049200	BC320	2,000	80 – 245	4.5
10049300	BC330	3,000	90 – 310	9.5
10049500	BC350	5,000	90 – 310	11.0
10049910	PGC390 (Pacific Model)	10,000	90 – 320	16.0

Cookes Girder Clamps are used to safely suspend loads of many descriptions from girders (I-beams). Manual; electric and air hoist installation are examples of their wide range of uses.

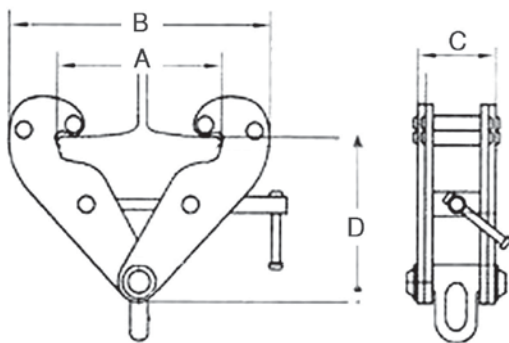
Standard features include:

- Complies with AS4991.
- Quick and easy install and reposition, ideal for maintenance tasks.
- Jaws clamp over girder flanges.
- Also suitable for lifting I-beams.
- Can be used at up to 45 degree angle with a 50% reduction in capacity.
- Manufactured in China.



Girder Clamps – Dimensions

Capacity (kg)	1,000	2,000	3,000	5,000	10,000
Model	310	320	330	350	PGG390
Product Code	10049100	10049200	10049300	10049500	10049910
A (mm)	270	270	365	365	365
B (mm)	375	375	520	520	520
C (mm)	66	74	103	111	120
D (mm)	210	210	258	258	280



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- Never exceed the Rated Capacity!
- All materials handling or lifting jobs should be assessed individually.
- Hoisting products must not be used for lifting or lowering persons.

BEAM CLAMPS

BEAM CLAMPS

Pacific Adjustable Angle Beam Clamps



Product Code	Pacific Hoist Item No.	Rated Capacity	Beam Width Range	Net Weight
		kg	mm	kg
10837050	CLP253	500	38 – 101	4.0
10837100	CLP254	1,000	38 – 101	4.5
10837150	CLP255	1,500	50 – 152	11.0
10837300	CLP256	3,000	101 – 203	21.5

Adjustable Angle Clamps are suitable for a wide range of angle sections and are a cost-effective way of suspending loads. They feature an adjustable locking pin for safe and easy attachment which makes them ideally suited for the rigging industry.

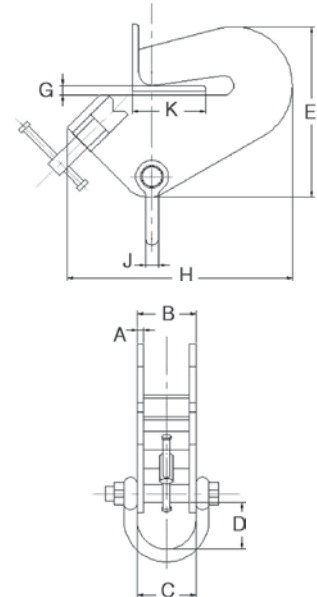
Standard features include:

- Complies with AS4991.
- Quick and easy installation with no tools required.
- Suitable for a wide range of angle sections.
- Inclusive adjustable locking pin for safe and easy attachment.
- V-type clamping jaw secures the clamp to the angle section.
- A cost-effective and time saving way of suspending loads.
- Clamp can be used both as anchor and suspension device.
- Ideal for the rigging industry.
- Manufactured in China.



Angle Beam Clamps – Dimensions

Capacity (kg)	500	1,000	1,500	3,000
Model	CLP253	CLP254	CLP255	CLP256
Product Code	10837050	10837100	10837150	10837300
A (mm)	4	6	8	10
B (mm)	69	69	99	99
C (mm)	70	70	107	107
D (mm)	96	96	98	98
E (mm)	206	206	270	343
G (mm)	15	15	19	25.4
H (mm)	258	258	346	490
J (mm)	16	16	20	20
K (mm)	38 – 101	38 – 101	50 – 152	101 – 203



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HOISTS, TROLLEYS
& BEAM CLAMPS



• The information shown is to be used as a guide only. Specifications are subject to change without notice.



- Never exceed the Rated Capacity!
- All materials handling or lifting jobs should be assessed individually.
- Hoisting products must not be used for lifting or lowering persons.

BEAM CLAMPS

BEAM CLAMPS

Pacific Top Girder Clamps



Product Code	Pacific Hoist Item No.	Rated Capacity	Beam Width Range	Net Weight
		kg	mm	kg
10836102	CLP257 Standard	200	90 – 204	5.8
10836202	CLP258 Low Profile	200	90 – 180	4.5

Top Girder Clamps are ideal for situations where quick and easy installation is required with no use of tools. They are suited to a wide range of beam sizes and the Low Profile Girder Clamp is the solution for applications where headroom is restricted. The locking pin with articulated handle will make this device easy to attach.

Standard features include:

- Complies with AS4991.
- Quick and easy installation with no tools required.
- Suitable for a wide range of beam sizes.
- Inclusive of a locking pin with articulated handle for safe and easy fixture.
- A cost-effective and time saving way of suspending loads.
- Clamp can be used both as anchor and suspension device.
- Ideal for the rigging industry.



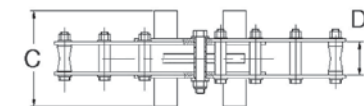
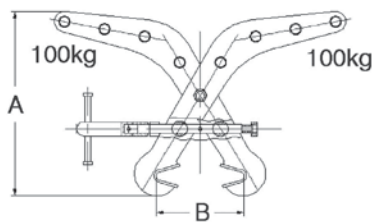
CLP257 Standard

Pacific Top Girder Clamps – Dimensions

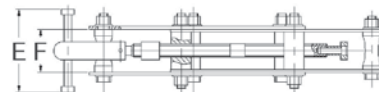
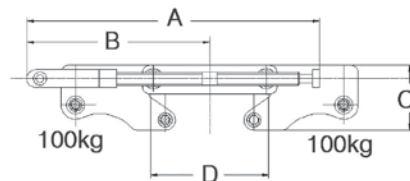
Capacity (kg)	200	200
Model	CLP257 Standard	CLP258 Low Profile
Product Code	10836102	10836202
A (mm)	357 (max)	407
B (mm)	90 – 204	259
C (mm)	150	90
D (mm)	60	90 – 180
E (mm)	—	130
F (mm)	—	60



CLP258 Low Profile



CLP257 Standard



CLP258 Low Profile



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- Never exceed the Rated Capacity!
- All materials handling or lifting jobs should be assessed individually.
- Hoisting products must not be used for lifting or lowering persons.

LEVER HOISTS

MANUAL LEVER HOISTS

Cookes Manual Lever Hoists



Product Code	Rated Capacity	Lift Height	Hand Force When Fully Loaded	Load Chain Falls	G80 Load Chain Size	Min. Dist. Btw. Head Hooks (Headroom)	Length Lever Handle	Net Weight
	kg	m	N	No.	Ø xmm	mm	mm	kg
10047025	250	1.5	115	1	4.0 x 12	235	168	2.4
10047050	500	1.5	248	1	5.0 x 15	310	253	3.7
10047080	800	1.5	285	1	5.6 x 17	340	273	7.0
10047160	1,600	1.5	315	1	7.1 x 21	400	378	10.0
10047320	3,200	1.5	360	1	10.0 x 28	520	418	20.0
10047630	6,300	1.5	370	2	10.0 x 28	640	418	31.0

Cookes Manual Lever Hoists c-w Overload Protection



Product Code	Rated Capacity	Lift Height	Hand Force When Fully Loaded	Load Chain Falls	G80 Load Chain Size	Min. Dist. Btw. Head Hooks (Headroom)	Length Lever Handle	Net Weight
	kg	m	N	No.	Ø xmm	mm	mm	kg
10047050OOL	500	1.5	248	1	5.0 x 15	310	253	3.7
10047080OOL	800	1.5	285	1	5.6 x 17	340	273	7.0
10047160OOL	1,600	1.5	315	1	7.1 x 21	400	378	10.0
10047320OOL	3,200	1.5	360	1	10.0 x 28	520	418	20.0

Incorporates the latest technology to assure you of a high quality device which is robust, easy to use and safe for the operator.

Each hoist is individually inspected and tested upon receipt in New Zealand to ensure compliance to AS1418.2.

Improved braking performance ensures the integrity of the load under all conditions. Design improvements mean up to 25% less operator effort to lift the load.

New style load hooks with cast, notched safety latches increases safety and lengthens service life of the latches. Improved design of load sprockets for safer operation.

All key internal components are CNC machined for improved product reliability. Refer following page for spare parts.

- Manufactured to comply with AS1418.2.
- Suitable for operating temperature -10°C to + 50°C.
- Manufactured in China.



- Overload Protection option limits the amount of overlaod that can be lifted therefore preventing damage to the hoist.
- Refer the following page for spare parts.



- Never exceed the Rated Capacity!
- Never use a hoist for lifting, supporting or transporting people.
- Never support a load on the tip of a hook.

LEVER HOISTS

MANUAL LEVER HOIST SPARES

Load Chain



Product Code	To Suit Models	Size
		Ø xmm
10067329	250 Kg	4.0 x 12.0
10067330	500 Kg	5.0 x 15.0
10067332	800 Kg	5.6 x 17.0
10067333	1,600 Kg	7.1 x 21.0
10067340	3,200 & 6,300 Kg	10.0 x 28.0

Brake Discs, Hooks & Safety Catches



Lever Hoist	Rated Capacity of Hoist (kg)	Brake Discs	Top Hook	Bottom Hook	Hook Safety Latch
Product Code		Product Code	Product Code	Product Code	Product Code
10047025	250	10047025BD	10047025TH	10047025BH	10047025SL
10047050	500	10047050BD	10047050TH	10047050BH	10047050SL
10047080	800	10047080BD	10047080TH	10047080BH	10047080SL
10047160	1,600	10047160BD	10047160TH	10047160BH	10047160SL
10047320	3,200	10047320BD	10047320TH	10047320BH	10047320SL
10047630	6,300	10047630BD	10047630TH	10047630BH	10047630SL

The full range of spare parts is pictured & detailed in the Instruction Manual provided with each Cookes Lever Hoist.



• Increasing height of lift: All Cookes lever hoists can have longer load chains fitted to suit your specific requirements.

LEVER HOISTS

MANUAL LEVER HOISTS



KITO's high quality, light weight lever hoists have been designed for applications in every industry.

Strength, endurance & reliability assured.



LEVER HOISTS

MANUAL LEVER HOISTS

KITO Manual Lever Hoists – LX Series



Product Code	KITO Item No.	Rated Capacity	Lift Height	Load Chain Falls	Load Chain Size	Min. Dist. Btw. Head Hooks (Headroom)	Length Lever Handle	Net Weight
		kg	m	No.	Ø xmm	mm	mm	kg
10160000	LX003	250	1.0	1	3.2 x 9	205	150	1.6
10160010	LX005	500	1.2	1	4.3 x 12	246	180	2.6

Compact, lightweight and portable, these 250kg and 500kg lever hoists complement the KITO L5 range. Ideal for storing in a toolbox.

LX Series features include:

- Light ratchet hoist, where delicate parts need to be joined together.
- Suitable for operating temperature -20°C to +60°C.
- Easy to carry and easy to use, even in tight quarters or in elevated work positions.
- Fasteners designed to protect threads from damage making maintenance easier.
- Fine-tolerance, nickel plated load chain.
- The hook latch is highly resistant to deformation and damage.
- Single-step reduction gear, requires manual fastening force & assured load holding.
- Reliable load fastening can be provided to the last click of the lever.
- Smooth operation, movement of around 2mm per click.
- LX003 comes complete with belt bag.
- Manufactured in Japan.



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HOISTS, TROLLEYS & BEAM CLAMPS



• Load chains can be lengthened to meet your requirements.



- Never exceed the Rated Capacity!
- Never use a hoist for lifting, supporting or transporting people.
- Never support a load on the tip of a hook.

LEVER HOISTS

MANUAL LEVER HOISTS

KITO Manual Lever Hoists – L5 Series



Product Code	KITO Item No.	Rated Capacity!	Lift Height	Load Chain Falls	Load Chain Size	Min. Dist. Btw. Head Hooks (Headroom)	Length Lever Handle	Net Weight
		kg	m	No.	Ø xmm	mm	mm	kg
10160020	LB008	800	1.5	1	5.6 x 15.7	280	245	5.7
10160025	LB010	1,000	1.5	1	5.6 x 15.7	300	245	5.9
10160030	LB016	1,600	1.5	1	7.1 x 19.9	335	265	8.0
10160035	LB025	2,500	1.5	1	8.8 x 24.6	375	265	11.2
10160040	LB032	3,200	1.5	1	10.0 x 28.0	395	415	15.0
10160050	LB063	6,300	1.5	2	10.0 x 28.0	540	415	26.0
10160060	LB090	9,000	1.5	3	10.0 x 28.0	680	415	40.0



World renowned KITO lever hoists are manufactured in Japan to exacting standards. Complying with Australian Standard AS1418.2 the L5 Series lever hoists offer numerous superior features.

L5 Series lever hoists have earned their position in the industry providing strength, endurance and reliability across various applications.

Compact and lightweight

KITO's technology has realised innovative size and weight reduction. Operability, portability and storage have become easier and more convenient.

Operating temperature -20°C to +60°C.

Nickel plated chain

The nickel plated chain designed, developed and manufactured by KITO has a high strength of 1,000 N/mm². Besides strength, it is also excellent in both corrosion and wear resistance.

High strength frame

The frame is an integral structure made of carbon steel.

Lever strength increase

Lever strength (bending, torsion and lever support) has been improved by reviewing the shape and the thickness of the lever.

Reliable brake performance

A unique dry condition brake designed to have strong braking force.

Maintenance improvement

Cap nuts are used to tighten the gear case and brake cover. This allows maintenance to occur without damaging the screws.

So much more:

- Unique patented 'Free Wheeling Hub'.
- Smaller, lighter, high grade (solid) alloy steel frame construction.
- Double brake pads with four braking pads.
- Low headroom design.
- Double Pawl & Double spring assemblies.
- Needle & ball roller bearings allow maximum mechanical efficiency with minimum effort.



• Load chains can be lengthened to meet your requirements.



- Never exceed the Rated Capacity!
- Never use a hoist for lifting, supporting or transporting people.
- Never support a load on the tip of a hook.

LEVER HOISTS

MANUAL LEVER HOISTS

Pacific Manual Lever Hoist c/w Overload Protection

Pacific Hoists

Product Code	Rated Capacity	Lift Height	Hand Force When Fully Loaded	Load Chain Falls	G80 Load Chain Size	Min. Dist. Btw. Head Hooks (Headroom)	Length Lever Handle	Net Weight
	kg	m	N	No.	Ø xmm	mm	mm	kg
10092050OL	500	1.5	248	1	5.0 x 15	310	253	4.5
10092080OL	800	1.5	285	1	5.6 x 17	340	273	5.7
10092160OL	1,600	1.5	315	1	7.1 x 21	400	378	9.3
10092320OL	3,200	1.5	360	1	10.0 x 28	520	418	16.5
10092630OL	6,300	1.5	370	2	10.0 x 28	640	418	21.3

A quality lever hoist with patented overload limiting device. This device limits the amount of overload that can be lifted, therefore preventing damage to the hoist.

- Manufactured to comply with AS1418.2.
- Suitable for operating temperature -10°C to +50°C.
- 'T' type hooks for improved load holding integrity.
- New design double pawl safety springs to eliminate sticking.
- New style cast hand wheel for added strength and durability.
- Encapsulated needle bearings and side plate bearings for smoother operation.
- Brake lockout bearing for security of braking mechanism.
- Key internal components are CNC machines before being heat-treated and toughened.
- Fitted with high quality European zinc plated grade 80 load chain.
- No aluminium content which ensures suitability for mining applications.
- Manufactured in China.



• All Pacific Manual Lever Hoists can have longer load chains fitted to suit your special requirements.



- Never exceed the Rated Capacity!
- Never use a hoist for lifting, supporting or transporting people.
- Never support a load on the tip of a hook.

LEVER HOISTS

MANUAL LEVER HOISTS

VITAL NR-2 SERIES

Vital is a Japanese brand which is globally recognised for their high quality products. The NR-series lever hoists feature the "free-wheeling" braking system which enables fast and easy operation. There is a minimum load requirement of 10% of the Working Load Limit to ensure that the braking system remains operative and continues to support the load.

These lever hoists are ideally suited for the shipbuilding, construction, mining and power transmission industries. Complies with AS1418.2.

Standard features include:

- Manufactured in Japan using optimum high quality steel which complies with the strict JIS & ISO regulations.
- Suitable for operating temperature -20°C to +60°C.
- One-touch operation for free chain adjustment.
- Vital lever hoists can be supplied with overload protection for added security of use (excluding 250kg and 500kg models).
- The unique design of the bottom hook prevents slipping and ensures safe operation.
- Hardened alloy steel load chain with embossed identification, marked to the relevant standards.
- Load Chain Exceeds Australian Standards with 5:1 design factor.
- Minimum load requirement of up to 10% of the Working Load Limit to ensure the operation of the braking system, eg, a 1.5 tonne lever block requires a minimum load of 150kg.



• For further information on the Vital NR-2 Series Lever Hoists, please contact your local Cookes branch, Freephone 0508 274 366 or email customerservices@bridoncookes.co.nz.



- Never use a hoist for lifting, supporting or transporting people.
- Never exceed the Rated Capacity.
- Never support a load on the tip of a hook.

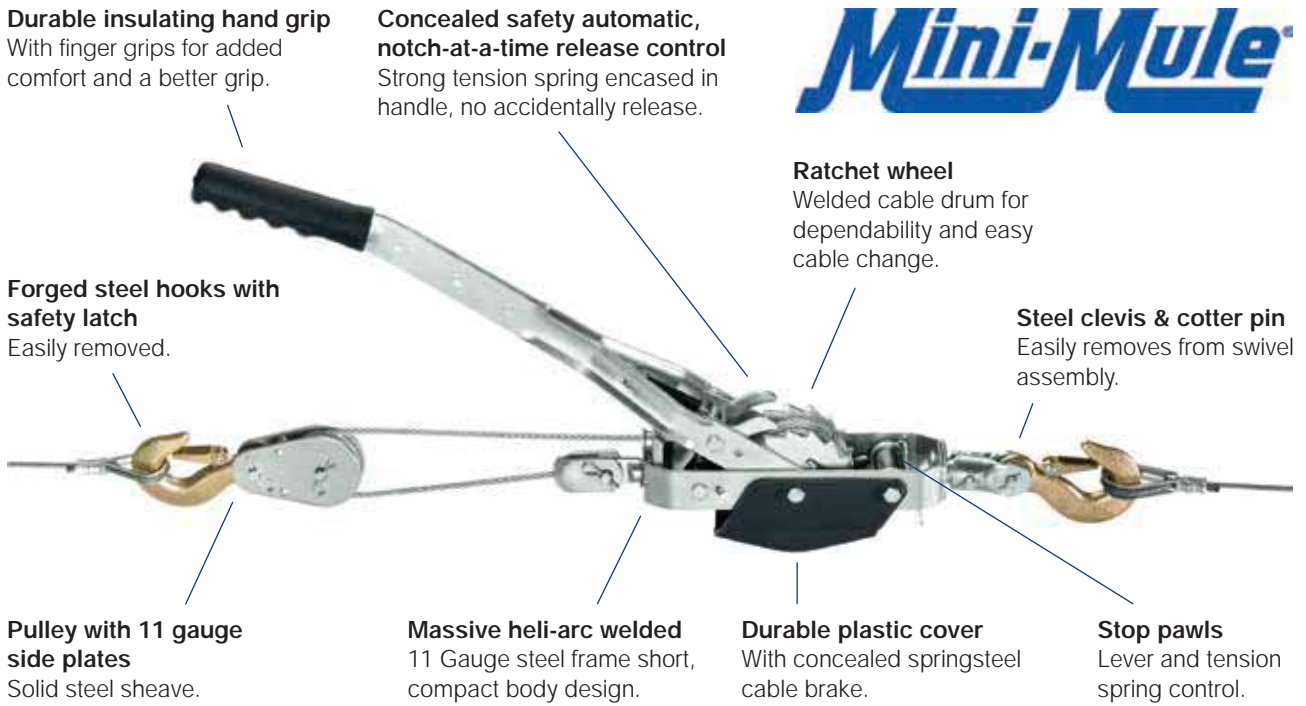
LEVER HOISTS

WIRE ROPE LEVER HOISTS

THE WIRE ROPE COME-ALONG PREFERRED BY POWER AUTHORITIES

Multi-purpose portable power! Lift, pull, stretch, handle, tighten, erect, position, install

If you are tired of poorly constructed, low quality and potentially unsafe wire rope come-alongs then it's time you upgraded to a Mini-Mule! The amazing Mini-Mule Wire Rope Come-Alongs are now available on indent direct from the manufacturer in the USA. To obtain pricing on the most reliable, rugged, durable and safest wire rope come-along available, contact your nearest Cookes branch, Freephone 0508 274 366 or email customerservices@bridoncookes.co.nz.



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HOISTS, TROLLEYS & BEAM CLAMPS

Heavy Duty – Double Drive



Product Code	Mini-Mule Item No.	Rated Capacity	Pull
		t	m
02059901*	MM16DD	1.0	1.83
02059902*	MM19DD	1.0	2.75
02059903*	MM12DD	1.0	3.65
02059904*	MM212DD	2.0	1.83

* Available on indent.

Mini-Mule – The STRONGEST name in come-alongs! Quality built in the USA.

- Ratchet wheels on both sides for balanced drive.
- Double locking, driving pawls independently sprung to ensure alignment with ratchet wheel teeth.
- Tubular steel cable drum – minimises distortion and binding
- Uniform pressure applied to both sides of cable drum.
- Most popular utility models.

Heavy Duty – Commercial



Product Code	Mini-Mule Item No.	Rated Capacity	Pull
		t	m
02059997*	MM16R	1.0	1.83
02059998*	MM19R	1.0	2.75
02059999*	MM112R	1.0	3.65
02060000*	MM7518	0.75	5.50
02060001*	MM212R	2.0	1.83

* Available on indent.

- Heavy duty construction.
- Complete with cable and hooks.
- Very light weight.
- Compact, rugged frame.
- Minimum distance between hooks (450mm – 610mm).
- Manufactured in the USA.



- Never exceed the Rated Capacity!
- Never use a hoist for lifting, supporting or transporting people.
- Never support a load on the tip of a hook.

ELECTRIC HOISTS & TROLLEYS

INTRODUCTION



Cookes proudly offers the world's highest quality electric hoists and trolleys.

Compliant to AS1418.2, these superior products have decades of proven reliability in New Zealand and Australia.



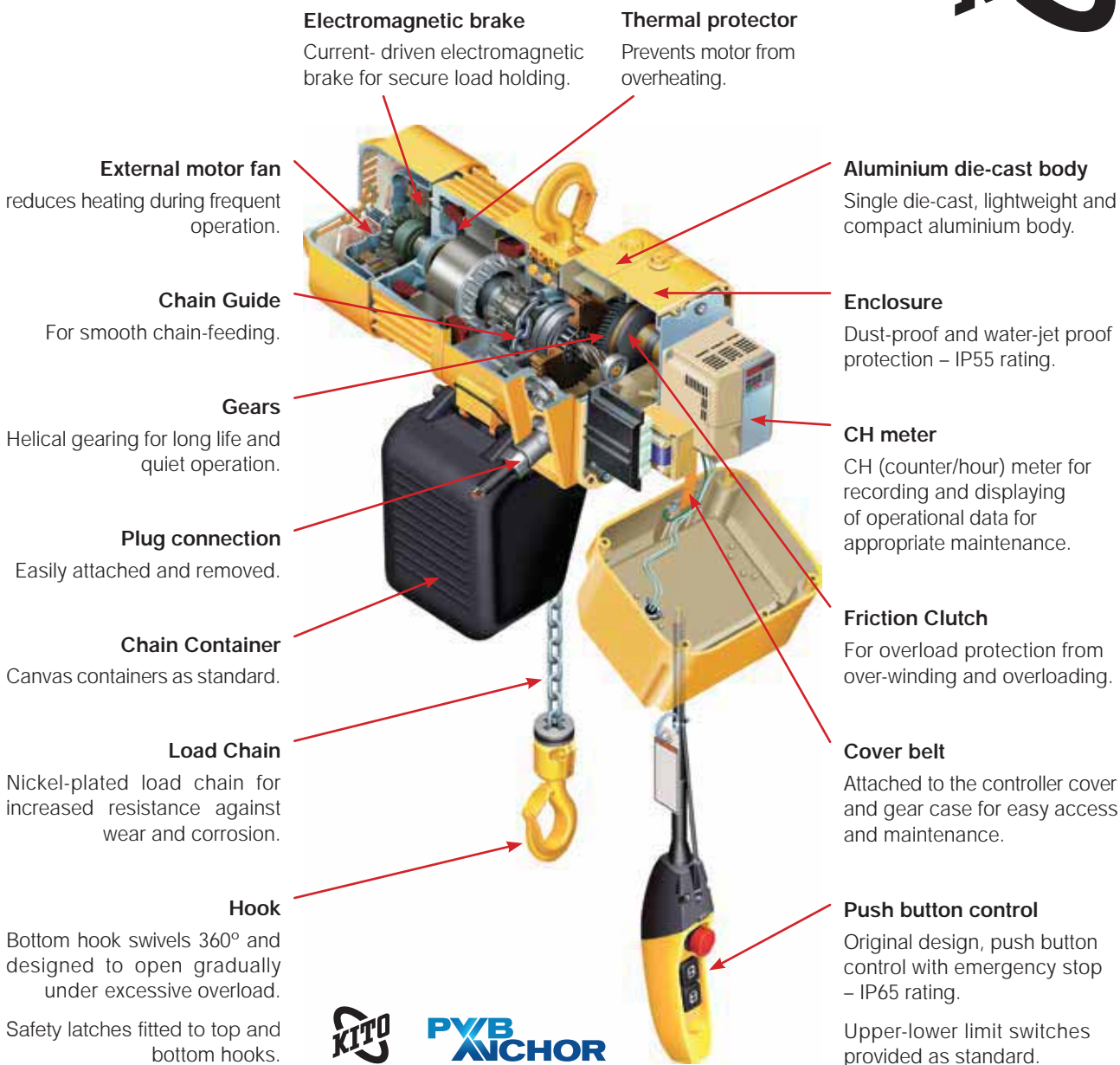
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HOISTS, TROLLEYS
& BEAM CLAMPS

ELECTRIC HOISTS & TROLLEYS

KITO ELECTRIC HOISTS & TROLLEYS

KEY FEATURES OF THE KITO ER2 SERIES ELECTRIC HOIST



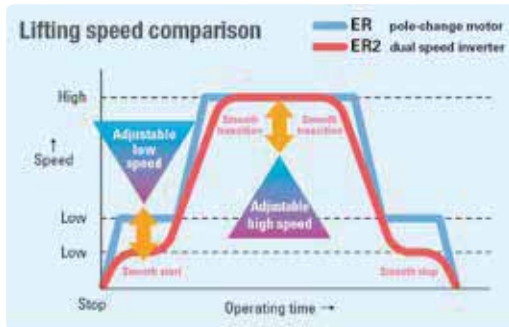
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HOISTS, TROLLEYS & BEAM CLAMPS

ELECTRIC HOISTS & TROLLEYS

KITO ELECTRIC HOISTS & TROLLEYS

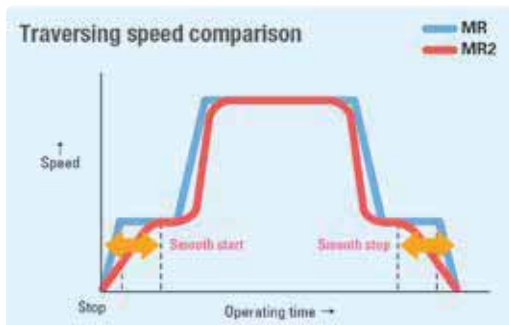
KITO ER2 SERIES ELECTRIC HOIST



Inverter – Smooth Transitional Speed

The dual speed inverter delivers smoother movement than the pole change motor, reducing load swing. The high to low speed ratio can be set to a large value. This results in smooth starts, improved low speed stops, and improved positioning accuracy.

ER2 inverter unit is well-customised for lifting/traversing applications including exclusive software with optimum control and is also provided with measures against impact and heat which have been verified through long run tests.



Friction Clutch & Upper – Lower Limit Switch – Double Safety

Maintaining safety is the most important task for lifting equipment, and is essential for stable operation. To ensure safety, KITO utilises a double safety mechanism consisting of an originally developed friction clutch and upper-lower limit switch.

Friction clutch is an emergency overload protection device that idles the motor when subjected to an excessive load over the Rated Capacity. Friction clutch performance is not easily compromised with changes in the surrounding temperature.



Friction Clutch

SMOOTH & ERGONOMIC OPERATION



Push Button Control – Original Design

The push button control is designed in an ergonomic shape that is operator friendly. Seeking ease of operation and universal design, KITO's original push button control was designed and manufactured from an end user point of view, especially with respect to unit strength.

Contoured to comfortably fit into your hand, the button has a light operating sensation which responds to fine adjustments in pressure. The pressing stroke is short. The operator, therefore, will not become fatigued after long periods of operation.

For crane fabrication with a motorised end truck, a control box is available if necessary.

Resistant to the collisions and shocks that may occur during work, KITO's original push button control can be used in various environments, thus supporting efficient work.

ELECTRIC HOISTS & TROLLEYS

KITO ELECTRIC HOISTS & TROLLEYS

KITO ER2 SERIES ELECTRIC HOIST



DEPENDABLE SAFETY



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HOISTS, TROLLEYS
& BEAM CLAMPS



Load Sheave
with Load Chain

Load Sheave – Reduced Vibration

With an increased number of chain pockets on the load sheave (between five and six based on capacity), vibrations are reduced ensuring a smooth operation.

Load Chain – Super Strength

KITO's worldclass original superstrength nickel-plated load chain certified by German Institute. The load chain uses unique technology to greatly increase resistance to fatigue and wear.

Emergency Stop

The emergency stop, provided as standard, allows the motor power to be disconnected in the event of an emergency without cutting off the main power supply.



Limit Switch

Limit Switch

In case the load is inattentively raised or lowered the limit switch stops the motor and prevents the load chain or hoist from potential damage.

The design of the limit switch allows for effective use of the lifting height of the hoist.



Electromagnetic Brake

The current driven, electromagnetic brake does not release until the motor circuit is activated.

In comparison to other motor and brake mechanisms commonly found on the market this trigger immensely improves the overall safety of the system.

ELECTRIC HOISTS & TROLLEYS

KITO ELECTRIC HOISTS & TROLLEYS

KITO ER2 SERIES (415V – 50HZ) – THREE PHASE

Complies with AS1418.2.

The KITO ER2 Electric Chain Hoist is environmentally friendly with its new compact, lightweight and energy efficient design. Offering thermal protection to prevent overheating, upper and lower limit switches, CH (counter/hour) meter and variable speed inverter as standard equipment (Inverters installed on 2 speed models only). Available in capacities ranging from 250kg to 20 tonnes in optional lift heights.



Rated capacity:	Single Speed – 125kg to 20 tonne Dual Speed – 125kg to 20 tonne
Voltage:	380-415V 50Hz
Duty Rating:	Single Speed – 60% ED (60 min) Dual Speed – 40/20% ED (30/10min)
Classifications:	ISO Heavy Duty classification M4 & M5 FEM (Europe) 1Am & 2m rating ASME HST (USA) H4 Duty Class
Enclosure:	Hoist body – IP55 (dust proof and water jet protected) Push button control – IP65 with emergency stop
Suspension Varieties:	Hook, manual trolley, motorized trolley
Operating Temperature:	-20°C to 40°C
Operating Humidity:	85% RH or less
	Manufactured in Japan



ELECTRIC HOISTS & TROLLEYS

KITO ELECTRIC HOISTS & TROLLEYS

KITO ER2 Series – Three Phase – Single Speed



Product Code		KITO Item No.	Rated Capacity	Lifting Speed	Motor Rating		Load Chain (mm)		Hook Suspended	Weight
3m Lift	Other Lifts				O/P (kw)	ED (%)	Ø x fall	Ø x pitch		
10936030	10936030SP	ER2-003S	250	9.1	0.56	60	4.3 x 1	4.3 x 12.0	350	27
10936051	10936051SP	ER2-005L	500	3.8	0.56	60	6.0 x 1	6.0 x 16.7	370	33
10936050	10936050SP	ER2-005S	500	7.3	0.90	60	6.0 x 1	6.0 x 16.7	370	37
10936071*	10936071SP*	ER2-010L	1,000	3.5	0.90	60	7.7 x 1	7.7 x 21.4	430	47
10936070	10936070SP	ER2-010S	1,000	7.1	1.80	60	7.7 x 1	7.7 x 21.4	430	54
10936090	10936090SP	ER2-015S	1,500	4.5	1.80	60	10.2 x 1	10.2 x 28.4	510	72
10936111	10936111SP	ER2-020L	2,000	3.7	1.80	60	10.2 x 1	10.2 x 28.4	575	73
10936110*	10936110SP*	ER2-020S	2,000	7.0	3.50	60	10.2 x 1	10.2 x 28.4	590	91
10936130*	10936130SP*	ER2-025S	2,500	5.7	3.50	60	11.2 x 1	11.2 x 31.2	625	104
10936150*	10936150SP*	ER2-030S	3,000	4.4	3.50	60	10.2 x 2	10.2 x 28.4	785	107
10936170*	10936170SP*	ER2-050S	5,000	2.9	3.50	60	11.2 x 2	11.2 x 31.2	850	132

* Available on indent from Australia.



KITO ER2 Series – Three Phase – Dual Speed w/ Inverter

Product Code		KITO Item No.	Rated Capacity	Lifting Speed	Motor Rating		Load Chain (mm)		Hook Suspended	Weight
3m Lift	Other Lifts				O/P (kw)	ED (%)	Ø x fall	Ø x pitch		
10936330	10936330SP	ER2-003IS	250	10.8 / 1.8	0.56	40 / 20	4.3 x 1	4.3 x 12.0	350	27
10936351	10936351SP	ER2-005IL	500	4.5 / 0.8	0.56	40 / 20	6.0 x 1	6.0 x 16.7	370	32
10936350*	10936350SP*	ER2-005IS	500	8.5 / 1.4	0.90	40 / 20	6.0 x 1	6.0 x 16.7	370	36
10936371	10936371SP	ER2-010IL	1,000	4.2 / 0.7	0.90	40 / 20	7.7 x 1	7.7 x 21.4	430	45
10936370*	10936370SP*	ER2-010IS	1,000	8.2 / 1.4	1.80	40 / 20	7.7 x 1	7.7 x 21.4	430	52
10936390*	10936390SP*	ER2-015IS	1,500	5.3 / 0.9	1.80	40 / 20	10.2 x 1	10.2 x 28.4	510	72
10936411	10936411SP	ER2-020IL	2,000	4.3 / 0.7	1.80	40 / 20	10.2 x 1	10.2 x 28.4	575	73
10936410*	10936410SP*	ER2-020IS	2,000	8.2 / 1.4	3.50	40 / 20	10.2 x 1	10.2 x 28.4	590	89
10936430*	10936430SP*	ER2-025IS	2,500	6.6 / 1.1	3.50	40 / 20	11.2 x 1	11.2 x 31.2	625	100
10936450*	10936450SP*	ER2-030IS	3,000	5.2 / 0.9	3.50	40 / 20	10.2 x 2	10.2 x 28.4	785	105
10936470*	10936470SP*	ER2-050IS	5,000	3.3 / 0.6	3.50	40 / 20	11.2 x 2	11.2 x 31.2	850	128

* Available on indent from Australia.

** H.r. = Headroom



• Rated Capacities above 5,000kg available on indent ex Japan.



• Never exceed the Rated Capacity.

ELECTRIC HOISTS & TROLLEYS

DIMENSIONAL DRAWINGS

KITO ER2 Series – Three Phase – Single Speed



Capacity	250	500	500	1,000	1,000	1,500	2,000	2,000	2,500	3,000	5,000
Model	ER2-003S	ER2-005L	ER2-005S	ER2-010L	ER2-010S	ER2-015S	ER2-020L	ER2-020S	ER2-025S	ER2-030S	ER2-050S
P. Code	10936030	10936051	10936050	10936071	10936070	10936090	10936111	10936110	10936130	10936150	10936170
D (mm)	430	490	490	550	550	630	630	630	840	920	920
a (mm)	478	513	510	589	598	646	646	703	736	703	736
b (mm)	321	348	348	376	376	427	427	427	445	427	445
d (mm)	219	242	242	291	219	308	308	347	337	347	337
e (mm)	259	271	268	298	307	338	338	356	399	356	399
f (mm)	260	283	283	335	335	385	385	385	438	397	439
g (mm)	27	27	27	31	31	34	39	39	39	44	47
h (mm)	99	113	113	129	129	161	161	161	174	216	232
i (mm)	93	106	106	118	118	138	138	138	143	82	85

KITO ER2 Series – Three Phase – Dual Speed w/ Inverter



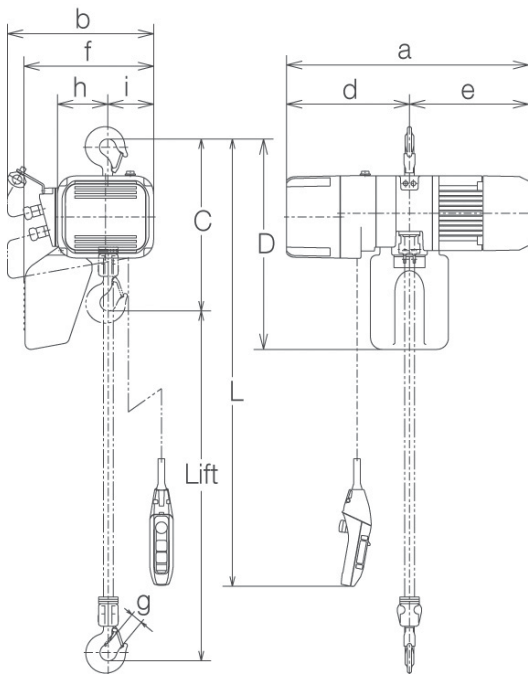
Capacity	250	500	500	1,000	1,000	1,500	2,000	2,000	2,500	3,000	5,000
Model	ER2-003IS	ER2-005IL	ER2-005IS	ER2-010IL	ER2-010IS	ER2-015IS	ER2-020IL	ER2-020IS	ER2-025IS	ER2-030IS	ER2-050IS
P. Code	10936330	10936351	10936350	10936371	10936370	10936390	10936411	10936410	10936430	10936450	10936470
D (mm)	430	490	490	550	550	630	630	630	840	920	920
a (mm)	535	571	568	614	623	710	710	767	800	767	800
b (mm)	345	348	348	376	376	427	427	427	445	427	445
d (mm)	276	300	300	316	316	372	372	411	401	411	401
e (mm)	259	271	268	298	307	338	338	356	399	356	399
f (mm)	284	283	283	335	335	384.5	384.5	384.5	437.5	397	439
g (mm)	27	27	27	31	31	34	39	39	39	44	47
h (mm)	99	113	113	129	129	160.5	160.5	160.5	173.5	216	231.5
i (mm)	117	106	106	118	118	137.5	137.5	137.5	142.5	82	84.5

Refer drawing on following page.

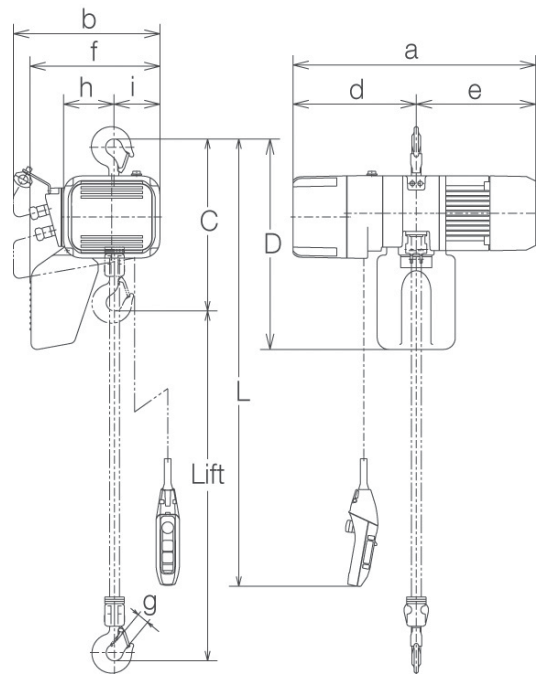
ELECTRIC HOISTS & TROLLEYS

DIMENSIONAL DRAWINGS

KITO ER2 SERIES – THREE PHASE



Single Speed



Dual Speed w/ Inverter

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HOISTS, TROLLEYS
& BEAM CLAMPS



• The information shown is to be used as a guide only. Specifications are subject to change without notice.



- Never exceed the Rated Capacity!
- All materials handling or lifting jobs should be assessed individually.
- Hoisting products must not be used for lifting or lowering persons.

ELECTRIC HOISTS & TROLLEYS

KITO ELECTRIC HOISTS & TROLLEYS



MR2 SERIES ELECTRIC MOTORISED TOLLEY

Dependable Safety!

The ideal combination for trouble-free tasks. The KITO MR2 electric motorised trolley features a compact and lightweight body for smooth and ergonomic operation.

The symbiosis of a high performance machine and environmentally friendly production techniques are the foundation of the KITO Hoist programme.

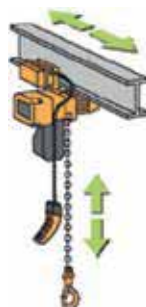
Standard Features Include:

- Bearings built in side rollers provide smooth running through the minimum radius curve and excellent traversing performance and assist with derailment prevention.
- Improved balance due to a lighter weight geared motor.
- Semi tapered flange wheels – allows use on most monorail beams.
- Speed variations; single low speed, single standard speed, and dual speed – high and low.
- Motor has a pull rotor brake for accurate and safe stopping.
- 10m power supply cable as standard.
- 10m/min traverse speed available on request.
- Manufactured in Japan.

Applications

Mining, construction, engineering, entertainment.
Complies with AS1418.2.

Lifting: Up / Down
Traversing: Left / Right



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HOISTS, TROLLEYS
& BEAM CLAMPS

ELECTRIC HOISTS & TROLLEYS

KITO ELECTRIC HOISTS & TROLLEYS



KITO MR2 Series Motorised Trolley

Product Code	KITO Item No.	Rated Capacity	Traverse Speed	Beam Range	Minimum Radius	Weight
		kg	m / min	mm – Flg	mm	kg

Single Speed Standard Flange Width

10936070ST	MR2-010S	1,000	20	58 – 153	800	31
10936110ST	MR2-020S	2,000	20	82 – 178	800	38
10936150ST*	MR2-030S	3,000	20	82 – 178	1,000	48
10936170ST*	MR2-050S	5,000	20	100 – 178	1,800	70

Dual Speed Standard Flange Width

10936370DT	MR2-01IS	1,000	24 / 4	58 – 153	800	32
10936410DT*	MR2-02IS	2,000	24 / 4	82 – 178	800	39
10936450DT*	MR2-03IS	3,000	24 / 4	82 – 178	1,000	50
10936470DT*	MR2-05IS	5,000	24 / 4	100 – 178	1,800	72

Single Speed Wide Flange

10936070SW*	MR2-010SW	1,000	20	154 – 305	800	31
10936110SW*	MR2-020SW	2,000	20	179 – 305	800	39
10936150SW*	MR2-030SW	3,000	20	179 – 305	1,000	49
10936170SW*	MR2-050SW	5,000	20	179 – 305	1,800	71

Dual Speed Wide Flange

10936370DW*	MR2-010ISW	1,000	24 / 4	154 – 305	800	33
10936410DW*	MR2-020ISW	2,000	24 / 4	179 – 305	800	40
10936450DW*	MR2-030ISW	3,000	24 / 4	179 – 305	1,000	51
10936470DW*	MR2-050ISW	5,000	24 / 4	179 – 305	1,800	73

* Available on indent.

Kito ERM Lifting/Traversing series couples a ER2 Single Phase or Three Phase Electric Hoist with the respective MR2 Motorised Trolley to ensure ease of use and accurate positioning in the work place.

- Manufactured in Japan.



• Never exceed the Rated Capacity!

ELECTRIC HOISTS & TROLLEYS

KITO ELECTRIC HOISTS & TROLLEYS

KITO EDL SERIES HOISTS (240V – 50HZ) – SINGLE PHASE



Single Speed
(Pendant Control)



Dual Speed
(Pendant Control)



Dual Speed
(Cylinder Control)

12

HOISTS, TROLLEYS
& BEAM CLAMPS

This compact single phase Electric Hoist available in Single or Dual Speed, is ideal for lifting small loads that are too heavy to be handled manually. The EDL range of single phase hoists from KITO feature heavy duty motors with automatic load brake and overload clutch, an IP54 rated lightweight compact aluminium body. Complies with AS1418.2.

Rated capacity:	Single Speed – 100kg to 480kg Dual Speed – 100kg to 480kg
Voltage:	240V 50Hz
Control voltage:	Low voltage control is standard
Motor Insulation:	Class F
Enclosure:	Single speed/ Dual speed – IP54 (dust proof and water protected) Cylinder – IP44 IP65 Pendant with emergency stop
Suspension Varieties:	Hook, mini trolley, universal trolley, manual trolley
Operating Temperature:	-20°C to 40°C
Operating Humidity:	85% RH or less

Standard features include:

- 30% ED Rating.
- Patented 'Friction Clutch' allows for reliable overload protection and safety.
- Upper Limit Switch.
- Motor has high performance mechanical brake for safe stopping.
- Nickel plated load chain allows for added resistance to rust and wear.
- Manufactured in Japan.

ELECTRIC HOISTS & TROLLEYS

KITO ELECTRIC HOISTS & TROLLEYS

KITO EDL Series Hoists – Single Phase – Single Speed (Pendant Control)



Product Code		KITO Item No.	Rated Capacity	Lifting Speed	Load Chain (mm)		Hook Suspended	Weight
3m Lift	Other Lifts		kg	m / min	Ø x fall	Ø x pitch	H.r.** (mm)	kg
10934010*	10934010SP	EDL10S	100	13.0	4.0 x 1	4.0 x 12	315	12.0
10934016*	10934016SP	EDL16S	160	20.0	4.0 x 1	4.0 x 12	330	16.0
10934018*	10934018SP	EDL18S	180	8.0	4.0 x 1	4.0 x 12	315	12.0
10934024*	10934024SP	EDL24S	240	13.5	4.0 x 1	4.0 x 12	330	16.0
10934048*	10934048SP	EDL48S	480	6.7	4.0 x 2	4.0 x 12	520	21.5

KITO EDL Series Hoists – Single Phase – Dual Speed (Pendant Control)



Product Code		KITO Item No.	Rated Capacity	Lifting Speed	Load Chain (mm)		Hook Suspended	Weight
3m Lift	Other Lifts		kg	m / min	Ø x fall	Ø x pitch	H.r.** (mm)	kg
10934110*	10934110SP	EDL10ST	100	13.0 / 3.0	4.0 x 1	4.0 x 12	315	12.5
10934116*	10934116SP	EDL16ST	160	20.0 / 5.0	4.0 x 1	4.0 x 12	330	16.5
10934118*	10934118SP	EDL18ST	180	8.0 / 3.0	4.0 x 1	4.0 x 12	315	12.5
10934124*	10934124SP	EDL24ST	240	13.5 / 3.0	4.0 x 1	4.0 x 12	330	16.5
10934148*	10934148SP	EDL48ST	480	6.7 / 2.0	4.0 x 2	4.0 x 12	520	21.5

KITO EDL Series Hoists – Single Phase – Dual Speed (Cylinder Control)



Product Code		KITO Item No.	Rated Capacity	Lifting Speed	Load Chain (mm)		Hook Suspended	Weight
1.8m Lift	Other Lifts		kg	m / min	Ø x fall	Ø x pitch	H.r.** (mm)	kg
10934210*	10934210SP	EDCL10SD	100	20.0 / 4.0	4.0 x 1	4.0 x 12	960	15.0
10934224*	10934224SP	EDCL24SD	240	13.5 / 3.0	4.0 x 1	4.0 x 12	960	19.0

* Available on indent.

** H.r. = Headroom



• Never exceed the Rated Capacity!

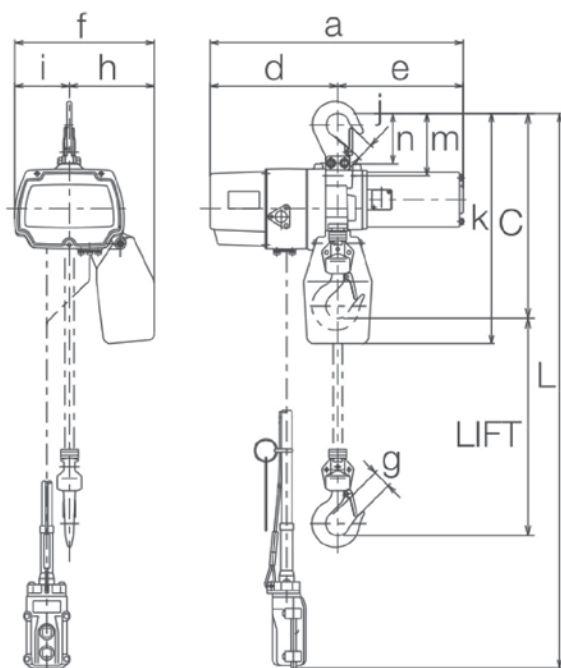
ELECTRIC HOISTS & TROLLEYS

DIMENSIONAL DRAWINGS

KITO EDL Series – Single Phase – Single/Dual Speed



Capacity	100	160	180	240	100	160	180	240	100
Model	EDL10S	EDL16S	EDL18S	EDL24S	EDL10ST	EDL16ST	EDL18ST	EDL24ST	EDCL10SD
P. Code	10934010	10934016	10934018	10934024	10934110	10934116	10934118	10934124	10934210
a (mm)	371	428	371	428	371	428	371	428	371
d (mm)	187	205	187	205	187	205	187	205	187
e (mm)	184	223	184	223	184	223	184	223	184
f (mm)	205	219	205	219	205	219	205	219	205
g (mm)	25	25	25	25	25	25	25	25	25
h (mm)	125	135	125	135	125	135	125	135	125
i (mm)	80	84	80	84	80	84	80	84	80
j (mm)	25	25	25	25	25	25	25	25	25
k (mm)	340	362	340	362	340	362	340	362	340
m (mm)	92	92	92	92	92	92	92	92	92
n (mm)	73	73	73	73	73	73	73	73	73



- EDCL18SD dimensions same as EDCL10SD.
- EDCL16SD dimensions same as EDL16S.

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HOISTS, TROLLEYS
& BEAM CLAMPS



• The information shown is to be used as a guide only. Specifications are subject to change without notice.



- Never exceed the Rated Capacity!
- All materials handling or lifting jobs should be assessed individually.
- Hoisting products must not be used for lifting or lowering persons.

ELECTRIC HOISTS & TROLLEYS

KITO ELECTRIC HOISTS & TROLLEYS

KITO EF Series H.D. Hoists – Single Phase, Single Speed



Product Code		KITO Item No.	Rated Capacity	Lifting Speed	Motor Rating		Load Chain (mm)		Hook Suspended	Weight
3m Lift	Other Lifts		kg	m / min	O/P (kw)	ED (%)	Ø x fall	Ø x pitch	H.r.** (mm)	kg
10934305*	10934305SP	EF005S	500	3.5	0.8	40	6.3 x 1	6.3 x 19	560	45
10934310*	10934310SP	EF010L	1,000	1.8	0.8	40	6.3 x 2	6.3 x 19	635	50

* Available on indent.

** H.r. = Headroom

EF SERIES (240V – 50HZ) – SINGLE PHASE

Complies with AS1418.2.

The EF range of heavy duty single phase electric hoists are light and compact units with aluminium die-cast bodies that are available in 500kg and 1 tonne capacities.

Rated Capacity: Single phase hoist – 500kg to 1,000kg

Voltage: 240V 10amp power supply

Control Voltage: 24V

Motor Insulation: Class B

Enclosure: IP54 (dust proof and water protected)
IP65 Pendant with emergency stop

Suspension Varieties: Hook/Trolley

Operating Temperature: -20°C to 400°C

Operating Humidity: 85% RH or less

Standard features include:

- Exclusive pull-rotor type motor braking system provides high braking capability for the most sure way to stop the load at the desired position.
- Totally enclosed pull rotor type motor permits ideal operation of hoist.
- KITO's friction clutch, which prevents overloading, allows the motor to run free at the highest and lowest hook positions.
- Aluminium die-cast hoist body provides lighter weight, compactness, high mobility and rapid heat dissipation.
- Totally enclosed weather-resistant construction makes this hoist ideal for use in humid atmospheres.
- Drop-forged heat treated hook does not fracture but opens slowly when excessively overloaded.
- Case hardened chain.
- Highly insulated push button station.
- Emergency stop device available on request.
- Manufactured in Japan.



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HOISTS, TROLLEYS
& BEAM CLAMPS



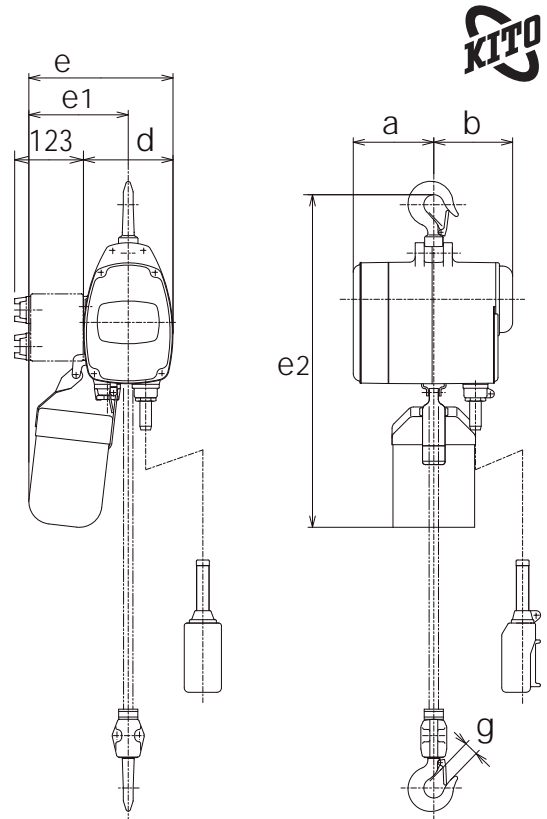
- Never exceed the Rated Capacity!
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- Hoisting products must not be used for lifting or lowering persons.

ELECTRIC HOISTS & TROLLEYS

DIMENSIONAL DRAWINGS

KITO EF Series H.D. – Single Phase, Single Speed

Capacity	500	1,000
Model	EF005S	EF010L
Product Code	10934305 / 10934305SP	10934310 / 10934310SP
a (mm)	147	147
b (mm)	167	167
d (mm)	218	218
e (mm)	311	311
e1 (mm)	202	202
e2 (mm)	750	765
g (mm)	24	31



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- All materials handling or lifting jobs should be assessed individually.
- Hoisting products must not be used for lifting or lowering persons.

ELECTRIC HOISTS & TROLLEYS

KITO ELECTRIC HOISTS & TROLLEYS

Also available on indent to meet your special hoisting requirements

Ultra Low Headroom Electric Chain Hoists

For best utilisation of effective height.

The SHERM electric chain hoist has a special low headroom design. The load can be carried up to in front of the beam.



SHERM Electric Chain Hoist



Twin Hook Electric Chain Hoists

Synchronous motion cycles in one hoist.

The TWERM double hook electric hoist is ideal wherever loads must be kept horizontal or you need to lift and lower loads simultaneously: It is primarily designed for rolled profile girders and is used especially to handle long goods, such as pipes and profile rods, etc.

The hooks can be spaced according to the long goods and to customer specifications.



TWERM Electric Chain Hoist



• For further information on KITO special application hoists, please contact your local Cookes branch, Freephone 0508 274 366 or email customerservices@bridoncookes.co.nz.

ELECTRIC HOISTS & TROLLEYS

KITO HOIST EXTRAS



To complement the power hoisting product range, KITO offers a range of products with additional benefits to suit your requirements.

RADIO REMOTE CONTROLS

When the traditional hand held Pendant Control becomes cumbersome or does not suit the application, KITO offers a Radio Remote Control system that allows the operator to work away from the hoist, yet be in control of its operation.

Complete with a transmitter and receiver system that can be operated from various angles and distances, thereby allowing for platform or restricted access use. This feature can be fitted to a range of electric hoists to suit your application.

CHAIN BUCKETS / BAGS

Standard lift hoists are fitted with either plastic chain buckets or canvas chain bags. For longer lifts, PWB Anchor offers a range of larger canvas bags or steel buckets that may be attached to the hoists and cater for the storage of load chain during the lifting or lowering process. This feature is dependant on the length of lift and size of load chain used in the hoist.

CABLE TROLLEYS

Specifically designed to suspend the power supply cable to your hoist or motorised trolley. These small cable trolleys are supplied with the power cable or can be purchased separately.

Cable Trolleys can be fitted and suspended on 4mm cable wire.

EXTRA CLOSE HEADROOM HOISTS

Some workplace environments restrict or limit space and access. Should your application have a limited space or headroom problem, Cookes are able to assist with extra close headroom hoists, either from KITO's existing range or from one of our specialised suppliers.

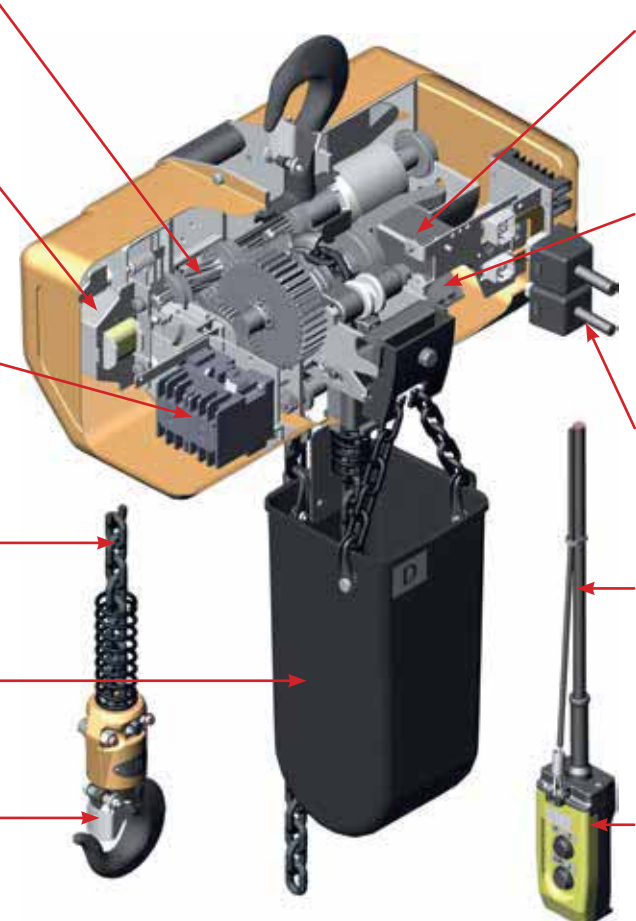


• **Hoist Maintenance:** As a leading supplier of power hoisting products, Cookes is committed to providing reliable products of the highest standard. Maintenance or repair is also available through a range of service agents. Contact your local Cookes branch for further details on any of the above products or services.

ELECTRIC HOISTS & TROLLEYS

HITACHI ELECTRIC HOISTS & TROLLEYS

HITACHI S & F SERIES ELECTRIC HOISTS



Helical Gearing
used where practical to provide quiet operation.

Long Life Brake Unit
Disk type Electro-Magnetic brake system for steady operation and long life.

Electro-Magnetic Contactor
with mechanical-interlocking against line short by mechanical shock.

Power Chain
patented alloy steel chain surface hardened for optimum strength and wear resistance.

Chain Container
standard for safer operation.

Lower Hook
is heat-treated and equipped with safety latch and 360° swivelling.

Reverse Phase Inspection Relay
cut control circuit when reverse phasing. Except the 3 phase models of 250kg and 500kg, and single phase models.


Limit Switch
interrupt motor power to prevent hook overtravel and hazardous condition such as chain kink.

Plug-In Cables
reduce maintenance time and installation.

Pushbutton Cable
is molded with strain relief wire rope into one body. This assures easier and safer operation.

Pushbutton Switch
is rain-proof plastic for severe impact and corrosive atmosphere resistance and mechanically interlocked.

The 24 volt control circuit reduce shock hazard to the operation.

 **HITACHI**
Inspire the Next



HITACHI S SERIES



HITACHI F SERIES

ELECTRIC HOISTS & TROLLEYS

HITACHI ELECTRIC HOISTS & TROLLEYS

HITACHI S & F SERIES ELECTRIC HOISTS

Hitachi's reputation for excellence in design, quality, reliability and performance has made this brand a global market leader. With over three decades of proven reliability throughout Australasia and an extensive operating range, Hitachi Electric Chain Hoists are suited to most applications. The Hitachi models vary from 250kg to 15 tonne capacity and are available in three or single phase, two speed or single speed while being tested to the Australian standards.

All Hitachi models are manufactured to comply with AS1418.2.

- Operation: fully contactorised with high rated contactors and pendant controls; both fitted with mechanical interlocks and 24 Volt control.
- Optional IP65 pendant including E-Stop available.
- Safety Limits: full current and shunt limit switches operate in both directions of hook travel.
- Overload Limiter: this electro-mechanical device is exclusive to the Hitachi range and boasts a far more superior overload protection device than the slipping clutch method. Available on all Hitachi models.
- Braking: all models are fitted with an electro-magnetic, self-adjusting disc type brake to the gearbox and the "F" models have an additional auxiliary centrifugal brake fitted to the motor.
- Chain Bucket: noiseless design with flexible mounting.
- High quality grade 80 zinc plated load chain supplied as standard.
- IP54 protection rating on all electric hoists and trolleys.
- Motor thermal protection on all Hitachi models.
- Optional radio remote control.
- Ambient temperature requirement of -10°C to 40°C degrees.
- Class M4 inclusive of 180 starts per hour.
- Completely enclosed design. Entire mechanism including; the motor, dual brake system, gears, rotating parts and electrical system can be operated under severe conditions.
- Reverse phase protection relay on all models excluding; 250kg, 500kg and single phase models.
- Special low headroom hoist arrangements are available to suit tight headroom applications.



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HOISTS, TROLLEYS
& BEAM CLAMPS



- S Series: Suitable for general work. Economical standard speed model.
- F Series: High-speed model that is sturdy and suitable for high-speed work.

ELECTRIC HOISTS & TROLLEYS

HITACHI ELECTRIC HOISTS & TROLLEYS

Hitachi S & F Series Hoists – Three Phase, 415V-50Hz

HITACHI
Inspire the Next

Product Code		Hitachi Item No.	Rated Capacity	Lifting Speed	Motor Rating	Load Chain (mm)		Headroom	Weight
3m Lift	Other Lifts					Ø x fall	Ø x pitch		

Single Speed

10076025	10076025SP	¼S	250	10	0.45	6.3 x 1	6.3 x 19.0	450	28
10076050	10076050SP	½S	500	7.2	0.63	6.3 x 1	6.3 x 19.0	450	31
10076100	10076100SP	1S	1,000	4.6	0.8	7.1 x 1	7.1 x 20.2	530	37
10076200	10076200SP	2S	2,000	2.3	0.8	7.1 x 2	7.1 x 20.2	645	49
10077100	10077100SP	1F	1,000	7.1	1.3	7.1 x 1	7.1 x 20.2	535	42
10077200	10077200SP	2F	2,000	6.8	2.4	10 x 1	10 x 30.0	660	80
10077300	10077300SP	3F	3,000	4.1	2.4	10 x 2	10 x 30.0	820	99
10077500	10077500SP	5F	5,000	2.8	2.4	10 x 3	10 x 30.0	1,020	121

Dual Speed

10076425	10076425SP	¼SN	250	7.2 / 1.8	0.32 / 0.08	6.3 x 1	6.3 x 19.0	450	33
10076450	10076450SP	½SN	500	7.2 / 1.8	0.63 / 0.16	6.3 x 1	6.3 x 19.0	450	36
10076500	10076500SP	1SN	1,000	4.6 / 1.2	0.8 / 0.2	7.1 x 1	7.1 x 20.2	530	42
10076600	10076600SP	2SN	2,000	2.3 / 0.6	0.8 / 0.2	7.1 x 2	7.1 x 20.2	645	54
10078200	10078200SP	2FN	2,000	6.8 / 1.7	2.4 / 0.6	10 x 1	10 x 30.0	660	96
10078300	10078300SP	3FN	3,000	4.0 / 1.0	2.4 / 0.6	10 x 2	10 x 30.0	820	112
10078500	10078500SP	5FN	5,000	2.8 / 0.7	2.4 / 0.6	10 x 3	10 x 30.0	1,020	146

A wide range of applications are provided for not only general machinery, automobile, and manufacturing, but also for applications from primary to tertiary industries including warehouses and retail stores.

- Helical Gearing: Used where practical to provide quiet operation.
- Long Life Brake Unit: Disk type electro-magnetic brake system for steady operation and long life. Equipped with the patented Automatic Adjusting Brake for easier maintenance and added safety.
- Power Chain: Special (patented) alloy steel chain surface hardened for optimum strength and wear resistance.
- Lower Hook: Heat-treated and equipped with safety latch and 360° swivelling.
- Pushbutton Switch: Rain-proof plastic for severe impact and corrosive atmosphere resistance and mechanically interlocked.
- Manufactured in Japan.



- Never exceed the Rated Capacity!
- All materials handling or lifting jobs should be assessed individually.
- Hoisting products must not be used for lifting or lowering persons.

ELECTRIC HOISTS & TROLLEYS

HITACHI ELECTRIC HOISTS & TROLLEYS

Hitachi S Series Hoists – Single Phase – Single Speed, 240V-50Hz

HITACHI
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Product Code		Hitachi Item No.	Rated Capacity	Lifting Speed	Motor Rating	Load Chain (mm)		Headroom	Weight
3m Lift	Other Lifts		kg	m / min	kw	Ø x fall	Ø x pitch	mm	kg
10079025	10079025SP	¼S1	250	5	0.25	6.3 x 1	6.3 x 19	450	34
10079050	10079050SP	½S1	500	3.6	0.32	6.3 x 1	6.3 x 19	450	34
10079100	10079100SP	1S1	1,000	2.3	0.4	7.1 x 1	7.1 x 20.2	530	39
10079200	10079200SP	2S1	2,000	1.1	0.4	7.1 x 2	7.1 x 20.2	645	51

A single phase electric hoist designed for trouble free operation in general purpose applications.

- Helical Gearing: Used where practical to provide quiet operation.
- Long Life Brake Unit: Disk type electro-magnetic brake system for steady operation and long life. Equipped with the patented Automatic Adjusting Brake for easier maintenance and added safety.
- Power Chain: Special (patented) alloy steel chain surface hardened for optimum strength and wear resistance.
- Lower Hook: Heat-treated and equipped with safety latch and 360° swivelling.
- Pushbutton Switch: Rain-proof plastic for severe impact and corrosive atmosphere resistance and mechanically interlocked.
- Manufactured in Japan.



Hitachi Hoist Chain Container Details

HITACHI
Inspire the Next

Product Code	Type	Chain Size	6.3mm	7.1mm	10mm
10080041	AX	Max Capacity	8m	n/a	n/a
10080042	D	Max Capacity	12m	6m	2m
10080043	E	Max Capacity	20m	12m	4m
10080044	F	Max Capacity	30m	20m	8m
10080045	G	Max Capacity	40m	30m	16m

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HOISTS, TROLLEYS
& BEAM CLAMPS



- Never exceed the Rated Capacity!
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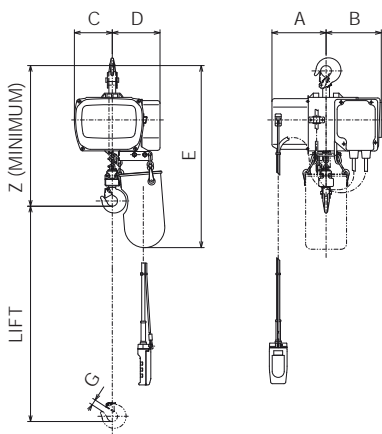
ELECTRIC HOISTS & TROLLEYS

DIMENSIONAL DRAWINGS

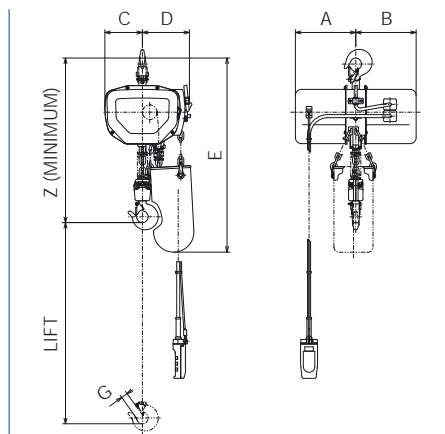
Hitachi S Series – Single/Three Phase – Single/Dual Speed

HITACHI
Inspire the Next

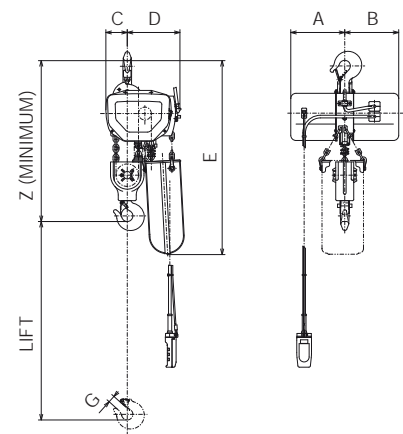
Capacity	250	250	500	500	1,000	1,000	2,000	2,000	250	500	1,000	2,000
Model	1/4S	1/4SN	1/2S	1/2SN	1S	1SN	2S	2SN	1/4S1	1/2S1	1S1	2S1
P. Code	10076025	10076425	10076050	10076450	10076100	10076500	10076200	10076600	10079025	10079050	10079100	10079200
Z (mm)	450	450	450	450	530	530	645	645	450	450	530	645
A (mm)	181	183	181	183	216	216	216	216	181	181	246	246
B (mm)	184	210	184	210	216	246	216	246	210	210	246	246
C (mm)	125	125	125	125	135	135	90	90	125	125	135	90
D (mm)	165	185	165	185	170	170	215	215	165	165	170	215
E (mm)	620	620	620	620	680	680	705	705	620	620	680	705
G (mm)	19	19	19	19	23	23	26	26	19	19	23	26



250kg/500kg



1,000kg



2,000kg



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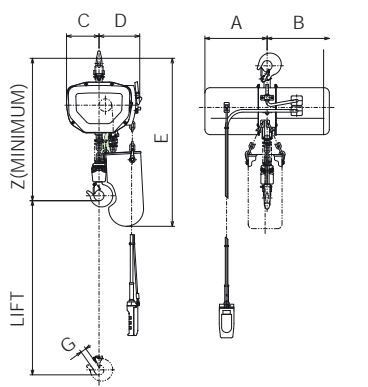
ELECTRIC HOISTS & TROLLEYS

DIMENSIONAL DRAWINGS

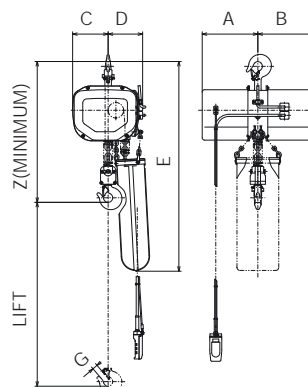
Hitachi F Series – Three Phase, 415V-50Hz

HITACHI
Inspire the Next

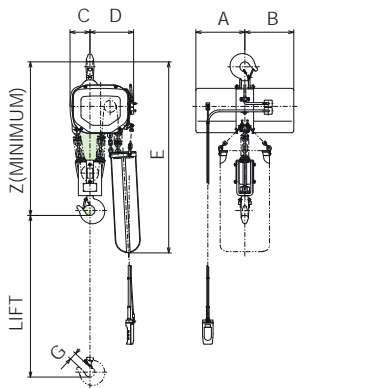
Capacity	1,000	2,000	2,000	3,000	3,000	5,000	5,000
Model	1F	2F	2FN	3F	3FN	5F	5FN
P. Code	10077100	10077200	10078200	10077300	10078300	10077500	10078500
Z (mm)	535	660	660	820	820	1020	1020
A (mm)	250	280	280	280	280	280	280
B (mm)	250	280	330	280	330	280	330
C (mm)	135	175	175	120	120	145	145
D (mm)	170	170	170	245	245	330	330
E (mm)	680	845	845	1,090	1,090	1,295	1,295
G (mm)	23	26	26	42	42	48	48



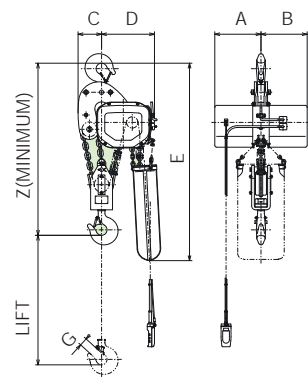
1,000kg



2,000kg



3,000kg



5,000kg



The information shown is to be used as a guide only. Specifications are subject to change without notice.



- Never exceed the Rated Capacity!
- All materials handling or lifting jobs should be assessed individually.
- Hoisting products must not be used for lifting or lowering persons.

12

HOISTS, TROLLEYS
& BEAM CLAMPS

ELECTRIC HOISTS & TROLLEYS

HITACHI ELECTRIC HOISTS & TROLLEYS

ET/ETN Series Electric Trolley – Three Phase, 415V-50Hz



Product Code	Hitachi Item No.	Rated Capacity	ET Speed	Motor Rating	Min. Radius	Girder Width*	Weight
		kg	m / min	kw	m	mm	kg

Single Speed

10080710	1ET	1,000	10.5	0.14	1.5	75 – 125	38
10080720	2ET	2,000	10.5	0.14	1.8	100 – 150	52
10080730	3ET	3,000	10.5	0.30	2.0	100 – 150	60
10080750	5ET	5,000	10.5	0.30	3.0	125 – 175	86

Dual Speed

10080710D	1ETN	1,000	21 / 5.3	0.27	1.5	75 – 125	38
10080720D	2ETN	2,000	21 / 5.3	0.27	1.8	100 – 150	52
10080730D	3ETN	3,000	21 / 5.3	0.60	2.0	100 – 150	60
10080750D	5ETN	5,000	21 / 5.3	0.60	3.0	125 – 175	86

* Larger girder widths are available upon request.

Single Speed & Dual Speed models are fitted with guide rollers as standard to reduce wear and ensure stability for curved beam applications.

- Wide beam options available – refer table below.
- Manufactured in Japan.

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HOISTS, TROLLEYS & BEAM CLAMPS

Wide Beam Kits



Product Code	Suits Hitachi Item No.	Wide Beam
		mm
10080801	1ET / 1ETN	155 – 191
10080802	2ET / 2ETN	180 – 210
10080803	3ET / 3ETN	180 – 255
10080805	5ET / 5ETN	205 – 305



- Never exceed the Rated Capacity!
- All materials handling or lifting jobs should be assessed individually.
- Hoisting products must not be used for lifting or lowering persons.

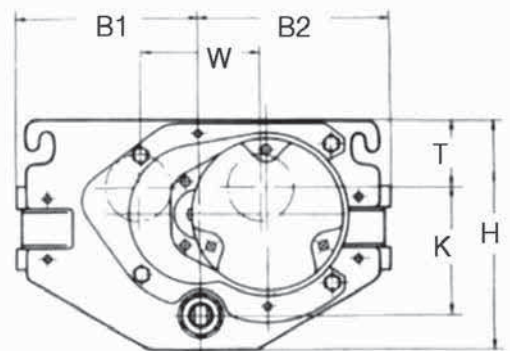
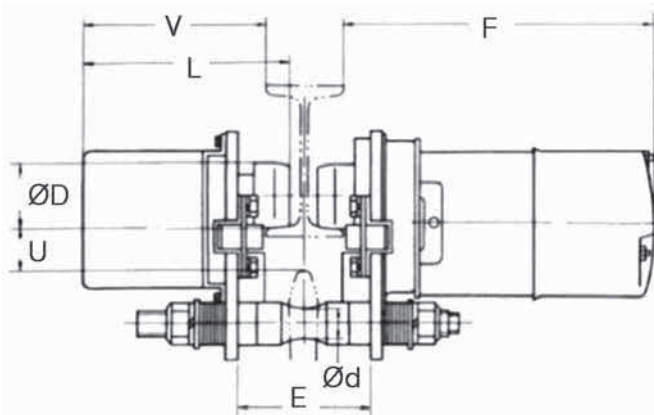
ELECTRIC HOISTS & TROLLEYS

DIMENSIONAL DRAWINGS

Hitachi ET/ETN Series – Three Phase – Single/Dual Speed, 415V-50Hz

HITACHI
Inspire the Next

Capacity (kg)	1,000	2,000	3,000	5,000
Model	1ET / 1ETN	2ET / 2ETN	3ET / 3ETN	5ET / 5ETN
P. Code	10080710 / 10080710D	10080720 / 10080720D	10080730 / 10080730D	10080750 / 10080750D
B1 (mm)	185	210	210	240
B2 (mm)	190	210	210	240
D (mm)	64	75	75	90
d (mm)	27	32	37	46
F (mm)	303	313	316	323
H (mm)	226	245	265	322
K (mm)	136	130	140	177
T (mm)	65	80	80	90
U (mm)	55	40	37.5	54
V (mm)	159	172	175	181
L (mm)	182	200	203	219
W (mm)	120	148	148	173
E (mm)	133	169	168	202



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HOISTS, TROLLEYS
& BEAM CLAMPS



The information shown is to be used as a guide only. Specifications are subject to change without notice.



- Never exceed the Rated Capacity!
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- Hoisting products must not be used for lifting or lowering persons.

ELECTRIC HOISTS & TROLLEYS

PACIFIC ELECTRIC HOISTS & TROLLEYS

Pacific PEH Series Hoist – Three Phase – Dual Speed, 415V-50Hz



Product Code		Pacific Hoist Item No.	Rated Capacity	Lifting Speed	Motor Rating		Load Chain		Weight
3m Lift	Other Lifts				O/P (kw)	ED (%)	Dim. (mm)	Fall (no.)	
10100405	10100405SP	PEH050	500	10 / 2.5	1.1 / 0.28	40 / 20	6.3 x 19.1	1	42
10100410	10100410SP	PEH100	1,000	8 / 2.0	1.5 / 0.37	40 / 20	7.1 x 20.2	1	57
10100420	10100420SP	PEH200	2,000	4 / 1.0	1.5 / 0.37	40 / 20	7.1 x 20.2	2	62

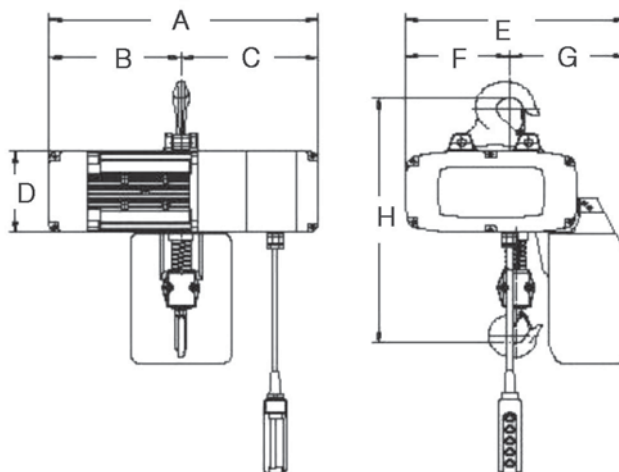
The Pacific electric chain hoist range offers a great balance between quality and price. Available from 500kg to 2 tonne WLL. All items are compliant with Standard AS1418.2.

- IP65 pendant with 24 volt control for operator safety.
- Overload protection clutch prevents damage caused by overloading.
- Inclusive of DC Brake which automatically engages in the event of a power failure.
- Completely enclosed design to withstand harsh conditions.
- Upper and lower electrical limit switches.
- Grade 80 zinc plated load chain supplied as standard.
- Motor thermal protection on all models.
- Fuse protection provided for both primary and secondary control circuits.
- IP54 protection rating on all models.
- Reverse phase protection relay on all models.
- Optional radio remote control.



Dimensional Drawings

Capacity (kg)	500	1,000	2,000
Model	PEH050	PEH100	PEH200
Product Code	10100405	10100410	10100420
A (mm)	468	487	487
B (mm)	221	240	240
C (mm)	247	248	248
D (mm)	156	170	170
E (mm)	366	398	398
F (mm)	186	188	188
G (mm)	180	210	210
H (mm)	485	520	592



The information shown is to be used as a guide only. Specifications are subject to change without notice.



- Never exceed the Rated Capacity!
- All materials handling or lifting jobs should be assessed individually.
- Hoisting products must not be used for lifting or lowering persons.

ELECTRIC HOISTS & TROLLEYS

PACIFIC ELECTRIC HOISTS & TROLLEYS

Pacific PET Trolley – 415V-50Hz



Product Code	Pacific Hoist Item No.	Rated Capacity	Traverse Speed	Girder Width	Motor Rating
		kg	m / min	mm	O/P (kw)

Single Speed

10100505	PET050	500	10	70 – 125	0.12
10100510	PET100	1,000	10	70 – 125	0.18
10100520	PET200	2,000	10	100 – 150	0.37

Dual Speed

10100505D	PET055	500	20 / 5	70 – 125	0.12 / 0.03
10100510D	PET105	1,000	20 / 5	70 – 125	0.18 / 0.04
10100520D	PET205	2,000	20 / 5	100 – 150	0.37 / 0.09

The Pacific electric trolley range offers a great balance between quality and price.

- Complies with AS1418.2
- IP54 protection rating.
- Wide beam option available – refer table below.



Wide Beam Kits



Product Code	Suits Pacific Item No.	Wide Beam
		mm
10100605A	PET050 / PET055	126 – 210
10100605B	PET050 / PET055	211 – 310
10100610A	PET100 / PET105	126 – 210
10100610B	PET100 / PET105	211 – 310
10100620A	PET200 / PET205	151 – 225
10100620B	PET200 / PET205	226 – 310

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HOISTS, TROLLEYS
& BEAM CLAMPS



- Never exceed the Rated Capacity!
- All materials handling or lifting jobs should be assessed individually.
- Hoisting products must not be used for lifting or lowering persons.

ELECTRIC HOISTS & TROLLEYS

PACIFIC ELECTRIC HOISTS & TROLLEYS

Pacific Umega Porta Series – Single Phase, 240V-50Hz



Product Code		Pacific Hoist Item No.	Rated Capacity	Lifting Speed	Motor Rating		Load Chain		Weight
6m Lift	Other Lifts				O/P (kw)	ED (%)	Dim. (mm)	Fall (no.)	
10059341	10059341SP	PPH125	125	0-3.2 / 12.5	0.3	30	4.0 x 12	1	17.5
10059342	10059342SP	PPH240	250	0-3.2 / 12.5	0.6	30	4.0 x 12	1	17.5
10059343	10059343SP	PPH500	500	0-1.6 / 6.3	0.6	30	4.0 x 12	2	20.6

The Pacific Porta Hoists are compact, lightweight 240V single phase electric chain hoists. They are conveniently supplied in a durable travel case which makes them the ideal portable solution for lifting, lowering & handling loads up to 500kg.

All models are supplied as standard with 6m height of lift, a 5m pendant control, chain bucket and 3m power supply cable.

All Pacific Porta Hoists are manufactured to comply with AS1418.2.

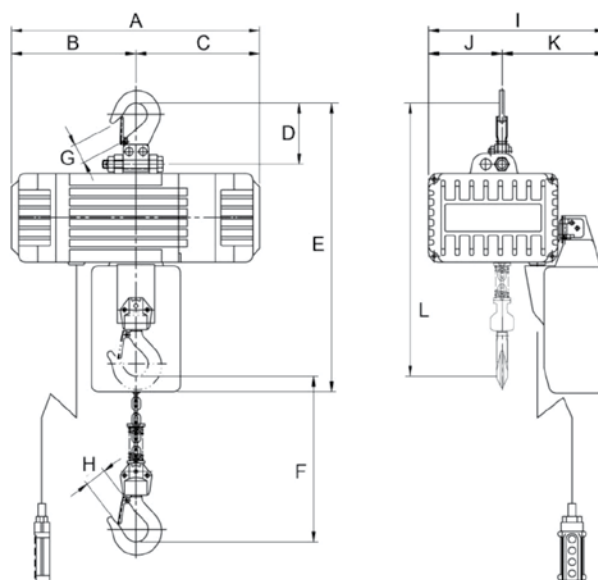
- Available in 125kg, 250kg and 500kg capacities.
- Duty cycle rated at 30% ED with 180 starts per hour.
- 18V DC low voltage control for safe operation.
- IP65 pendant control, dual speeds with variable speed slow control for raise and lower.
- Overload protection clutch prevents damage caused by overloading.
- Upper and lower electrical limit switches.

Additional height of lift is available upon request. Please note that this may vary the size and weight of the hoist and therefore may not fit into the travel case.



Dimensional Drawings

Capacity (kg)	125	250	500
Model	PPH125	PPH240	PPH500
Product Code	10059341	10059342	10059343
A (mm)	364	364	364
B (mm)	182	182	182
C (mm)	182	182	182
D (mm)	89	89	89
E (mm)	423	423	423
F	6m lift	6m lift	6m lift
G (mm)	25	25	25
H (mm)	25	25	25
I (mm)	260	260	260
J (mm)	108	108	84
K (mm)	152	152	176
L (mm)	400	400	494



• The information shown is to be used as a guide only. Specifications are subject to change without notice.



- Never exceed the Rated Capacity!
- All materials handling or lifting jobs should be assessed individually.
- Hoisting products must not be used for lifting or lowering persons.

ELECTRIC HOISTS & TROLLEYS

ELECTRIC BUILDER'S HOIST

Pacific CW Wire Rope Series – Single Phase, 240V-50Hz



Product Code	Pacific Hoist Item No.	Rated Capacity	Lifting Speed	Max. Lifting Height	Motor Rating	Wire Rope	Weight
		kg	m / min	m	O/P (kw)	Ømm x m	kg
10059736	CWS80	80	30	35	0.8	3.3 x 36	18
10059737	CWS160	160	22	40	1.2	4.0 x 41	25
10059738	CWS230	230	14	24	1.3	5.0 x 25	26
10059739	CWS300	300	13	24	1.5	4.8 x 25	28

The Pacific Electric Wire Rope Hoists are suited for a wide range of applications such as warehouses, construction sites and factories. Due to its compact and lightweight design, it is perfect for when easy installation and quick use is needed.

- Automatic upper limit switch; when rope disc touches the limit arm, hoisting is automatically stopped.
- Dynamic and mechanical brake providing instant and safe braking.
- Convenient 240V / single phase power supply.
- Sensor arm automatically activates lower limit switch to stop motor if rope is under wound.
- Supplied with 3m power lead and industry plug. Comes with 10m heavy duty IP65 waterproof pendant control.
- Wire rope with 360° weighted hook with safety latch.
- Mount bracket and swivel arm assembly can be purchased as optional extras – refer table below.



Options Extras for CW Series



Product Code	Description
10059742	Trolley Mount Bracket
10059742S	Swivel Arm Assembly



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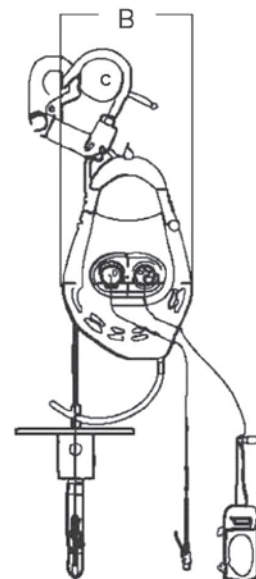
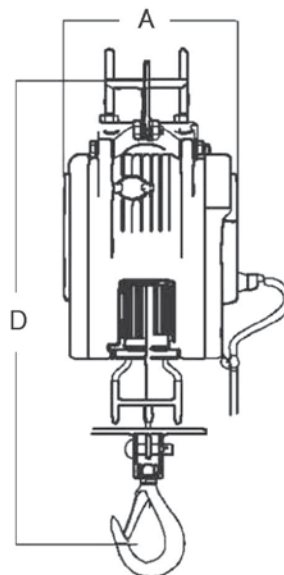
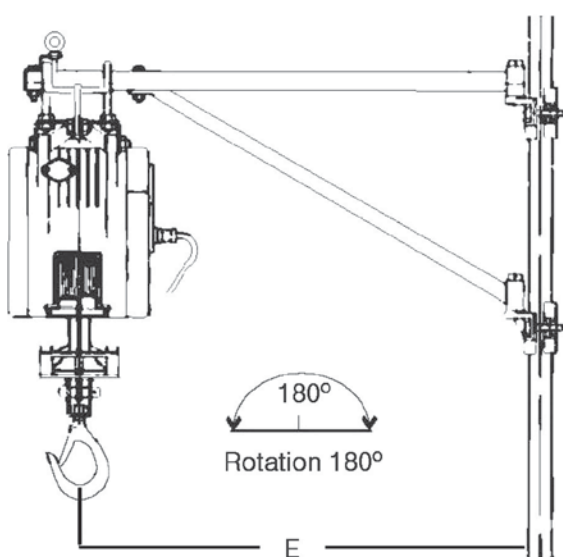
ELECTRIC HOISTS & TROLLEYS

DIMENSIONAL DRAWINGS

Pacific CW Wire Rope Series – Single Phase, 240V-50Hz

Pacific Hoists

Capacity (kg)	1,000	2,000	3,000	5,000
Model	CWS80	CWS160	CWS230	CWS300
Product Code	10059736	10059737	10059738	10059739
A (mm)	200	244	244	244
B (mm)	168	182	182	182
C (mm)	Ø 65	Ø 60	Ø 60	Ø 60
D (mm)	605	640	640	640
E (mm)	879	879	879	879



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HOISTS, TROLLEYS
& BEAM CLAMPS



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ELECTRIC HOISTS & TROLLEYS

HITACHI & PACIFIC HOIST EXTRAS

HITACHI
Inspire the Next

Pacific Hoists

IKUSI REMOTE CONTROLS

Transmitters T70 1

Functions: Raise, Lower, East, West, E/Stop

- High-sensitivity two-step push button.
- Multiband radio with Full-Duplex communication.
- High customisable.
- LCD display optional.
- External removable EEPROM SIM module.
- Easy and fast maintenance.
- High resistance to impacts.
- Frequency management.
- Battery power pack included.

Receivers R06

Functions: Raise, Lower, East, West, North, South, E/ Stop

- Multiband radio with Full-Duplex communication.
- External LEDs for troubleshooting.
- Highly field-customisable.
- Removable EEPROM SIM module.
- Frequencies management against interferences.
- STOP: PLd, Category 3 according to EN ISO 13849-1.
- Easy and fast maintenance.
- Multi-feedback capability.
- Six digital outputs.



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HOISTS, TROLLEYS
& BEAM CLAMPS

HITACHI & PACIFIC HOIST SPARES

- Load Chain
- Hand Chain
- Pendants
- Power Cables

All items can be supplied to required length on new hoists or spares as required. Larger size chain buckets available along with a full range of spare parts.



HITACHI
Inspire the Next

Pacific Hoists



• Contact your local Cookes branch, Freephone 0508 274 366 or email customerservices@bridoncookes.co.nz for further information.

ELECTRIC HOISTS & TROLLEYS

HITACHI & PACIFIC HOIST EXTRAS



ELECTRICAL FEED SYSTEMS

Cookes offers a range of electrical feed systems to supply power to travelling hoists, cranes and other machinery.

AKAPP Multi Conductor Systems

AKAPP delivers compact, reliable and secure power supply systems for cranes, hoists and trolleys. The installation of these systems is suitable for both inside and outside, high and low temperatures and for extreme (weather) conditions.

Unique double-sided flexible rubber seal provides protection against dust, damp and corrosive environments. The rail system accepts up to seven conductors in continuous lengths, up to 300m.



Metreel Festoon Systems

The Metreel platform cable festoon system is designed to support one or more platform cables of various sizes.

The 'C' track provides safe free support of power and pendent cables, air lines etc. to electric hoists, air hoists, power tools, air tools in wide variety of applications.

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HOISTS, TROLLEYS & BEAM CLAMPS

Zeca Cable Reels

Zeca cable reels are lightweight and provide a safe and economical method of supplying power to moving machinery. They are designed for indoor and outdoor applications and require minimal assembly.

The reels are spring loaded; allowing the cable to be pulled out and to automatically recover as the machine moves back and forward.



Zeca Cable Reels

Product Code	Pacific Hoist Item No.	Cable Length / Spec	Amps
10001620	ZEC120	15m / 4x2.5mm ²	10
10001640	ZEC140	5.5m / 4x2.5mm ²	10



• Contact your local Cookes branch, Freephone 0508 274 366 or email customerservices@bridoncookes.co.nz for further information.

ELECTRIC HOISTS & TROLLEYS

CM ELECTRIC ENTERTAINMENT HOISTS

CM Lodestar® DS Series – Three Phase, 415V-50Hz



Product Code	CM Item No.	Rated Capacity	Lifting Speed	Chains	Load Chain		Headroom	Weight
		kg	m / min	No.	Ø (mm) x fall	Ø x pitch (mm)	mm	kg
10940905*	D8/F	500	4	1	6.3 x 1	6.3 x 19.0	413	32
10940910*	D8/L	1,000	4	1	7.9 x 1	7.9 x 21.8	472	53
10940920*	D8/RR	2,000	2	2	7.9 x 2	7.9 x 21.8	613	115

* Available on indent.

CM Lodestar® DS Series – Three Phase, 415V-50Hz

The CM Lodestar® is extensively used within the entertainment Industry in all types of venues and various application. Over 1 million units have been sold worldwide. Features adjustable limit switch and overload protection.

The Lodestar D8 is unsurpassed for reliability, a true industry leader. It's clutch, outside the load path, acts as a precise overload device.

Capacities: 500kg, 1 tonne, 2 tonne.

Compliance: AS1418.2

Voltage: 415V – 50Hz.

Control Voltage: 24V low voltage control.

Enclosure: Durable and lightweight housing.
Cast aluminium, black powder coated finish for low visibility.

Brake: Heavy duty DC brake.

Gearing: Helical design for long wear life and smooth operation.

Load Chain: Zinc plated to protect against corrosion.
Black phosphate finish optional.

Optional: Chain bag, easy to mount cloth type bags.
Chain stop, mounted on load chain to prevent over-travel.

- Loadstar® hoists are chained up to required length.
- Manufactured in the USA.



12

HOISTS, TROLLEYS
& BEAM CLAMPS



- Never exceed the Rated Capacity!
- All materials handling or lifting jobs should be assessed individually.
- Hoisting products must not be used for lifting or lowering persons.

ELECTRIC HOISTS & TROLLEYS

CM ELECTRIC ENTERTAINMENT HOISTS

CM Prostar Model 250 – Single Phase, 240V-50Hz



Product Code	CM Item No.	Rated Capacity	Lifting Speed	Load Chain		Headroom	Weight
		kg	m / min	Ø (mm)	Ø x pitch (mm)	mm	kg
10940902*	PS250	250	4	3.98	3.98 x 11.98	281	17

* Available on indent.

CM Prostar Model 250 – Single Phase, 240V-50Hz

The CM Prostar Model is designed and built for unique rigging applications typically encountered at small venues. Lightweight, quiet, portable and complete with overload protection. Chain stop mounted on load chain prevents over-travel.

Units are not oil lubricated – no risk of oil on stage. Available in custom lift heights to suit your requirements.

Capacity: 250kg

Compliance: AS1418.2

Control Voltage: 110V for long cable runs without voltage drop.
Low voltage is available on request.

Enclosure: Lightweight, cast aluminium.
Durable and strong powder coated finish for low visibility.

Brake: DC mechanical brake for low maintenance and quiet operation.

Gearing: Precision machined gears, heat treated for strength and durability.

Load Chain: Zinc plated to protect against corrosion.
Black phosphate finish optional.



- Prostar hoists are chained up to required length.
- Manufactured in the USA.

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HOISTS, TROLLEYS
& BEAM CLAMPS



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ELECTRIC HOISTS & TROLLEYS

SPARE LOAD CHAIN FOR ELECTRIC HOISTS

Cookes can source high quality load chain to suit many of the world's finest electric hoists.



Kito

CM Loadstar



Hitachi

Pacific



RUD manufacture hoist chains from the smallest size (3mm x 9mm) to the world's largest (32mm x 90mm).

Manufactured in Germany, RUD calibrated hoist chains offer high dynamic strength and uniform surface hardness to ensure maximum operating safety.

Quality RUD Load Chain can be imported to suit:

ASM	Elephant	Morris	Star Liftket
B.E.L (China)	GIS	Movecat	Street Hoists
Black Bear	Kone	Nitchi	SWF/Verlinde
Donati	Liftket	Stahl	Yale



• Contact your nearest Cookes branch for details, Freephone 0508 274 366 or email customerservices@bridoncookes.co.nz.

ELECTRIC HOISTS & TROLLEYS

CARE & SAFETY INSTRUCTIONS

Safety:

Danger exists when heavy loads are transported, particularly when the equipment is not being used correctly or is poorly maintained. Because accidents and serious injury could result, special safety precautions apply to the operation, maintenance and inspection of power hoist products.

Before Use:

- Always read the owner's manual and safety instructions.
- Never lift more than the capacity shown on the hoist name plate.
- Do not use a hoist without a hoist name plate.
- Do not operate a hoist if it is damaged or malfunctioning.
- Do not use a twisted, kinked, damaged or stretched load chain.
- Do not use a hoist with a modified or deformed hook.
- Always check that the hook latches work properly.
- Do not use a hoist if the hook latch is missing or broken.

While In Operation:

- Never use a hoist for lifting, supporting or transporting people.
- Never lift or transport loads over or near people.
- Never support a load on the tip of the hook.
- Always make sure that the load is properly seated in the hook.
- Never use the hoist chain as a sling.
- Never swing a suspended load.

Specific User Instructions will be provided with your new equipment. Please read these instructions carefully before operating the electric hoist or trolley.



• Never attempt to operate power hoisting equipment unless you have been fully trained and deemed competent to do so. Improper hoist use could result in serious injury or death.

AIR HOISTS

AIR HOISTS & TROLLEYS

JDN Mini Series – Flame Proof Air Hoist

Pacific Hoists

Product Code			JDN Item No.	Rated Capacity kg	Speed * (m / min)		Air Consumption* (m ³ / min)		Air Conn. type	Motor Output kw	Load Chain Ø x pitch	Weight 3m Lift kg
3m Lift	5m Lift	Other Lifts			lifting	lowering	lifting	lowering				
10910125	10910127	10910127SP	MINI125	125	15	30	0.5	0.7	G ³ / ₈	0.4	4 x 12	9.5
10910130	10910132	10910132SP	MINI250	250	8	16	0.5	0.7	G ³ / ₈	0.4	4 x 12	10.5
10910140	10910142	10910142SP	MINI500	500	10	18	1.2	1.6	G ¹ / ₂	1.0	7 x 21	21.0
10910150	10910152	10910152SP	MINI1000	980	5	10	1.2	1.6	G ¹ / ₂	1.0	7 x 21	23.0

* Lifting/Lowering speeds and air consumption are shown at full load.

The JDN Mini Series widens the range of applications in the light duty sector as a handy, flexible and light-weight hoist. It is available in 3m or 5m lift heights only.

Standard features include:

- Complies with AS1418.2.
- Patented pre-lube motor design for low maintenance, oil-free operation.
- 100% duty rating and unlimited duty cycle suits all environmental conditions.
- Only six atmospheres of compressed air required (approx. 6 bar).
- Insensitive to dust, humidity and temperatures ranging from -20°C up to + 70°C.
- Suitable for horizontal pulling. Fail-safe brake, in case of air supply failure.
- Self-cooling economic air motor which will not overheat.
- Wear resistant motor braking system.
- Extremely sensitive lever control with emergency shut-off valve; max. control length 6m.
- Price competitive alternative when compared to other types of powered hoists.
- Easy operation and low maintenance design.
- Manufactured in Germany.

All JDN Pneumatic Hoists and trolleys comply to ATEX EX II 3GD IIA T4 regulations. Extra protection is further available to Zone 1, Group IIB, Zones 1 & 2 Group IIC and offshore special requirements such as paint thickness, spark-proof hooks, and wheels etc.



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HOISTS, TROLLEYS
& BEAM CLAMPS



JDN Mini Air Hoists fit easily to Cookes push trolleys, Pacific geared Trolleys or Cookes girder clamps.



Cookes Push Trolleys



Pacific Geared Trolleys



Cookes Girder Clamps.



- Never exceed the Rated Capacity!
- All materials handling or lifting jobs should be assessed individually.
- Hoisting products must not be used for lifting or lowering persons.

AIR HOISTS

DIMENSIONAL DRAWINGS

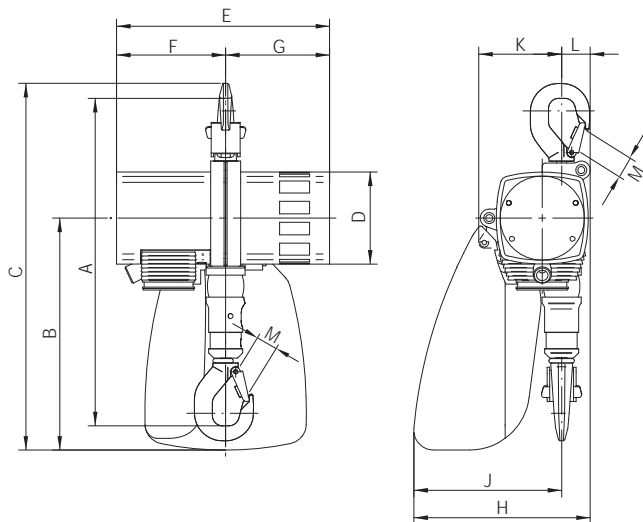
JDN Mini Series – Flame Proof Air Hoist

Pacific Hoists

Capacity (kg)	125	250	500	980
Model	MINI125	MINI250	MINI500	MINI1000
Product Code	10910125	10910130	10910140	10910150
A (mm)	328	328	458	458
B (mm)	232	232	316	316
C (mm)	367	367	505	505
D (mm)	92	92	122	122
E (mm)	213	213	292	292
F (mm)	109	109	148	148
G (mm)	104	104	144	144
H (mm)	177	177	234	234
J (mm)	148	148	194	194
K (mm)	83	83	119	119
L (mm)	29	29	40	40
M (mm)	19	19	28	28

12

HOISTS, TROLLEYS
& BEAM CLAMPS



• The information shown is to be used as a guide only. Specifications are subject to change without notice.



- Never exceed the Rated Capacity!
- All materials handling or lifting jobs should be assessed individually.
- Hoisting products must not be used for lifting or lowering persons.

AIR HOISTS

AIR HOISTS & TROLLEYS

JDN Profi Ti Series – Flame Proof Air Hoist

Pacific Hoists

Product Code (3m Lift)			JDN Item No.	Rated Capacity	Speed * (m / min)		Air Consumption* (m ³ / min)		Air Conn. type	Motor Output kw	Load Chain Ø x pitch	Weight 3m Lift kg
2m Pendant	2m Cord	Other Lifts			kg	lifting	lowering	lifting				
10902050P	10902050	10902050SP	0.5Ti	500	11.0	17.0	1.2	1.5	G½	1.0	7 x 21	27
10902100P	10902100	10902100SP	1Ti	1,000	5.5	11.0	1.2	1.5	G½	1.0	7 x 21	28
10902200P	10902200	10902200SP	2Ti	2,000	2.7	5.5	1.2	1.5	G½	1.0	7 x 21	34
10902300P	10902300	10902300SP	3Ti	3,200	5.0	10.8	4.0	5.5	G¾	3.5	13 x 36	86
10902600P	10902600	10902600SP	6Ti	6,300	2.5	5.4	4.0	5.5	G¾	3.5	13 x 36	110
10902910P	10902910	10902910SP	10Ti	10,000	1.6	3.4	4.0	5.5	G¾	3.5	16 x 45	156

* Lifting/Lowering speeds and air consumption are shown at full load.

J.D. Neuhaus manufactures high quality, superior PROFI Air Hoists which are known for their robust designs. This makes their products suitable for tough industrial applications, even in continuous working processes. Safety features such as 100% duty rating and explosion protection, are important advantages for applications in hazardous areas.

Standard features include:

- Complies with AS1418.2.
- Patented pre-lube motor design for low maintenance, oil-free operation.
- 100% duty rating and unlimited duty cycle suits all environmental conditions.
- Only six atmospheres of compressed air required (approx. 6 bar).
- Insensitive to dust, humidity and temperatures ranging from -20°C up to + 70°C.
- ATEX – approved models available for application in dangerous and explosive environments.
- Self-cooling economic air motor which will not overheat.
- Fail-safe brake, in case of air supply failure.
- From 1 tonne upwards available with overload protection.
- Low decibel rating. Easy operation and low maintenance design.
- F-type sensitive infinitely variable speed control for the precise positioning of loads.
- Cord control or Brass Pendant control available, as well as an electro pneumatic interface for Radio Remote control as an option.
- Manufactured in Germany.



All JDN Pneumatic Hoists and trolleys comply to ATEX EX II 3GD IIA T4 regulations. Extra protection is further available to Zone 1, Group IIB, Zones 1 & 2 Group IIC and offshore special requirements such as paint thickness, spark-proof hooks, and wheels etc.

12
HOISTS, TROLLEYS
& BEAM CLAMPS



• Chain buckets available. Chains, pendants and power cables able to be extended as required.



- Never exceed the Rated Capacity!
- All materials handling or lifting jobs should be assessed individually.
- Hoisting products must not be used for lifting or lowering persons.

AIR HOISTS

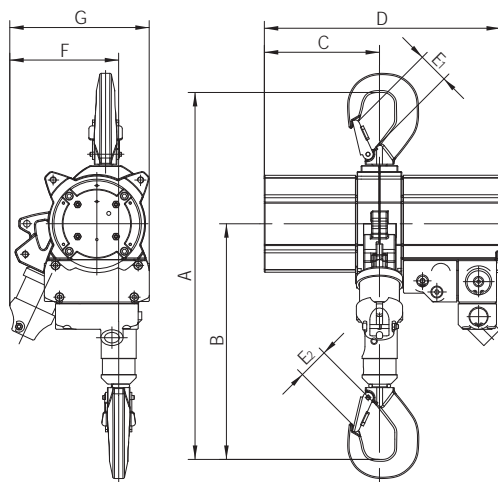
DIMENSIONAL DRAWINGS

JDN Profi Ti Series – Flame Proof Air Hoist

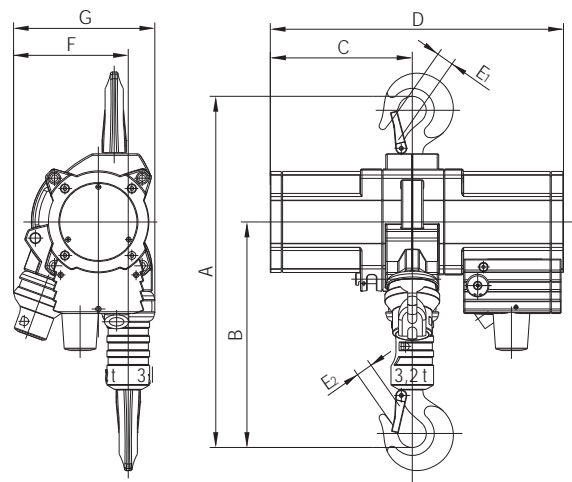
Pacific Hoists

Capacity (kg)	500	1,000	2,000	3,000	6,000	10,000
Model	0.5Ti	1Ti	2Ti	3Ti	6Ti	10Ti
Product Code	10902050	10902100	10902200	10902300	10902600	10902910
A min. headroom*	450	450	498	593	674	813
B (mm)	288	288	336	373	454	548
C (mm)	145	145	145	233	233	308
D (mm)	297	297	297	483	483	575
E ₁ (mm)	28	28	28	40	40	44
E ₂ (mm)	28	28	28	30	40	44
F up to hook centre	137	137	137	187	154	197
G max. width	176	176	183	233	233	306

* Chain buckets increase the hoist headroom.



Models 0.5Ti – 2Ti



Models 3Ti – 10Ti



The information shown is to be used as a guide only. Specifications are subject to change without notice.



- Never exceed the Rated Capacity!
- All materials handling or lifting jobs should be assessed individually.
- Hoisting products must not be used for lifting or lowering persons.

AIR HOISTS

AIR HOISTS & TROLLEYS

JDN Profi LM Series – Flame Proof Air Trolley

Pacific Hoists

Product Code	JDN Item No.	Rated Capacity	Traverse Speed	Beam Width	Air Consumption	Air Connection	Motor Output	Weight
		kg	m / min	mm	m ³ / min	type	kw	kg
10910192	LM2T	500 – 2,000	9 / 14	50 – 200	0.6	G½	0.2	26
10910193	LM3.2T	3,200	15	55 – 310	0.6	G¾	0.2	33
10910194	LM6.3T	6,300	9 / 14	125 – 310	0.6	G¾	0.2	124
10910195	LM10-16T	10,000	5 / 12	125 – 310	1.3	G¾	0.7	220

J.D. Neuhaus manufacture superior PROFILM Series motorised air trolleys under strict quality control with demanding tolerances.

Standard features include:

- Complies with AS1418.2.
- Fitted with anti-climb and anti-drop devices as standard.
- Easy to install.
- Able to negotiate curves.
- Robust manufacture requiring little maintenance.
- The air supply can be fed by various systems: energy chain, c-rail, square rail, spiral hose or hose trolleys.
- Additional protection to meet offshore requirements available on request.
- Manufactured in Germany.

All JDN Pneumatic Hoists and trolleys comply to ATEX EX II 3GD IIA T4 regulations. Extra protection is further available to Zone 1, Group IIB, Zones 1 & 2 Group IIC and offshore special requirements such as paint thickness, spark-proof hooks, and wheels etc.

J-D-NEUHAUS
engineered for extremes



JDN Profi Hoist complete with Profi Trolley.

12

HOISTS, TROLLEYS
& BEAM CLAMPS



- Never exceed the Rated Capacity!
- All materials handling or lifting jobs should be assessed individually.
- Hoisting products must not be used for lifting or lowering persons.

AIR HOISTS

DIMENSIONAL DRAWINGS

JDN Profi LM Series – Air Trolley

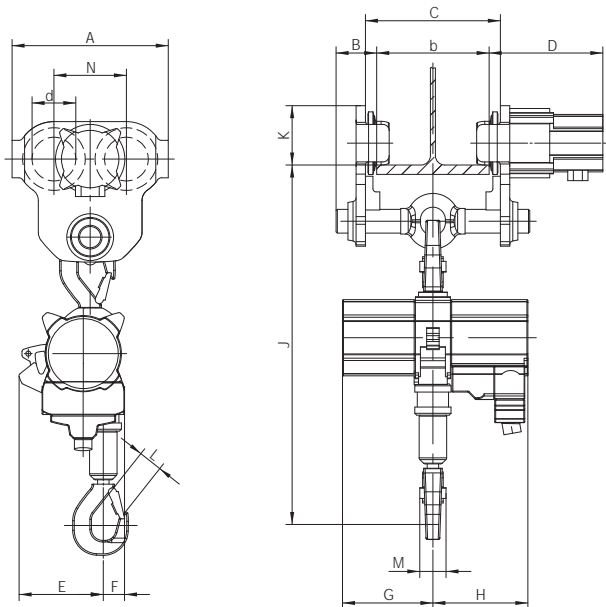
Pacific Hoists

Model	LM 2T			LM 3.2T	LM 6.3T	LM 10-16T
Suits JDN Air Hoist	0.5Ti	1Ti	2Ti	3Ti	6Ti	10Ti
Product Code	10910192			10910193	10910194	10910195
A (mm)	250	250	250	292	500	490
B (mm) max.	130	130	130	113	141	142
C (mm)	b + 36	b + 36	b + 36	b + 60	b + 70	b + 70
d (mm)	70	70	70	84	165	165
D (mm)	183	183	183	191	205	328
E (mm)	137	137	137	187	154	197
F (mm)	39	39	46	46	79	109
G (mm)	145	145	145	233	233	308
H (mm)	152	152	152	250	250	267
J ₂ (mm) suspended	563	563	611	798	919	1,176
K (mm)	95	95	95	107	188	188
L (mm)	28	28	28	30	40	42
M (mm)	42	42	42	42	51	66
N (mm)	116	116	116	136	236	236

* Chain buckets increase the hoist headroom.

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HOISTS, TROLLEYS
& BEAM CLAMPS



Profi Ti Series Hoist



• The information shown is to be used as a guide only. Specifications are subject to change without notice.



- Never exceed the Rated Capacity!
- All materials handling or lifting jobs should be assessed individually.
- Hoisting products must not be used for lifting or lowering persons.

AIR HOISTS

AIR HOISTS & TROLLEYS

Endo EHL Series – Air Hoist



Product Code		Endo Item No.	Rated Capacity	Lifting Speed	Load Chain (mm)		Hook Suspended	Weight
3m Pendant	3m Pull Cord				Ø x fall	Ø x pitch		
10910200*	n/a	AT125K	125	14.5	4.0 x 1	4.0 x 12	790	12.5
10910205*	10910205C	EHL05TS	500	10.5	6.3 x 1	6.3 x 19	365	19.0
10910210*	10910210C	EHL1TW	1,000	5.2	6.3 x 2	6.3 x 19	440	25.0
10910215*	10910215C	EHL1TS	1,000	6.0	7.1 x 1	7.1 x 21	480	34.0
10910220*	10910220C	EHL2TW	2,000	3.0	7.1 x 2	7.1 x 21	540	42.0
10910230*	10910230C	EHL3TS	3,000	3.0	12.5 x 1	12.5 x 38	585	75.0
10910260*	10910260C	EHL6TW	6,000	1.5	12.5 x 2	12.5 x 38	770	96.0

* Available on indent.

** H.r. = Headroom

EHL Air hoists from Endo Kogyo are fitted with rotary vane motors in strong lightweight aluminium bodies, for easy handling in a variety of industrial and construction applications.

Standard features:

- Complies with AS1418.2.
- Precise variable lifting and high speed.
- Quality load chain allowing high frequency of use.
- Upper and lower limit switches.
- Operation speed depends on the amount of pressure applied to the push buttons or how hard the control rope is pulled.
- Installation – simply connect the air hose.
- Manufactured in Japan.



EHL – AT125K

EHL – EHL1TW

Endo MTH Series – Trolley



Product Code	Endo Item No.	Rated Capacity	Traverse Speed	Suits Beam		Weight
				Range	Min. Radius	
10915100*	MTH-1T	1,000	28	78 – 125	800	35
10915200*	MTH-2T	2,000	18	125 – 150	1,000	63
10915600*	MTH-6.3T	6,000	19	150 – 190	2,500	127

* Available on indent.

Pendant control with two directional functions.

- Designed for easy handling and high speed performance.
- Models to suit wider beam widths (154 – 305mm) available.
- Manufactured in Japan.



MTH – Trolley



- Never exceed the Rated Capacity!
- All materials handling or lifting jobs should be assessed individually.
- Hoisting products must not be used for lifting or lowering persons.

AIR HOISTS

SPARE LOAD CHAIN FOR AIR HOISTS

Cookes can source high quality load chain to suit many of the world's finest electric hoists.



Endo



JDN



RUD chains, Germany, manufacture finest quality, calibrated load chains offering high dynamic strength and uniform surface hardness to ensure maximum operating safety.

Quality RUD Load Chain can be imported to suit:

Atlas Copco

Ingersoll Rand

Sami

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HOISTS, TROLLEYS
& BEAM CLAMPS



• Contact your nearest Cookes branch for details, Freephone 0508 274 366 or email customerservices@bridoncookes.co.nz.

AIR HOISTS

CARE & SAFETY INSTRUCTIONS

Before using your hoist (and air trolley if fitted), you must become thoroughly familiar with all warnings and instructions and recommendations.

- Do not operate hoist unless you are fully trained, physically fit and authorised to do so.
- Your hoist may be fitted with various safety devices; load brakes, hook latch, limit switch, emergency stop, shock protection. Prior to using your hoist, please ensure you identify and become familiar with these devices if any.
- Air Hoists are not designed for, and should never be used for, lifting, supporting or transporting personnel.
- Never modify, re-rate or alter hoisting equipment.
- When touching metallic hand controls which are colder than 0°C, the skin could freeze within seconds and at temperatures above 43°C burning may occur. Please ensure suitable gloves are worn.
- Air Hoists that are in outdoor stationary positions must be protected against weathering and the maintenance intervals must be shortened.
- Depending on the individual air hoist, the hoist must be operated at a system pressure of 4 or 6 bar. If the system pressure is too low, important functions of the hoist will be impaired. If the pressure is too high, this will result in danger due to overloading.
- Air hoists must be operated with a sufficiently clean and dry air supply. Please read your manual for the correct requirements.
- Do not operate air hoists with other gases.
- Never stand under a raised load.
- Lifting must always be personally attended; never leave a raised load unattended.
- Over capacity load lifting is hazardous and should not be undertaken.
- Always inspect the hoist prior to use.
- Air hoists must not be used in the following applications; critical areas of nuclear plants, over acid baths or plants with corrosive substances, in areas where organic acids are present.
- Maintenance must be performed only by qualified personnel.
- Check daily; braking function, emergency stop device, lifting and lowering limits.
- Check monthly; check and lubricate chain.
- Check yearly; all bolted and pin connections, sprocket wheel and chain guides, load hook, compressed air connections, brake with load, motor, condition of chain box.



• **Never attempt to operate hoisting equipment unless you have been fully trained and deemed competent to do so. Improper hoist use could result in serious injury or death.**



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SPREADER BEAMS

TELESCOPIC SPREADER BEAMS

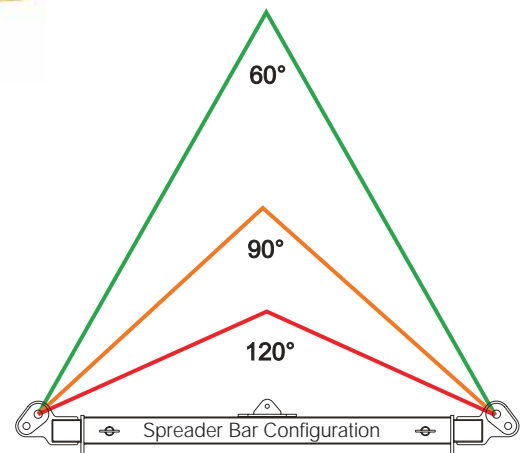
Maxirig Telescopic Spreader Beams

Maxirig

Product Code	Maxirig Item No.	Span m	Working Load Limit (kg)			Centre Lift *	Net Weight kg
			60°	90°	120°		
10971992	TSB1015	1.8 – 3.0	1,500	1,500	n.a.	No	25
10971999	TSB1033	1.8 – 3.0	3,000	3,000	2,000	No	40
10972004	TSB1063	2.0 – 3.0	6,000	3,500	2,000	No	50
10972005	TSB1065	3.0 – 5.0	6,000	6,000	4,500	No	105
10972014	TSB1103	2.3 – 3.5	10,000	10,000	7,500	Yes	100
10972018	TSB1106	4.0 – 6.0	10,000	10,000	6,000	No	160
10972020**	TSB2154	2.25 – 3.69	15,000	n.a.	n.a.	Yes	95
10972022	TSB1204	2.65 – 4.0	20,000	16,000	9,000	Yes	150
10972024	TSB1206	4.0 – 6.0	20,000	14,000	8,000	Yes	215
10972028	TSB1304	2.8 – 4.0	30,000	22,000	12,500	Yes	200
10972032	TSB1306	4.0 – 6.0	30,000	22,000	12,500	Yes	260
10972040	TSB1504	2.8 – 4.0	50,000	30,000	18,000	Yes	260
10972044	TSB1506	4.0 – 6.0	50,000	30,000	18,000	Yes	360
10972048	TSB1806	4.0 – 6.0	80,000	70,000	40,000	Yes	605

* Centre Lift: For details on the WLL of centre lift models or additional product information, please refer to your nearest Cookes branch for data sheets or email customerservices@bridoncookes.co.nz

** FRANNA Model.



Complies with Standard AS4991. High quality telescopic spreader beams supplied with certificate of conformance along with proof load and MPI weld inspection certificates.

- Lugs designed to suit Alloy Safety Bow Shackles.
- Includes 12 months' manufacturer's guarantee.
- Manufactured in Australia.

Custom manufactured in Australia and imported by Cookes. Variations and special designs available.



• Never exceed manufacturer's Working Load Limit (WLL).

SPREADER BEAMS

MODULAR SPREADER BEAMS

Maxirig Modular Telescopic Spreader Beams

Maxirig

Product Code	Maxirig Item No.	Span	Maximum WLL *	Fully Assembled Weight
		m	kg	kg
10972056	MAXIBAR 4	0.5 – 1.5	4,000	33
10972060	MAXIBAR 8	0.5 – 2.5	8,000	55
10972066	MAXIBAR 15	1.0 – 4.0	17,000	125
10972070	MAXIBAR 30	1.5 – 6.0	34,000	291
10972076	MAXIBAR 40	1.5 – 8.0	43,000	468
10972080	MAXIBAR 60	1.5 – 11.0	60,000	941
10972086	MAXIBAR 80	2.0 – 12.0	85,000	1,220
10972090	MAXIBAR 100	2.0 – 12.0	110,000	1,895
10972096	MAXIBAR 120	2.0 – 16.0	130,000	2,915
10972098	MAXIBAR 145	2.0 – 20.0	145,000	3,900

* WLL shown is the maximum for each model but varies based on span length and lift angles. Please refer to your nearest Cookes branch for a comprehensive data sheet on required model or email customerservices@bridoncookes.co.nz



Complies with Standard AS4991. The Maxirig Modular Spreader Bars are designed for heavy lifting applications including major construction projects. High quality modular spreader bars are supplied with certificate of conformance along with proof load and MPI weld inspection certificates.

- Lugs designed to suit Alloy Safety Bow Shackles
- Includes 12 months' manufacturer's guarantee.
- Manufactured in Australia.



• Custom manufactured in Australia and imported by Cookes. Variations and special designs available.



- Never exceed manufacturer's Working Load Limit (WLL).
- Important: Prior to conducting any operations with Modular Spreader Beams, a lift study must be undertaken noting the capacity and tare weights of the device in its various configurations.

SPREADER BEAMS

SPREADER BAR END CAPS

Maxirig Spreader Bar End Caps

Maxirig

Product Code	Maxirig Item No.	Working Load Limit (kg)		Max. Pipe Length m	Lug Length* mm	Net Weight Each kg
		60°	90°			
10972100	MAXILUG 25	25,000	20,000	12	350	65
10972101	MAXILUG 50	50,000	30,000	12	400	110
10972103	MAXILUG 80	80,000	35,000	12	500	175
10972104	MAXILUG 145	145,000	80,000	12	500	210
10972106	MAXILUG 250	250,000	160,000	12	750	600
10972108	MAXILUG 400	400,000	230,000	12	750	800

* Lug length measured to centre of lifting point.

Contact your nearest Cookes branch for a comprehensive data sheet on your required model or email customerservices@bridoncookes.co.nz. Specifications include maximum span length and pipe requirements for each model.



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MATERIALS HANDLING
EQUIPMENT

Complies with Standard AS4991. The Maxirig Spreader Bar End Caps allow users to create their own custom-length spreader bars using these heavy duty end units.

- High Quality Spreader Bar End Caps supplied with certificate of conformance along with proof load and MPI weld certificates.
- Designed to suit readily available line pipe.
- Lugs designed to suit Alloy Safety Anchor Shackles
- Includes 12 months' manufacturer's guarantee.
- Manufactured in Australia.



• Custom manufactured in Australia and imported by Cookes. Variations and special designs available.



• Never exceed manufacturer's Working Load Limit (WLL).

PLATE CLAMPS & GRABS

PLATE LIFTING CLAMPS

Cookes Vertical Plate Lifting Clamps



Product Code	Working Load Limit	Jaw Opening	Net Weight
	t	mm	kg
02836080	0.8	0 – 15	2



Designed for lifting and transfer of small profiles up to 800kg in the vertical position.

- Manufactured from high quality carbon steel.
- Articulated lifting eye.
- Fitted with locking device for safe use in both open and closed positions.
- Manufactured in China.

Cookes Universal Plate Lifting Clamps



Product Code	Working Load Limit	Jaw Opening	Net Weight
	t	mm	kg
02836110	1.0	0 – 20	5
02836120	2.0	0 – 25	8
02836132	3.2	0 – 30	15
02836150	5.0	0 – 50	23



Designed for lifting, turning and transporting of steel plates and structures from all positions.

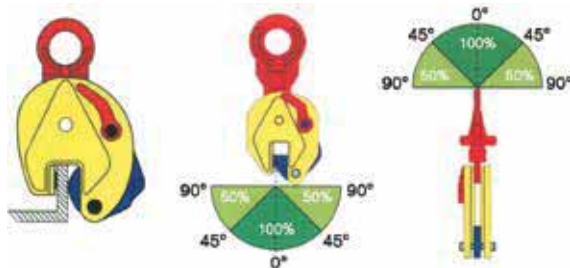
- Available in Working Load Limits from 1.0 tonne to 5.0 tonne.
- Manufactured from high quality carbon steel.
- Fitted with locking device for safe use in both open and closed positions.
- Articulated lifting eye.
- Manufactured in China.

Special Model with Hardened Jaws

Product Code	Working Load Limit	Jaw Opening
	t	mm
02836110RH	1.0	0 – 20
02836120RH	2.0	0 – 25
02836132RH	3.2	0 – 30

Cookes Universal Plate Lifting Clamps fitted with New Zealand manufactured hardened jaws

Vertical Lifting Clamps and Universal Plate Clamps



Universal Plate Clamps



• The minimum load to be lifted with these plate clamps is 10% of the WLL.



- Never exceed manufacturer's Working Load Limit
- Never lift or transfer a load over people.
- Avoid shock loading.

PLATE CLAMPS & GRABS

TURN PLATE CLAMPS

Cookes Turn Plate Clamps

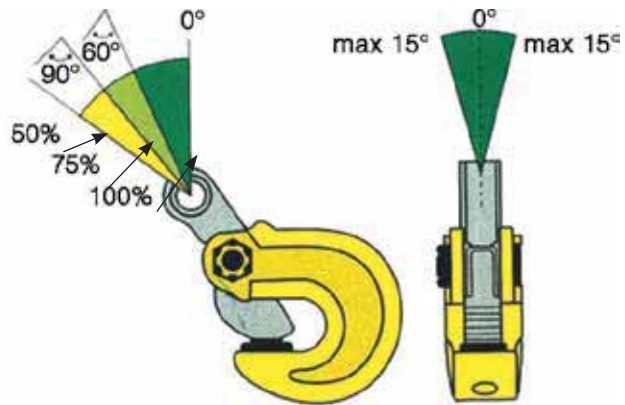
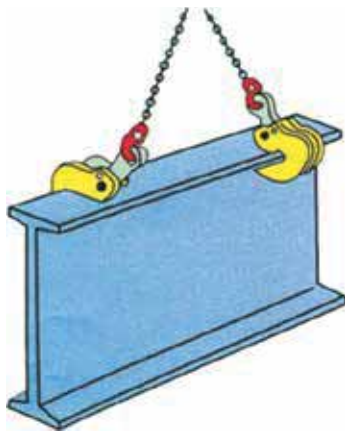
COOKES
a BRIDON · BEKAERT Ropes Group Brand

Product Code	Working Load Limit	Jaw Opening	Net Weight
	t	mm	kg
02836230	3.0	0 – 30	8



Designed for lifting and turning of steel plates and profile steel up to 3,000kg.

- Manufactured from die-forged tempered special alloy steel for maximum strength and durability.
- Compact, lightweight and easy to use.
- Manufactured in China.



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MATERIALS HANDLING
EQUIPMENT



• The minimum load to be lifted with these plate clamps is 10% of the WLL.



- Never exceed manufacturer's Working Load Limit
- Never lift or transfer a load over people.
- Avoid shock loading.

PLATE CLAMPS & GRABS

HORIZONTAL PLATE CLAMPS

Cookes Horizontal Plate Clamps

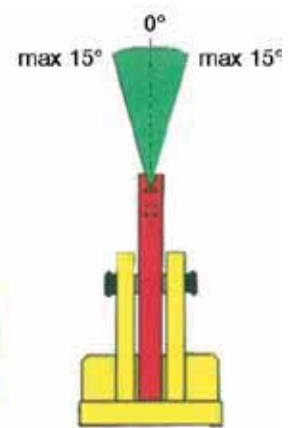
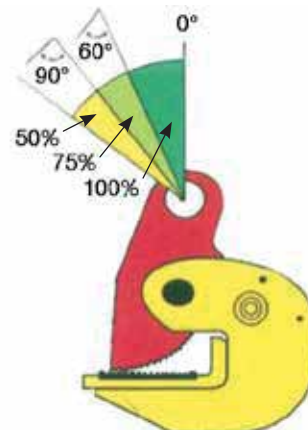
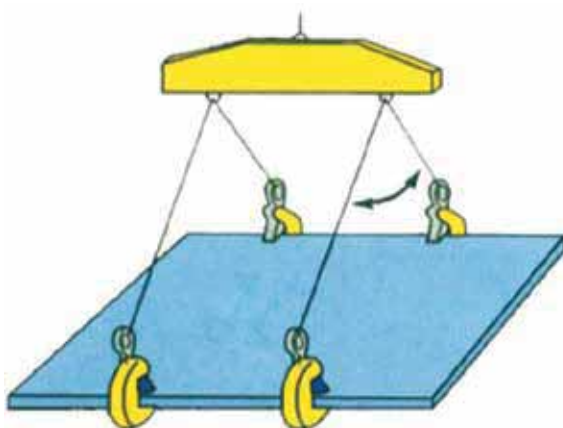


Product Code	Working Load Limit	Jaw Opening	Net Weight
per Pair	t (per Pair)	mm	kg (per Pair)
02836310	1.0	0 – 30	7
02836320	2.0	0 – 40	10
02836332	3.2	0 – 45	12
02836350	5.0	0 – 55	15



Designed for lifting in pairs or multiple pairs, steel plate, construction and profiled bar in the horizontal position.

- Fitted with safety button.
- Available in Working Load Limits from 1.0 tonne to 5.0 tonne.
- Manufactured from high quality carbon steel.
- Manufactured in China.



- Never exceed the Working Load Limit (WLL).
- Never lift or transfer a load over people.
- Avoid shock loading.



- Always use horizontal clamps in pairs or multiples of pairs.

PLATE CLAMPS & GRABS

HARDENED STEEL PLATE CLAMPS

Crosby Vertical Plate Clamps – IP10H ‘Hardox’



Product Code	Crosby Item No.	Working Load Limit*	Jaw Opening	Net Weight
		t	mm	kg
02820325	0.5 IP10H	0.5	0 – 16	1.8
02820330	1 IP10H	1.0	0 – 35	6.8
02820340	2 IP10H	2.0	0 – 40	13.8
02820350	3 IP10H	3.0	0 – 40	16.0

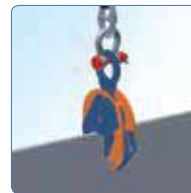
* Minimum WLL of 10% of Maximum WLL.

For Hard Surface Materials. IP10H vertical lifting clamps with fixed hoisting eye are suitable for the lifting, turning (180°) and vertical transfer of steel plates and sections with extra hard surface hardness. For use on materials with a surface hardness to 47Rc (450 HB). Fitted with a pivot and a camsegment made of extra hard wear-resistant material.

- Welded alloy steel body for strength and smaller size. Forged alloy components where required.
- Individually Proof Tested to 2 times the Working Load Limit with certification.
- Full 180° turning range for material transfer, turning or moving.
- Lock open, lock closed ability with latch for pretension on material and then release of material.
- Manufactured by a ISO 9001 facility. All sizes are RFID equipped.
- Manufactured in The Netherlands.

IP10H – Dimensions

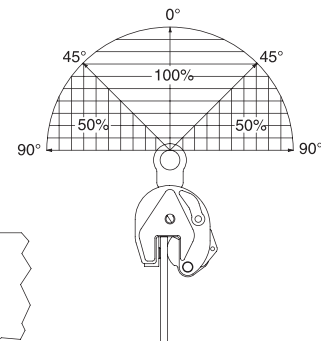
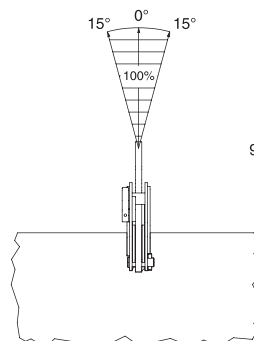
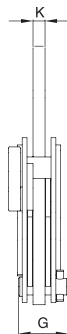
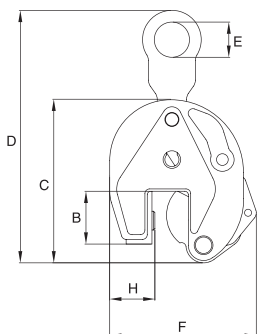
Model	0.5 IP10H	1 IP10H	2 IP10H
Product Code	02820325	02820330	02820340
B (mm)	44	78	100
C (mm)	128	201	253
D (mm)	207	336	436
E (mm)	30	70	75
F (mm)	115	190	225
G (mm)	41	61	78
H (mm)	28	55	60
K (mm)	10	10	16



CrosbyIP clamps are of the highest quality. Ergonomically designed to be user friendly (smaller, lighter, more compact), while not sacrificing strength and durability.

IP10H – Maintenance Kits

Product Code	To Suite Crosby IP Model
02820401MK	0.5 IP10H
02820305MK	1 IP10H
02820306MK	2 IP10H / 3 IP10H



• Larger sizes available on indent. Please contact your nearest Cookes branch for further information.



- Never exceed the Working Load Limit (WLL).
- Never lift or transfer a load over people.
- Avoid shock loading.

PLATE CLAMPS & GRABS

NON-MARRING PLATE CLAMPS

Crosby Non-Marring Plate Clamps – IPNM10P



Product Code	Crosby Item No.	Working Load Limit	Jaw Opening	Net Weight
		t	mm	kg
02820425	0.5 IPNM10P	0.5	0 – 10	2.8
02820430	1 IPNM10P	1.0	0 – 20	4.5

The IPNM10P vertical lifting clamp is used for the lifting, turning, moving or vertical transfer of sheet, plates, or fabrications from horizontal to vertical and down to horizontal (180°) as needed without marring the surface of the material. Materials such as aluminium, stainless steel, painted materials, aircraft skins, composite material, plastic, etc., can be lifted without marring. The protective cover reduces the risk of damage to surrounding materials.

- Welded alloy steel body for strength and smaller size. Forged alloy components where required.
- Individually Proof Tested to 2 times the Working Load Limit with certification.
- Full 180° turning range for material transfer, turning or moving.
- Lock open, lock closed ability with latch for pretension on material and then release of material.
- Manufactured by an ISO 9001 facility. All sizes are RFID equipped.
- Manufactured in The Netherlands.

IPNM10P – Dimensions

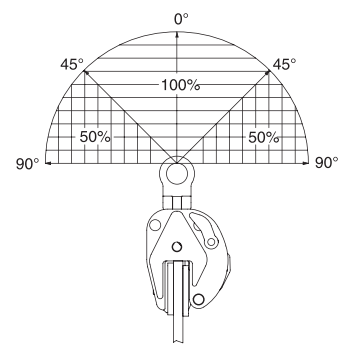
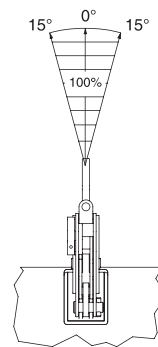
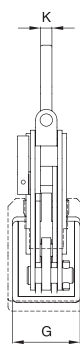
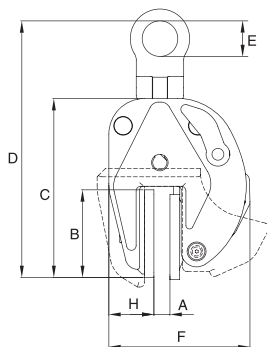
Model	0.5 IPNM10P	1 IPNM10P
Product Code	02820425	02820430
B (mm)	82	97
C (mm)	157	195
D (mm)	213	268
E (mm)	40	30
F (mm)	145	205
G (mm)	68	82
H (mm)	48	60
K (mm)	11	10



CrosbyIP clamps are of the highest quality. Ergonomically designed to be user friendly (smaller, lighter, more compact), while not sacrificing strength and durability.

IPNM10P – Maintenance Kits

Product Code	To Suite Crosby IP Model
02820425MK	0.5 IPNM10P
02820430MK	1 IPNM10P



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MATERIALS HANDLING
EQUIPMENT



• Other models of CrosbyIP Non-Marring Clamps available on indent – contact your nearest Cookes branch.



- Never exceed the Working Load Limit (WLL).
- Never lift or transfer a load over people.
- Avoid shock loading.

PLATE CLAMPS & GRABS

MAGNETIC LIFTERS

Pacific Permanent Magnetic Lifters – PML Series



Product Code	Pacific Item No.	Rated Capacity	Cylindrical Carrying Capacity	Maximum Break-Away Force	Suitable Plate Thickness	Net Weight
		kg	kg	kg	mm	kg
02814010	PML-1	100	50	350	> 25	3
02814030	PML-3	300	150	1,050	> 35	10
02814061	PML-6	600	300	2,100	> 40	24
02815100	PML-10	1,000	500	3,500	> 50	50
02815200*	PML-20	2,000	1,000	7,000	> 60	125

* Available on indent.

Pacific Magnetic Lifters can be used in various industries for the lifting and moving of steel, engine parts, semi-manufactured goods and moulds. Due to its magnetic force, there is no need to use slings, clamps or other holding devices. This will eliminate the chance of damaging the lifted materials.

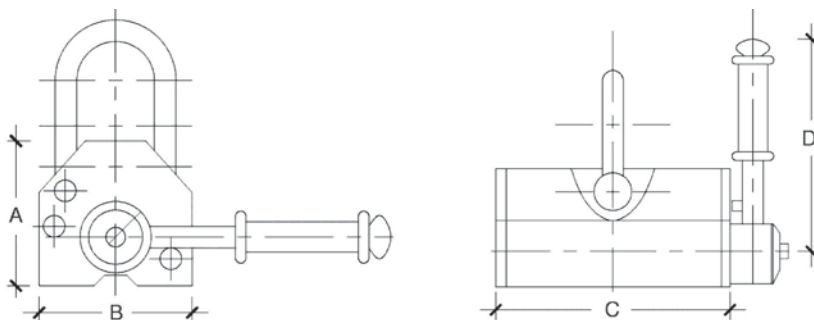
Standard features include:

- The magnetic lifter features a breakaway force 3.5 times greater than the WLL.
- Weight capacities are available from 100kg to 6,000kg.
- No electricity needed which will increase product safety. Once operated there is less than 1% residual magnetism.
- Simple switch and safety button design allows for one handed operation.



PML Series – Dimensions

Capacity (kg)	100	300	600	1,000	2,000
Model	PML-1	PML-3	PML-6	PML-10	PML-20
Product Code	02814010	02814030	02814061	02815100	02815200
A (mm)	67	91	117	163	212
B (mm)	62	92	122	176	234
C (mm)	92	162	232	258	378
D (mm)	126	155	196	285	426



• Larger capacities available on indent. Refer your local Cookes branch for details.

• The information shown is to be used as a guide only. Specifications are subject to change without notice.

• Never exceed the Rated Capacity.
 • Use of plate with high-carbon content will reduce the absorbability to less than 50% of Rated Capacity. Use on plate with high carbon content is not recommended.

13 MATERIALS HANDLING EQUIPMENT

PLATE CLAMPS & GRABS

CASE GRABS

Spiked Case Grabs

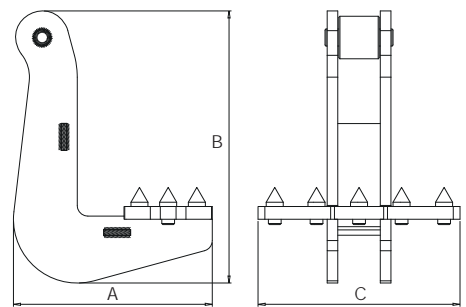


Product Code	WLL (t)	Dimensions (mm)			Weight (kg)
	per Pair	A	B	C	per Pair
07420010	1.0	160	220	195	6.4
07420020	2.0	187	256	195	10.5
07420030	3.0	290	330	240	20.4



Used in conjunction with a chain sling to lift wooden boxes, crates and cable spools up to 3 tonne.

- Solid spike construction.
- Large pad area to spread the load.
- Tested and certified.
- Manufactured in New Zealand.



Fitted to an endless chain sling, spiked case grabs ensure wooden cases or cable drums are held securely for lifting.



• Never exceed manufacturer's Working Load Limit (WLL).

PLATE CLAMPS & GRABS

SPECIALTY CLAMPS & GRABS



As New Zealand distributor for the Crosby Group USA and Camlok U.K., Cookes has access to innovative, high quality clamps and grabs to suit all applications.



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MATERIALS HANDLING
EQUIPMENT



• For further information on these high quality engineered products, please refer to your nearest Cookes branch, Freephone 0508 274 366 or email customerservices@bridoncookes.co.nz

PLATE CLAMPS & GRABS

Camlok
Lifting Clamps

SPECIALTY CLAMPS & GRABS

Concrete Pipe Lifting Clamps



Single Rail Clamps



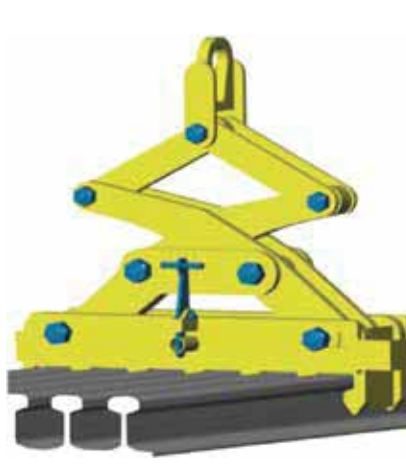
Rail Pulling Clamps



Fixed Multi Rail Clamps



Interchangeable Multi Rail Clamps



Light Weight Block Clamps



Light Weight Profile Steel Grabs



Pile Pulling Clamps



Pile Pitching Clamps



13
MATERIALS HANDLING
EQUIPMENT

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PLATE CLAMPS & GRABS

Camlok
Lifting Clamps

SPECIALTY CLAMPS & GRABS

Board Clamps



Hand Grip Clamps



Universal Turning Hooks



Single Arm C-Hooks



Twin Arm C-Hooks



Inside Coil Clamps



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MATERIALS HANDLING
EQUIPMENT

Round Stock Clamps



Block Grabs



Cable Drum Lug with Locking Lever



• For further information on these high quality engineered products, please refer to your nearest Cookes branch, Freephone 0508 274 366 or email customerservices@bridoncookes.co.nz

PLATE CLAMPS & GRABS

Camlok
Lifting Clamps

SPECIALTY CLAMPS & GRABS

Paper Reel Head Clamps

Other Camlok Paper Handling Options



CRANE FORKS



BESPOKE DESIGN

Camlok has a broad and diverse line of standard products that satisfy the requirements of the majority of lifting applications. However, Camlok engineers are often asked to design clamps and grabs for unusual and specific customer applications.

Camlok has a full team of in-house design engineers who are there to help with special enquiries you may come across.

Please contact Cookes with a rough outline of what your application entails and we will endeavour to produce a budget price and obtain a general arrangement sketch.

Camlok
Lifting Clamps



• For further information on these high quality engineered products, please refer to your nearest Cookes branch, Freephone 0508 274 366 or email customerservices@bridoncookes.co.nz

PILING RELEASE SHACKLES

GROUND RELEASE SHACKLES

Euro Ground Release Shackles

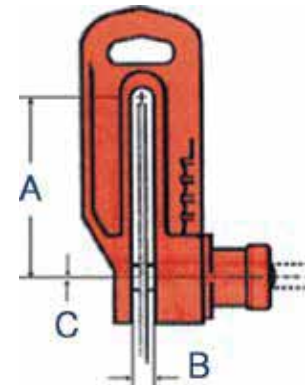


Product Code	Dawson Item No.	WLL	Dimensions (mm)			Net Weight
		t	A	B	C	kg
02846002*	150/4.0T	4.0	150	30	22	18
02846004*	150/7.5T	7.5	150	30	28	18
02846006*	150/10.0T	10.0	150	30	35	18
02846008*	250/7.5T	7.5	250	30	28	22
02846010*	250/10.0T	10.0	250	30	35	22

* Available on indent.

The Euro Ground Release Shackle has been developed specially for steel sheet piling. Its purpose is to enable steel piles to be lifted into position and when held securely in temporary guides, the shackle can be released quickly and safely, avoiding the costly delay and inherent hazards of putting a man up to the release position.

- High quality alloy steel casting.
- Fast hook up.
- Fast release (approx. 10 seconds).
- Security ring to guard against accidental release.
- Individually proof tested and certified.
- Design factor 5:1
- A product of Dawson U.K.



• Never exceed manufacturer's Working Load Limit (WLL).

PILING RELEASE SHACKLES

REMOTE RATCHET RELEASE SHACKLES

Ratchet Action Release Shackles



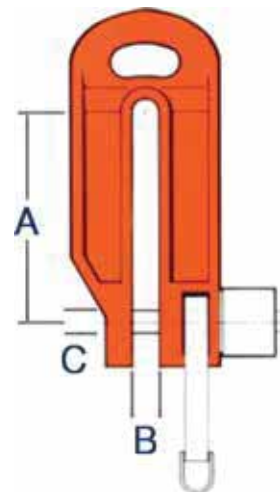
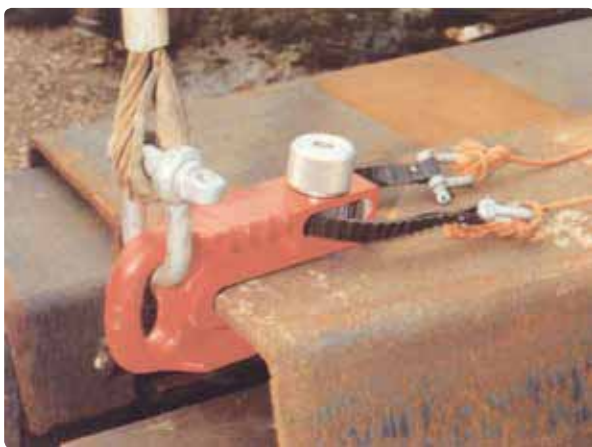
Product Code	Dawson Item No.	WLL	Dimensions (mm)			Net Weight
		t	A	B	C	kg
02846103*	R150/5.0T	5.0	150	30	24	14
02846104*	R150/7.5T	7.5	150	30	27	14
02846106*	R150/10.0T	10.0	150	30	35	15
02846109*	R250/5.0T	5.0	250	30	24	18
02846110*	R250/7.5T	7.5	250	30	27	18
02846112*	R250/10.0T	10.0	250	30	35	18
02846120*	R250/40.0T	40.0	250	30	60	67

* Available on indent.

The Ratchet Release Shackle is designed to enable steel, timber or concrete elements to be lifted into position, any height above ground level and for the shackle to be disconnected safely and efficiently from a remote position.

The purpose is to save the time taken and avoid the material costs of providing access for a man to disconnect the shackle. Achieving this result makes the work faster, more economical and inherently safe.

- High quality alloy steel casting.
- Fast hook up.
- Fast release (approx. 15 seconds).
- Ratchet mechanism ensures a fail-safe mode. Release action cannot occur accidentally.
- Individually proof tested and certified.
- Design factor 5:1
- A product of Dawson U.K.



• Never exceed manufacturer's Working Load Limit (WLL).

DRUM LIFTING EQUIPMENT

DRUM SLINGS

Cookes Drum Chain Slings



Product Code	Working Load Limit*	Jaw Opening	Net Weight
	kg	mm	kg
02836810	1,000	0 – 25	4

* WLL applies when used as a double-leg sling.



The Cookes 2-leg Drum Lifting Chain Sling is designed for the safe lifting and transporting of steel drums. With automatic locking clamp mechanism.

- The clamp mechanism securely fits to drum rim.
- Can be used to lift, tilt or turn drums.
- Lightweight and very quick and easy to use with an overhead crane or suitable hoist.
- Manufactured in China.

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MATERIALS HANDLING EQUIPMENT

Cookes Drum Webbing Slings



Product Code	Working Load Limit	Webbing Width	Drum Size
	kg	mm	
09403000	500	50	205 Litre / 44 Gallons

The popular Cookes Drum Lifting Webbing Slings are designed for use with ribbed 205L metal drums.

- 100% polyester webbing with locking ratchet tensioner.
- Lightweight and safe for loading up to 500kg WLL.
- Allows easy pouring from drum.
- Manufactured in New Zealand.



• Never exceed manufacturer's Working Load Limit (WLL).



• Never use webbing drum lifting slings on damaged drums where webbing may be cut or damaged.

DRUM LIFTING EQUIPMENT

DRUM CLAMPS & LIFTERS

Cookes Drum Clamps



Product Code	Working Load Limit	Jaw Opening	Net Weight
	kg	mm	kg
02836806	600	0 – 30	5

The Cookes Drum Clamp is designed to lift & transfer steel drums in the upright position. These clamps are compact, lightweight and easy to use.

- May be used singly or several clamps may be used at one time under a spreader bar for the loading or unloading of cargo holds.
- 600kg Working Load Limit.
- Manufactured in China.



Challenger Drum Lifter

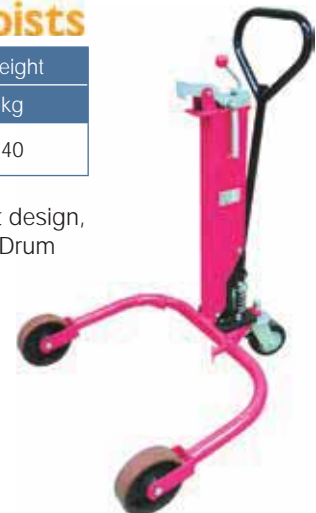


Product Code	Pacific Hoist Item No.	Rated Capacity	Lifting Height	Maximum Drum (mm)		Weight
		kg	mm	Diameter	Length	kg
10963350	CDL25	250	280	572	915	40

The Challenger Drum Lifter is a safe solution for lifting and shifting 250kg drums. A light-weight design, swivel steering and an easily manoeuvrable handle allow for easy positioning. The Challenger Drum Lifter is a great solution to help eliminate injuries from the manual handling of drums.

- Perfectly suited for lifting standard international size drums e.g. 200L/55GL.
- Lightweight design and easily manoeuvrable.
- Locking mechanism grips to the top of the drum and secures safely.
- Easy movement and positioning with push-or-pull motion handle and swivel steering.
- Hydraulic pump handle to easily lower or lift drum.

'Challenger' products proudly supporting cancer charities in New Zealand.



Maxirig Drum Lifter



Product Code	Maxirig Item No.	Working Load Limit	Height x Width	Net Weight
		kg	mm	kg
10972258*	DLF1050	700	1,400 x 715	40

* Available on indent.

The Maxirig Drum Lifter is manufactured in accordance with AS4991-2004. It is designed to enable easy and safe transportation of standard 205L drums via overhead crane.

- Retaining chains for quick and simple locking.
- Supplied with proof test load certificate and MPI welding report.
- One-year manufacturer's guarantee!
- Manufactured in Australia.



- Never exceed manufacturer's Working Load Limit (WLL).
- Never lift or transfer a load over people.
- Avoid shock loading.

DRUM LIFTING EQUIPMENT

DRUM GRABS

Pacific Safety Drum Grabs – DrumGrab™



Product Code	Pacific Item No.	Working Load Limit	Drum Size	Net Weight
		t		kg
02840030	PDG100	1.0	205 Litre / 44 Gallons	7

Complies with AS4991.


The DrumGrab™ is a unique device which offers a safe, easy and reliable way to shift, lift and manoeuvre most 205L drums. It is self-centering, fast and easy to lock on and will only come off when required.

It fits to most lifting devices and has a rated capacity of 1 tonne. DrumGrab™ is an efficient method of drum handling which prevents injuries and spills and will make the job easy!

Standard features include:

- Fits to almost all plastic and steel 205L drums with lids fitted, which have a rim.
- Capable of extracting a drum from the middle of a cluster without affecting the other drums.
- Cast, using high quality ductile iron; powder coated in safety yellow.
- Robust and reliable for harsh conditions.
- Prevents injuries and spills.
- Manufactured in Australia.



 • Never exceed manufacturer's Working Load Limit (WLL).

CONTAINER LIFTING EQUIPMENT

CAMLOK LIFTING LUGS

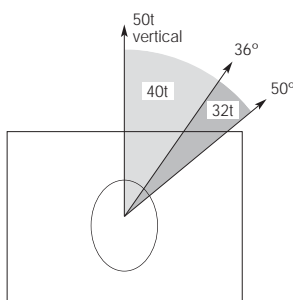
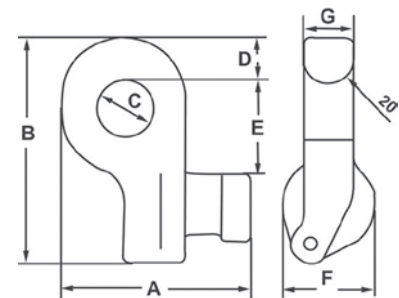
Camlok CLB Side Lifting Container Lugs



Product Code	Camlok Item No.	Type	Dimensions (mm)							Weight kg/set
			A	B	C	D	E	F	G	
09115007	CLB	Left Hand	152	181	45	37	73	75	40	18
09115008	CLB	Right Hand	152	181	45	37	73	75	40	18

Working Load Limit Chart

WLL (kg) per set of 4	Lifting Sling Angle	Type of Lifting
32,000	50°	Side
40,000	36°	Side
50,000	Vertical	Side

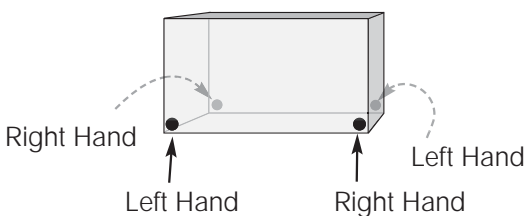



Camlok CLB Side Lifting Container Lugs are designed to stay in place when the slings become slack. Supplied as a set of four pieces: 2x left hand, 2x right hand. Mount horizontally to the side of the container at either the top or bottom fixing holes. The degree of inclination permits the lifting of all but the largest containers with a single spreader beam.

- Tested and certified.
- Connect for lifting with 2x2-leg chain slings.
- Spring loaded bolt to prevent accidental release.
- Each lug is stamped with the maximum WLL and the angle of working for the set.
- Manufactured in the U.K.

Lugs are handed left and right.

- Left hand lugs are marked with an 'L'.
- Right hand lugs are marked with an 'R'.



 • Never exceed manufacturer's Working Load Limit (WLL).
• Do not use with a 4-leg lifting sling.

CONTAINER LIFTING EQUIPMENT

CAMLOK LIFTING LUGS

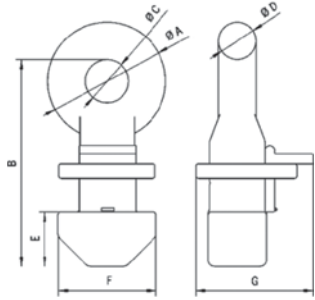
Camlok CLT Top Lifting Container Lugs



Product Code	Camlok Item No.	WLL (kg) per set of 4	Type	Dimensions (mm)							Weight kg/set
				A	B	C	D	E	F	G	
09115006	CLT	56,000	Top	123	217	45	39	57	101	121	28

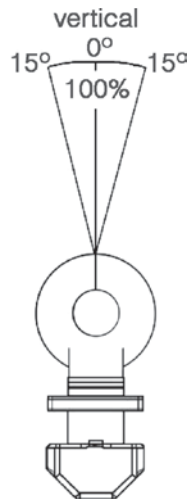
Supplied as a set of four pieces. Mount vertically in the holes at the top of container. Configuration allows for transportation via the use of a lifting frame in conjunction with chain or wire rope slings.

- Tested and certified.
- Locks in place by simply turning the lug 90°.
- Stamped with WLL.
- Manufactured in the U.K.



Working Load Limit Chart

WLL (kg) per set of 4	Angle from Vertical	Type of Lifting
56,000	0 – 15°	Top



13

MATERIALS HANDLING
EQUIPMENT

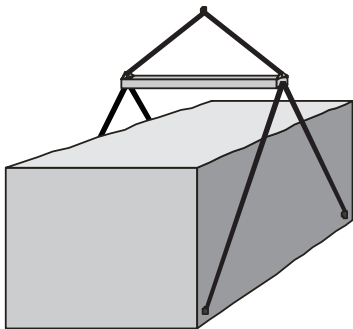


- Never exceed manufacturer's Working Load Limit (WLL).
- Do not use with a 4-leg lifting sling.

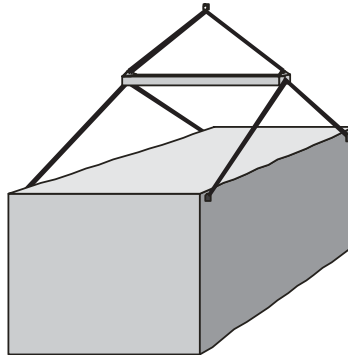
CONTAINER LIFTING EQUIPMENT

SAFE USE OF CAMLOK CONTAINER LIFTING LUGS

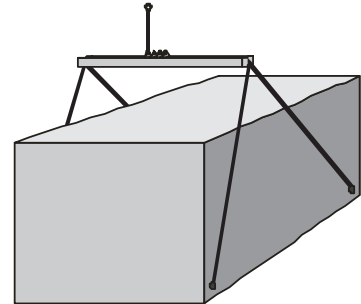
Note: Minimum angle will depend on WLL required.



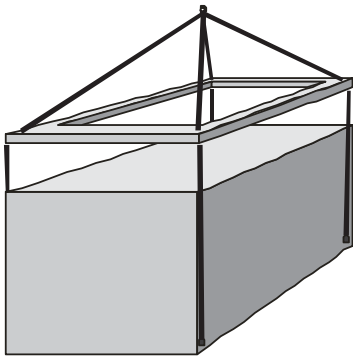
1. Spreader beam adds stability to lift.



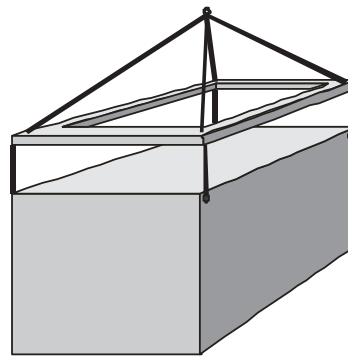
2. MKVa Lugs can be used in top side fitting also.



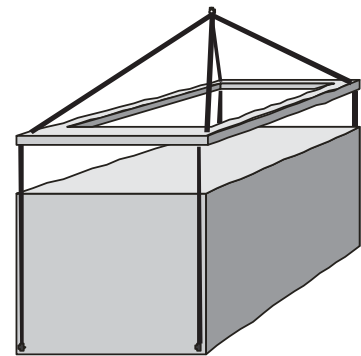
3. Un-symmetrically loaded containers can be handled by using lifting beams and shortening chain slings.



1. Bottom side.

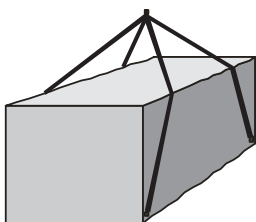


2. Top side.

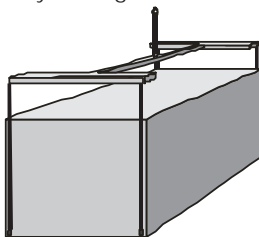


3. Bottom end.

For maximum load capacity a lifting frame can be used with the lugs attached as above.

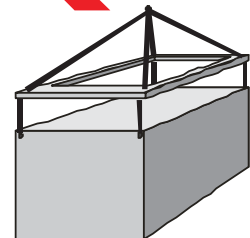
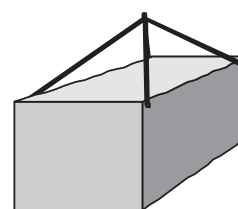
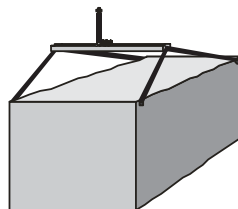


Not recommended, sling may damage container.



Lifting frames offer little stability.

UNSAFE – DO NOT USE



CLB Side Lifting Container Lugs are designed for use with a spreader beam.

CLT Top Lifting Container Lugs are designed for vertical lift with a spreader frame.

CONTAINER LIFTING EQUIPMENT

CONTAINER LIFTING HOOKS

VCH Side Lift Container Hooks

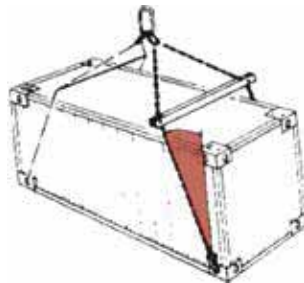
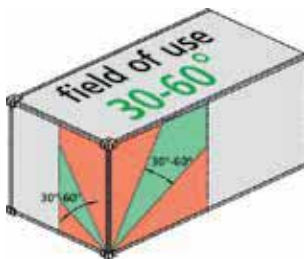


Product Code	RUD Item No.	Reference	WLL (t)	Dimensions (mm)						Weight
		No.	each	A	B	C	D	E	F	kg
09115003*	VCH-10t	51005	10.0	56	70	24	83	76	45	3

* Available on indent.

Suitable for use with standard ISO container fixing holes.

- Tested and certified.
- Strong, compact, RUD quality.
- Complies with EN1677,
- Manufactured in Germany.



The VCH-10t is not designed to be used for vertical lifts.

Use VCH-10t only at an angle larger than 30° and up to 60° at the maximum. A self-release during the lift is hereby not possible. Usage outside this angle range is prohibited.

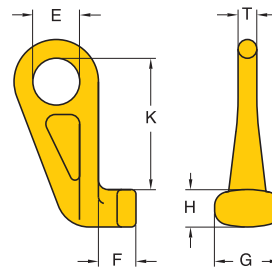
Eye Container Hook – Type KA



Product Code	Yoke Item No.	Description	WLL (t)	Dimensions (mm)						Weight
			each	E	F	G	H	K	T	kg
02466001	8-067-45LT	Left 45°	12.5	70	45	75	48	192	25	3.9
02466002	8-067-45RH	Right 45°	12.5	70	45	75	48	192	25	3.9
02466005	8-067-STR	Straight	12.5	70	45	75	48	192	25	3.9

Designed for use with standard ISO container fixing holes.

- Design factor 4:1
- Proof tested and certified.
- Complies with EN1677.
- Manufactured in Taiwan.



• It's recommended that loaded containers are lifted from the bottom as this is where the container is stronger.



- Never exceed manufacturer's Working Load Limit (WLL).
- A minimum included sling angle of 30° must be maintained to prevent the risk of disengagement.
- Do not exceed 60° included sling angle.

CONTAINER LIFTING EQUIPMENT

CONTAINER LIFTERS

Cookes is proud to be the authorised New Zealand distributor for Maxirig

Maxirig



WLL 35 tonne @ 60° included angle.

20ft Maxirig CLF1250 Autolock Container Lifter

This device is for handling 20 foot ISO shipping containers. Features include:

Sling activated mechanical twistlocks. Low maintenance – no electrics or hydraulics. Eliminates need for personnel to attach slings, operate twistlocks or get on top of containers. Ideal for use when stacking containers.



WLL 35 tonne @ 60° included angle.

40ft Maxirig CLF2350 Autolock Container Lifter

This device is for handling 40 foot ISO shipping containers. Features include:

Sling activated mechanical twistlocks. Low maintenance – no electrics or hydraulics. Eliminates need for personnel to attach slings, operate twistlocks or get on top of containers. Ideal for use when stacking containers.

- Supplied with proof load test certificate, MPI welding inspection report and certificate of conformance to AS4991.
- Supplied complete with wire rope slings and shackles.
- Fitted with compliance plates.
- User notes supplied.
- Maxirig Container Handlers are manufactured in Australia and available on indent.



• This product is currently under redesign. Please contact your local Cookes branch, Freephone 0508 274 366 or email customerservices@bridoncookes.co.nz for further information.

CONTAINER LIFTING EQUIPMENT

CONTAINER LIFTERS

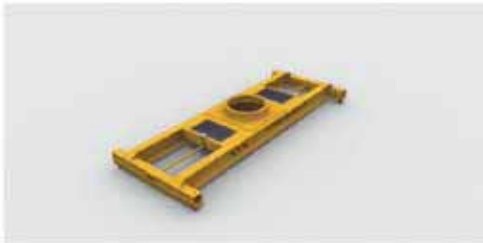
Cookes offer New Zealand's widest range of container handling spreaders. Representing world-leading manufacturers allows us to offer many special options.



FULLY AUTOMATIC SPREADERS



SEMI-AUTOMATIC SPREADERS



SPECIAL MODELS



EASY SPREADERS



OVERHEIGHT FRAMES



SPREADERS FOR INDOOR USE



• Contact your local Cookes branch, Freephone 0508 274 366 or email customerservices@bridoncookes.co.nz

CONTAINER LIFTING EQUIPMENT

LIFTING SLINGS

Cookes is New Zealand's specialist manufacturer of lifting slings.

With trained riggers and facilities at 12 branches throughout New Zealand, Cookes can design and fabricate your container lifting sling assemblies.

Whether your preference is chain or steel wire rope, Cookes have the equipment and the expertise to provide safe, fit for purpose lifting slings to meet your requirements.



Cookes Steel Wire Rope Slings fabricated to order.



13

MATERIALS HANDLING
EQUIPMENT



• Contact your local Cookes branch, Freephone 0508 274 366 or email customerservices@bridoncookes.co.nz

WORK BOXES & CAGES

WORK BOXES

Maxirig Work Box Range

Cookes is proud to be the authorised New Zealand distributor for the high quality Australian designed and manufactured Maxirig range of work boxes and goods cages.

Painted in high visibility Y14 Golden Yellow, each box is individually proof tested, carries a MPI weld inspection certification and includes a 12-month manufacturer's guarantee.

- Harris Walton fixtures for attachment of safety harness.
- Full internal handrailing.
- Supplied complete with multi-leg chain slings.
- Complies with AS1418.
- Manufactured in Australia.

Why Maxirig?

Established in 2005, Maxirig set out to create the highest quality equipment to meet the demands of the lifting and rigging industry and to comply with Government standards. Today, Maxirig supplies customers in the mining, construction, manufacturing and oil & gas industries throughout Australia and New Zealand with the highest quality products, ranging from telescopic spreader bars to work boxes.

Designed to Meet the Toughest Australian and New Zealand Standards

All Maxirig equipment is designed and manufactured in Australia. Each product is designed by Maxirig engineers to meet the toughest Australian and New Zealand Standards then carefully manufactured by a fully qualified team of welders, boiler makers and commercial painters. Throughout the process each product is fully tested to ensure it performs to its maximum ability.

Maxirig

Single Person Work Box – with Roof	Two Person Work Box	Two Person Work Box – with Roof
		
Product Code: 10972114* Model No.: AMC1013-R WLL: 125kg Weight: 125kg Dim. (LWH): 600 x 600 x 2,300	Product Code: 10972120* Model No.: BMC1025 WLL: 250kg Weight: 250kg Dim. (LWH): 1,200 x 750 x 1,155	Product Code: 10972124* Model No.: BMC1025-R WLL: 250kg Weight: 300kg Dim. (LWH): 1,200 x 750 x 2,300

* Available on indent from Australia.



• For a comprehensive data sheet on your required model contact your local Cookes branch, Freephone 0508 274 366 or email customerservices@bridoncookes.co.nz for further information.



• Never exceed manufacturer's Working Load Limit (WLL).



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MATERIALS HANDLING
EQUIPMENT

WORK BOXES & CAGES

WORK BOXES

Maxirig

Three Person Work Box	Three Person Work Box – with Roof
	
<p>Product Code: 10972130*</p> <p>Model No.: CMC1035</p> <p>WLL: 350kg</p> <p>Weight: 350kg</p> <p>Dim. (LWH): 1,200 x 1,200 x 1,155</p>	<p>Product Code: 10972134*</p> <p>Model No.: CMC1035-R</p> <p>WLL: 250kg</p> <p>Weight: 390kg</p> <p>Dim. (LWH): 1,200 x 1,200 x 2,300</p>

* Available on indent from Australia.

Three Person Crane Suspended Work Cage	Three Person Crane Suspended Rescue Cage
	
<p>Product Code: 10972140*</p> <p>Model No.: CMC2035</p> <p>WLL: 300kg</p> <p>Weight: 1,300kg</p> <p>Dim. (LWH): 2,000 x 1,000 x 1,155</p>	<p>Product Code: 10972142*</p> <p>Model No.: DMC2050</p> <p>WLL: 375kg</p> <p>Weight: 1,750kg</p> <p>Dim. (LWH): 2,450 x 1,250 x 1,155</p>

* Available on indent from Australia.

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MATERIALS HANDLING
EQUIPMENT



• For a comprehensive data sheet on your required model contact your local Cookes branch, Freephone 0508 274 366 or email customerservices@bridoncookes.co.nz for further information.



• Never exceed manufacturer's Working Load Limit (WLL).

WORK BOXES & CAGES

GOODS CAGES

Maxirig

Tool Cage	Brick Pallet Lifting Cage
	
<p>Product Code: 10972165* Model No.: GCG3025 WLL: 250kg Weight: 30kg Dim. (LWH): 600 x 600 x 600</p>	<p>Product Code: 10972192* Model No.: BPL1200 WLL: 2,000kg Weight: 200kg Dim. (LWH): 1,356 x 1,356 x 1,205</p>

* Available on indent from Australia.

Goods Cage	Goods Cage – with Door
	
<p>Product Code: 10972184* Model No.: GCG2202 WLL: 2,000kg Weight: 135kg Dim. (LWH): 1,170 x 1,170 x 990</p>	<p>Product Code: 10972167* Model No.: GCG2201 WLL: 2,000kg Weight: 255kg Dim. (LWH): 1,400 x 1,400 x 1,385</p>

* Available on indent from Australia.



• For a comprehensive data sheet on your required model contact your local Cookes branch, Freephone 0508 274 366 or email customerservices@bridoncookes.co.nz for further information.



• Never exceed manufacturer's Working Load Limit (WLL).
 • Cages on this page are not designed for lifting of personnel.

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MATERIALS HANDLING
EQUIPMENT

PALLET LIFTING EQUIPMENT

PALLET LIFTING BARS

Maxirig Pallet Lifting Bars

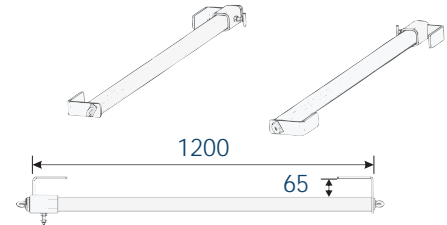
Maxirig

Product Code	Maxirig Item No.	WLL	Length	Net Weight
		kg	mm	kg / Set of 4
10972190*	PLB1020	2,000	1,240	36

* Available on indent.

These high quality lifting bars are designed to lift standard pallets via multi-leg chain slings.

- Complies with AS4991.
- Fitted with sliding keepers to ensure stability under load.
- Supplied with Proof Load Certificate and MPI Welding Report.
- Manufactured in Australia.



• Never exceed manufacturer's Working Load Limit (WLL).

BULK BAG LIFTING EQUIPMENT

BULK BAG LIFTING FRAME

Maxirig Bulk Bag Lifting Frame

Maxirig

Product Code	Maxirig Item No.	WLL – 2 Loop Bag	WLL – 4 Loop Bag	Dimensions	Net Weight
		kg	kg	L x W (mm)	kg
10972242*	BLF1200	1,000	2,000	1,200 x 1,200	30

* Available on indent.

With a 2,000kg Working Load Limit, the Maxirig Bulk Bag Lifting Frame is a high quality unit that provides an efficient means of handling a variety of bulk bags by overhead crane.

- Complies with AS4991.
- Supplied with Proof Load Certificate and MPI Welding Report.
- Manufactured in Australia.

Designed for use with either: 2.0 tonne x 4 loop bulk bags or
1.0 tonne x 2 loop bulk bags.



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MATERIALS HANDLING
EQUIPMENT



• Never exceed manufacturer's Working Load Limit (WLL).

LOAD SKATES & ROLLERS

LOAD SKATES & ROLLERS

Pacific Load Rollers – PLR Series



Product Code	Pacific Hoist Item No.	Rated Capacity (t) each	Type	Plate Size	Overall Roller Size	Wheels		Net Weight
				W x L (mm)	W x L x H (mm)	No.	D x W (mm)	kg
10100350	PLR020	2	Fixed	95 x 260	115 x 270 x 110	2	82 x 100	7.5
10100360	PLR040	4	Fixed	190 x 260	230 x 270 x 110	4	82 x 100	17
10100365	PLR045	4	Swivel	180 x 115	250 x 310 x 110	4	82 x 100	16
10100370	PLR060	6	Fixed	285 x 260	345 x 270 x 110	6	82 x 100	25
10100375	PLR065	6	Swivel	220 x 395	560 x 395 x 110	8	82 x 100	50
10100380	PLR120	12	Fixed	230 x 270	400 x 345 x 145	8	115 x 60	26
10100390	PLR245	24	Swivel	Ø 270	1,120 x 415 x 145	16	115 x 60	160

Load Rollers are designed for moving heavy loads across flat surfaces.

The nylon wheels provide added protection to flooring and with the option between swivel or fixed operation, this product is suited for many applications.

Features include:

- Available in capacities varying from 2 to 24 tonne.
- Nylon wheels with sealed bearings for increased durability.
- Non-slip rubber grip surfaces prevent load movement.
- High visibility colours for safety purposes.
- Low overall height for easy positioning under loads.
- No axles, bearings, or other closely fitted, wear prone parts.



 • Never exceed the Rated Capacity.

LOAD SKATES & ROLLERS

LOAD SKATES & ROLLERS

Pacific Load Skates – PLS Series



Product Code	Pacific Hoist Item No.	Rated Capacity (t)	Dimension	Track Width	Roller Dia	Number of Rollers	Rollers in Contact	Net Weight
		each / per 4	L x W x H	mm	mm			kg
10838105	LSK005	1.25 / 5.0	169 x 100 x 65	55	20	12	4	3.9
10838110	LSK010	2.5 / 10.0	188 x 100 x 65	55	20	14	5	4.5
10838120	LSK020	5.0 / 20.0	210 x 100 x 65	55	20	16	6	5.0
10838130	LSK030	7.5 / 30.0	210 x 100 x 65	55	20	16	6	5.0
10838150	LSK050	12.5 / 50.0	275 x 140 x 100	72	30	14	6	18.0
10838175	LSK075	18.75 / 75.0	290 x 145 x 100	72	30	14	6	18.0

The Pacific Load Skates are designed to facilitate the moving, positioning or installation of a wide range of loads, including heavy equipment, machinery and bridge structures.

The optional turntable and positioning handle ensure that these load skates are suitable for many applications.

Features include:

- Available in capacities varying from 5 to 75 tonne.
- Optional turntable and positioning handle available for all models.
- High visibility colours for safety purposes.



Optional Turntable & Positioning Handle

Product Code	Pacific Hoist Item No.	Rated Capacity	Height incl. Turntable	Turntable Top Dia.
		t	mm	mm
10838100	LSK120	5 – 30	100	100
10838101*	LSK175	50 – 75	145	150

* Available on indent.



Load skate – Including turntable & positioning handle.



• Never exceed the Rated Capacity.

TROLLEYS & TRUCKS

LIFT TROLLEYS

Manual Lift Trolley – Challenger Series



Product Code	Pacific Hoist Item No.	Rated Capacity	Max. Height x Width	Platform Height		Platform	Lift Height	Net Weight
		kg	mm	Max. (mm)	Min. (mm)	L x W (mm)	mm	kg
10100337	CMS120	400	1,425 x 600	1,200	85	650 x 576	1,115	81
10100338	CMS150	400	1,725 x 600	1,500	85	650 x 576	1,415	91
10100339	CMS170	400	1,925 x 600	1,700	85	650 x 576	1,615	99

The Challenger Manual Lifter Trolley is a high quality, cost effective alternative to forklifts. Ideally suited for unloading skids in warehouses, workshops and smaller working environments, all models are fitted with an overload valve and a slow lowering valve to control speed.

- High quality, heavy duty construction for reliability.
- Supplied with a removable work platform and adjustable fork tynes.
- Top quality, heavy load castors which ensure durability.
- Standard fitted with rear swivel brake wheels to prevent the table from moving during loading and unloading.
- Protective guard and covers.
- Available in a variety of heights to suit each application.

‘Challenger’ products proudly supporting cancer charities in New Zealand.



Electric Lift Trolley – PEL Series



Product Code	Pacific Hoist Item No.	Rated Cap.	Platform Height		Platform	Net Weight
		kg	Max. (mm)	Min. (mm)	L x W (mm)	kg
10100345	PEL150	150	1,540	140	460 x 520	58

The PEL150 Electric Lifter suits a wide variety of applications. From lifting and shifting office supplies or heavy equipment to unloading trucks in a warehouse, this Electric Lifter can do it all with ease.

This diverse product is suited to any job where traditional bend and lift is required and it easily converts into a portable workstation for your convenience.

- Highly manoeuvrable and light weight, perfect for narrow spaces.
- Swivel castors fitted with foot brakes.
- Easy to use up and down switching.
- Industrial wheels for durability.
- Innovative safety inertia device.
- 24V DC operation and fitted with 2 x 12V 7AH batteries.
- 240V AC – 24V DC battery charger supplied as standard.



• Never exceed the Rated Capacity.

TROLLEYS & TRUCKS

LIFT TROLLEYS

Manual Scissor Lift Trolley – PST Series



Product Code	Pacific Hoist Item No.	Rated Capacity	Lift Height	Plate Size	Net Weight
		kg	mm	Length x Width (mm)	kg
10100815*	PST150	150	730	700 x 450	37
10100830*	PST300	300	900	850 x 500	74
10100835	PST350	350	1,300	910 x 500	108
10100850*	PST500	500	900	850 x 500	84
10100899	PST990	1,000	1,000	1,200 x 610	165

* With collapsible handle.

Designed to significantly reduce the risk of back injuries by making lifting and shifting of loads up to 1,000kg light work.

A foot operated hydraulic pedal ensures the load can be raised with ease and the ergonomic lever control will turn lowering the load into a safe operation.

- Foot operated hydraulic pedal ensures the load can be raised with ease.
- Ergonomic lever control ensures lowering the load is achieved safely.
- Toe guards on all wheels and fitted metal knee guard.
- Hydraulic valving system ensures loads lower slowly and in a controlled manner.



PST Series Lifter Trolleys are perfect for the lifting and manoeuvring of cartons and other items in small warehousing facilities. The lifter trolley will increase productivity and significantly reduce the risk of injuries.



• Never exceed the Rated Capacity.

TROLLEYS & TRUCKS

HAND PALLET TRUCK

Challenger Pallet Truck – CPT Series

Pacific Hoists

Product Code	Pacific Hoist Item No.	Rated Cap.	Fork		Height		Net Weight
		kg	Length (mm)	Width (mm)	Min. (mm)	Max. (mm)	kg
10100330	CPT200	2,000	1,145	540	61	170	60
10100335	CPT250	2,500	1,220	685	75	190	90

The Challenger Pallet Truck offers a cost effective alternative to fork lifts. The articulating axle provides easier handling and control on uneven floor surfaces.

- Hardened and chromium plated piston and ram, along with top of stroke and overload bypass valve.
- Nylon steer wheels with double sealed bearings for quiet operation and long life.
- The flow-regulating valve enables controlled speed with or without load.
- Ergonomically designed handle with fingertip control.
- Special lowering valve allows control of descent rate.

'Challenger' products proudly supporting cancer charities in New Zealand.



Stainless Steel Pallet Truck – DF20SS Series

Pacific Hoists

Product Code	Pacific Hoist Item No.	Rated Cap.	Fork		Height		Net Weight
		kg	Length (mm)	Width (mm)	Min. (mm)	Max. (mm)	kg
10100305SS*	DF20SS	2,000	1,150	685	75	190	75

* Available on indent

The DF20SS Stainless Steel Pallet Truck is perfect for use in the food industry or in wet areas. The unique design features hardened and chromium plated piston and ram, along with top of stroke and overload bypass valve. The articulating axle provides easier handling and control on uneven floor surfaces.

- Polyurethane over aluminium steer wheels with double sealed bearings for quiet operation and long life.
- The flow-regulating valve enables controlled speed with or without load.
- Large rubber covered handle with fingertip control.
- Special lowering valve allows control of descent rate.



• The CPT Series Pallet Trucks in bright pink are easily sighted – excellent in high traffic areas such as transport yards and truck loading docks.



• Never exceed the Rated Capacity.

SPRING BALANCERS

SPRING BALANCERS & RETRACTORS

Retractors: Designed to retreat the cable when no force is applied. An amount of downward pressure is required to keep the suspended object at its extended position.

Spring Balancers: Allow the operator to move a suspended tool up or down with minimal effort. The tool remains almost weightless during use. An adjustment can be made that allows the tool to remain in position or to retract when tool is released.

Ratchet Lock Feature: An automatic arresting mechanism is available in some models. It allows setting retraction stops to keep the load suspended at predefined positions. The stops are automatically activated if the tool is moved back slowly. If pushed back fast, the mechanism remains inactive.

Light Duty Kromer Retractors – 7211 & 7212 Series

Pacific Hoists

Product Code	Model #	Capacity	Travel	Ratchet Lock	Net Weight
		kg	m		kg
02538006	7211 – 1 – 8	0.5 – 2.0	2.5	No	0.8
02538007	7211 – 2 – 8	1.5 – 3.0	2.5	No	0.8
02538007RL	7212 – 2 – 8	1.5 – 3.0	2.5	Yes	0.9



The use of special plastics for the housing and cable drum combined with a special spring material make these retractors perfect aids at the workbench.

- Housing cover manufactured from sheet steel.
- High strength steel cable.
- Adjustable cable stop buffer.
- Spring hook for tool attachment.
- 7212 model with automatic ratchet lock.
- Manufactured in Germany.



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MATERIALS HANDLING EQUIPMENT

Light Duty Kromer Retractors – 5200 & 7200 Series

Pacific Hoists

Product Code	Model #	Capacity	Travel	Ratchet Lock	Net Weight
		kg	m		kg
02538004	5200 – 1	0.5 – 1.2	2.0	No	0.6
02538010	5200 – 2	1.0 – 2.0	2.0	No	0.6
02538025	7200 – 1 – 8	0.3 – 1.5	1.6	No	0.5

Light duty retractors suitable for tools weighing up to 2kg.

- Abrasion resistant plastic housing.
- 5200 Series with high strength polyamide cable.
- 7200 Series with high strength steel cable.
- Resilient stop buffer.
- Lightweight spring hook for tool attachment.
- Manufactured in Germany.



- Never exceed the Rated Capacity.
- Always use a secondary support on over-head mounted balancers.

7200 Model

SPRING BALANCERS

SPRING BALANCERS & RETRACTORS

Medium Duty Kromer Retractors – 7221 & 7222 Series

Pacific Hoists

Product Code	Model #	Capacity	Travel	Ratchet Lock	Net Weight
		kg	m		kg
02538005	7221 – 1 – 8	2.0 – 5.0	3.0	No	3.3
02538018	7221 – 2 – 8	4.0 – 8.0	3.0	No	3.7
02538027	7221 – 4 – 8	10.0 – 14.0	3.0	No	3.9
02538029RL	7222 – 33	3.0 – 5.0	3.0	Yes	3.5
02538012RL	7222 – 2	4.0 – 6.0	2.0	Yes	3.8
02538013RL	7222 – 3	6.0 – 8.0	2.0	Yes	3.8
02538026RL	7222 – 4	8.0 – 10.0	2.0	Yes	4.0



These retractors are designed for continuous operation. Their smooth retraction and longer cable reach ensure they meet the exacting needs of everyday use.

- Impact and abrasion resistant plastic housing.
- Housing cover manufactured from sheet steel.
- High strength steel cable.
- Adjustable cable stop buffer.
- Screw type spring hook for tool attachment.
- Safety expansion chain as a separate added fall prevention advice.
- 7222 Series with automatic ratchet lock.
- Manufactured in Germany.



Medium Duty Kromer Balancer – 7230 & 7231 Series

Pacific Hoists

Product Code	Model #	Capacity	Travel	Ratchet Lock	Net Weight
		kg	m		kg
02538014	7230 – 4 – 8	9.0 – 14.0	2.0	No	3.4
02538015	7230 – 5	13.0 – 17.0	2.0	No	3.6
02538016	7230 – 6	16.0 – 21.0	2.0	No	3.8
02538014RL	7231 – 4	9.0 – 14.0	2.0	Yes	3.6
02538015RL	7231 – 5	13.0 – 17.0	2.0	Yes	3.8
02538016RL	7231 – 6	16.0 – 21.0	2.0	Yes	4.0



Lightweight rugged construction designed for constant, everyday use. A proven, reliable piece of equipment which comes into its own in manipulating medium weight loads.

- Impact and abrasion resistant plastic throughout.
- High strength steel cable with length adjustment.
- Adjustable cable stop buffer.
- Swivel type safety hook for tool attachment.
- Safety expansion chain as a separate added fall prevention device.
- 7231 Series with automatic ratchet lock.
- Manufactured in Germany.



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MATERIALS HANDLING
EQUIPMENT



- Never exceed the Rated Capacity.
- Always use a secondary support on over-head mounted balancers.

SPRING BALANCERS

SPRING BALANCERS & RETRACTORS

Medium Duty, High Load Kromer Balancers – 7235 Series **Pacific Hoists**

Product Code	Model #	Capacity	Travel	Ratchet Lock	Net Weight
		kg	m		kg
02538021	7235 – 1	15.0 – 25.0	2.0	No	7.80
02538022	7235 – 2	25.0 – 35.0	2.0	No	8.90
02538023	7235 – 3	35.0 – 45.0	2.0	No	9.50
02538024	7235 – 4	45.0 – 55.0	2.0	No	9.75



An advanced version of the 7230 Series balancers designed for higher load ranges.

- Rigid high strength, sand-cast aluminium housing and cable drum.
- High strength steel cable with length adjustment.
- Adjustable cable stop buffer.
- Swivel type safety hook for tool attachment.
- Safety expansion chain as a separate added fall prevention device.
- Manufactured in Germany.



Light Duty Aero-Motive® Retractors

Pacific Hoists

Product Code	Model #	Capacity	Travel	Ratchet Lock	Net Weight
		kg	m		kg
02538205	RB – 4	0.9 – 1.8	1.6	No	0.4
02538210	RF – 6	1.8 – 2.7	2.0	No	0.2

Pacific's Aero-Motive® Retractors allow workers to move suspended tools or objects up or down with very little effort. These ergonomic retractors reduce operator fatigue and repetitive motion stress. Retractors eliminate pick-up and lay-down wear of tool and prevent accidental tool dropping.

General features include:

- Heavy duty, long life spring for lasting performance.
- Easy tension adjustment with no tools required.
- Full range of motion with 360° swivel hanger.
- Quick installation.
- Alignment of hanger and tool hook for smooth, efficient use.



RB-4 Model

RF-6 Model



RB-4 Model (02538205)

- Durable nylon cord for long life and reduced maintenance.
- Convenient snap-type tool clip for easy tool handling.

RF-6 Model (02538210)

- Durable nylon covered steel cable for consistent service and easy maintenance.
- Simplified tool attachment and removal with convenient snap-type tool clip.



- Never exceed the Rated Capacity.
- Always use a secondary support on over-head mounted balancers.





CONCRETE LIFTING SYSTEMS

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INTRODUCTION

UNICON UNILIFT CONCRETE LIFTING SYSTEMS FOR THE PRECAST INDUSTRY

Unilift is the ideal lifting and handling system for a wide variety of precast concrete products, particularly in civil engineering applications.

- Standardised load range groups of 1.3, 2.5, 5, 10, 20 and 32 tonnes Working Load Limit.
- Fast, efficient handling of products in the factory, during transport and on the job-site.
- Components of different load groups are not interchangeable for maximum safety.



Ancon[®]
BUILDING PRODUCTS



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CONCRETE LIFTING
SYSTEMS

COOKES – helping lift New Zealand business for over 100 years!
a BRIDON • BEKAERT Pöpsis Group Brand

CONCRETE LIFTING SYSTEMS

LIFTING CLUTCHES

LOCKING KLAWS

Safer, faster, lighter, stronger clutches for all spherical head lifting anchors.

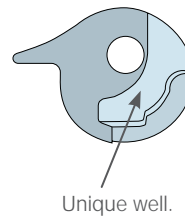
These clutches are used for lifting a wide range of precast concrete products for building and civil engineering including panels, pipes, pits, manholes, box culverts, road barriers, bridge beams, planks, sound walls, culverts etc.

They meet the requirements of AS3850 and are compatible and interchangeable with standard clutches for 1.3t to 32t WLL anchor systems. Locking Klaws improve safety, performance and flexibility in all situations.

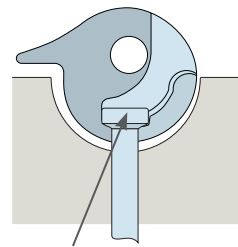


CENTRILOK

- Unique 'well' in the curved lifting lips locates the anchor in its optimum, central position at the rear of the slot!
- Under load, the Klaw locks and resists rotation toward the disconnected position, locking the 'tail'.
- The side of the well traps the anchor head and locks the Klaw at its position of maximum strength and safety.
- Safe for use in hanger applications (upside down).
- The locked Klaw protects against dangerous disconnections where there is a risk of fouling, a common problem when lowering precast drainage products in confined spaces (e.g. lowering products into trenches or past formwork).



Unique well.



Anchor in central position at rear of slot.

TAPERWALL

- Reinforced side walls. The unique 'tapered cantilever' increases the strength when turning and side lifting.
- Lighter but stronger – more efficient metal distribution.
- Higher WLLs for 1LK and 2LK compensates for sling angles.
- Designed to fit spherical and 'reduced' recesses.

FLUSHTAIL

- Tail has clearance to the concrete surface.
- Less concrete damage when lifting toward the tail.

COMPACT-8

- Lightweight and efficient figure-8 chain link design.
- Additional clearance when side lifting.
- Round links do not damage lifting hooks, links etc.



- Never exceed manufacturer's Working Load Limit (WLL).
- Ensure you have read and understood the 'Unilift Locking Klaw Concrete Lifting Systems Design Guide'. Contact your nearest Cookes branch for a free copy.

CONCRETE LIFTING SYSTEMS

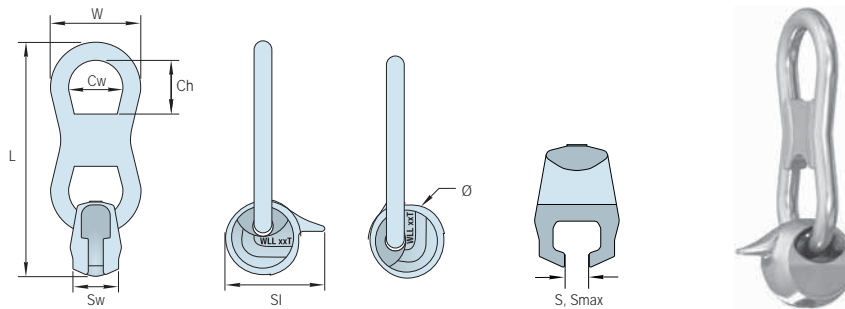
LIFTING CLUTCHES

Locking Claws



Product Code	Ancon Item No.	Dimensions (mm)								
		L	W	Ch	Cw	Sw	Sl	Ø	S	S max
09106002	1LK	170	66	44	40	33	72	56	11	13
09106003	2LK	215	85	59	52	42	88	68	16	18
09106005	5LK	270	110	62	70	57	113	88	22	25
09106010	10LK	365	145	83	90	73	144	112	31	32
09106020	20LK	515	210	103	130	110	195	152	43	46
09106032*	32LC	680	272	189	172	160	300	180	52	58
09106005RR	05LKRR	5 Tonne Remote Release – ideal for tilt-up construction.								

* Model 32LC is Halfen DEHA brand.



Unilift Locking Claw.

These strong, safe, lightweight clutches suit all spherical head lifting anchors. They protect against dangerous disconnection where there is a risk of fouling which is a common problem when lowering precast drainage products in confined spaces such as trenches.

A higher Working Load Limit for 1LK and 2LK Claws compensates for sling angles as shown in the table below.

- Standardised load range groups of 1.3, 2.5, 5, 10, 20 and 32 tonnes Working Load Limit.
- Fast, efficient handling of products in the factory, during transport and on the job-site.
- Components of different load groups are not interchangeable for maximum safety

Locking Claws – Working Load Limit Chart

Product Code	Unicon Item No.	Sling Angle (t)		Nominal Anchor t
		0°	60°	
09106002	1LK	2	1.7	1.3
09106003	2LK	3	2.6	2.5
09106005	5LK	5	4.3	5
09106010	10LK	10	8.6	10
09106020	20LK	20	17.2	20
09106032	32LC	32	27.6	32



• Never exceed manufacturer's Working Load Limit (WLL).

CONCRETE LIFTING SYSTEMS

FOOT ANCHORS

Cone (Foot) Anchors



Product Code	Ancon Item No.	WLL	Dimensions (mm)				Quantity
		t	L	W	Ch	Cw	per Box
09106061	CA01035	1.3	35	19	10	25	200
09106062	CA01045	1.3	45	19	10	25	200
09106063	CA01055	1.3	55	19	10	25	200
09106064	CA01065	1.3	65	19	10	25	200
09106066	CA01085	1.3	85	19	10	25	100
09106068	CA01120	1.3	120	19	10	25	100
09106071	CA01240	1.3	240	19	10	25	50
09106082	CA02055	2.5	55	26	14	35	100
09106084	CA02075	2.5	75	26	14	35	100
09106085	CA02085	2.5	85	26	14	35	50
09106087	CA02120	2.5	120	26	14	35	50
09106089	CA02170	2.5	170	26	14	35	25
09106091	CA02280	2.5	280	26	14	35	25
09106095	CA05075	5.0	75	36	20	50	50
09106097	CA05095	5.0	95	36	20	50	50
09106099	CA05120	5.0	120	36	20	50	25
09106100	CA05150	5.0	150	36	20	50	25
09106101	CA05170	5.0	170	36	20	50	25
09106102	CA05240	5.0	240	36	20	50	20
09106104	CA05340	5.0	340	36	20	50	10
09106107	CA05960	5.0	960	36	20	50	1
09106113	CA10150	10.0	150	47	28	70	10
09106118	CA10340	10.0	340	47	28	70	5
09106121	CA20340	20.0	340	70	39	98	1
09106122	CA20500	20.0	500	70	39	98	1
09106126	CA32700	32.0	700	88	50	135	1
09106127	CA321200	32.0	1,200	88	50	135	1



This classic spherical-headed, forged foot anchors are the first choice for most applications.

- Foot anchors manufactured from hot-dipped galvanised, forged, high impact strength construction steel.
- Genuine Unicon anchors are stamped with an 'U' on the head, as well as the anchor strength WLL and length.



- Never exceed manufacturer's Working Load Limit (WLL).
- Ensure you have read and understood the 'Unilift Locking Klaw Concrete Lifting Systems Design Guide'. Contact your nearest Cookes branch for a free copy.

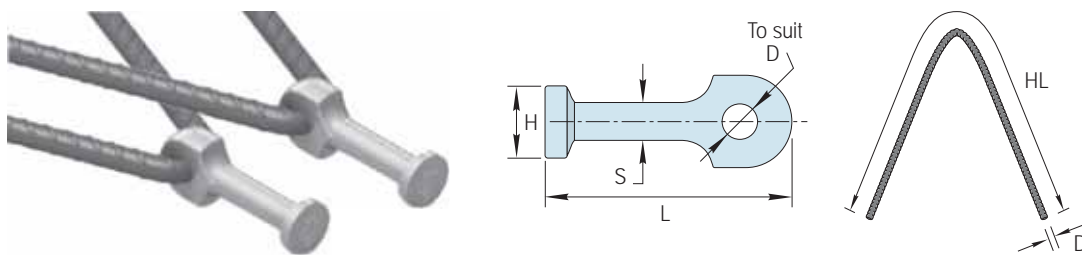
CONCRETE LIFTING SYSTEMS

EYE ANCHORS

Reo (Eye) Anchors



Product Code	Ancon Item No.	WLL	Dimensions (mm)				
		t	L	H	S	D	HL
09106131	RA01050	1.3	50	19	10	R8	700
09106132	RA01065	1.3	65	19	10	R8	700
09106135	RA02065	2.5	65	26	14	N10	870
09106136	RA02090	2.5	90	26	14	N10	870
09106140	RA05120	5.0	120	36	20	N16	1,020
09106145	RA10180	10.0	180	47	28	N20	1,520
09106150	RA20250	20.0	250	70	39	N28	2,760
09106155	RA32300	32.0	300	88	50	N40	5,300



These anchors are used with a hanger bar, also known as a tension bar, where the concrete is too weak for a foot anchor.

Ideal for thin panels and other applications where the concrete shear cone developed by the anchor is insufficient to provide the Working Load Limit of the anchor e.g. low strength concrete. The bar is threaded through the hole in the anchor and embedded deep in the concrete.

- Manufactured from hot-dipped galvanised, forged, high impact strength construction steel.
- Stamped with a Unilift 'U', the anchor strength WLL and length.
- The cut hanger / tension bar lengths given in the table are suitable for 15MPa concrete to AS 3600 60mm cover.

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CONCRETE LIFTING SYSTEMS



- Never exceed manufacturer's Working Load Limit (WLL).
- Ensure you have read and understood the 'Unilift Locking Klaw Concrete Lifting Systems Design Guide'. Contact your nearest Cookes branch for a free copy.

CONCRETE LIFTING SYSTEMS

RECESS FORMERS

These products are used to accurately and reliably set the anchor into its recess in the concrete panel. Recess formers are non-interchangeable between load groups to minimise errors and are available in a variety of types to meet the demands of different applications.

Semi-Spherical Rubber Recess Formers



Product Code	Ancon Item No.	WLL	Diameter
		t	Ømm
09106160	RRF01	1.3	60
09106161	RRF02	2.5	74
09106162	RRF05	5.0	94
09106163	RRF10	10.0	118
09106164	RRF20	20.0	160
09106165	RRF32	32.0	214



Recess formers attach anchors to steel and timber forms or floats. Manufactured from a hard, oil resistant rubber, yet provide adequate flexibility for easy removal to expose the anchor head.

Steel Recess Formers with Retaining Rings

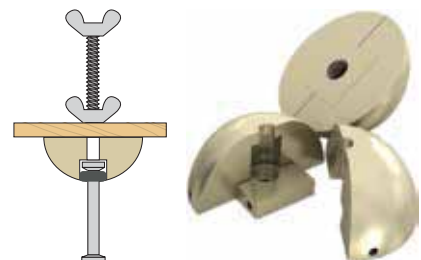
Product Code		Ancon Item No.		WLL	Diameter
Recess	Rubber Ring	Recess	Rubber Ring	t	Ømm
09106167	09106176	SRF01	RR01	1.3	60
09106168	09106177	SRF02	RR02	2.5	74
09106169	09106178	SRF05	RR05	5.0	94



Featuring a replaceable rubber retaining ring, these steel recess formers offer a long service life and are an economical alternative to rubber recesses for production precasting.

Articulating Steel Recess Formers


Product Code	Ancon Item No.	WLL	Diameter
		t	Ømm
09106170	SRF01A	1.3	60
09106171	SRF02A	2.5	74
09106172	SRF05A	5.0	94




Similar in action to the semi-spherical rubber recess, but are manufactured from steel, offering a long service life for production precasting.

?

Also available:
Special products to meet individual applications are available on request.



Plastic recess
One-trip recess.



Colletted Steel Recess
Rigid anchor connection for severe conditions e.g. pipemaking.

• Never exceed manufacturer's Working Load Limit (WLL).

CONCRETE LIFTING SYSTEMS

FERRULES & CHAIRS

Ferrules provide a metric thread fixing point in precast concrete panels. Chairs simplify installation, keeping the unit stable during casting.

Cookes supplies a range of reliable Unicon footed ferrules suitable for a wide range of concrete connections.



They are available in thread sizes from M12 to M24 in either zinc plated, hot dip galvanized or stainless steel as shown below.



QwikFoot Ferrules

Ancon

Product Code		Ancon Item No.		Internal Thread	Length mm	Nominal Embed Depth § (mm)	Tying Crossbar ⊗
Zinc	Galvanised	Zinc	Galvanised				
09106181	—	FF1250Z	—	M12	50	55	R10
09106182	09106213	FF1270Z	FF1270G	M12	70	75	R10
09106184	09106215	FF1670Z	FF1670G	M16	70	75	R10
09106201	09106217	FF2070ZH	FF2070G	M20	70	75	N12
09106183	09106214	FF1296Z	FF1296G	M12	96	100	R10
09106192	09106216	FF1696ZH	FF1696G	M16	96	100	N12
09106202	09106218	FF2096ZH	FF2096G	M20	96	100	N12
09106211	09106220	FF2496Z	FF2496G	M24	96	100	N12

Product Code	Ancon Item No.	Internal Thread	Length mm	Nominal Embed Depth § (mm)	Tying Crossbar ⊗
09106192SS	FF1696S316	M16	96	100	N12
09106202SS	FF2096S316	M20	96	100	N12

QwikFoot ferrules feature a cross-hole to allow them to be tied-in to reinforcement to prevent movement, with some ferrules featuring a 15mm diameter cross-hole for N12 bar as shown above.

Crossbars are not required to develop the full anchor capacity.

Bolt Diameter	Bolt Capacity	
	Grade	
	4.6 φs. Nts	8.8 φs. Nts
M12	27.0	56.0
M16	50.2	104.2
M20	78.4	162.7
M24	113.0	234.4



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CONCRETE LIFTING SYSTEMS

FERRULES & CHAIRS

QwikFix Round Ferrules



Product Code	Ancon Item No.	Internal Thread	Length	Design Tension Cap.	Tying Crossbar
			mm	kN ($\varphi_s \cdot N_{ts}$)	
09106221*	FER1296Z	M12	96	86	N12
09106223**	FER1676Z	M16	76	86	N12
09106224**	FER1696Z	M16	96	86	N12
09106227**	FER2076Z	M20	76	86	N12
09106229**	FER2096Z	M20	96	86	N12



* Also available in hot dip galvanised finish. ** Also available in hot dip galvanised and stainless steel finish.

QwikFix Round Ferrules have a standard 28mm diameter body and are available in an M12, M16 and M20 thread size. They are passivated zinc as standard. No welding is required to gain full anchorage. The cross-hole is 15mm diameter to accept N12 reinforcement.

QwikFix Double Ended Ferrules

Product Code	Ancon Item No.	Internal Thread	Length	Design Tension Cap.	Tying Crossbar
			mm	kN ($\varphi_s \cdot N_{ts}$)	
09106271	FERD16140Z	M16	140	86	N12
09106272	FERD16170Z	M16	170	86	N12
09106273	FERD16190Z	M16	190	86	N12
09106276	FERD20140Z	M20	140	86	N12
09106277	FERD20165Z	M20	165	86	N12
09106278	FERD20170Z	M20	170	86	N12
09106279	FERD20190Z	M20	190	86	N12



Double ended ferrules provide a fixing point on both faces of the panel. They are manufactured from zinc coated 350 grade alloy steel and available with an M16 or M20 thread size to suit a variety of panel widths. The cross-hole and outside diameter is similar to the round ferrule range.

Bolt Capacities

QwikFix ferrules develop the full shear capacity of a Grade 8.8 bolt when located 250mm from a panel edge in concrete with a compressive strength of 32MPa.

Internal Thread	Tension Capacity		Shear Capacity	
	Grade 4.6	Grade 8.8	$\varphi_s \cdot V_s = 0.62 f_y$	$\varphi_s \cdot V_s = 0.62 f_y$
	$\varphi_s \cdot N_{ts}$ kN	$\varphi_s \cdot N_{ts}$ kN	kN (AS4100)	kN (AS4100)
M12	27.0	56.0	16.7	26.8
M16	50.2	104.2	31.1	49.8
M20	78.4	162.7	48.6	77.8



N_{ts} : Nominal tensile strength of the anchor controlled by concrete cone failure.

φ_c : 0.6 strength reduction factor for concrete: refer AS3600 table 2.3 (j).

CONCRETE LIFTING SYSTEMS

FERRULES & CHAIRS

T-Fixx Stainless Steel Footed Ferrules



Product Code	Ancon Item No.	Internal Thread	Length (mm)		Design Capacity	
			Product	Max Screw-in	20 MPa (kN)	45 MPa (kN)
09106290	TFIX1050S316	M10	50	30	5.2	7.8
09106291	TFIX1270S316	M12	70	36	10.3	15.4
09106292	TFIX1680S316	M16	80	48	13.4	19.9
09106293	TFIX20100S316	M20	100	60	22.0	26.9



Calculation value of normal force in plain concrete without limitation of close spacing or edge distances.

The performance of the T-Fixx is higher than a traditional ferrule. The unique head shape provides an improved resistance to pull-out.

Precast Chairs

Product Code	Ancon Item No.	Size
		mm
09106252	PC125	125
09106253	PC145	145
09106254	PC150	150
09106255	PC170	170
09106256	PC175	175
09106257	PC180	180
09106258	PC195	195
09106259	PC200	200

Super Chairs

Product Code	Ancon Item No.	Size
		mm
09106281	SC125150	125 / 150
09106282	SC150175	150 / 175
09106283	SC175200	175 / 200

QwikFix round ferrules will click easily into above Super Chairs.



Precast Chair



Super Chair

Qwikfoot ferrules are suitable for use with the above Precast Chairs.

Super Chair – Accessories

Product Code	Ancon Item No.	Description
09106285	SCPLUGS	Plug Short
09106287	SCPLUGL	Plug Long
09106289	SCDOWEL	Dowel 85mm



Plug and Dowel



- Never exceed manufacturer's Working Load Limit (WLL).
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CONCRETE LIFTING SYSTEMS

TILT-UP SITE CAST LIFTING SYSTEMS

QwikTilt Face Lift Anchor Sets



Product Code	Ancon Item No.	Panel Thickness mm	Anchor Length mm	Embed Depth mm	Min Edge Distance mm	Minimum Spacing mm	Anchor Working Load Limit WLL _c = φR _{uc} / 2.5 Tonne Force			
							15 MPa	20 MPa	25 MPa	32 MPa
09106261	FLA05100	100	75	90	270	540	2.1	2.4	2.7	3.1
09106262	FLA05125	125	95	110	330	660	2.8	3.3	3.6	4.1
09106263	FLA05150	150	120	135	405	810	4.4	5.0	5.0	5.0
09106264	FLA05170	170	120	135	405	810	4.4	5.0	5.0	5.0
09106265	FLA05175	175	120	135	405	810	4.4	5.0	5.0	5.0
09106567	FLA05200	200	150	165	495	990	5.0	5.0	5.0	5.0
09106268	FLA05250	250	150	165	495	990	5.0	5.0	5.0	5.0

QWIKTILT FACE LIFT ANCHOR SETS

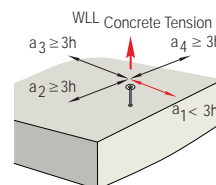
These systems use the forged steel Unilift 5 tonne anchor and can be used with the remote release 5 tonne QwikTilt Klaw (09106005RR) for maximum efficiency on site.

- The anchor is housed in a robust plastic chair with four stable legs and several tie-in points on the ring to prevent movement during casting.
- There is no requirement for a cross bar.
- Available to suit the most popular panel thickness i.e. 125, 150, 170, 175, 200, 250mm. Units to suit other panel thicknesses are available on request.



Ancon EdgeLift Systems

Product Code	Ancon Item No.	Anchor Type	Length
		t	mm
09106269	ELA05240	5	240
09106270	ELA05340	5	340



i Performance data is based on anchors placed at least three times the anchor length from any edge or opening and six times the anchor length between anchors.
 • Where conditions do not meet these requirements performance will be reduced. Please contact Cookes for more information or consult the Unilift Design Guide.

! Never exceed manufacturer's Working Load Limit (WLL).
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CONCRETE LIFTING SYSTEMS

EDJPRO LIFTING SYSTEMS INTRODUCTION

Edge-Lifting Systems for Factory-Cast Panels

The EdjPro system was specifically developed to eliminate cracking and spalling around edge anchors. It is ideal for lifting thin factory-cast panels where a high finish is required, typically visible and exterior walls.

Use of the EdjPro system will ensure that the panels remain in their perfect factory-cast condition, avoiding remedial work and lowering overall costs.



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CONCRETE LIFTING SYSTEMS



Perfect Panels

- No Cracks!
- No Spalls!
- No Patching!



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CONCRETE LIFTING SYSTEMS

EDJPRO CLUTCHES

EdjPro Clutches



Product Code	Ancon Item No.	WLL	Dimensions (mm)						
		t	H	W	NW	WT	L	Ø T	A
09106030	EPLC05	4.8	220	70	64	27.5	20	80	60
09106033	EPLC10	10.0	340	110	100	50.0	28	145	85

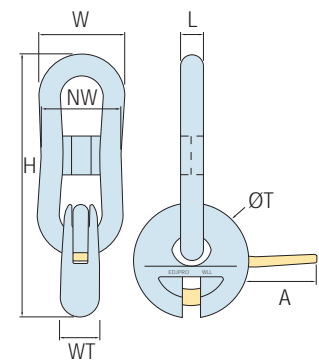


EdjPro Clutches – Remote Release Models

Product Code	Ancon Item No.	WLL	Dimensions (mm)						
			H	W	NW	WT	L	Ø T	A
09106030RR	EPLC05RR	4.8	220	70	64	27.5	20	80	60
09106033RR	EPLC10RR	10.0	340	110	100	50.0	28	145	85

Complies with AS 3850. The clutch is designed to provide clearance between the figure-8 link and the concrete at all sling angles to protect against edge contact cracking.

Disengagement is only possible when the load is relaxed ensuring safety when lifting and lowering.



EdjPro Torus Clutches



Product Code	Ancon Item No.	WLL	Description	Remote Release
		t		
09106034	EPLT10H	10.0	10T Torus Head	No
09106034RR	EPLT10HRR	10.0	10T Torus Head RR	Yes



Complies with AS 3850. Designed without lifting link for use with 20mm G80 Connector (Product Code: 02459019). Please refer to page <OV>.

EdjPro EzyTurn Clutches

Product Code	Ancon Item No.	WLL	Description	Remote Release
		t		
09106036	EPETC10	10.0	10T EzyTurn Clutch	No



Complies with AS 3850. The EzyTurn clutch has an extended handle and is the ideal solution for use in shiplap and for insulated panels where the position of the anchor could not be reached by a standard EdjPro clutch.



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CONCRETE LIFTING SYSTEMS

EDJPRO ANCHORS

EdjPro Anchors



Product Code	Ancon Item No.	WLL	Dimensions (mm)	
		t	Nominal Length	Head Width
09106045	EPA03	3.0	200	40
09106050	EPA08	8.5	250	78
09106051	EPA09	9.5	250	78



The EdjPro anchor has a rubber plug in the lifting hole which prevents the ingress of cement during casting and a keyhole shaped aperture to accept a supplementary reinforcing bar.



No concrete in the hole!

The head shape is self-centring with the clutch for rapid connection. The legs are shaped providing maximum anchorage without overstressing surrounding concrete.

EdjPro Recess Formers

Product Code	Ancon Item No.	Compatible Anchor	Dimensions (mm)		
			Length	Head Width	Depth
09106044	EPRF04	09106040 / 09106046	89	50	42
09106054	EPRF10	09106050 / 09106051	185	90	69



This Recess Former is used to accurately and reliably set the anchor into the concrete product. The EdjPro Recess Former is wider, has stabilising frontal lugs which fit into the keyhole of the anchor and is internally shaped with locations for the rubber plug.



Sides of the recess provide clearance between the edges of the anchor and the concrete, preventing damage from bearing pressure and protecting the fragile panel edge.



- Use EdjPro systems in accordance with recommendations.
- Do not modify any lifting components by welding or other means.
- For performance and safety, specify genuine EdjPro components.



- Never exceed manufacturer's Working Load Limit (WLL).
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ROUND LINK CHAIN DRIVE SYSTEM

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ROUND LINK CHAIN DRIVE SYSTEMS

Cookes is proud to introduce to New Zealand the innovative RUD TECDOS® Omega Drive concept. These units offer quiet, reliable performance long after rack and pinion drives, spindle drives or roller chains have given up.

RUD Omega Drive is resistant to ice, dirt, rain and aggressive environments. This round link chain drive concept has proven itself in many applications right around the world.

RUD Omega Drive is the solution for moving ship cranes, tracking solar panels to the sun, or simply traversing a machine.

The tough drive for any environment!

RUD TECDOS® Omega Drive suits horizontal, vertical and rotational applications.



Applications

Industrial, maritime and maintenance applications requiring horizontal / vertical movements or rotation. TECDOS® Omega is the drive solution of choice – providing safe, rated and reliable performance in a matched system.



ROUND LINK CHAIN DRIVE SYSTEMS

OLD PROBLEMS



Disadvantages of Roller Chain

- A corroded chain will cause blocking.
- Restricted to use in one plane only.
- No storage of loose chain possible.



Disadvantages of Rack and Pinion or Gear Rim

- Labour costs associated with the replacement of wear element rack or gear rim.
- Material can accumulate within gaps between teeth risking blocking or jamming.
- Potential temperature differentials necessitate an expansion joint.
- High tooth contact pressure.



Disadvantages of Wire Rope

- The requirement of large radius idler wheels.
- Large space requirements to accommodate storage drum.
- Damage when operated in two planes.
- Low resistance to heat.
- Potential for injuries should a breakage occur (whiplash effect).
- Traction only possible at extremities of wire rope.



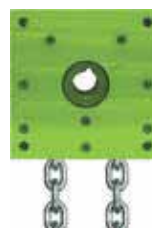
Disadvantages of Hydraulic Cylinders

- Buckling.
- Operation in rough environments will increase maintenance costs.
- Large space requirements.
- Not suitable for use in high temperature environments.

SOLUTIONS



Omega Drive



Pi Drive



Gamma Drive

ROUND LINK CHAIN DRIVE SYSTEMS

APPLICATIONS

From an individual element to a complete system, Rud TECDOS® offers solutions for practically every conveyor & drive challenge.

TECDOS® – reliable complete system solutions from a single source for the first time. Whether you have to lift, move, telescope, convey or push, TECDOS® will solve every drive challenge.



TECDOS® Conveyor Technology for transport of packaged goods and bulk materials.



TECDOS® Drives and Drive Systems for maritime applications.



TECDOS® Drives for moving.



TECDOS® Drives for lifting.

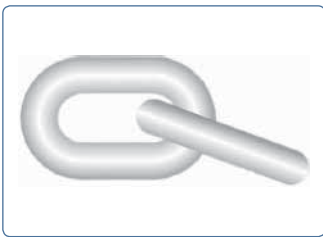
ROUND LINK CHAIN DRIVE SYSTEMS

TECDOS® OMEGA DRIVE

RUD TECDOS® Omega Drive



Size	WLL	Dimensions (mm)			Weight
	kN	Height	Length	Depth	kg
Omega 6*	6	157	219	147	20
Omega 12*	12	219	305	184	46
Omega 25*	25	293	407	236	104
Omega 43*	43	376	524	303	216
Omega 65*	65	468	649	320	333
Omega 43 TWIN*	86	416	523	355	250
Omega 140*	140	685	953	444	991
Omega 260*	260	920	1,293	547	2,163
Omega 260 TWIN*	520	920	1,293	671	2,575



Available Chain Lengths

Chain	WLL kN	Approx. Weight kg/m	Chain Length (mm)										Maximum Length (m)		
			10m		20m		30m		50m		variable		Medium	Premium	
			Medium	Premium	Medium	Premium	Medium	Premium	Medium	Premium	Medium	Premium			
TEC 6	6	0.59	✓	✓	✓	✓	✓	✓	✓	✓	✓	—	—	200	200
TEC 12	12	1.13	✓	✓	✓	✓	✓	✓	✓	✓	✓	—	—	150	150
TEC 25	25	2.24	✓	✓	✓	✓	✓	✓	✓	✓	✓	—	—	100	100
TEC 43	43	3.80	✓	✓	✓	✓	✓	✓	✓	✓	✓	—	—	100	100
TEC 65	65	5.70	—	—	—	—	—	—	—	—	—	✓	✓	100	80
TEC 140	140	12.30	—	—	—	—	—	—	—	—	—	✓	✓	75	45
TEC 260	260	22.60	—	—	—	—	—	—	—	—	—	✓	—	35	—

* Available on indent.



Chain Corrosion-Protective Coating

Surface	Short description of the surface coating
Electrolytic galvanised	Electrolytic metal deposition (6-10µm)

Other chain qualities, surfaces and dimensions available on request for special projects.

ROUND LINK CHAIN DRIVE SYSTEMS

POCKET WHEELS

TECDOS® Wheels



RUD Item No.	Chain	Pockets	PCD mm	Dimensions (mm)			Max. Bore Ø w/ Key Way	Key Ways
		No.		B	D	F		No.
7905327*	Tec 6	6	58.4	45	25	63.5	28	1
7905328*	Tec 12	6	82.3	70	40	89.5	41	1
7905329*	Tec 25	6	108.0	100	50	118.0	52	1
7905330*	Tec 43	6	139.2	120	70	152.0	70	1
7905331*	Tec 65	6	174.5	150	90	190.5	90	1
7905332*	Tec 140	6	256.2	200	130	279.5	132	2**
7905333*	Tec 260	6	347.8	250	180	379.5	184	2**

* Available on indent.

** Key way displaced by 120°



TECDOS® – Pocket Wheels:

Rust and acid-resistant drive and guide wheels are also available on request.

The bore and hub design can be supplied according to customer request. In case of spline connection please indicate respective DIN standard.

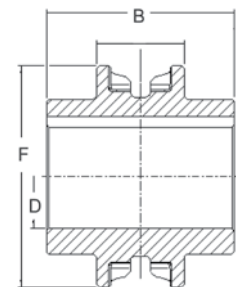
Select a shaft-hub assembly strong enough to bear the forces it will have to withstand.

All TECDOS® pocket wheels are ready machined and casehardened.



TECDOS® – Especially Advantageous:

- Under severe environmental conditions.
- When infrequent or frequent use is required.
- When exposed to the weather.
- In offshore or maritime applications.
- In underwater applications.
- When three-dimensional mobility is needed.
- When high forces have to be transmitted with limited space.
- When the traction mechanism requires optimal storage capacity.



ROUND LINK CHAIN DRIVE SYSTEMS

CHAIN GUIDES

Chain Guides – Milled



RUD Item No.	Chain	Pocket	Drawing
			No.
7906322*	TEC 6	6	—
7906186*	TEC 12	6	H04636
7902719*	TEC 25	6	H04738
7902294*	TEC 43	6	H04673
7902289*	TEC 65	6	H04635
7902320*	TEC 140	6	H04677
7902038*	TEC 260	6	H04618



* Available on indent.

- Designed for heavy duty applications.
- Manufactured in Germany.

Chain Guides – Laser Profiled



RUD Item No.	Chain	Pocket	Drawing
			No.
8504484*	TEC 6	6	H04600
8504465*	TEC 12	6	H04588
8503920*	TEC 25	6	H04540



* Available on indent.

- Designed for chains with lighter loading.
- Manufactured in Germany.

?

TECDOS® Chain Guides Are Used:

- Under most severe environmental conditions and when one chain strand is not loaded.
- The chain is prone to jumping over the sprocket wheel.
- A smooth running of the chain over the sprocket wheel is required.

Two Different Executions:

- The milled TECDOS® chain guide is used for heavy duty applications.
- The lasercut TECDOS® chain guide is used for chains incurring lighter loading.

The selection of the chain guide depends on the application and the operation environment. Please contact your local Cookes team for advice.



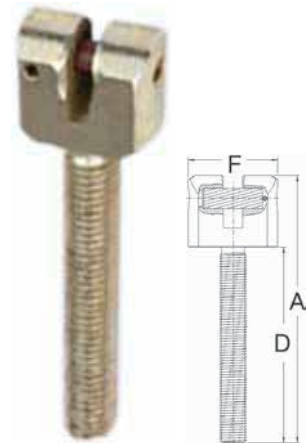
ROUND LINK CHAIN DRIVE SYSTEMS

END FASTENERS

TECDOS® End Fastener



RUD Item No.	Chain	Size	WLL	Dimensions (mm)		
			kN	A	D	F
7996526*	TEC 6	HEBG-M12	7.2	103	79	32
7993561*	TEC 12	HEBG-M16	13.3	139	107	42
7997341*	TEC 25	HEBG-M24	27.2	198	155	56
7997329*	TEC 43	HEBG-M30	43.3	249	195	70
7997326*	TEC 65	HEBG-M36	65.6	303	237	82
7997385*	TEC 140	HEBG-M42	141.0	388	293	116
7997420*	TEC 260	HEBG-M48	262.0	482	353	160



* Available on indent.

TECDOS® end fasteners are length-adjustable fixing points for connecting TECDOS® heavy-duty chains to machines, structural elements and devices.



TEAMWORK THAT WORKS!

Utilising their highest quality German manufactured round link chain, RUD can design and fabricate an Omega tough drive to suit most applications.

Cookes and RUD Australia have shared a unique partnership for many years, and together we can solve your drive problems.

For further information, or to arrange to speak directly with a RUD engineer, make contact with your local Cookes branch.

Freephone us today 0508 274 36 or email customerservices@bridoncookes.co.nz



- The design of the attachment point must be specified so that the applied initiated forces can be borne safely by the fixing part. The end-fixing must be fitted so that a force passes into the component along the longitudinal axis. A lateral load causing bending stress in the chain or the end fastener is not allowed. During assembly, end fastener must be aligned so that chain can be fitted without twisting.





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STAINLESS STEEL – LIFTING

STAINLESS STEEL-LIFTING & STAINLESS STEEL-COMMERCIAL


What is the difference?

With the proliferation of stainless steel chain and fittings now available on the market, it can be daunting to establish which items are suitable for industrial lifting applications.

Many products are not suitable for lifting applications even though Safe Working Load, Working Load Limit, or Minimum Breaking Load figures may be indicated. They may even have test certificates available.

There are certain characteristics that will identify a product suitable for lifting applications. This guide is provided to help keep you safe through making informed purchasing decisions.

Essential when sourcing stainless steel products for lifting applications

- A reputable product manufacturer.
- A supplier with lifting equipment knowledge and experience.
- Products that are marked with a Working Load Limit (WLL) or Safe Working Load (SWL).
- Additional identification markings on the product which clearly trace back to a manufacturer's test certificate.
- A copy of the manufacturer's test certificate is able to be supplied upon request.
- A supplier with the ability to tag certified lifting products and issue a corresponding Conformance Certificate.
- Cookes stainless steel products that are certified for lifting applications show a  in this section.

Strongly recommended when sourcing stainless steel products for non-lifting applications where some loading will be applied

- A reputable product manufacturer.
- A supplier with the experience to assist in making the correct product choice.
- Manufacturer's test certificates are available on request to provide Minimum Breaking Load (MBL) information.
- A minimum 4:1 design factor from MWL (Maximum Working Load) to MBL (Minimum Breaking Load). *Refer MWL explanation below.

-
- MWL: Maximum Working Loads are for guidance only in selection of product with sufficient strength for intended application.



- Cookes stainless steel products that are not suitable for lifting applications, but carry Maximum Working Load (MWL) information, feature in the 'Stainless Steel-Commercial' section of this catalogue.

STAINLESS STEEL – LIFTING

CORROSION RESISTANCE TABLE

Corrosion Resistance Table for Stainless Steel AISI 316

Substance	Resistance	Substance	Resistance
Acetic Acid <20%	S	Hydrogen Cyanide 100%	L
Ammonia (100%)	S	Hydrogen Peroxide <35%	S
Ammonium Chloride <1%	S	Hydrogen Sulphide 100%	S
Ammonium Nitrate 10% – 50%	S	Mineral Oil	S
Ammonium Sulphate <10%	L	Nitric Acid <10%	S
Benzene	S	Potassium Sulphate <10%	S
Calcium Hypochlorite (100%)	U	Sodium Chloride <5%	S
Citric Acid <10%	S	Sodium Hypochlorite <20%	L
Copper Sulphate <10%	S	Sodium Nitrate 10% – 40%	S
Ethanol	S	Sodium Sulphate <10%	S
Gasoline	S	Zinc Chloride <10%	S
Hydrochloric Acid (all concentrations)	U	Zinc Sulphate <10%	S

Table courtesy of Excel, France, a division of Van Beest NL

Corrosion Resistance Table for Stainless Steel AISI 316

The corrosion resistance table for stainless steel is provided as a guide only and should not be considered as a substitute for testing under specific conditions.

Abbreviations used

- S = Satisfactory, no or very little corrosion.
- L = Limited resistance, exposure time must be limited, some corrosion might occur.
- U = Unsatisfactory, not suitable for use.

STAINLESS STEEL – LIFTING

CHAIN SLING WORKING LOAD LIMITS (WLL)

The Uniform Method for Rating Stainless Steel Chain Slings

Lifting Mode	1 Leg Sling	2 Leg Sling		3 & 4 Leg Sling		Endless Sling
Chain Ø	Factor 1.0	Factor 1.4	Factor 1.0	Factor 2.1	Factor 1.5	Factor 1.6
mm	90°	0° < β ≤ 45°	45° < β ≤ 60°	0° < β ≤ 45°	45° < β ≤ 60°	
6.00	0.70	1.00	0.70	1.47	1.05	1.12
8.00	1.20	1.70	1.20	2.50	1.80	1.92
10.00	1.60	2.25	1.60	3.36	2.40	2.56
13.00	2.70	3.80	2.70	5.70	4.05	4.32

WORKING LOAD LIMITS IN TONNES FOR STAINLESS STEEL CHAIN SLINGS

The Working Load Limits (WLL) listed in the table above are the maximum weights which slings are designed to sustain in General Lifting Service according to the standard uniform load method of rating.

General Purpose Chain Slings must always be rated by the Uniform Method. Under this method, four-leg chain slings have the same WLL rating as three-leg slings based on an assumption that at least one leg of a four-leg sling may not be accepting its full share of the load.

In exceptionally hazardous conditions or in any other circumstances which might indicate a need for WLL lower than the designated figure, the degree of hazard should be assessed by a competent person and a Safe Working Load (SWL) determined.



• When slings are used in a choke hitch or grab hooks fitted as bottom hooks, the WLL must be reduced by 20%.



- Never exceed manufacturer's Working Load Limit (WLL).
- Never use stainless steel chain and components for lifting unless you have tagged and certified sling assemblies from a reputable supplier.

STAINLESS STEEL – LIFTING

CHAIN & CONNECTORS

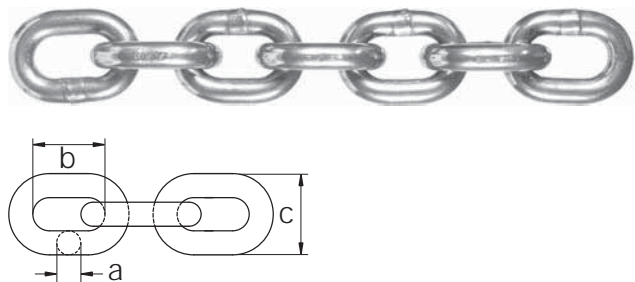
Stainless Steel Lifting Chain

EXCEL[®]

Product Code	Excel Item No.	WLL	Dimensions (mm)			Links	Weight
		t	Ø a	b	c	per Meter	per Meter
02479006	CHAIN6I	0.7	6	18	21	55.56	0.78
02479008	CHAIN8I	1.2	8	24	29	41.67	1.30
02479010	CHAIN10I	1.6	10	30	34	33.33	2.14
02479013	CHAIN13I	2.7	13	39	45	25.64	3.64

Stainless Steel Lifting Chain. Polished finish.

- AISI316L material.
- Tested and certified.
- 4:1 design factor.
- Manufactured in France.



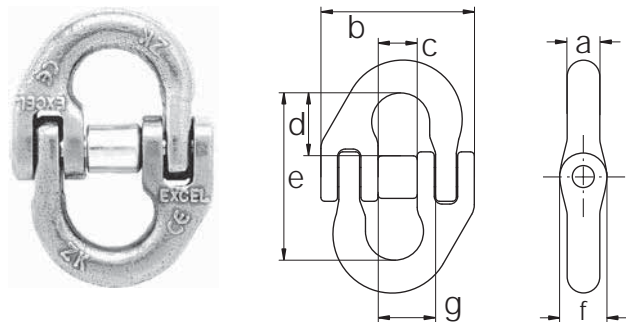
Stainless Steel Connecting Links

EXCEL[®]

Product Code	Excel Item No.	WLL	For Chain	Dimensions (mm)							Weight
		t	Ømm	Ø a	b	c	d	e	f	g	kg
02481106	MJ6I	0.7	6	8	43	11	14	45	11	16	0.10
02481108	MJ7/8I	1.2	7 – 8	9	52	14	18	55	14	20	0.16
02481110	MJ10I	1.6	10	13	70	16	25	73	18	25	0.36
02481113	MJ13I	2.7	13	18	85	19	32	92	25	28	0.73

Stainless Steel Connectors. Polished finish.

- AISI316L material.
- 4:1 design factor.
- Manufactured in France.



i • For stainless steel lifting chain sling WLL chart refer page 538.

! • Never exceed manufacturer's Working Load Limit (WLL).

STAINLESS STEEL – LIFTING

MASTER LINKS & MULTI LINKS

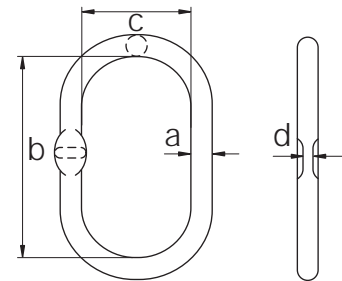
Stainless Steel Master Links for 1 & 2-Leg Slings

EXCEL[®]

Product Code	Excel Item No.	WLL	Ø 1 Leg	Ø Chain 2 Legs (mm)		Dimensions (mm)				Weight
		t	mm	$\beta \leq 45^\circ$	$\beta \leq 60^\circ$	a	b	c	d	kg
02480006	MS13I	0.75	6	—	6	13	110	60	6	0.34
02480008	MS16I	1.25	8	6	8	16	110	60	6	0.53
02480010	MS18I	2.00	10	8	10	18	135	75	8	0.82
02480013	MS22I	3.20	13	10	13	22	160	90	10	1.45
02480016	MS26I	5.00	16	13	16	26	180	100	14	2.29

Stainless Steel Master Links. Polished finish.

- AISI316L material.
- Tested and certified.
- 4:1 design factor.
- Manufactured in France.



APPROVED FOR LIFTING

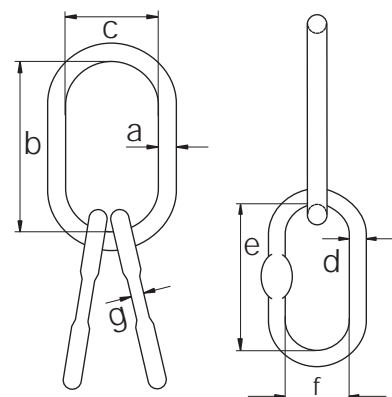
Stainless Steel Multi Oblong Links for 3 & 4-Leg Slings

EXCEL[®]

Product Code	Excel Item No.	WLL	3/4 Legs	Dimensions (mm)							Weight
		t	Ømm	Ø a	b	c	d	e	f	g	kg
02480106	MTS18I	1.60	6	18	135	75	13	54	25	6	1.17
02480108	MTS22I	2.65	8	22	160	90	16	70	34	8	2.17
02480110	MTS26I	4.25	10	26	180	100	18	85	40	8	3.34
02480113	MTS32I	6.70	13	32	200	110	22	115	50	13	5.99

Stainless Steel Multi Oblong Links. Polished finish.

- AISI316L material.
- Tested and certified.
- 4:1 design factor.
- Manufactured in France.



APPROVED FOR LIFTING



• For stainless steel lifting chain sling WLL chart refer page 538.



• Never exceed manufacturer's Working Load Limit (WLL).

STAINLESS STEEL – LIFTING

SLING HOOKS

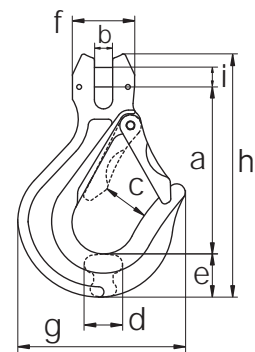
Stainless Steel Clevis Sling Hooks

EXCEL[®]

Product Code	Excel Item No.	WLL	For Chain	Dimensions (mm)									Weight
		t	Ømm	a	b	c	d	e	f	g	h	Ø i	kg
02483006	CSC6I	0.7	6	76	7	25	15	19	27	73	108	8	0.29
02483008	CSC7/8I	1.2	8	95	9	28	20	22	32	85	133	9	0.55
02483010	CSC10I	1.6	10	113	11	28	24	28	41	106	164	13	0.97
02483013	CSC13I	2.7	13	138	15	38	32	40	52	133	208	16	1.86

Stainless Steel Clevis Sling Hook c/w Safety Catch.

- Polished finish.
- AISI316L material.
- Tested and certified.
- 4:1 design factor.
- Manufactured in France.



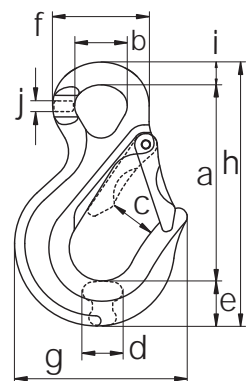
Stainless Steel Eye Sling Hooks

EXCEL[®]

Product Code	Excel Item No.	WLL	For Chain	Dimensions (mm)										Weight
		t	Ømm	a	Ø b	c	d	e	Ø f	g	h	i	j	kg
02483106	CSO6I	0.7	6	86	23	27	15	19	43	73	115	10	7	0.28
02483108	CSO7/8I	1.2	8	102	26	27	19	23	51	87	137	13	8	0.56
02483110	CSO10I	1.6	10	121	35	28	23	29	66	106	165	15	11	1.02
02483113	CSO13I	2.7	13	155	41	33	31	36	76	136	208	19	14	1.77

Stainless Steel Eye Type Sling Hooks c/w Safety Catch.

- Polished finish.
- AISI316L material.
- Tested and certified.
- 4:1 design factor.
- Manufactured in France.



• For stainless steel lifting chain sling WLL chart refer page 538.



• Never exceed manufacturer's Working Load Limit (WLL).

STAINLESS STEEL – LIFTING

GRAB HOOKS

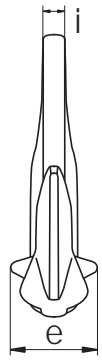
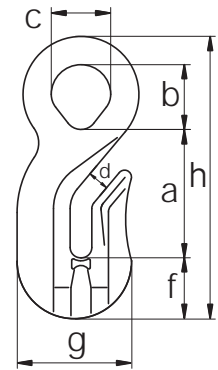
Stainless Steel Eye Grab Hooks

EXCEL[®]

Product Code	Excel Item No.	WLL	For Chain	Dimensions (mm)									Weight
		t	Ømm	a	b	c	d	e	f	g	h	i	kg
02483208	CRO7/8I	1.2	7 – 8	52	20	20	10	33	23	46	108	8	0.32
02483210	CRO10I	1.6	10	53	29	29	12	41	28	58	123	10	0.53
02483213	CRO13I	2.7	13	89	43	39	15	56	40	78	192	18	1.64

Stainless Steel Eye Grab Hook. No reduction in WLL when used as a shortening hook.

- Polished finish.
- AISI316L material.
- Tested and certified.
- 4:1 design factor.
- Manufactured in France.



- Where grab hooks are fitted as bottom hooks or chain is choked, the sling WLL must be derated by 20%.
- For stainless steel lifting chain sling WLL chart refer page 538.



- Never exceed manufacturer's Working Load Limit (WLL).

STAINLESS STEEL – LIFTING

EYE BOLTS & EYE NUTS

Stainless Steel Eye Bolts – with Longer Thread

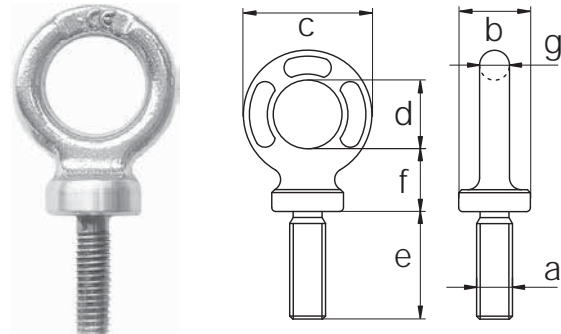
EXCEL®

Product Code	Excel Item No.	WLL *	Dimensions (mm)							Weight
		t	a	b	c	d	e	f	g	kg
02487010	AL10I	0.4	M10 x 1.50	20	38	22	30	19	8	0.08
02487012	AL12I	0.6	M12 x 1.75	25	47	26	36	23	10	0.14
02487016	AL16I	1.0	M16 x 2.00	36	65	35	55	30	14	0.37
02487020	AL20I	2.0	M20 x 2.50	40	73	39	59	34	16	0.58
02487024	AL24I	3.0	M24 x 3.00	55	95	54	84	40	20	1.12

* WLL applicable when angle of use is limited to 30° from the axis.

Stainless Steel Eye Bolt. Longer thread length than DIN580 eye bolts (refer column e).

- Polished finish.
- AISI316L material.
- Tested and certified.
- 5:1 design factor.
- Manufactured in France.



Stainless Steel Eye Nuts

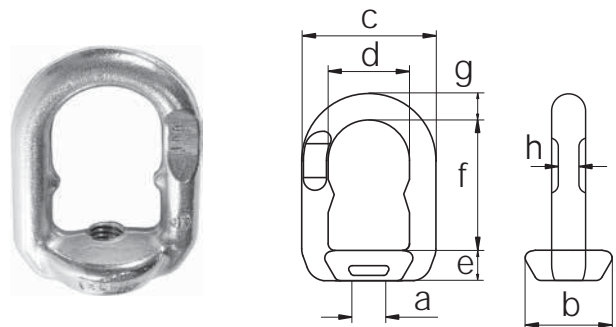
EXCEL®

Product Code	Excel Item No.	WLL *	Dimensions (mm)								Weight
		t	a	b	c	d	e	f	g	h	kg
02486010	EL10I	0.4	M10 x 1.50	31	51	30	14	44	11	6	0.15
02486012	EL12I	0.6	M12 x 1.75	39	56	32	15	48	12	7	0.23
02486016	EL16I	1.0	M16 x 2.00	44	66	37	17	60	14	9	0.37
02486020	EL20I	2.0	M20 x 2.50	44	66	37	17	60	14	9	0.37
02486024	EL24I	3.0	M24 x 3.00	52	81	48	21	75	17	11	0.63

* WLL applicable when angle of use is limited to 30° from the axis.

Stainless Steel Eye Nut. Polished finish.

- AISI316L material.
- Tested and certified.
- 5:1 design factor.
- Manufactured in France.



⚠️ • Never exceed manufacturer's Working Load Limit (WLL).
 • Never exceed WLL. Any angle of use beyond 30° from the axis will decrease the WLL substantially.
 • Always inspect eye bolts and eye nuts before use.

STAINLESS STEEL – LIFTING

STARPOINT EYE BOLTS

Stainless Steel Eye Bolt – Multi-Directional Loading



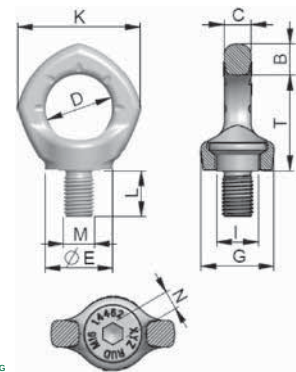
Product Code	RUD Item No.	WLL t	Dimensions (mm)											N. W. kg
			B	T	C	D	E	G	I	K	L	M	N	
09104552*	Inox Star M12	0.5	14	43	10	30	30	32	20	56	18	12	8	0.2
09104554*	Inox Star M16	1.0	16	50	14	35	35.5	38	23.5	65	24	16	10	0.3
09104556*	Inox Star M20	2.0	19	57	16	40	41	46.5	29	74	30	20	12	0.5
09104558*	Inox Star M24	2.5	24	70	19	48	50	56	35	92	36	24	14	0.9

* Available on indent.

The INOX-STAR Eye Bolt offers a functional, compact innovative design. The range is 100% electro-magnetic crack tested and it's pentagonal shape makes it significantly different to the DIN 580 eyebolt.

Manufactured from stainless steel – 50% higher loading than DIN with no directional restrictions.

- 100% electro-magnetic crack detection tested.
- Turns through 360°. Can be set in the direction of the load.
- 4 :1 design factor.
- Forged eye body and screw with captive, mounted bolt.
- Pentagon shape is clearly distinguishable from other eye bolts.
- Manufactured in Germany.



VRM Working Load Limits – G in Tonnes

Lifting Mode		Single Leg		2, 3 or 4 Legs		
					60°	90°
Product Code	RUD Item No.					
09104552	Inox Star M12	1.2	0.5	0.87	0.71	0.5
09104554	Inox Star M16	2.4	1.0	1.7	1.4	1.0
09104556	Inox Star M20	3.6	2.0	3.5	2.8	2.0
09104558	Inox Star M24	5.2	2.5	4.3	3.5	2.5



RUD Item No.	Torque
Inox Star M12	25 Nm
Inox Star M16	60 Nm
Inox Star M20	115 Nm
Inox Star M24	190 Nm

• CAD drawings available upon request.

• For permanent installation tighten to torque specified in the table above.
• For a temporary assembly, hand tightening with an allen key is sufficient.

• Never exceed manufacturer's Working Load Limit (WLL).
• Always inspect lifting points carefully before each use!

STAINLESS STEEL – LIFTING

WELD-ON LIFTING EYE

Stainless Steel Load Rings – LBS-RS

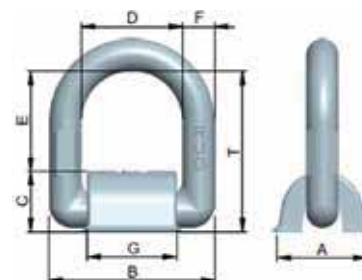


Product Code	RUD Item No.	WLL t	Dimensions (mm)									Net Weight kg
			A	B	C	D	E	Ø F	G	H	T	
09104191* ⁽¹⁾	LBS-RS 0.5	0.5	32	65	36	25	39	13.5	33	69	64	0.3
09104192* ⁽¹⁾	LBS-RS 1	1.0	42	85	50	31	50	16.5	46	87	81	0.6
09104193*	LBS-RS 2	2.0	61	110	65	44	72	22.5	60	125	116	1.6

* Available on indent. (1) Without spring.

Stainless steel load ring for welding. Manufactured from material 1.4571 (stainless steel). The chemical resistance and resistance against pitting by chloride media has been increased due to the Mo content.

- Incorporates a 180° pivoting action for multi position loading.
- In it's welded condition is resistant against intercrystalline corrosion, when being used in permanent operation, up to 400°C.
- The material 1.4571 is widely used in the chemical, petroleum, coal-tar, chemistry and textile industries.
- Manufactured in Germany.



Distance lugs for root weld.



LBS-RS Working Load Limits – G in Tonnes

Lifting Mode		Single Leg		2, 3 or 4 Legs		
Product Code	RUD Item No.			60°	90°	120°
09104191	LBS-RS 0.5	0.5	0.5	0.86	0.70	0.5
09104192	LBS-RS 1	1.0	1.0	1.70	1.40	1.0
09104193	LBS-RS 2	2.0	2.0	3.50	2.80	2.0



- Welding instructions supplied.
- CAD drawings available upon request.



- Never exceed manufacturer's Working Load Limit (WLL).
- Always inspect lifting points carefully before each use!

STAINLESS STEEL – LIFTING

SCREW PIN DEE SHACKLES

Stainless Steel Dee Shackles



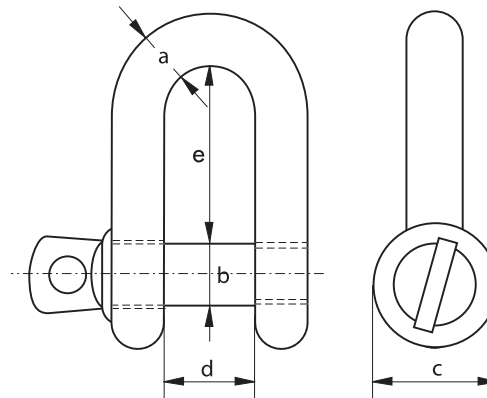
Product Code	WLL	Dimensions (mm)					Weight
	t	a	b	c	d	e	100pcs/kg
02321006	0.15	6	6	12	12	24	2.4
02321008	0.30	8	8	16	16	32	5.6
02321010	0.40	10	10	20	20	40	13.0
02321012	0.60	12	12	24	24	48	20.0
02321016	1.00	16	16	32	32	64	48.0
02321019	1.50	20	20	40	40	80	84.0
02321022	2.00	22	22	44	44	88	127.0



Van Beest
Item #: R-7821

In general accordance with DIN82102.

- AISI316 Material.
- Polished finish.
- Tested and certified.
- 6:1 design factor.
- Marked with WLL.
- Manufactured in The Netherlands.



• Cookes recommend certified, corrosion resistant Van Beest Stainless Steel Shackles for industrial lifting applications.



• Never exceed manufacturer's Working Load Limit (WLL).

STAINLESS STEEL – LIFTING

SAFETY PIN BOW SHACKLES

Stainless Steel Bow Shackles

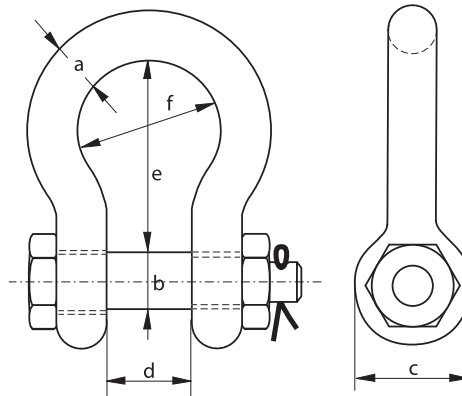


Product Code	WLL	Dimensions (mm)						Weight
	t	a	b	c	d	e	f	100pcs/kg
02324008	0.3	8	8	16	16	32	24	7.2
02324010	0.4	10	10	19	20	40	30	13.4
02324012	0.6	12	12	24	25	49	36	23.0
02324016	1.0	16	16	31	32	64	48	56.6
02324019	1.5	19	19	38	38	80	60	95.2
02324022	2.0	22	22	43	44	85	66	146.0
02324025	3.0	25	25	49	50	100	75	218.0



Van Beest
Item #: R-7827

- AISI316 Material.
- Polished finish.
- Tested and certified.
- 6:1 design factor.
- Marked with WLL.
- Manufactured in The Netherlands.



• Cookes recommend certified, corrosion resistant Van Beest Stainless Steel Shackles for industrial lifting applications.



• Never exceed manufacturer's Working Load Limit (WLL).

STAINLESS STEEL – LIFTING

CARE & USE INSTRUCTIONS

All stainless steel items should be inspected before use to ensure that:

- All markings are legible.
- All items are free from nicks, gouges and cracks.
- Items with the correct Working Load Limit have been selected with respect to the sling design i.e. the load to be lifted, the number of legs in the sling, the top angle etc. For further details, refer to EN818, norm for chain slings.
- Items may not be heat treated as this may affect their Working Load Limit.
- Never modify, repair or reshape an item by machining, welding, heating or bending as this may affect the WLL.
- Master links and the other items of the sling are all identifiable as being in stainless steel and for lifting purposes.
- Items should be used for straight in line loading only to avoid bending.
- Items are not distorted or unduly worn.

It is required that products are regularly inspected because the products in use may be affected by wear, misuse, overloading, etc. with a consequence of deformation and alteration of the material structure.

Inspection by a competent person should take place at least every six months and more frequently when the components are used in severe operating conditions.

Additional instructions for lifting eyes

- Lifting eyes should never be side-, tip- or back-loaded.
- Always make sure that the lifting eye is supporting the load correctly.
- Lifting point should be seated correctly in the bowl of the hook.
- Lifting point should be well fixed in the load (same thread, well positioned).

The shank length should be adapted to the material of the load. The shank should be long enough, i.e. 1.5 times the diameter for hard materials and three times for softer materials like aluminum and brass. The length must not be less than 1.5 times the diameter (e.g. M20, minimum length 30mm). For softer material, consider a longer length and through-hole mounting with a nut and washer on the other side. The material to which the lifting point will be attached should be strong enough to withstand lifting forces without any deformation. The lifting point must be adapted to the hook size in order to be positioned correctly in the bowl of the hook.

Assembly

- The bolt thread and the tapped hole in the load must be compatible and both in a good state.
- The depth of the tapping should be at least 20% more than the shank length.
- The surface should be flat and perpendicular to the lifting eye shank providing full contact with the lifting eye.
- When a bolt is screwed on the shank, it must be at least Class 5.
- Never use a sling as a loop between two lifting eyes.
- Consider the centre of gravity of the load to position the lifting eyes (symmetric to the centre)
- The tapping must be positioned at a distance of at least three times the shank diameter from the edge of the load.

For Eye Bolts & Eye Nuts, the angle of use is limited to 30° from the axis.

Beyond 30° the Working Load Limit will decrease drastically.

- The assembly must be hand tightened without any tool or lever.
- The lifting eye should be screwed until the base is flush with the surface of the load.

Chemical Resistance

For guidance refer chemical resistance table on page 537.

STAINLESS STEEL – CERTIFIED

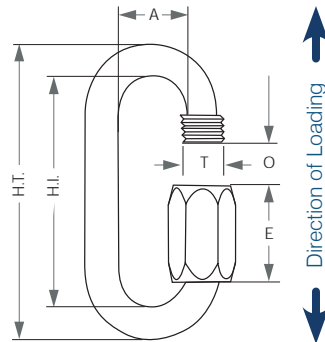
MAILLON RAPIDES®



The Original Maillon Rapide®

Produced in France by the Péguet family business for over 70 years, the Maillon Rapide® Quick Link is best described as a mechanical connector composed of a rod and nut with its design based on the principle of a chain link.

While there are many brands of Quick Links on the market, very few offer the safety features and quality control of a genuine Maillon Rapide®.



Standard Maillon Rapide®

Product Code	Péguet Item No.	WLL	MBL	Ø Size	Dimensions (mm)						Weight
		t	kg	mm	H.T.	H.I.	A	O	E	T	g
09569507	MRNI7.0	0.9	4,500	7	66	52	16.0	8,5	21,5	10	52
09569508	MRNI8.0	1.1	5,500	8	74	58	17,5	11	24.0	11	79
09569510	MRNI10.0	1.8	9,000	10	89	69	20,5	12	29.0	13	141
09569512	MRNI12.0	2.5	12,500	12	104,5	80,5	23,5	15	33.0	15	238
09569514	MRNI14.0	3.5	17,500	14	121	93	26,5	17	38,5	17	374
09569516	MRNI16.0	4.5	22,500	16	140	108	29,5	19	45.0	19	576

Specifications	
Rod	Nut
X2 Cr Ni	Norme / Standard X2 Cr Ni
Mo 17-12-2 (1.4404) AISI 316L	Mo 17-12-2 (1.4404) AISI 316L

Certified for permanent or semi-permanent connections. Extensive quality control procedures through the full manufacturing process.

- Clearly marked with Working Load Limit.
- Design factor 5:1. Non-magnetic.
- AISI316 austenitic stainless steel material.
- Protected from inter-granular corrosion.
- Manufactured in France.



- Never exceed manufacturer's Working Load Limit (WLL).
- Maillon Rapides may only be loaded along the major axis.
- Nut must be fully engaged with no thread showing prior to loading.
- For permanent connections always tighten to adequate torque using a wrench.
- Check all connections on a regular basis.
- When connected to chain the Maillon Rapide Quick Link must be of the same material diameter as the chain.*



- Never connect Maillon Rapide® Quick Links into lifting chain or to a chain hoist.

STAINLESS STEEL – CERTIFIED

MAILLON RAPIDES®

When your **LIFE** depends on it!

Certified For Permanent & Semi-Permanent Connections



Agriculture



Industrial Supplies



Architecture



Military



Climbing & Mountaineering



Parachuting & Paragliding



Entertainment



Professional Fishing



Industrial



Sailing

STAINLESS STEEL – COMMERCIAL

A HIGH QUALITY RANGE OF STAINLESS STEEL CHAIN, RIGGING COMPONENTS & GENERAL HARDWARE LINES FOR NON-CRITICAL APPLICATIONS.



STAINLESS STEEL – COMMERCIAL

STAINLESS STEEL-LIFTING & STAINLESS STEEL-COMMERCIAL


What is the difference?

With the proliferation of stainless steel chain and fittings now available on the market, it can be daunting to establish which items are suitable for industrial lifting applications.

Many products are not suitable for lifting applications even though Safe Working Load, Working Load Limit, or Minimum Breaking Load figures may be indicated. They may even have test certificates available.

There are certain characteristics that will identify a product suitable for lifting applications. This guide is provided to help keep you safe through making informed purchasing decisions.

Essential when sourcing stainless steel products for lifting applications

- A reputable product manufacturer.
- A supplier with lifting equipment knowledge and experience.
- Products that are marked with a Working Load Limit (WLL) or Safe Working Load (SWL).
- Additional identification markings on the product which clearly trace back to a manufacturer's test certificate.
- A copy of the manufacturer's test certificate is able to be supplied upon request.
- A supplier with the ability to tag certified lifting products and issue a corresponding Conformance Certificate.
- Cookes stainless steel products that are certified for lifting applications show a  in this section.

Strongly recommended when sourcing stainless steel products for non-lifting applications where some loading will be applied

- A reputable product manufacturer.
- A supplier with the experience to assist in making the correct product choice.
- Manufacturer's test certificates are available on request to provide Minimum Breaking Load (MBL) information.
- A minimum 4:1 design factor from MWL (Maximum Working Load) to MBL (Minimum Breaking Load). *Refer MWL explanation below.

• MWL: Maximum Working Loads are for guidance only in selection of product with sufficient strength for intended application.



• Cookes stainless steel products that are not suitable for lifting applications, but carry Maximum Working Load (MWL) information, feature in the 'Stainless Steel-Commercial' section of this catalogue.

STAINLESS STEEL – COMMERCIAL

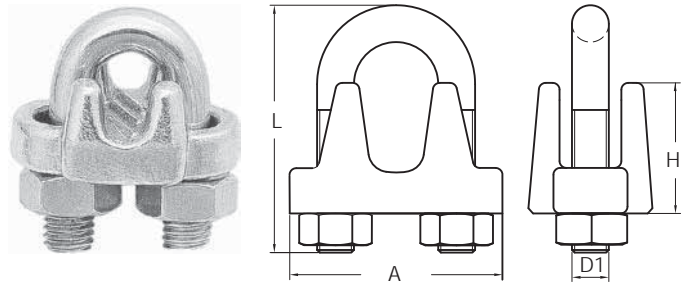
WIRE ROPE GRIPS

Stainless Steel Grips – American Style

Product Code	Suit Rope	Dimensions (inch)			
	Ømm	D1	A	H	L
09568303	3	M6	0.94	0.40	0.85
09568305	5	M6	1.14	0.50	1.20
09568306	6	M8	1.42	0.65	1.35
09568308	8	M10	1.69	0.72	1.75
09568310	10	M12	1.93	0.91	1.95
09568312	12	M12	2.28	1.15	2.45
09568316	16	M14	2.48	1.34	2.95

Stainless Steel Wire Rope Grips – American Style.

- Designed for light duty, non-load bearing applications.
- Grade AISI316 Stainless Steel.
- Polished finish.
- Manufactured in China.

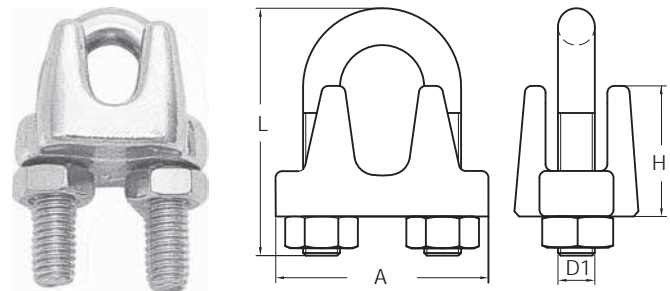


Stainless Steel Wire Rope Grips – Japanese Style

Product Code	Suit Rope	Dimensions (mm)			
	Ømm	D1	A	H	L
09568304	4	M4	19	13	25
09568306L	6	M6	27	17	35.5

Stainless Steel Wire Rope Grips – Japanese Style.

- Designed for light duty, non-load bearing applications.
- Lighter pattern than the American style wire rope grips.
- Grade AISI316 Stainless Steel.
- Polished finish.
- Manufactured in China.



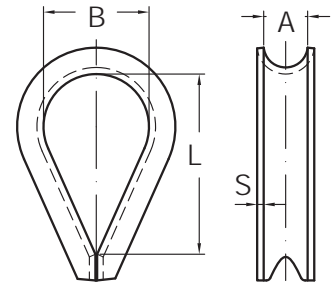
• Stainless Steel Wire Rope Grips must not be used for load bearing applications.

STAINLESS STEEL – COMMERCIAL

WIRE ROPE THIMBLES

Heavy Duty Stainless Steel – U.S. Pattern

Product Code	Suit Rope	Dimensions (mm)			
	Ømm	A	B	L	S
02106603	3	3.5	17.5	33.0	1.2
02106605	5	6.0	19.0	35.5	1.5
02106606	6	7.0	22.0	41.0	2.0
02106608	8	8.5	27.0	48.0	2.0
02106610	10	10.5	29.0	54.0	3.0
02106612	12	13.5	38.0	70.0	3.5
02106616	16	17.0	44.5	82.5	4.0
02106620	20	20.0	51.0	95.0	6.1
02106622	22	24.0	57.0	108.0	6.1
02106625	25	27.0	63.5	114.0	6.1
02106632	32	36.5	89.0	167.0	8.9



These heavy pattern stainless steel thimbles are recommended for use with steel wire rope.

- 3mm manufactured from AISI304 Stainless Steel.
- 5mm & larger manufactured from AISI316 Stainless Steel.
- Grade AISI316 Stainless Steel.
- Polished finish.
- Manufactured in China.



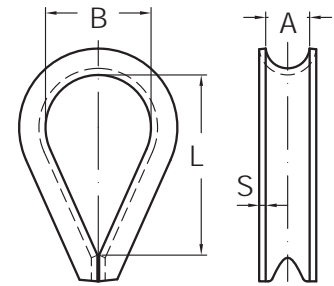
The heavy pattern makes these thimbles suitable for use with stainless steel wire ropes and cordage.

STAINLESS STEEL – COMMERCIAL

LIGHT DUTY THIMBLES

Light Duty Stainless Steel – European Pattern

Product Code	Suit Rope	Dimensions (mm)			
	Ømm	A	B	L	S
02106720	2	2.0	7	12	1.0
02106725	2.5	2.5	8	14	1.0
02106730	3	3.0	10	17	1.0
02106740	4	4.0	11	18	1.0
02106750	5	5.6	13	20	1.2
02106760	6	6.5	15	26	1.2
02106780	8	9.0	18	33	1.5
02106800	10	11.0	23	43	2.0
02106820	12	14.0	27	48	2.0
02106822	14	15.0	34	53	2.5
02106825	16	17.0	38	57	3.0
02106865	18	19.0	40	67	3.0
02106900	20	22.0	45	75	4.0
02106925	24	26.0	56	96	5.0



Light pattern thimble suitable for general purpose applications.

Light Duty Stainless Steel Thimbles are perfect for forming eyelets in small diameter cordage, or for any non-load bearing application where a smaller thimble is preferred.

- AISI316 Stainless Steel.
- Polished finish.
- Manufactured in China.



• The European pattern stainless steel thimbles are lighter and smaller than the U.S. pattern thimbles and are popular for forming eyelets in non-load bearing cordage.

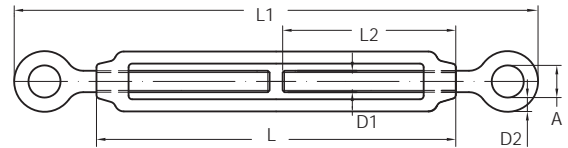
STAINLESS STEEL – COMMERCIAL

TURNBUCKLES

Turnbuckles – Eye & Eye

Product Code	Size	MWL*	Dimensions (mm)				
	D1		L	L1	A	D2	L2
09568505	M5	140	70	115	8	4.4	33
09568506	M6	204	90	145	10	5.3	42
09568508	M8	388	120	195	14	7.1	56
09568510	M10	561	150	240	16	8.9	70
09568512	M12	804	200	310	18	10.8	95
09568513	M16	1,482	250	390	26	14.6	117

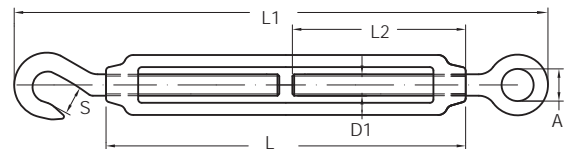
- AISI316 Stainless Steel material.
- Polished finish.
- Design factor 4:1 MWL to MBL.
- Manufactured in China.



Turnbuckles – Hook & Eye

Product Code	Size	MWL*	Dimensions (mm)				
	D1		L	L1	A	S	L2
09568516	M6	69	90	145	10	9	42
09568518	M8	125	120	195	14	12	56
09568520	M10	194	150	240	16	12	70
09568521	M12	288	200	310	18	14	95

- AISI316 Stainless Steel material.
- Polished finish.
- Design factor 4:1 MWL to MBL.
- Manufactured in China.



• MWL: Maximum Working Load (MWL) is shown only to provide guidance in selecting a turnbuckle with sufficient strength for the intended application.



• Not suitable for lifting applications.

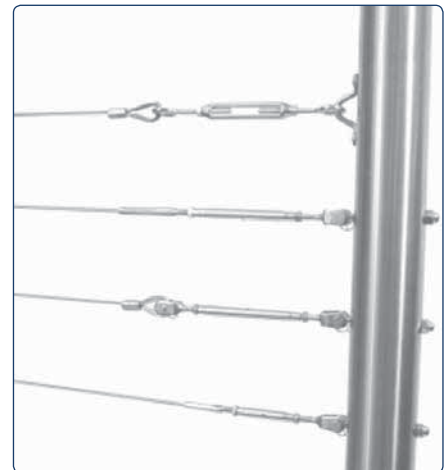
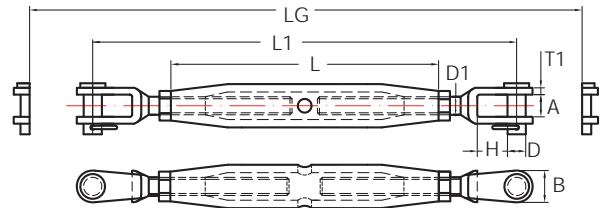
STAINLESS STEEL – COMMERCIAL

RIGGING SCREWS

Rigging Screws – Jaw & Jaw

Product Code	Size	MWL*	Dimensions (mm)							
	D1	kg	L	L1	A	D	H	LG	B	T1
09568545	M5	143	80	130	6.5	5	10	190	13.0	3
09568546	M6	196	95	150	7.5	6	10	220	14.0	3
09568548	M8	355	105	165	11.0	8	11	240	18.5	3
09568550	M10	556	125	190	12.0	9	14	280	21.0	4
09568552	M12	816	150	245	14.0	12	20	360	26.0	5
09568556	M16	1,454	190	310	17.0	16	26	450	36.0	6
09568560	M20	2,270	210	360	20.0	19	30	510	45.5	6

- AISI316 Stainless Steel material.
- Polished finish.
- Design factor 4:1 MWL to MBL.
- Manufactured in China.



Closed Body Stainless Steel Rigging Screws in AISI316 material are suitable for marine applications or modern balustrade designs.

- MWL: Maximum Working Load (MWL) is shown only to provide guidance in selecting a rigging screw with sufficient strength for the intended application.



• Not suitable for lifting applications.

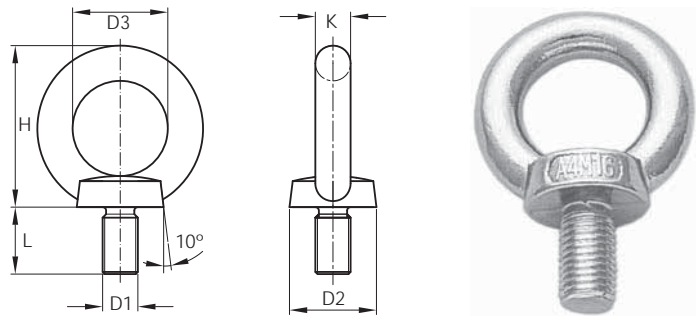
STAINLESS STEEL – COMMERCIAL

EYE BOLTS

Collared Eye Bolts – Metric Thread

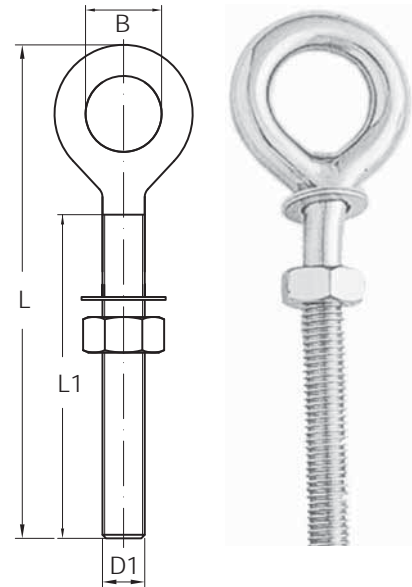
Product Code	Size	MWL*	Dimensions (mm)				
	D1		D2	D3	H	L	K
09568580	M6	70	16	16	28.0	11.0	6
09568581	M8	140	20	20	33.0	13.0	8
09568582	M10	230	25	25	42.0	17.0	10
09568583	M12	340	30	30	51.0	20.5	12
09568584	M16	700	35	35	60.0	27.0	14
09568585	M20	1,200	40	40	68.8	30.0	16

- DIN580 pattern.
- AISI316 Stainless Steel.
- Polished finish.
- Design factor 4:1 MWL to MBL.
- Manufactured in China.



Long Shank, Non-Collared Eye Bolts – Metric Thread

Product Code	Size	MWL*	Dimensions (mm)		
	D1		L	L1	B
09568716	M6	209	100	74	13
09568718	M8	370	130	92	16
09568720	M10	574	150	90	22



Supplied complete with nut and washer.

- AISI316 Stainless Steel.
- Polished finish.
- Design factor 4:1 MWL to MBL.
- Manufactured in China.

• MWL: Maximum Working Load (MWL) is shown only to provide guidance in selecting an eye bolt with sufficient strength for the intended application.



• Not suitable for lifting applications.

STAINLESS STEEL – COMMERCIAL

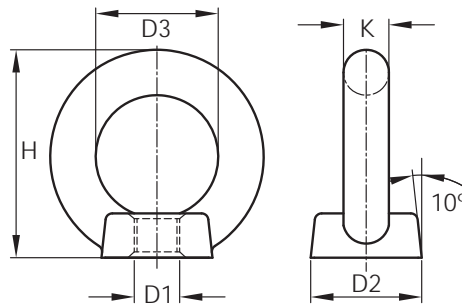
EYE NUTS

Stainless Steel Shouldered Eye Nuts – Metric Thread

Product Code	MWL*	Thread (D1)	Dimensions (mm)			
	kg		D2	D3	H	K
09568590	70	M6	16	16	28.0	6
09568591	140	M8	20	20	33.0	8
09568592	230	M10	25	25	42.0	10
09568593	340	M12	30	30	51.0	12
09568594	700	M16	35	35	60.0	14
09568595	1,200	M20	40	40	68.8	16

A stainless steel eye nut for general purpose applications.

- AISI316 Stainless Steel.
- Polished finish.
- Design factor 4:1 MWL to MBL.
- Manufactured in China.



• MWL: Maximum Working Load (MWL) is shown only to provide guidance in selecting an eye nut with sufficient strength for the intended application.



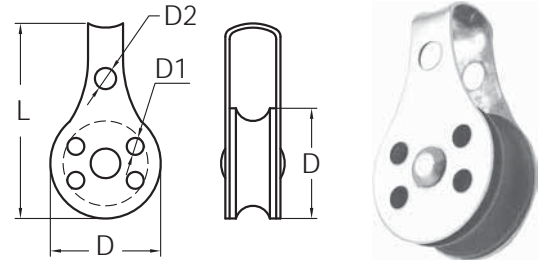
• Not suitable for lifting applications.

STAINLESS STEEL – COMMERCIAL

PULLEYS

Light Duty Single Pulleys – with Fixed Eye

Product Code	Suit Rope	Dimensions (mm)			
	Ømm	L	D	D1	D2
09568725LD	4 – 6	46	26	4	5



A light weight stainless steel pulley with nylon sheave.

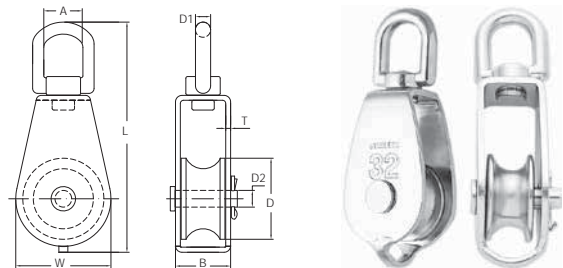
- Bracket style head fitting.
- AISI304 Stainless Steel Body.
- Polished finish.
- Manufactured in China.

Single Pulleys – with Swivel Eye

Product Code	Size (mm)	MWL*	Suit Rope	Dimensions (mm)						
	D	kg	Ømm	L	A	D1	D2	W	B	T
09568725	25	311	4 – 6	83	15	6	8	30	22	3
09568732	32	342	6 – 8	97	16	6	8	36	22	3
09568750	50	487	8 – 10	127	20	8	10	54	27	3

- AISI316 Stainless Steel material including sheave.
- Polished finish.
- Design factor 4:1 MWL to MBL.
- Manufactured in China.

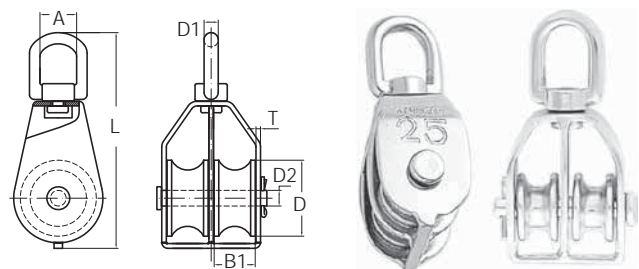
Sizes match to double pulley version below.



Double Pulleys – with Swivel Eye

Product Code	Size (mm)	MWL*	Suit Rope	Dimensions (mm)					
	D	kg	Ømm	L	A	D1	D2	B1	T
09568726	25	311	4 – 6	83	15	6	8	15	3
09568733	32	342	6 – 8	97	16	6	8	15	3
09568751	50	487	8 – 10	127	20	8	10	18	3

- AISI316 Stainless Steel material including sheave.
- Polished finish.
- Design factor 4:1 MWL to MBL.
- Manufactured in China.



• MWL: Maximum Working Load (MWL) is shown only to provide guidance in selecting a pulley with sufficient strength for the intended application.



• Not suitable for lifting applications.

STAINLESS STEEL – COMMERCIAL

CHAIN & QUICK LINKS

Stainless Steel Regular Link Chain

Product Code	MWL*	Dimensions (mm)		
	kg	S	R	F
02624002	30	2.0	12	7.5
02624003	60	3.0	16	11.0
02624004	100	4.0	19	15.0
02624005	175	5.0	22	19.0
02624006	300	6.0	27	22.5
02624008	500	8.0	32	30.0
02624010	750	10.0	41	38.0



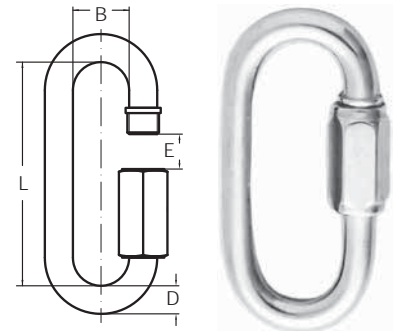
General purpose chain with link dimensions that allow use in numerous applications.

- AISI316 Stainless Steel.
- Polished finish.
- Manufactured in China.



Stainless Steel Quick Links

Product Code	Size (mm)	MWL*	Dimensions (mm)		
	D	kg	L	B	E
09569460	6	288	45	14.5	7.5
09569480	8	513	58	17.5	10.0
09569500	10	801	72	21.0	12.0



- AISI316 Stainless Steel material.
- Polished finish.
- Design factor 4:1 MWL to MBL.
- Manufactured in China.

• MWL: Maximum Working Load (MWL) is shown only to provide guidance in selecting a chain or Quick Link with sufficient strength for the intended application.



Quick Links provide a quick and easy means of re-joining broken non-load bearing chains. They may also be used for joining non-load bearing ropes with fitted eyes, connecting rings to chains or ropes, etc. Where Quick Links are required for safety critical applications refer Maillon Rapides on page 549.



• Not suitable for lifting applications!

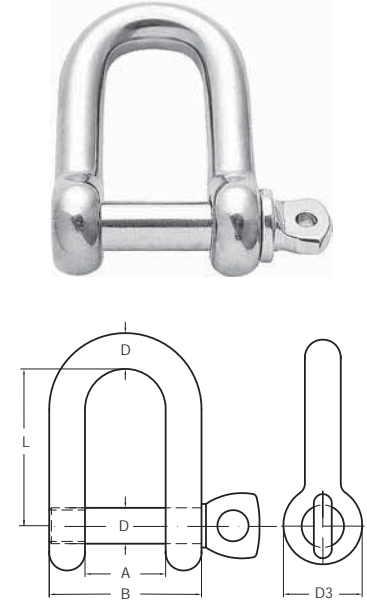
STAINLESS STEEL – COMMERCIAL

SHACKLES

Forged Dee Shackles – Screw Pin

Product Code	MWL*	Dimensions (mm)			
	kg	D	A	B	L
09568405	232	5	10	20	20
09568406	337	6	12	24	24
09568408	605	8	16	32	32
09568410	952	10	20	40	40
09568412	1,401	12	24	48	48
09568416	2,492	16	32	64	64
09568420	3,472	19	38	76	76
09568422	4,712	22	44	88	88
09568425	5,709	25	50	100	100

- AISI316 Stainless Steel material.
- Polished finish.
- Design factor 4:1 MWL to MBL.
- Manufactured in China.

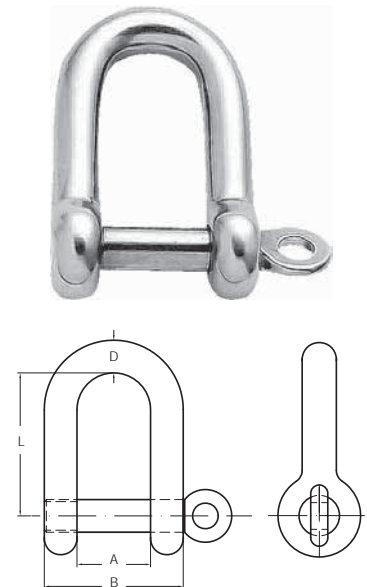


Forged Dee Shackles – Captive Screw Pin

Product Code	MWL*	Dimensions (mm)			
	kg	D	A	B	L
09568485	232	5	10	20	20
09568486	337	6	12	24	24
09568488	605	8	16	32	32
09568490	952	10	20	40	40
09568492	1,401	12	24	48	48

Captive Screw Pin ensures pin stays engaged and cannot be lost.

- AISI316 Stainless Steel material.
- Polished finish.
- Design factor 4:1 MWL to MBL.
- Manufactured in China.



* MWL: Maximum Working Load (MWL) is shown only to provide guidance in selecting a shackle with sufficient strength for the intended application.



• Commercial Grade Stainless Steel Shackles must not be used for lifting applications.
• Stainless Steel Shackles suitable for lifting applications are detailed on page 546.

STAINLESS STEEL – COMMERCIAL

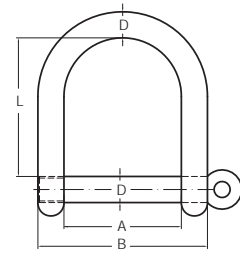
SHACKLES

Wide Body Forged Dee Shackles – Captive Screw Pin

Product Code	MWL*	Dimensions (mm)			
	kg	D	A	L	R
09568465	232	5	25	22	35
09568466	337	6	24	33	36
09568468	605	8	28	32	44
09568470	952	10	40	55	60
09568472	1,401	12	50	66	74

Captive Screw Pin ensures pin stays engaged and cannot be lost.

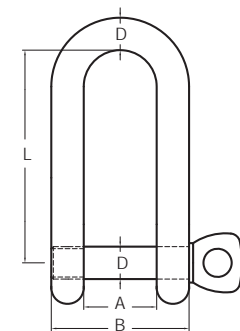
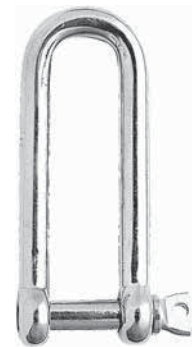
- AISI316 Stainless Steel material.
- Polished finish.
- Design factor 4:1 MWL to MBL.
- Manufactured in China.



Long Body Forged Dee Shackles – Screw Pin

Product Code	MWL*	Dimensions (mm)			
	kg	D	A	B	L
09568475	232	5	10	20	40
09568476	337	6	12	24	48
09568478	605	8	16	32	64
09568480	952	10	20	40	80
09568482	1,401	12	24	48	96

- AISI316 Stainless Steel material.
- Polished finish.
- Design factor 4:1 MWL to MBL.
- Manufactured in China.



• MWL: Maximum Working Load (MWL) is shown only to provide guidance in selecting a shackle with sufficient strength for the intended application.



- Commercial Grade Stainless Steel Shackles must not be used for lifting applications.
- Stainless Steel Shackles suitable for lifting applications are detailed on page 546.

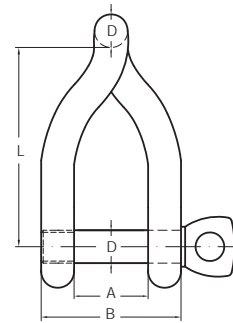
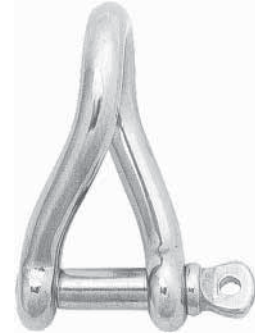
STAINLESS STEEL – COMMERCIAL

SHACKLES

Twisted Body Forged Shackles – Screw Pin

Product Code	MWL*	Dimensions (mm)			
	kg	D	A	B	L
09568427	232	5	10	20	30
09568428	337	6	12	24	36
09568429	605	8	16	32	48
09568430	952	10	20	40	60
09568431	1,401	12	24	48	72

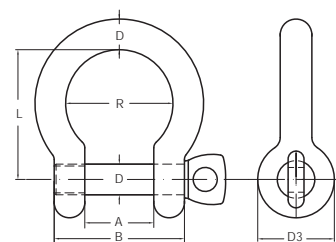
- AISI316 Stainless Steel material.
- Polished finish.
- Design factor 4:1 MWL to MBL.
- Manufactured in China.



Forged Bow Shackles – Screw Pin

Product Code	MWL*	Dimensions (mm)			
	kg	D	A	L	R
09568445	232	5	10	20	17
09568446	337	6	12	24	21
09568448	605	8	16	32	28
09568450	952	10	20	40	35
09568452	1,401	12	24	48	42

- AISI316 Stainless Steel material.
- Polished finish.
- Design factor 4:1 MWL to MBL.
- Manufactured in China.



• MWL: Maximum Working Load (MWL) is shown only to provide guidance in selecting a shackle with sufficient strength for the intended application.



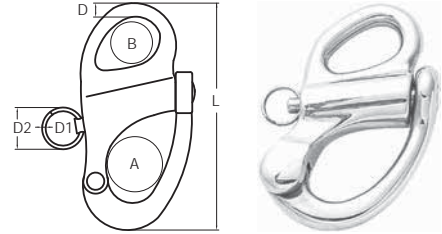
• Commercial Grade Stainless Steel Shackles must not be used for lifting applications.
• Stainless Steel Bow Shackles suitable for lifting applications are detailed on page 547.

STAINLESS STEEL – COMMERCIAL

SNAP SHACKLES

Fixed Eye Snap Shackle

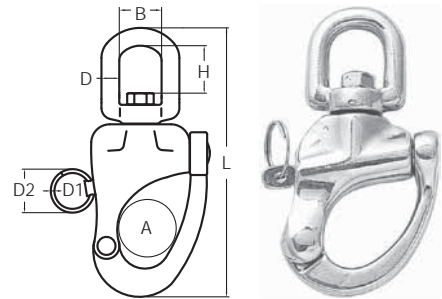
Product Code	Size (mm)	MWL* kg	Dimensions (mm)				
	L		A	B	D	D1	D2
09568881	52	324	13	9	5.0	1.5	14
09568883	70	449	16	12	5.5	1.5	18
09568885	96	832	22	16	8.5	1.5	20



- AISI316 Stainless Steel material.
- Polished finish.
- Design factor 4:1 MWL to MBL.
- Manufactured in China.

Swivel Eye Snap Shackle

Product Code	Size (mm)	MWL* kg	Dimensions (mm)					
	L		A	B	D	D1	D2	H
09568887	70	163	13	12	5.0	1.5	14	13
09568888	87	224	16	16	6.0	1.5	18	15
09568889	124	416	22	23	8.5	1.5	20	23



- AISI316 Stainless Steel material.
- Polished finish.
- Design factor 4:1 MWL to MBL.
- Manufactured in China.

• MWL: Maximum Working Load (MWL) is shown only to provide guidance in selecting a snap shackle with sufficient strength for the intended application.



• Not suitable for lifting applications.

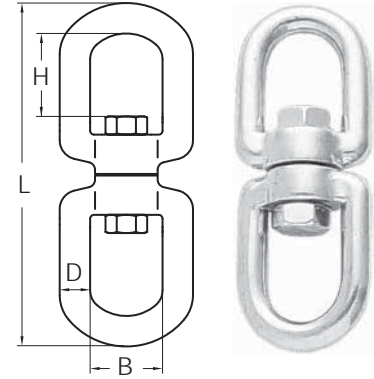
STAINLESS STEEL – COMMERCIAL

SWIVELS

Swivels – Eye & Eye

Product Code	Size (mm)	MWL*	Dimensions (mm)		
	D		L	H	B
09568605	5	163	60	13	13
09568606	6	235	65	15	15
09568608	8	416	90	21	20
09568610	10	648	115	27	24
09568613	13	934	154	35	32
09568614	16	1,661	188	42	39

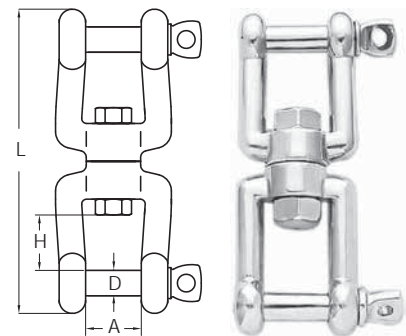
- AISI316 Stainless Steel material.
- Polished finish.
- Design factor 4:1 MWL to MBL.
- Manufactured in China.



Swivels – Jaw & Jaw

Product Code	Size (mm)	MWL*	Dimensions (mm)		
	D		L	H	A
09568616	6	235	64	12	12
09568618	8	416	89	16	16
09568620	10	648	112	22	20
09568621	13	934	154	28	26
09568622	16	1,661	185	37	32

- AISI316 Stainless Steel material.
- Polished finish.
- Design factor 4:1 MWL to MBL.
- Manufactured in China.



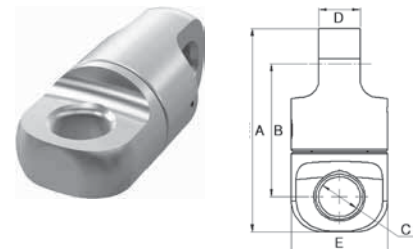
Midget Stainless Steel Swivels – Eye & Eye



Product Code	MWL*	Proof Load	Dimensions (mm)					Approx. Weight
	t		t	A	B	C	D	Ø E
07250010	0.5	1.0	66.5	43.5	13	13	30	0.21

Fully machines 316 Stainless Steel construction for maximum corrosion resistance. Fully ball raced for smooth swivel action and long service life.

- Compact and durable design. Greaseable.
- Eyes will accept shackles. 5:1 design factor.
- Proof loaded to two times MWL.
- Manufactured in New Zealand.



• MWL: Maximum Working Load (MWL) is shown only to provide guidance in selecting a swivel with sufficient strength for the intended application.



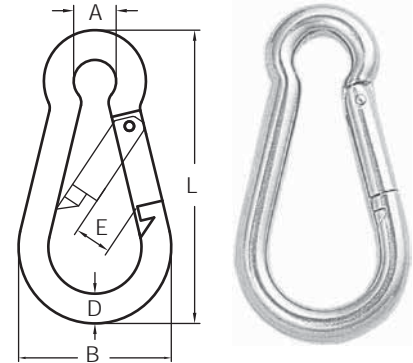
• Not suitable for lifting applications!

STAINLESS STEEL – COMMERCIAL

KARABINERS

Karabiners – without Eyelet

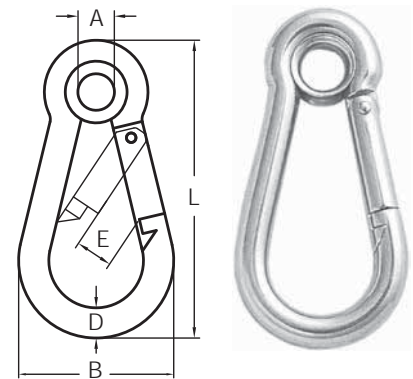
Product Code	Size (mm)	MWL*	Dimensions (mm)			
	D		L	A	E	B
09569040	4	59	40	6.5	5.5	20
09569050	5	87	50	8.0	6.5	25
09569060	6	130	60	9.0	7.5	30
09569080	8	199	80	12.0	9.0	40
09569100	10	301	100	15.0	12.0	50
09569120	12	421	140	20.0	19.0	67



- AISI316 Stainless Steel material.
- Polished finish.
- Design factor 4:1 MWL to MBL.
- Manufactured in China.

Karabiners – with Eyelet

Product Code	Size (mm)	MWL*	Dimensions (mm)			
	D		L	A	E	B
09569140	4	59	40	4.5	5.5	20
09569150	5	87	50	6.0	6.5	25
09569160	6	130	60	7.0	7.5	30
09569180	8	199	80	10.0	9.0	40
09569200	10	301	100	13.0	12.0	50
09569240	11	355	120	14.5	16.0	57



- AISI316 Stainless Steel material.
- Polished finish.
- Design factor 4:1 MWL to MBL.
- Manufactured in China.

• MWL: Maximum Working Load (MWL) is shown only to provide guidance in selecting a karabiner with sufficient strength for the intended application.



- Not suitable for lifting applications.
- For safety critical applications only use suitable rated karabiners. Contact your local Cookes branch, Freephone 0508 274 366 or email customerservices@bridoncookes.co.nz for information on our height safety karabiner range or refer Maillon Rapides on pasge 549.

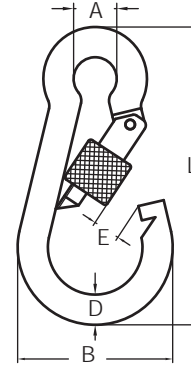
STAINLESS STEEL – COMMERCIAL

KARABINERS

Screwgate Karabiners – without Eyelet

Product Code	Size (mm)	MWL*	Dimensions (mm)			
	D		L	A	E	B
09569272	6	130	60	9	6.5	30
09569276	8	199	80	12	8.5	40
09569280	10	301	100	15	11.0	50

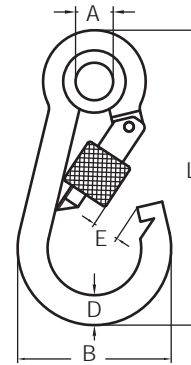
- AISI316 Stainless Steel material.
- Polished finish.
- Design factor 4:1 MWL to MBL.
- Manufactured in China.



Screwgate Karabiners – with Eyelet

Product Code	Size (mm)	MWL*	Dimensions (mm)			
	D		L	A	E	B
09569291	5	87	50	6	5.5	25
09569292	6	130	60	7	6.5	30
09569294	8	199	80	10	8.5	40
09569296	10	301	100	13	11.0	50

- AISI316 Stainless Steel material.
- Polished finish.
- Design factor 4:1 MWL to MBL.
- Manufactured in China.



• MWL: Maximum Working Load (MWL) is shown only to provide guidance in selecting a karabiner with sufficient strength for the intended application.



- Not suitable for lifting applications.
- For safety critical applications only use suitable rated karabiners. Contact your local Cookes branch, Freephone 0508 274 366 or email customerservices@bridoncookes.co.nz for information on our height safety karabiner range or refer Maillon Rapides on page 549.

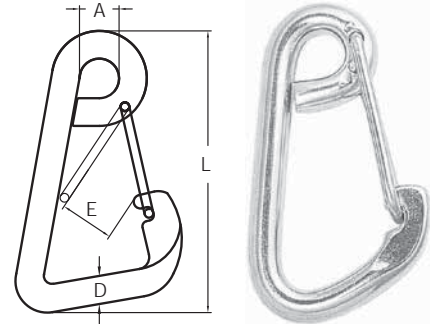
STAINLESS STEEL – COMMERCIAL

SNAP HOOKS

Spring Snap Hooks – Model S-2430

Product Code	Size (mm)	MWL* kg	Dimensions (mm)		
	D		L	A	E
09569346	6	130	60	10	10
09569348	8	199	80	12	16
09569350	10	301	100	16	19
09569352	12	421	120	19	25

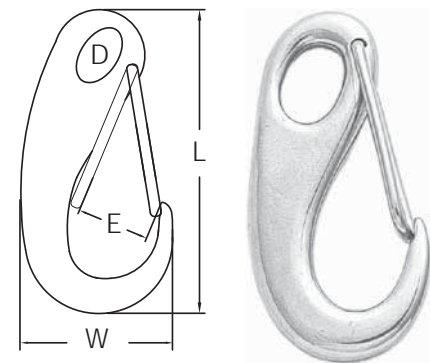
- AISI316 Stainless Steel material.
- Polished finish.
- Design factor 4:1 MWL to MBL.
- Manufactured in China.



Spring Snap Hooks – Model S-2470

Product Code	Size (mm)	MWL* kg	Dimensions (mm)		
	L		W	D	E
09568768	50	66	24	7.5	10
09568770	70	133	31	10	13
09568800	100	245	46	15	20

- AISI316 Stainless Steel material.
- Polished finish.
- Design factor 4:1 MWL to MBL.
- Manufactured in China.



• MWL: Maximum Working Load (MWL) is shown only to provide guidance in selecting a snap hook with sufficient strength for the intended application.



• Not suitable for lifting applications.

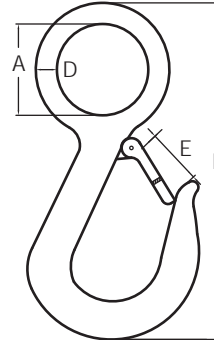
STAINLESS STEEL – COMMERCIAL

EYE HOOKS

Large Eye Hooks – with Safety Latch

Product Code	Size (mm)	MWL* kg	Dimensions (mm)		
	A		D	L	E
09564510	19	237	7.5	100	15
09564512	28	360	9.0	120	18

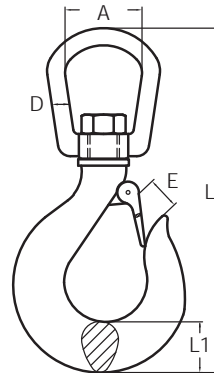
- AISI316 Stainless Steel material.
- Polished finish.
- Design factor 4:1 MWL to MBL.
- Manufactured in China.



Swivel Eye Hooks – with Safety Latch

Product Code	Size (mm)	MWL* kg	Approx. Dimensions (mm)			
	D		A	E	L	L1
09568634	6	350	21.0	15	122	21
09568635	8	650	27.5	20	142	25
09568636	10	1,000	27.5	20	170	30
09568637	12	1,500	32.0	25	200	30

- AISI316 Stainless Steel material.
- Polished finish.
- Design factor 4:1 MWL to MBL.
- Manufactured in China.



• MWL: Maximum Working Load (MWL) is shown only to provide guidance in selecting a eye-hook with sufficient strength for the intended application.



• Not suitable for lifting applications.

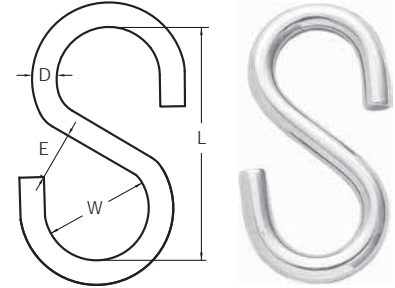
STAINLESS STEEL – COMMERCIAL

S-HOOKS

S-Hooks

Product Code	Size (mm)	MWL*	Dimensions (mm)		
	D		L	W	E
09564309	8	158	64	24	12

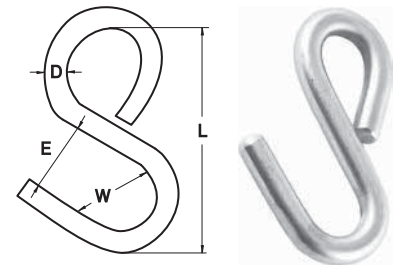
- AISI316 Stainless Steel material.
- Polished finish.
- Design factor 4:1 MWL to MBL.
- Manufactured in China.



Bull Nose S-Hooks

Product Code	Size (mm)	MWL*	Dimensions (mm)		
	D		L	W	E
09564303	9.5	250	70	21	23.5

- AISI316 Stainless Steel material.
- Machined 'Bull Nose' one end.
- Design factor 4:1 MWL to MBL.
- Manufactured in New Zealand.



- MWL: Maximum Working Load (MWL) is shown only to provide guidance in selecting an s-hook with sufficient strength for the intended application.



Cookes can fabricate boat winch ropes or straps using the hooks detailed in this catalogue.

Contact your local Cookes branch, Freephone 0508 274 366 or email customerservices@bridoncookes.co.nz for further information.



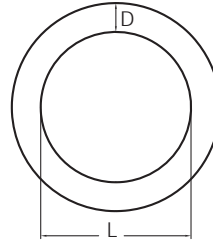
• Not suitable for lifting applications.

STAINLESS STEEL – COMMERCIAL

ROUND RINGS & DEE RINGS

Round Ring – Welded

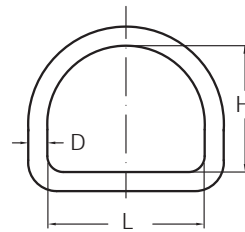
Product Code	MWL*	Dimensions (mm)	
	kg	Ø Material (D)	Ø Inside (L)
09564785	122	5	30
09564789	179	6	40
09564795	316	8	50



- AISI316 Stainless Steel material.
- Polished finish.
- Design factor 4:1 MWL to MBL.
- Manufactured in China.

Dee Ring – Welded

Product Code	MWL*	Dimensions (mm)		
	kg	Ø Material (D)	Ø Inside (L)	Ø Inside (H)
09564801	122	5	25	22
09564802	179	6	40	37
09564803	316	8	50	47



- AISI316 Stainless Steel material.
- Polished finish.
- Design factor 4:1 MWL to MBL.
- Manufactured in China.

• MWL: Maximum Working Load (MWL) is shown only to provide guidance in selecting a ring with sufficient strength for the intended application.



Dee Rings

Their flat edge makes Dee Rings perfect for sewing to light duty non-load bearing straps. Cookes can fabricate webbing straps to your requirements.



- Not suitable for lifting applications!
- Commercial Grade Stainless Steel Rings must not be used for lifting applications. Stainless Steel Master Links suitable for lifting applications may be found on page 540.





ZINC PLATED HOOKS & CONNECTORS

Zinc Plated – Certified	576
Maillon Rapides®	576
Zinc Plated – Commercial	578
Forged Hooks	578
Karabiners	579
Trigger Snaps (Dog Clips)	580
S-Hooks	581

ZINC PLATED – CERTIFIED

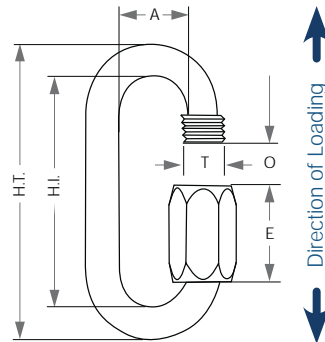
MAILLON RAPIDES®



The Original Maillon Rapide®

Produced in France by the Péguet family business for over 70 years, the Maillon Rapide® Screw-Link is best described as a mechanical connector composed of a rod and nut with its design based on the principle of a chain link.

While there are many brands of Screw-Links on the market, very few offer the safety features and quality control of a genuine Maillon Rapide®.



Zinc Plated Maillon Rapide®



Product Code	Péguet Item No.	WLL	MBL	Ø Size	Dimensions (mm)						Weight
		t	t	mm	H.T.	H.I.	A	O	E	T	g
09569608	MRNZ08.0	0.7	3.5	8	74.0	58	17.5	11	24	11	77
09569610	MRNZ10.0	1.1	5.5	10	89.0	69	20.5	12	29	13	137
09569612	MRNZ12.0	1.5	7.5	12	104.5	80,5	23.5	15	33	15	232
09569614	MRNZ14.0	2.2	11.0	14	121.0	93	26.5	17	38,5	17	365
09569616	MRNZ16.0	2.9	14.5	16	140.0	108	29.5	19	45	19	562

Specifications	
Rod	Nut
Aluminium Alloy 7075	Aluminium Alloy 7075

Certified for permanent or semi-permanent connections. Extensive quality control procedures through the full manufacturing process.

- Clearly marked with Working Load Limit.
- Design factor 5:1. Non-Magnetic.
- Zinc plated finish.
- Manufactured in France.



• For Stainless Steel Maillon Rapides® refer page 549.



- Never Exceed manufacturer's Working Load Limit (WLL).
- Maillon Rapides may only be loaded along the major axis.
- Nut must be fully engaged with no thread showing prior to loading.
- For permanent connections always tighten to adequate torque using a wrench.
- Check all connections on a regular basis.
- When connected to chain the Maillon Rapide Quick Link must be of the same material diameter as the chain.*



* Never connect Maillon Rapide® Quick Links into lifting chain or to a chain hoist.

ZINC PLATED – CERTIFIED

MAILLON RAPIDES®

When your **LIFE** depends on it!

Certified For Permanent & Semi-Permanent Connections.



Agriculture



Industrial Supplies



Architecture



Military



Climbing & Mountaineering



Parachuting & Paragliding



Entertainment



Professional Fishing (Stainless Steel)



Industrial



Sailing (Stainless Steel)

ZINC PLATED – COMMERCIAL

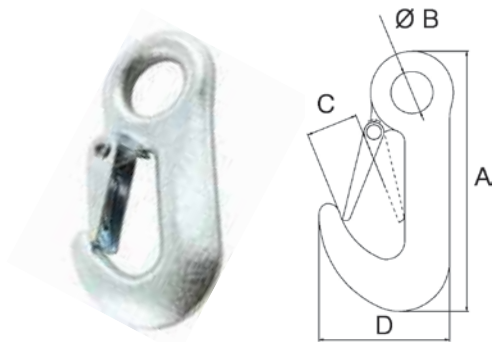
FORGED HOOKS

Forged Snap Hooks

Product Code	MWL*	Dimensions (mm)			
	kg	A	Ø B	C	D
09564740	750	91	18	19	46

A small compact hook that offers a stronger alternative to S-Hooks on boat trailer winch ropes.

- Suitable for use with both rope and webbing.
- Complete with spring actuated safety catch.
- Zinc plated finish.
- Manufactured in China.



Forged Eye Hooks

Product Code	MWL*	Dimensions (mm)				Approx. Weight
	kg	Ø B	E	R	T	kg
09564505	750	16	20	71	16.5	0.20
09564506	1,000	19	21	82	20.0	0.25
09564507	1,500	23	23	93	21.0	0.40
09564508	2,000	28	24	104	21.0	0.60
09564509	3,000	32	26	119	27.5	1.00

Designed for use on winch ropes and for other non-lifting applications.

- Marked with MWL.
- 4:1 design factor.
- Complete with spring actuated safety catch.
- Zinc plated finish.
- Manufactured in China.



- MWL: Maximum Working Load (MWL) is shown only to provide guidance in selecting a hook with sufficient strength for the intended application.



Cookes can manufacture winch ropes and straps in-house to your requirements. Refer your local Cookes branch, Freephone 0508 274 366 or email customerservices@bridoncookes.co.nz.



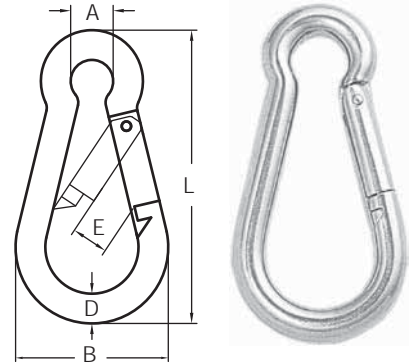
• Not suitable for lifting applications.

ZINC PLATED – COMMERCIAL

KARABINERS

Karabiners – without Eyelet

Product Code	Size (mm)	MWL*	Dimensions (mm)			
	D		L	A	E	B
09569005	5	87	50	8.0	6.5	25
09569006	6	130	60	9.0	7.5	30
09569007	7	155	70	10.5	8.0	35
09569008	8	199	80	12.0	9.0	40
09569009	9	243	90	13.0	10.0	45
09569010	10	301	100	15.0	12.0	50



Commercial grade Karabiners provide a quick and easy snap connection to non-load bearing chains, ropes, shackles, etc.

- Polished finish.
- Design factor 4:1 MWL to MBL.
- Manufactured in China.



• MWL: Maximum Working Load (MWL) is shown only to provide guidance in selecting a karabiner with sufficient strength for the intended application.



- Not suitable for lifting applications.
- For safety critical applications only use suitable rated karabiners. Contact your local Cookes branch, Freephone 0508 274 366 or email customerservices@bridoncookes.co.nz for information on our height safety karabiner range or refer Maillon Rapides on page 576.

ZINC PLATED – COMMERCIAL

TRIGGER SNAPS (DOG CLIPS)

Trigger Snaps – Brass Plated

Product Code	Eye Ø	Length
	mm	mm
09564631	12	75
09564633	19	76
09564635	25	88
09564637	32	114



General purpose trigger snaps commonly used for dog leads, horse leads, etc.

- Malleable iron with swivel eye.
- Brass Plated
- Manufactured in China.

Trigger Snaps – Nickel Plated

Product Code	Eye Ø	Length
	mm	mm
09564632	12	75
09564634	19	76
09564636	25	88
09564638	32	114



General purpose trigger snaps commonly used for dog leads, horse leads, etc.

- Malleable iron with swivel eye.
- Nickel Plated
- Manufactured in China.



ZINC PLATED – COMMERCIAL

S-HOOKS

Zinc Plated S-Hooks

Product Code	Diameter Ø	Overall Length	Finish
	mm	mm	
09564301	10	122	Zinc Plated

Zinc Plated S-Hooks are designed for light duty general purpose non-lifting applications.

- Manufactured in China.



Plastic Coated S-Hooks

Product Code	Diameter Ø	Overall Length	Finish
	mm	mm	
09564302	8	118	Black Plastic Coated

Plastic Coated S-Hooks are designed for light duty general purpose non-lifting applications.

- Manufactured in China.



• For Stainless Steel S-Hooks refer page 571.



• Not suitable for lifting applications.

GLOSSARY

This guide has been provided to assist with your understanding of common industry terminology and you will find many of these terms used throughout the catalogue. The brief explanations provided are not designed to be comprehensive or a substitute for adequate training or invaluable on the job experience.

Abbreviations

gm:	Gram. 1,000gm = 1 kilogram
kg:	Kilogram. 1,000kg = 1 tonne
m:	Metre. 1,000m = 1 kilometre
mm:	Millimetre. 1,000mm = 1 metre
t:	Tonne. 1 tonne = 1,000kg
4WD:	Four wheel drive
G80:	Grade 80 chain
G100:	Grade 100 chain
G120:	Grade 120 chain
GVM:	Gross Vehicle Mass
HDG:	Hot Dip Galvanised
LC:	Lashing Capacity
MBL:	Minimum Breaking Load
MWL:	Maximum Working Load
NDT:	Non-Destructive Testing
SWL:	Safe Working Load
WLL:	Working Load Limit

Acid Pickling

A process used to remove oil, grease, metal oxides, mill scale and rust from steel. Used prior to hot dip galvanising to ensure the zinc coating is uniform and adhered adequately to the steel. This process may cause hydrogen embrittlement in high tensile steels.

Adjustable Trolley

SEE GIRDER TROLLEY.

Alloy Steel

Any type of (iron) steel to which one or more elements besides carbon have been intentionally added. Chain assemblies approved for industrial lifting applications are often referred to as alloy chain slings. Elements added to alloy lifting chains may include nickel, chromium and molybdenum. Refer also stainless steel.

Anchor Windlass

A piece of equipment with a notched wheel that manipulates the anchor chain on a boat, allowing the anchor to be raised and lowered. The notched wheel requires use of a calibrated anchor chain to ensure it seats correctly over its length and does not jump off. The wheel may be referred to as a 'chain wheel' or 'chain gypsy'.

Antitheft Chain

SEE SECURITY CHAIN.

Axial Load

A load applied to an item along its primary axis. With an eye bolt, for example, this would be a load applied along the axis of the screw thread.

Basket Hitch

A sling configuration where the sling is passed under the load and has both ends or end attachments connected to a hook or other attachment point.

Beam Clamp

A device that is fixed to the flange of a steel beam often for the purpose of attaching a chain block or electric hoist.

Beam Trolley

SEE GIRDER TROLLEY.

Block and Tackle

Two or more blocks rigged with ropes or cables for the purpose of hauling and hoisting heavy objects.

Bottle Screw

SEE TURNBUCKLE.

Bow Nut

Similar to an eye nut but with an elongated eye. Bow nuts are designed for axial loading only.

Builders Hoist

A name often given to an electric wire rope hoist commonly used on construction sites. May also be referred to as a 'construction hoist'.

Bulk Bag

A large heavy duty circular-woven or flat-woven bag used for transporting free flowing dry products such as sand, fertiliser or various waste items that need to be transported in bulk safely. They typically hold 500kg to 2000kg of product and can be lifted by the four lifting loops attached to the bag or can be placed onto a pallet.

Bulldog Grip

SEE WIRE ROPE GRIP.

C Hook

A hook designed with a projection over the hook tip to prevent fouling from obstructions during lifting operations. The lack of a safety latch assembly limits their use under current regulations.

Cable

SEE SHOT.

CAD Drawings

Computer aided design drawings, or CAD drawings as they are more commonly known, are technical drawings created with the use of computer software. They are often used by design engineers where precise dimensional detail is required.

Cargo Restraint

SEE TIEDOWN.

Calibrated Chain

Chain where each link is guaranteed as having been manufactured to the same dimensions within a given tolerance. Calibrated chains are essential for the likes of anchor windlasses (most often in grade 30 or 40) or hoists (most often in grades 80 or 100). Calibrated chains are also required for specialised machinery that incorporates a pocketed chain drive mechanism.

Camber

The slight curvature given to beams and girders to compensate for deflections caused by loading.

Capstan Winch

Unlike most winches, which have the rope or cable mounted on a drum, a capstan winch does not hold the entire length of rope but instead acts as an intermediary between one end of the rope and the other. The capstan is a vertical barrel that rotates to apply tension to the rope.

Captive Pin Shackles

Shackles with a screw-pin that can be unscrewed but not fully removed from the shackle body. Designed to prevent pin loss. Most commonly found with stainless steel shackles.

Carabiner

SEE KARABINER

Cast

Products manufactured using a process where metal is heated until molten (liquefied) and then poured into a mould to create the desired shape.

Chain Block

The name most commonly applied to a manually operated hoist which is operated by pulling down on a small diameter endless chain (hand chain). Gearing inside the hoist provides a mechanical advantage allowing the larger diameter chain (load chain) with hook to lift heavy loads vertically with ease. Attachment to a girder trolley will allow the block to move horizontally also. Chain blocks are preferred to electric hoists where use may be infrequent or in environments where electricity is impractical or unavailable.

Chain Gypsy

A notched wheel that manipulates a chain on a boat, allowing the anchor to be raised and lowered. See also Anchor Windlass.

Chicago Grip

A registered brand name of Klein Tools USA. It covers a range of tools designed to grip and pull aluminium and copper wires, wire strand and coated wires. Their flat jaws mean they will not crimp or bend the line like traditional cable grips. See also Haven Grip.

Choke Hitch

A sling configuration where one end of the sling passes under the load and through an end attachment or eye on the other end of the sling to the connection point.

Choker Hook

A hook with narrow throat opening designed for choking of chain in forestry applications. Not for overhead lifting.

Clevis

The part of any lifting component designed for direct connection to a chain. May also be referred to as a 'jaw'.

Colour Coded

An industry accepted range of colours used to provide a quick visual guide to the Working Load Limit (WLL) of a piece of lifting equipment. Most often associated with synthetic web slings or round slings where different colours are used for slings between 1 and 8 tonne WLL. From 10 tonne WLL the colour remains constant (orange).

Cone Anchor

SEE FOOT ANCHOR.

Commercial

Products that may or may not carry test certificates but do not conform to specific requirements or Standards pertaining to lifting hardware. Such items may carry a Maximum Working Load (MWL) rating enabling users to make an informed choice of product for their intended application. Others may carry no rating of any kind. Commercial products must never be used for lifting applications.

Competent Person

Someone with appropriate practical and theoretical knowledge and experience of lifting equipment to enable them to detect defects or weaknesses and to assess their importance in relation to the safety and continued use of lifting equipment.

Conformance Certificate

A document certified by a competent authority confirming that the supplied product meets the required Standard or specification

Container Lifting Lugs

Purpose-designed lifting points allowing the lifting and transporting of ISO containers. Designed for connection to wire rope or chain lifting assemblies in conjunction with a spreader frame or beam. A set of four pieces consists of 2 x left hand and 2 x right hand for connection to container side fixing holes or 4 x straight for connection to container top fixing holes. Also referred to as 'container lifting eyes' or 'container lifting hooks'.

Come Along

SEE LEVER HOIST.

Crimping Tools

SEE SWAGGING TOOLS.

Corrosion

Chemical decomposition through exposure to moisture, acids, alkalis, or other destructive agents.

Cyclic Test

A process in which a product is subjected to repeated testing. The goal of such testing is to confirm that the product will perform consistently and reliably, and to get an opportunity to subject it to simulations of many different operating conditions.

Dead Load

SEE STATIC LOAD.

Derating / Deration

A reduction in the Working Load Limit (WLL) of a chain, sling or component with a consequent revision of its Safe Working Load (SWL), due to such factors as how it is used, what it is used for and the work environment.

Design Factor

An industry term usually computed by dividing the Minimum Breaking Load by the Working Load Limit. It is generally expressed as a ratio – for example: 4:1. May also be referred to as 'factor of safety' or 'safety factor'. The term 'design factor' is preferred by Cookes since an inexperienced person may incorrectly assume 'factor of safety' or 'safety factor' to suggest this factor makes up for such conditions as shock loading, poor rigging practice or overload conditions.

Dissimilar Metal Corrosion

SEE GALVANIC CORROSION.

Drag Chain

A heat-treated grade 70 carbon steel chain fitted with a grab hook on one end and lug link on the other end, designed to drag fallen trees or large logs. An essential piece of hardware for most farmers and popular also with off-road enthusiasts who use the drag chain to clear their path of fallen debris. May also be referred to as a 'snig chain'.

Dunnage

Loose packing material, commonly timber offcuts, used to protect cargo from damage during transport. In slinging, dunnage is often used to rest a load on and allow slings to be easily removed without damage.

Duty Cycle Percentage

The percentage of on time versus off time for an electrical signal. An important consideration when selecting electric hoists and winches.

Dynamic Load

A load introduced into a machine or its components by forces in motion.

Dynamo Eye Bolt

An eye bolt with a large eye that can engage directly with a hook. Designed for axial loading only. The name originates from their early use on power generators.

Effective Length

The length of a sling measured from the bearing surface of the upper terminal component to the bearing surface of the lower terminal component.

Egg Link

SEE PEAR LINK.

Elastic Limit

The limit of stress above which a permanent deformation takes place within the material.

Electric Chain Hoist

A powered hoist that may be combined with a trolley to easily lift and manoeuvre heavy objects. Available in many different styles and models to suit either single or three-phase power supply and with single or variable lifting speeds. The hoist is operated by means of a wired or remote pendant control.

EN14a

A medium tensile strength carbon manganese steel often used in the manufacture of lifting components due to its ductility and shock resistance properties.

Eye Anchor

A lifting insert embedded in a precast concrete element with the head designed for connection to a lifting clutch. The embedded eye takes a hanger bar or tension bar and this form of anchor is used where the concrete is too weak for a foot anchor. May also be referred to as a 'reo anchor'.

Eye Bolt

A forged or welded threaded bolt with the head formed into a ring or eye. Available in many forms both certified and uncertified and designed for connection to a tapped hole. Depending on the type of eye bolt, it may be used for lifting, pulling or securing. Those eye bolts most commonly used in New Zealand for lifting applications conform to BS 4278, AS 2317 or DIN 580.

Eye Nut

A formed eye with tapped (female) thread designed to accept a bolt of same grade with matching (male) thread. Most often used to form a lifting or lashing point.

Factor of Safety

SEE DESIGN FACTOR.

Fatigue

The phenomenon leading to fracture under repeated or fluctuating stresses having a maximum value less than the tensile strength of the material.

Ferrule (Precast Concrete)

Provides a metric thread fixing point in precast concrete elements, such as precast panels. Available in various surface finishes and also double-ended to provide a fixing point on both sides of a panel. A 'ferrule support chair' is used to keep the ferrule stable during casting.

Fixed Block

Describes a pulley block or snatch block action where the load approaches the block meaning the load is supported by just one fall of rope. In such cases the load is doubled on the block's head fitting.

Flat Sling Eye

SEE SLING HOOK.

Fleet Angle

The angle formed between the centreline of a winch drum and a sheave or fixed point. The fleet angle is an important consideration when winding wire rope onto a winch drum and as a general rule an angle of 1.5 degrees is recommended. The correct fleet angle helps the wire rope to wind evenly onto the drum which reduces wear on both the rope and the winch drum.

Foot Anchor

A lifting insert embedded in a precast concrete element with the head designed for connection to a lifting clutch. May also be referred to as a 'cone anchor'.

Forged

Product manufactured using a process where metal is mechanically forced into shape while remaining in a solid

state. With hot forging the metal is heated to extreme temperatures, but unlike casting is not molten. Cold forging is a similar process, but occurs at or near room temperature. Forged parts are stronger, with more uniformity of composition and structure than cast parts.

Foundry Hook

A hook with a wide throat often used for large, bulky attachment points. The lack of a safety latch assembly limits their use under current regulations.

Four Wheel Drive Recovery Strap

A flat nylon fibre strap with the required elasticity to assist with the recovery of a bogged 4WD vehicle. As the strap begins to stretch, it builds up sufficient kinetic energy to overcome the force keeping the vehicle bogged, at which point the bogged vehicle is freed and pulled forward. This snatching effect often sees 4WD recovery straps referred to as 'snatch straps'.

Galvanic Corrosion

A condition created where two different metals are coupled in a corrosive electrolyte such as sea water. May also be referred to as 'dissimilar metal corrosion'.

Girder Trolley

Provides a connection point for a manual chain block or powered hoist and allows the hoist and load to be moved horizontally along a girder or beam. Available as a manual push type, a geared trolley (operated via a hand chain to provide increased control over movement) or in powered options such as electric or air. May also be referred to as a 'beam trolley', 'hoist trolley', 'adjustable trolley' or 'travelling trolley'.

Grab Hook

A hook with a narrow throat allowing a link of chain to be grabbed. The cradle type with supporting wings can be used as a shortening device on a chain sling with no derating of the Working Load Limit.

Grade 50 Chain

The grade most commonly associated with stainless steel chain. In a short link configuration, grade 50 stainless steel chain may be certified by manufacturers as approved for industrial lifting applications.

Grade 70 Chain & Components

Heat-treated carbon steel chain designed largely for cargo restraint use. Commonly referred to as 'transport chain' and recognisable through its gold chromated finish.

Grade 80, 100 & 120 Chain

Grades of heat treated alloy steel chain approved for industrial lifting applications. The numbers refer to the tensile strength of the steel – the higher the grade the greater the breaking load. The numbers are often abbreviated further on the chain marking to 8, 10 or 12 respectively.

Gross Vehicle Mass (GVM)

The maximum operating weight of a vehicle as specified by the manufacturer including the vehicle's chassis, body, engine, engine fluids, fuel, accessories, driver, passengers and cargo. It is an important consideration when selecting equipment for vehicle recovery purposes.

Ground Release Shackle

A device that allows piling sections to be lifted into position and, when securely in place, released from the piling safely from the ground.

Hammerlok

The hammerlok was the world's first mechanical coupling link introduced by Columbus McKinnon in 1955. Most commonly used for connecting chain legs to master links and hook components. There are many different brands of connector available on the market today, though the name 'hammerlok' or 'hammerlock' has become common industry terminology for this form of mechanical connector.

Hand Truck

SEE PALLET TRUCK.

Hand Winch

A device consisting of a hand crank that rotates a drum or pulley through a torque multiplying / speed reducing mechanism.

Haven Grip

A registered brand name of Klein Tools in the USA. The Haven Grip (also referred to as 'Klein Haven Grip') is designed to grip and pull the likes of guy strand where some bending of the line is not an issue. See also 'chicago grip'.

Headroom

The clearance above the load to allow for an unobstructed lift.

Hitch

A sling configuration whereby the sling is fastened to an object or load, either directly to it or around it. Refer Basket Hitch, Choke Hitch and Vertical Hitch for information on the various types.

Hoist

A lifting device designed to raise or lower loads. Its service area is vertical over its mounting. Hoists may be attached to fixed or moveable structures by an upper hook or bracket and may be either power or manually operated.

Hoist Ring

SEE LOAD RING.

Hoist Trolley

SEE GIRDER TROLLEY.

Holding Brake

A brake used to hold a load in a static condition as opposed to decelerating to stop and hold a load.

Horizontal Component of Force

The force exerted by a multi-leg lifting sling which increases as the angle between the legs increases.

Hot Dip Galvanising

A process of applying a protective zinc coating by dipping the product in a bath of molten zinc. It is the most common outdoor protective coating in use, though the acid pickling process and heat involved make it unsuitable for aftermarket plating of high tensile steels. See also 'hydrogen embrittlement'.

Hydrogen Embrittlement

May also be referred to as hydrogen assisted cracking, and is a condition where hydrogen is absorbed into the metal causing minute cracks to form. Higher tensile steels are susceptible to hydrogen embrittlement if heat-treated or subjected to any process involving acid pickling, such as hot dip galvanising.

Jaw

The component/s of a machine or device designed to grip an object. In rigging equipment this terminology is most commonly applied to turnbuckles or rigging screws. May also be referred to as a 'clevis'.

Karabiner

A metal link with a hinged and spring-loaded gate often used in safety-critical applications, such as height safety or for activities such as mountaineering and rock climbing. Also available in low cost commercial quality models designed for non-load bearing applications. May also be written as 'carabiner'.

Keeper

A device positioned on a tiedown hook to prevent the hook from inadvertently releasing. It also prevents the hook from deforming.

Kenter Shackle

A purpose designed connector for joining two stud link chain elements together.

Lashing Capacity

The maximum allowed force on a load restraint chain (AS/NZS 4344) or webbing tiedown restraint (AS/NZS 4380) in straight pull.

Lashing Points

Describes the range of weld-on or bolt-on fittings designed as attachment points for load restraint. These form an integral part of the load control arrangements for any commercial vehicle body. Lifting points may often be used for this application (always refer manufacturer's recommendation) but many lashing points are not approved for use as lifting points. May also be referred to as 'lashing rings'.

Latchlok Hook

A brand name of Columbus McKinnon for their self-locking style hooks, though the name 'Latchlok' or 'Latchlock' has become generally accepted industry terminology for this form of hook. See also 'self-locking hook'.

LEEA

The Lifting Equipment Engineers Association. Formed over 70 years ago in the UK and recognised globally as the leading representative body for all those involved in the lifting industry.

LEENZ

Lifting Equipment Engineers New Zealand. An incorporated society formed in 1992 to adopt a common range of standards for New Zealand industry and to promote the safe use of lifting equipment. An associate member of LEEA.

Leg

Each sling used to form a multiple sling, eg, a 2-leg sling has two slings that form the separate legs of the assembly.

Lever Hoist

A manually operated device that functions through cranking of a handle (lever). A ratchet and pawl system rotates a gearing mechanism to provide the mechanical advantage. Most commonly feature a chain (load chain) with hook, though models are available with wire rope that seats on a pulley. While a chain block is designed for vertical lifts, lever hoists are able to lift in most positions, including horizontally. May also be referred to as a 'come along', 'lever block' or 'ratchet lever hoist'.

Lift Plan

Pre-job plan or procedure for safely executing a lift.

Lift Trolley / Lifter Trolley

A trolley with a lifting and lowering platform allowing the operator to access shelving without the need to bend and lift. May also be referred to as a 'manual stacker' or 'lift table'. Many varieties are available in both manual and electric with the most popular being the scissor lift models.

Lifting Clutch

Designed for the lifting and handling of precast concrete elements. The clutch is engaged with the head of an anchor embedded in the concrete casting, with the eye of the clutch connected to a chain sling for lifting purposes. May also be referred to in general terms by actual brand names such as 'swift lift' or 'locking claw'.

Lifting Point

An item specifically designed and certified for bolting or welding to equipment to provide an attachment point for connection of a lifting sling or lashing / restraint equipment. The range of lifting points includes eye bolts, eye nuts, load rings and hoist rings (hoisting eyes). Some lifting points incorporate a swivel assembly.

Lifting Register

A register of lifting tackle that contains details of the last recorded visual examination or proof test.

Lifting Tackle

Any sling, shackle, swivel, ring, hook or other appliance, including lifting beams, frames and spreaders, used in connection with a lifting appliance or from the hook of a crane.

Load Pin

An integral part of a clevis sling component that fits into the clevis and first link of chain. Retaining pins hold the load pin in place.

Load Ring

Designed to provide a more functional lifting point than an eye bolt. Often include a pivoting eye with swivel mechanism allowing the eye to be aligned in the direction of the load. Provide higher Working Load Limits than conventional eye bolts and help to get around the issues associated with side loading of same. May also be referred to as a 'hoist ring' and fit into a general range of bolt-on or weld-on fittings referred to as lifting points.

Load Rollers

A device with nylon rollers designed to move heavy objects across flat surfaces.

Load Skates

Low profile load movers, designed to facilitate the moving and positioning of a wide range of heavy loads from machinery to bridge structures.

Long Link Chain

Refers to chains with the longest inside length or pitch. Most commonly used in non-critical applications and offers less strength than short or regular link chains of the same grade. Some high tensile long link chains are manufactured in higher tensile steels for use on the likes of commercial trawlers and agricultural feed-out wagons.

Loomstate Webbing

Webbing that is untreated and undyed.

Lug Link

A pear-shaped clevis link most commonly used on snig chains or drag chains. not suitable for lifting applications.

Manual Stacker

SEE LIFT TROLLEY.

Maillon Rapide

A brand name belonging to Peguet in France that references a range of certified quick links. It is a mechanical connector which consists of a rod and nut with its design based on the principle of a chain link. The nut tightens over a thread to close a gate used for connection purposes. This makes them stronger than a karabiner which utilises a hinged gate. May simply be referred to as a 'rapide'.

Malleable Steel

Steel that can be shaped with hammering or rolling without fracture. Often used to describe mild steel or lead.

Man Cage

SEE WORK BOX.

Marlin Spike

A metal tool tapered to a rounded or flattened point designed for unlaying wire rope for splicing. Also available in various forms for use with fibre ropes and the tool actually derives its name from early tools named 'marlinespikes' which were designed to unlay marline ropes. In modern times a marlin spike refers to the tool used for working steel wire ropes while the fibre rope tool is more often named a 'fid' and may be manufactured from steel, aluminium or plastic.

Master Link

A forged or welded steel link used to support 1 or 2 legs of a lifting sling.

Maximum Working Load (MWL)

Where items are not designed for lifting applications, but Minimum Breaking Load information is available from a reputable source, the term Maximum Working Load (MWL) may be used to enable users to make an informed choice of product for their intended application. MWL is the maximum load that a product may have applied in a non-lifting application.

Mechanical Damage

Localised damage resulting from contact with another object

Mid Link

SEE REGULAR LINK.

Minimum Breaking Load (MBL)

The lowest fracture point of a product based on statistical testing undertaken by the manufacturer. May also be referred to as 'minimum breaking strength', 'nominal breaking load' or 'ultimate strength'.

Modular Spreader Beam

Assembled with a pair of end units to provide the connection between the top and the bottom slings, and a number of sections that are bolted between the end units to achieve the required span. Often used for heavy lifting applications, modular spreader beams offer more job flexibility than a rigid spreader beam. May also be referred to as a 'sectional spreader'.

Mooring Chain

The chains used in a permanent mooring that sit between a heavy anchoring block on the ocean floor and a buoy on the surface. The most common form of mooring is a 'swing mooring' which usually consists of a large diameter chain connected to the anchoring block with a smaller diameter intermediate chain and a smaller chain again (or rope) up to the surface buoy. Other hardware will include shackles and a swivel. The sizes of chain required will vary by area depending on size of vessel and local tidal conditions.

Moving Block

Describes a pulley block or snatch block action where the block moves with the load, meaning the load is supported by 2 falls of rope.

Multi Oblong Links

A forged or welded master link with 2 connected links used to fabricate 3 or 4 leg sling assemblies. Each of the connected links is designed to take a maximum of two sling legs.

Multi-Leg Sling

A lifting sling assembly comprising 2, 3 or 4 legs.

Multi-Sheave Block

A block with more than one sheave, each of which can support and change the direction of a rope or cable.

Nominal Breaking Load

SEE MINIMUM BREAKING LOAD.

Nominal Size

A size used for the purpose of general identification only. The actual size of a product will be approximately the same as the nominal size but need not be exactly the same. For example, a chain may have an actual diameter of 7.9mm but be referred to as 8mm nominal size. This is common practice with chain and components to match industry accepted sizes.

Non-Destructive Testing (NDT)

Testing that does not destroy or damage the item. Examples include magnetic particle and ultrasonic testing.

Omega Link

A form of connector for use on master links with a flat section. May also be used as an end component on a chain.

Overload Limit Device

Provided as standard equipment on some hoists, it is designed to limit the amount of overload that can be lifted therefore preventing damage to the hoist. The device is activated by loads and forces incurred when lifting a freely

suspended load on the load hook. May also be referred to as 'overload limiter'.

Pad Eye

A form of lifting eye most commonly associated with steel hulled marine vessels. Offshore regulations often limit the diameter of the eye in relation to the pin diameter of the shackle that will be fitted.

Pallet Truck

A piece of equipment with wheels, forks and a hydraulic jack that is used for the lifting and moving of pallets. May also be referred to as a 'pallet jack', 'hand truck' or 'pump truck'.

Pear Link

A link that tapers towards the top and commonly used as an end component on chains for choking applications. May also be referred to as an 'egg link'.

Permanent Magnet

Often used to describe magnetic lifting clamps, a permanent magnet is, as the name suggests, permanent. Unlike an electromagnet it does not rely on an electric current to have magnetic properties.

Personnel Cage

SEE WORK BOX.

Pitch

Often used to dimension the inside length of a chain.

Plate Clamp

A device available in a wide variety of types and sizes that has been designed specifically to lift and transport steel plate and other steel profiles.

Pneumatic Hoist

An air-powered hoist. A switch located in the air line can add air pressure to raise the hoist or release air pressure to lower the hoist.

Point Loading

Often used in relation to lifting hooks where it refers to the dangerous practice of loading the tip of the hook instead of correctly concentrating the load in the hook bowl.

Precast Chair

Designed to keep a ferrule stable during the casting of concrete elements. The ferrule provides a fixing point.

Proof Coil Chain

A mild steel chain that has had a proof test load applied to its full length during the manufacture process. Not suitable for lifting applications.

Proof Test

A quality control test applied to a product for the sole purpose of detecting defects in material or manufacture. The proof test load is based on a multiplier of the Working Load Limit, eg, twice the WLL. May also be referred to as a 'proof load test'.

Pulley Block

A sheave or sheaves combined with an axle, side plates and some form of connection point.

Quenching & Tempering

A process designed to toughen high quality steel. Stage one sees the steel heated to a high temperature and then rapidly cooled (quenching). This hardens the steel. In stage two the steel is again heated but to a lower temperature and then cooled in still air (tempering). This second stage toughens the steel while removing some of the hardness.

Quick Link

The name often given to commercial quality, uncertified versions of the Maillon Rapide.

Ratchet Lever Hoist

SEE LEVER HOIST.

Ratchet Tie Down

SEE TIE DOWN.

Rated Capacity

Commonly used by hoisting product manufacturers to detail the maximum allowable working load of their equipment.

Rated Strength / Rated Assembly Strength

According to the New Zealand Truck Loading Code the rated (assembly) strength is the maximum allowed force on a load restraint chain or webbing tiedown restraint providing all specified requirements are met. For chains the rated strength is not more than the Minimum Breaking Load and for webbing straps not more than half the Minimum Breaking Load.

Recess Former

Used to accurately set the anchor into its recess in the precast concrete panel. Manufactured in both rubber and steel.

Recovery Strap (Strop)

A nylon fibre strap or strop with sufficient elasticity to assist with the recovery of a bogged vehicle. As the strap begins to stretch, it builds up sufficient energy to overcome the force keeping the vehicle bogged, at which point the bogged vehicle is freed and pulled forward.

Regular Link

A chain with an inside length or pitch that sits between short link and long link chain of the same diameter. Most common to mild steel general purpose chains where the more generous inside length allows easier attachment to component items. A high tensile version is manufactured for commercial trawling use but is referred to as 'mid link chain'.

Reo Anchor

SEE EYE ANCHOR.

Retaining Pins

Most often spring loaded and in pairs, they hold a load pin within the clevis of a lifting component.

Retractor

This is used to suspend a tool above a work area. Retractors are designed to retract the cable when no force is applied. An amount of downward force must be continually applied to keep the suspended object at its extended position and prevent it from returning (retracting) to its original, pre-set position. This device is often confused with a spring balancer.

Rigging Screw

One left hand threaded bolt and one right hand threaded bolt screwed into each end of a tubular body. Used with rope for both length and tension adjustment. A central cross-hole is provided in the body to enable the body to be rotated by means of a bar inserted through that hole. The tubular body provides a reservoir for lubrication and they are recommended over turnbuckles for outdoor use.

Round Sling

An endless lifting sling constructed from a continuous loop of high tenacity polyester yarn enclosed within a woven cover.

Safe Working Load (SWL)

In many cases the Safe Working Load (SWL) and Working Load Limit (WLL) are the same. Following an assessment by a competent person, the WLL may be reduced. The SWL is the maximum load that the item is permitted to sustain under the conditions in which the item is to be used.

Safety Barrier Chain

A bright coloured plastic chain designed to create a barrier in hazardous areas or for crowd control. Also available in steel for longer life and less susceptibility to damage or vandalism.

Safety Factor

Same meaning as Design Factor. Cookes prefer the term Design Factor as an inexperienced operator may assume Safety Factor or Factor of Safety allows for unsafe rigging practices such as shock loading, improper equipment selection or overload conditions.

Safety Latch

The spring-loaded latch that prevents a hook from being unintentionally disconnected. May also be referred to as a 'safety catch'.

Security Chain

A special hardened chain designed to be difficult to cut with conventional bolt cutters. May also be referred to as 'antitheft chain'.

Sectional Spreader

SEE MODULAR SPREADER BEAM.

Self Colour

Steel products in their natural metallic grey finish. In higher tensile steels this finish may appear to be black due to the heat treatment process.

Self Recovery Winch

Generally used to describe a winch mounted to a vehicle for the purpose of recovery should the vehicle become stuck or bogged.

Self-Locking Hook

A hook designed to pivot in the middle and lock once a load is applied. Requires pressure on the trigger mechanism to release the hook when the load is grounded. May also be referred to as a 'latchlok' hook.

Selvage

The finished edge of synthetic webbing on a web sling designed to prevent unravelling.

Shackle

One of the oldest forms of lifting tackle, a shackle consists of a body with a hole at each end to accommodate a pin or a bolt. Those shackles most commonly used in lifting applications have a body that forms either a U shape (dee shackle, may also be referred to as a 'chain shackle') or a bow shape (bow shackle, may also be referred to as an 'anchor shackle'). They may include a split pin or similar to prevent accidental disengagement of the shackle pin / bolt.

Sheave

Used in pulley systems to gain a mechanical advantage. When combined with an axle, supporting shell and some means of attachment such as a hook or shackle, the sheave forms a pulley block or snatch block.

Shock Load

The force that results when an object suddenly accelerates or decelerates, but generally associated with the abrupt stopping of a falling object. When shock loading causes a product to fail this may occur under the product's Minimum Breaking Load due to the force exerted being greater than the product's energy-absorbing capacity. Items such as lifting chains have very high tensile strengths that allow them to hold extremely heavy loads, but have very low energy-absorbing capacities and can break easily when subjected to a dynamic shock load.

Short Link

Refers to chains with the shortest inside length or pitch. They also have the greatest strength for their given diameter and grade so will be found in use as lifting chains, hoist chains, transport lashing chains, anchor chains, etc.

Shortening Clutch

Enables a multi-leg sling to have different leg lengths to adjust to the balance or required lifting angle of the load.

Shot

Terminology used to describe a standard 27.5m length of stud link anchor chain. This length has been converted from what was originally 15 fathoms (90 feet). May also be referred to as a 'cable'.

Side Loading

A load applied to lifting equipment at any angle from the vertical.

Sling

A chain, wire rope or synthetic fabric made into a form, with or without fittings, for the purpose of handling loads.

Sling Hook

The traditional style lifting hook incorporating a safety latch. May have a clevis fitting for direct connection to chain or an eye to suit a connecting link or flat sling eye, wire rope thimble, etc.

Slip Hook

A type of sling hook without safety catch most commonly used on snig chains or drag chains. Not suitable for lifting applications.

Snap Shackle

A form of shackle with a spring-activated mechanism that allows it to be released quickly with one hand. Available with either fixed or swivel eye. Most common in stainless steel for marine applications.

Snatch Block

A pulley block that includes an opening device on one or both side plates to allow the easy fitting of a rope or cable at any point along its length.

Snatch Strap

SEE FOUR WHEEL DRIVE RECOVERY STRAP.

Snig Chain

A grade 70 heat-treated carbon steel chain fitted with a grab hook on one end and a lug link the other end, designed to drag fallen trees or large logs. An essential piece of hardware for most farmers. May also be referred to as a 'drag chain'.

Solid Thimble

Used where the wire rope is going to interface directly with rigging accessories that include a straight pin, such as jaw type rigging screws or turnbuckles, and where limited articulation is required. Commonly used to terminate crane ropes. Their solid state means they are considerably more resistant to crushing than conventional rope thimbles.

Spelter Socket

A spelter socket is used on the end of a wire rope for permanent connection to a fixed point. They are the strongest form of wire rope end connection if fitted correctly and will meet the Minimum Breaking Load (MBL) of the wire rope. Melted zinc was the means of fixing a spelter socket to wire rope for many years, but now special resins have also been designed for this purpose. Available in closed type with formed eye or in open type with a jaw fitting.

Spreader Beam

A rigid steel section designed to distribute the load of a lift across more than one point to increase stability and decrease the loads applied during lifting. Typically has two lugs going up to transmit load to the crane and two lugs down in order to attach to the object being lifted. May also be referred to as a 'spreader bar'.

Spring Balancer

Allows a worker to move a suspended tool or object up or down with very little effort. The tool remains almost weightless during use as it is free of gravitational force. Through a spring adjustment, the balancer can be set to remain in position or to retract when the tool or object is released.

Stainless Steel

An alloy steel with a minimum of 10% chromium content. The two common grades of stainless steel are 304 and 316; the addition of 2% molybdenum makes 316 more resistant to corrosion and oxidation than 304. Grade 316 also offers greater resistance to chemical attack.

Standard

A document that provides requirements, specifications, guidelines or characteristics that can be used consistently to ensure that materials, products, processes or services are fit for their purpose.

Static Load

A load that does not change position or magnitude over time. May also be referred to as a 'dead load'.

Stretching Screw

SEE TURNBUCKLE.

Stud Link Chain

An anchor chain that is cross-braced on every link to provide increased strength and resistance to crushing.

Swaging Tool

A tool with special jaws that are designed to crimp ferrules onto steel wire rope for the purpose of forming an eye. Used with purposely designed crimping sleeves. Also referred to as 'swaging pliers' or 'crimping tools'.

Swift Lift

SEE LIFTING CLUTCH.

Swivel

May take hundreds of different forms but, in general terms, a swivel is a device made of two parts, each of which swivels independently. Swivels may or may not have bearings depending on their intended use and some of the many types available include those designed specifically for lifting, trawling, forestry, mooring and anchor chain applications.

Swivel Hook

Available in various styles with either ball bearings, which allow the hook to rotate under load, or with plain bearing (bushed) for load positioning applications only.

Test Certificate

A document confirming that an actual load test has been applied to a product in line with a recognised Standard or documented specification.

Thimble

A protective steel loop around which a synthetic rope or wire rope is bent to form an eye. The thimble supports the rope and prevents overstressing, crushing, kinking and wear. See also 'tube thimble' and 'solid thimble'.

Tiedown

Industry accepted terminology for a length of flat webbing with tensioning device and hook or other connection device at each end designed for the restraining of loads during transport. May also be referred to as a 'cargo restraint' or 'ratchet tiedown'.

Tirfor Winch

While Tirfor is a brand name of Tractel in France, the name 'tirfor' is often used generically to describe a lever style wire rope winch.
SEE TUGGER WINCH.

Ton

Unit of measure common to the USA where 1 ton = 2,000 pounds (907kg). Other countries define 1 ton = 2,240 pounds (1,016kg) which lead to the terms 'short ton' (USA) and 'long ton' (other countries). Outside of the USA, the metric ton (tonne) is now the most common unit of measure.

Tow Strap (Strop)

Designed to have less elongation than a recovery strap while still providing sufficient elasticity to absorb any unintentional shock loading. Polyester is the most common fibre used, though high performance fibres, such as Kevlar, are proving popular for heavy equipment towing.

Traceability Code

An identification marking on a product that is cross-referenced to that product's test certificate. The code allows the manufacturer to trace the origin of raw materials used in the manufacturing process. In many cases (but not all cases) a test certificate will record this detail as the 'batch number' or 'lot number'.

Trailer Safety Chain

A rated long link chain fitted between a vehicle's drawbar and tow bar for the purpose of retaining connection between the towing vehicle and the trailer in the event of coupling failure.

Travelling Trolley

SEE GIRDER TROLLEY.

Trawl Chain

A high tensile alloy steel chain designed specifically for commercial trawling applications. Most common in mid-link and long-link formations.

Trigger

The apparatus on a self-locking hook that is pressed to release a load once grounded. Normally consists of a trigger, a spring and a pin. This set, when purchased as a spare part, is referred to as a 'trigger kit'.

Trigonometric Sling Rating

The trigonometric method of sling rating may only be applied where a multi-leg sling is to be used for a specific lifting application with the angle of the legs pre-determined and constant. The sling is then tagged and certified for this specific lifting angle.

Trolley

SEE GIRDER TROLLEY.

Trunnion Lift

Often used to describe a lift where rated eye bolts are loaded at right angles to their thread axis. When conventional eye bolts are used for trunnion lifting, the load taken by a single eye bolt should not exceed 25% of its marked WLL.

Tube Thimble

A thimble with a tubing formed around the outer, inside which the rope is seated for protection. Tube thimbles with a gusset are more resistant to crushing under load than conventional tube thimbles.

Tugger Winch

Uses self-gripping jaws instead of spools to move wire rope through the winch. May also be referred to as a 'tirror winch' or 'lever winch'.

Turnbuckle

One left-hand threaded bolt and one right-hand threaded bolt screwed into each end of an open frame. Used with rope for both length and tension adjustment. Unlike a rigging screw, a turnbuckle does not have a tubular body, which allows them

to be more easily locked off when in use. Their open frame, however, makes them less suitable for outdoor use. May also be referred to as a 'bottlescrew' or 'stretching screw'.

Type Approval

The approval of a product design by an independent body, such as DNV or Lloyds, that is granted for a period of time, most commonly four years.

Ultimate Strength

SEE MINIMUM BREAKING LOAD.

Under Hung

Used to describe an object hung from the bottom of a beam or structure.

Uniform Sling Rating

The most common method used for rating lifting slings that bases the Working Load Limits (WLL) on use of the slings within a range of angles. Calculations are based on worst case scenarios.

Vertical Hitch

A sling configuration where one eye is engaged directly to the load, while the other eye is engaged to an attachment point.

Web Sling

A flat lifting sling constructed of webbing woven from high tenacity polyester or nylon yarn. May have an eye or rated fittings sewn each end, or may be sewn in an endless configuration. May be constructed of one or more webbing layers (1 ply, 2 ply, etc.) and preferred to round slings where a larger surface area is required for load stability.

Wedge Socket

Wire rope fitting in which the rope end is secured by a wedge.

Winch

A mechanical device that is used to wind a rope or cable in or out so that the resulting tension pulls an object. The winch drum may be powered manually or by air, electricity or hydraulics. Most winch drums are made of fabricated steel and are designed for a specific load capacity. Primarily winches are designed as pulling devices, though some winches have special braking systems and no freespooling mechanism, which enables them to be used in certain hoisting applications.

Wire Rope Grip / Wire Rope Clip

A fitting designed for clamping two parts of wire rope that comprises a U bolt with nuts and a saddle for nesting of the wire rope. May also be referred to as a 'bulldog grip'.

Work Box

Certified cages used to transport personnel to and from any high or low level work situation. May also be referred to as a 'man cage', 'personnel cage' or 'work cage'. Certified cages designed for carrying tools or other equipment are named goods cages or tool cages.

Working Load Limit (WLL)

The Working Load Limit of a product is specified by the manufacturer, usually in line with a Standard or other recognised industry specification. It is the maximum mass or force which any component or assembly is authorised to support in general service when the pull is applied in-line.

Works Certificate

A certificate raised by a product manufacturer detailing full description of an item along with information on the Standard or specification to which it has been produced.

Worm Drive

A gear composition in which a screw (worm) meshes with a gear wheel. These have a unique property in that the worm can easily turn the gear, but the gear cannot turn the worm. This feature is useful for winches where the locking feature can act as a brake. Commonly used where large gear reductions are required. Also referred to as 'worm gear'.

Zinc Plated

A process where zinc is applied by using an electrical current. As it is a thinner coating than hot dip galvanising it is unsuitable for outdoor applications. Its advantages are its brightness and uniform colour, making it more aesthetically appealing.

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