



# ALL-RIG

LIFTING & ENGINEERING SUPPLIES PTY. LTD.



PROUDLY REPRESENTING THE GLOBAL LIFTING GROUP

# PRODUCT CATALOGUE

# ALL-RIG PROFILE

All-Rig Lifting & Engineering Supplies was founded on 1st March 1994 by Mr Des Heath & Sons, having many years experience in the lifting industry, which qualifies them to provide a high standard in servicing the industry.



In 1997, HES and other like minded companies formed The Global Lifting Group.

The Group was established to enhance both our local and international capabilities and now has representation throughout Australia, Papua New Guinea, New Zealand and Indonesia.



**"Lifting  
Standards  
Worldwide"**

All-Rig Lifting & Engineering Supplies is a member of the Lifting Equipment Engineers Association (LEEA).

LEEA is the leading authority training companies and their staff on the safe and legal use of overhead lifting equipment. LEEA members must pass a rigorous technical audit to maintain professional worldwide standards.

We are still growing and are one of the largest privately owned companies in the lifting equipment field servicing the industry.

We currently have branches in Townsville, Emerald and Indonesia and we are also affiliated with the "Global Lifting Group of Companies" which has branches throughout the East Coast of Australia. We provide a vast range of stock and services covering the lifting industry from Queensland and the Northern Territory through to Papua New Guinea, Indonesia, Mongolia and Africa.

The company places great importance on providing a first class service to its clients. All stock that is supplied for lifting purposes complies with Australian and International Standards.

Stock alone will not solve all problems and with this in mind staff are continually trained to meet today's needs, and ensure the safety of their clients.

The company offers the following services.

- On-site audits and Inspection of lifting equipment (local, Interstate and International)
- Safety training courses
- Engineer designed and tested lifting beams etc
- Supply and Installation of height safety and fall prevention equipment
- Technical support and repairs

Our repair services are available for most lifting equipment and a large range of spare parts is carried in stock for all equipment which is then tested and certified after repair in our N.A.T.A. certified testing laboratory. All inspection and testing staff are fully trained to LEEA standards which is an internationally recognised training authority specifically designed for the Lifting Equipment Industry.

All-Rig Lifting & Engineering Supplies Pty Ltd is a company dedicated to today's needs in business and ensure a first class standard of service at all times.







# GLOBAL LIFTING GROUP

BALIKPAPAN

KARRATHA

PERTH

GEELONG

ADELAIDE

MELBOURNE

TOWNSVILLE

BUNDABERG

BRISBANE

SYDNEY  
WOLLONGONG

AUCKLAND

**ALL-RIG**  
LIFTING & ENGINEERING SUPPLIES PTY. LTD.

**ALL-WAYS**  
**RIGGING GEAR**  
LIFTING • ENGINEERING • FORGING

**HES**  
HOISTING  
EQUIPMENT  
SPECIALISTS  
Quality Lifting and Rigging Solutions

**H.E.S. NZ LTD**

**HESWA**

**HES**  
WINCHES  
AUSTRALIA  
Quality Winch Solutions

**Lifting Victoria**  
LIFTING & RIGGING GEAR

**Rigging Rentals**

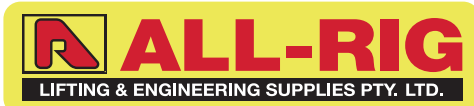
**SHE**  
SCHILLINGS  
HOISTING  
EQUIPMENT  
Quality Lifting & Rigging Solutions

**STENHOUSE**  
LIFTING & SAFETY SOLUTIONS

**TOTAL**  
LIFTING & RIGGING Pty Ltd



ALL-RIG HAS BEEN PROVIDING QUALITY  
HOISTING, LIFTING & RIGGING SOLUTIONS  
FOR CONSTRUCTION, ENGINEERING AND  
MINING INDUSTRIES FOR 20 YEARS



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# Lifting Standards Worldwide



When it comes to overhead lifting, nothing should be left to chance. Stay safe in the knowledge that TEAM cards are only issued to employees of LEEA member companies who have passed LEEA's rigorous Diploma examinations.

## Tried and trusted across the globe

- LEEA was founded in 1944 and is now the largest global trade association in the lifting industry with over 600 member companies and more than 1,100 branches in 46 countries.
- Members in Australia since 2009 working through a locally elected committee.
- The Global group companies were founder members in Australia, now 31 member companies with 80 branches across Australia.
- LEEA is a globally recognised training body having qualified over 11,000 technicians worldwide.
- The TEAM card is an independently assessed Internationally recognised qualification exclusive to LEEA member companies.

**Don't gamble with your lifting equipment, insist on a TEAM card**



To find out more about how a LEEA TEAM card can help you, visit [leea.com.au](http://leea.com.au)



# INTERNATIONAL SUPPLIERS



Thiele is one of the world's leading manufacturers of lifting and conveying products. Thiele produces quality chains and accessories compliant with worldwide quality assurance criteria up to Grade 100, in many dimensions and finishes for a wide assortment of uses.

## N.G.K.

Nagaki Seiki Co Ltd Japan manufactures the highest quality NGK wire rope grips, ratchet pullers, ratchet wrenches and tension meters. These products are manufactured to the highest quality to suit all wire rope tensioning applications. ISO9001-2000.

## DSR

DSR is a world leader in the manufacture of quality fibre and wire rope as well as synthetic lifting slings. As the producer of the worlds strongest fibre rope in SuperMax, DSR have proved through commitment, technology and quality that they are at the forefront of product innovation.

## BRIDON

Bridon is the world leader in the manufacture of wire rope solutions for the most demanding applications delivering reassurance through unrivalled experience. Bridon provides a comprehensive and competitive range of solutions in steel wire, wire rope and strand.



Eilon Engineering's RON dynamometers, load cells, hanging scales and crane scales are load, tension and force measurement devices used for weighing during lifting, force and load testing and overload prevention.



DUALLIFT is a global leader in man riding hoists and hoisting devices for material transport. DUALLIFT hoists are strong, safe and effective to work for many applications and can be customized to customer specifications. This state of the art process has given DUALLIFT a strong competitive advantage.



Excel has vast experience in manufacturing grade 80/100 and stainless steel chain and wire rope fittings. These quality lifting products are manufactured in France and comply to the rigorous requirements of the European and International standards.



TWG (formerly Tulsa Winch Group) is part of the Dover Corporation. TWGs portfolio of winch products is recognized around the globe by brand names that include DP Winch®, LANTEC®, Pullmaster®, and Tulsa Winch® - each market leaders in their own right.



Dinamic Oil specializes in the construction of modular planetary gearboxes, slewing gearboxes, winch style gearboxes, track drives, rotary tables and winches with the flexibility to provide solutions for any application - big or small.



Founded in 1947 in the Netherlands, Gebuwin produces lifting and hoisting equipment with the emphasis on hand-driven winches. In addition to its standard winches, Gebuwin is also able to deliver custom-made product to ensure optimal end results are achieved.



Caldwell is the leading manufacturer of below the hook lifting solutions. Design and material quality is rigorously controlled by the ASME standards and verified by senior engineers. Caldwell's engineered lifting equipment provides custom design with the economy of a standard product.



Wirop Industrial supplies the global wire rope industry and manufactures hydraulic swaging machines (from 30t to 4000t), swaging sleeves and fittings, dies, horizontal test benches (from 50t to 3000t) recoiling machines and portable hydraulic tools for swaging and cutting wire rope. Wirop sells into more than 75 countries around the world.

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**GLOBAL  
LIFTING**

**GROUP**

**IF YOU CAN'T FIND WHAT YOU'RE LOOKING  
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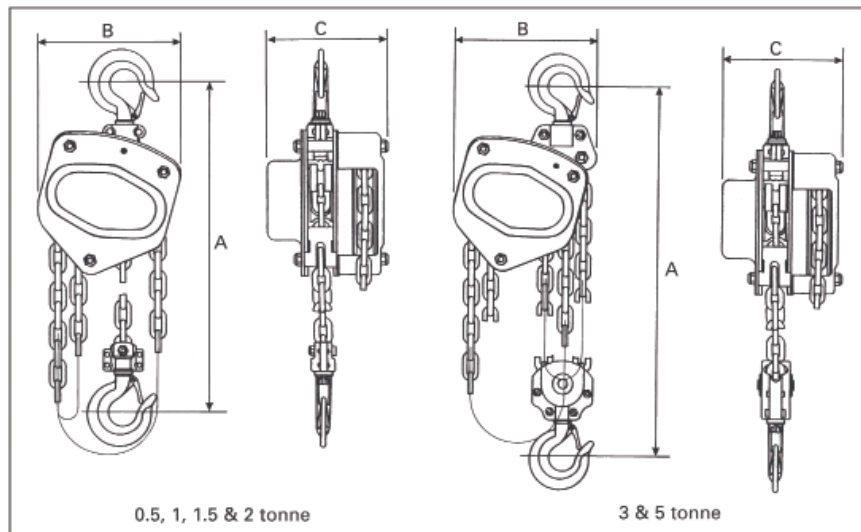
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# LIFTING & HOISTING



**'S' SERIES CHAIN HOISTS****Capacities: 500kg to 50 tonnes**

- Lightweight robust construction
- Super strength alloy loadchain
- Fully machined liftwheel
- Minimum headroom
- Minimum effort to raise maximum load
- Cast steel safety latches
- Lower hook complete with thrust race
- Fully enclosed gear train
- Weather protected automatic Weston brake with unique twin pawls
- Galvanised handchain as standard
- Durable baked enamel paint protection stainless steel labels
- Spare parts always available



Chain Bags  
also available

Product Code	SOCB05	SOCB1	SOCB2	SOCB3	SOCB5	SOCB10
Working Load Limit	0.5 t	1 t	2 t	3 t	5 t	10 t
Standard lift	3 m	3 m	3 m	3 m	3 m	3m
Falls of chain	1	1	1	2	2	4
Effort to lift W.L.L.	23 kg	30 kg	35 kg	27 kg	41 kg	39 kg
Net weight	10 kg	12 kg	22 kg	32 kg	46 kg	68 kg
Loadchain diameter	6 mm	6 mm	8 mm	8 mm	10 mm	10 mm
CLEARANCE DIMENSIONS (mm)						
A (Headroom)	270	317	414	465	636	750
B (Width)	127	158	187	210	253	373
C (Depth)	131	140	161	161	161	184
Hook opening (upper)	30	28	33.5	40	50	64
Hook opening (lower)	30	28	33.5	40	50	64

- N.B. Specifications and dimensions for 20, 30 and 50 tonne available.

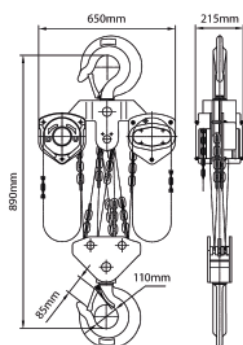
**COMPLIES WITH AS/NZS1418.2**

Meets or exceeds all relevant world standards

## 'S' SERIES CHAIN HOISTS

**20 tonne (WLL)**

Product Code: SOCB20



Working Load Limit (WLL)	20 t
Standard Lift	3m
Falls of Chain	8
Hand Effort to Lift WLL	42kg x 2
Net Weight	193kg
Load Chain Diameter	10mm

## FEATURES:

- Strong robust construction
- Super strength alloy load chain
- Fully machined lift wheel
- Minimum effort to raise maximum load
- Cast steel safety latches
- Lower hook complete with thrust race
- Fully enclosed gear train
- Weather protected automatic Weston brake with unique twin pawls
- Galvanised hand chain as standard
- Powder coated paint protection
- Stainless steel ID labels
- Replacement parts always available

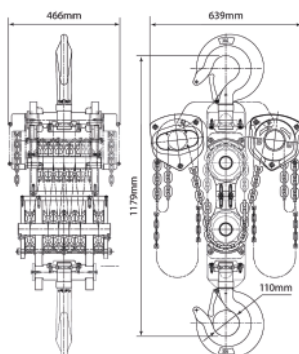
**COMPLIES WITH AS/NZS1418.2**

OzBlok have been a leader in the development and manufacture of quality, reliable chain hoists in the Australian market for over 25 years. We are proud to announce the addition to our range with these large lift models in 20, 30 and 50 tonne capacities.

With their advanced design and performance these new hoists have applications in heavy engineering, construction, marine, offshore exploration and mining industries. Each hoist is factory overload tested and comes with test certificate and operating instruction manual. Available in special lift heights or with optional overload protection. Full technical support and on-site service always available.

**30 tonne (WLL)**

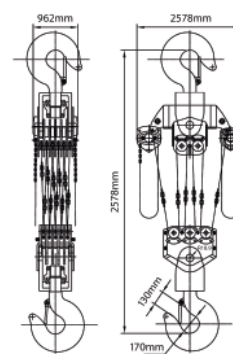
Product Code: SOCB30



Working Load Limit (WLL)	30 t
Standard Lift	3m
Falls of Chain	12
Hand Effort to Lift WLL	42kg x 2
Net Weight	225kg
Load Chain Diameter	10mm

**50 tonne (WLL)**

Product Code: SOCB50



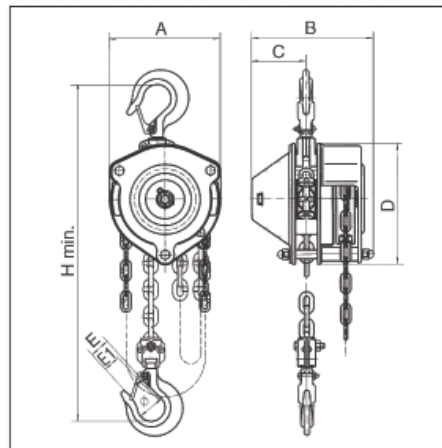
Working Load Limit (WLL)	50 t
Standard Lift	3m
Falls of Chain	22
Hand Effort to Lift WLL	42kg x 2
Net Weight	1092kg
Load Chain Diameter	10mm



## OZ MECHANICAL CHAIN HOIST

**Capacity: 250kg**

- Lightweight robust construction
- Chrome plated covers
- Super strength alloy loadchain
- Minimum headroom
- Thrust race in lower hook
- Fully enclosed gear train
- Galvanised hand and load chain
- Minimum effort to lift WLL
- Spare parts always available



Model		OMCB025
W.L.L.	tonnes	0.25
Lift	m	2
Test load	t	0.375
Headroom (hook to hook) H min.	mm	230
Effort to lift full load N	kg	12
No. of load chain fall lines		1
Load chain (dia. x pitch)	mm	ø4 x 12
Dimensions mm	A	100
	B	110
	C	48.5
	D	109
	E	18
	E1	15.5
	ø	25
Net weight	kg	3.5
Extra weight per metre of extra lift	kg	0.54

**COMPLIES WITH AS/NZS1418.2**

Meets or exceeds all relevant world standards

**IF YOU CAN'T FIND WHAT YOU'RE LOOKING FOR, CALL OUR SALES TEAM & IF WE DON'T HAVE IT, WE'LL GET IT FOR YOU!**





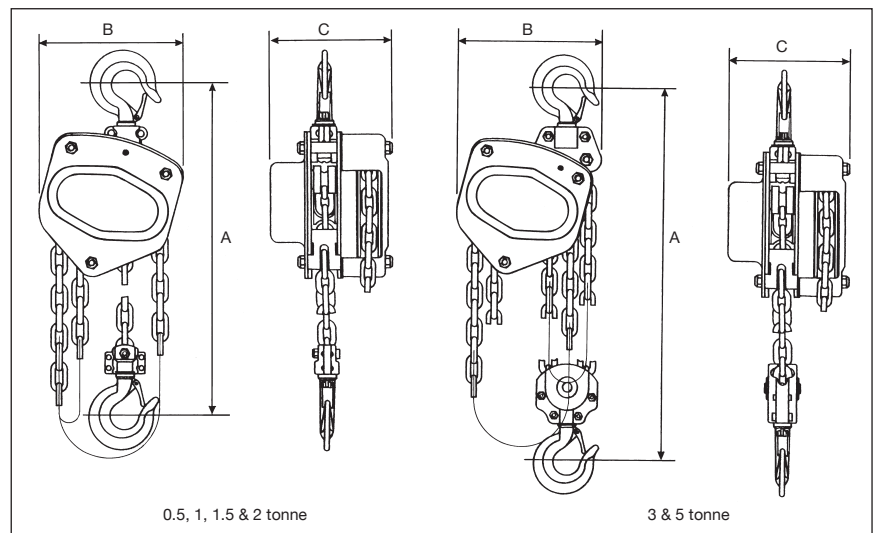

## LOADSAFE CHAIN HOISTS

**Capacities: 500kg to 50 tonnes**

### FEATURES

- Lightweight robust construction
- Super strength alloy loadchain
- Fully machined liftwheel
- Minimum headroom
- Minimum effort to raise maximum load
- Cast steel safety latches
- Fully enclosed gear train
- Lower hook complete with trust race
- Weather protected automatic Weston brake with unique twin pawls
- Galvanised handchain as standard
- Durable baked enamel paint protection
- Stainless Steel labels
- Spare parts always available

Loadsafe Chain Hoists are fitted with an overload - activated clutch which protects the operator from injury and the hoist from damage. Should an overload occur, the hoist will automatically stop transmitting the load, warning the operator to either reduce the load or select a hoist with a higher lifting capacity. Even when clutch is activated the load can be transmitted in the "DOWN" direction.



Product Code	SOCB05LS	SOCB1LS	SOCB1.5LS	SOCB2LS	SOCB3LS	SOCB5LS	SOCB10LS
Working Load Limit	0.5t	1t	1.5t	2t	3t	5t	10t
Standard lift	3m	3m	3m	3m	3m	3m	3m
Falls of chain	1	1	1	1	2	2	4
Effort to lift W.L.L.	23kg	30kg	32kg	35kg	27kg	41kg	39kg
Net weight	10kg	12kg	13kg	22kg	32kg	46kg	68kg
Loadchain diameter	6mm	6mm	8mm	8mm	8mm	10mm	10mm
CLEARANCE DIMENSIONS (mm)							
A (Headroom)	270	317	399	414	465	636	750
B (Width)	127	158	187	187	210	253	373
C (Depth)	131	140	161	161	161	161	184
Hook opening (upper)	30	28	36	33.5	40	50	64
Hook opening (lower)	30	28	36	33.5	40	50	64

### COMPLIES WITH AS/NZS1418.2

Meets or exceeds all relevant world standards

## SAFE-T CHAIN HOIST

### Capacities: 500kg to 20 tonnes

#### Features:

- Lightweight robust construction
- Super strength alloy loadchain
- Fully machined liftwheel
- Minimum headroom
- Minimum effort to raise maximum load
- Cast steel safety latches
- Lower hook complete with thrust race
- Fully enclosed gear train
- Weather protected automatic Weston brake with unique Twin Pawls
- Galvanised handchain as standard
- Durable baked enamel paint protection
- Stainless Steel labels
- Spare parts always available



Capacity (tonnes)	0.5	1	1.5	2	3	5	7.5	10	20
Standard lift (m)	2.5	2.5	2.5	3	3	3	3	3	3
Effort req to lift rated load (N)	231	309	320	320	360	414	420	420	420x2
Strands of load chain	1	1	1	1	2	2	3	4	8
Load chain dia (mm)	5	6	7.1	8	7.1	9	10	10	10
Net weight (kg)	7	10.5	17	18	22	40	52	70	162
Extra weight/metre of extra lift (kg)	1.5	1.8	2.1	2.3	4.2	4.6	7.3	9.8	19.6



## VITAL CHAIN HOISTS

### Capacities: 500kg to 20 tonnes

A range of heavy-duty chain blocks suitable for many applications in the industrial, rural, construction and mining industries.

#### FEATURES

- Made in Japan from optimum high quality steel to conform to strict J.I.S. and I.S.O. regulations
- Designed for long term use providing the lowest possible per-use cost
- Quality caged needle bearing on load sheave and thrust bearing on bottom hook
- Hardened special alloy steel load chain identification marked to relevant standards
- Corrosion protection



Model	05VH5	10VH5	15VH5	20VH5	30VH5	50VH5	75VH5	90VH5	92VH5	93VH5
Capacity tonne	0.5	1.0	1.5	2.0	3.0	5.0	7.5	10	15	20
Standard Lift m	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
Net Weight kg	8.6	11.5	13.8	21.6	22.0	41.0	60.5	77.5	150	190
Headroom C mm	305	345	370	425	505	635	740	760	850	870
Pull to Lift Load kg	25	33	34	34	35	39	41	41	41x2	41x2

#### COMPLIES WITH AS/NZS1418.2

Meets or exceeds all relevant world standards.

## LOADSET CHAIN HOISTS

### Capacities: 500kg to 30 tonnes



Robust all steel chain blocks suitable for all industrial applications.

- Loadset brand quality
- Heavy duty bolt through design
- Galvanised load and hand chain
- Cast steel safety latches
- Durable painted finish
- Bottom hook fitted with bearing
- Standard chain lengths 3mtr & 6mtr with longer drops available on request
- Tested to the requirements of AS1418.2
- Each unit supplied with test certificate



Product Code	LS05x3LS	LS1x3LS	LS2x3LS	LS3x3LS	LS5x3LS	LS10x6LS	LS20x6LS
WLL	0.5t	1t	2t	3t	5t	10t	20t
Standard Lift	3m	3m	3m	3m	3m	3m	6m
Falls of chain	1	1	1	2	2	4	8
Effort to lift WLL	23kg	30kg	35kg	27kg	41kg	39kg	42kgx2
Net Weight	10kg	12kg	22kg	32kg	46kg	116kg	240kg
Loadchain diameter	6mm	6mm	8mm	8mm	10mm	10mm	10mm





# Proven performance in Lifting & Hoisting Products

*Orb*  
**Blok**

- Chain Hoists
- Lever Hoists
- Hoisting Assemblies
- Plate Clamps
- Girder Trolleys
- Girder Clamps
- Wire Rope Winches

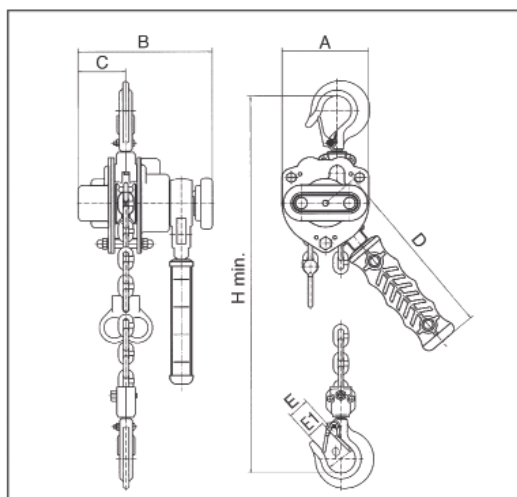




## OZ MECHANICAL LEVER HOIST

## Capacities: 250kg and 500kg

- Lightweight robust construction
- Chrome plated covers
- Super strength alloy loadchain
- Minimum headroom
- Fully enclosed gear train
- Galvanised load chain
- Minimum effort to lift WLL
- Spare parts always available



Model		OMLB025	OMLB05
W.L.L.	tonnes	0.25	0.5
Lift	m	1	1.5
Test load	t	0.375	0.75
Headroom (hook to hook) H min.	mm	215	255
Effort to lift full load	kg	13	18.5
No. of load chain fall lines		1	1
Load chain (dia. x pitch)	mm	ø4 x 12	ø5 x 15
Dimensions mm	A	75	90
	B	116	135
	C	41	51.5
	D	157	180
	E	18	24
	E1	15.5	21
	ø	25	32
Net weight	kg	2	3.5
Extra weight per metre of extra lift	kg	0.35	0.55

## COMPLIES WITH AS/NZS1418.2

Meets or exceeds all relevant world standards

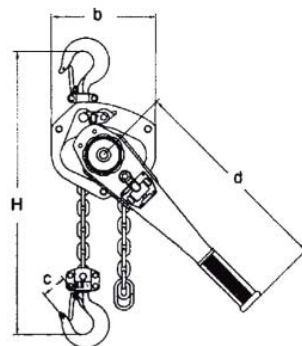
## OZ MECHANICAL LEVER HOISTS

## Capacity: 750kg to 6 tonnes

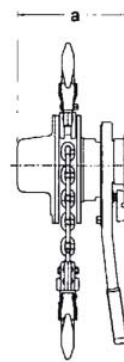
- Robust all steel construction
- Simple free-wheel operation
- Super strength alloy loadchain  
1.5t, 3t and 6t models fitted with Grade 100 chain
- Powder coated paint finish
- Stainless steel name plates
- Cast steel safety latches
- Four pocket liftwheel
- Forged malleable hooks with wide throat opening and deformation indicators
- Test certificate and instruction manual supplied with every hoist
- Spare parts always available

**IMPORTANT FEATURE**

- Minimal pre-load required to activate brake



0.75, 1, 1.5 &amp; 3 tonne



6 tonne

Capacity (tonnes)	Model No.	No. of Falls	Chain dia. (mm)	Load Chain Grade	Effort to Lift Rated Load (kg)	Net Wt. with 1.5m Lift (kg)	Extra Wt. per m (kg)	Dimensions (mm)				
								a	b	c	d	H
0.75	OMLB075	1	6.3	80	15	6.9	0.85	148	128	37	256	295
1.5	OMLB150	1	7.1	100	18	9.7	1.11	163	148	47	368	335
3	OMLB300	1	9.0	100	38	16.3	1.77	191	181	62	368	405
6	OMLB600	2	9.0	100	39	26.7	3.55	191	244	78	368	550

**COMPLIES WITH AS/NZS1418.2**

Meets or exceeds all relevant world standards

**IF YOU CAN'T FIND WHAT YOU'RE LOOKING FOR, CALL OUR SALES TEAM & IF WE DON'T HAVE IT, WE'LL GET IT FOR YOU!**

## OZ LOADSAFE LEVER HOIST

**Capacity: 800kg to 9 tonnes****Features:**

- Unique hand wheel & free wheel knob design.
- Improved hook tips with cast self-locking latches.
- Innovative, patented friction disc with no brake discs required.
- Caged roller bearings on the load sprocket.
- Dacromet finish on the ratchet disc, cam, disc hub and change over disc.
- Intergrated safety Overload Clutch.
- Weston brake with twin pawls.
- Stainless steel name plates.
- Minimum handle effort required to raise loads.
- Load chain includes enlarged end ring.
- Super strength plated alloy load chain.
- All steel construction.
- Powder coated paint finish.

**Applications:**

This new robust Lever Hoist has many application choices for use in construction, engineering, forestry, automotive, offshore and underground mining when a safe reliable hoist with increased working load is needed.

Complies to AS1418.2

Meets or exceeds the following standards:

ANSI B30.21

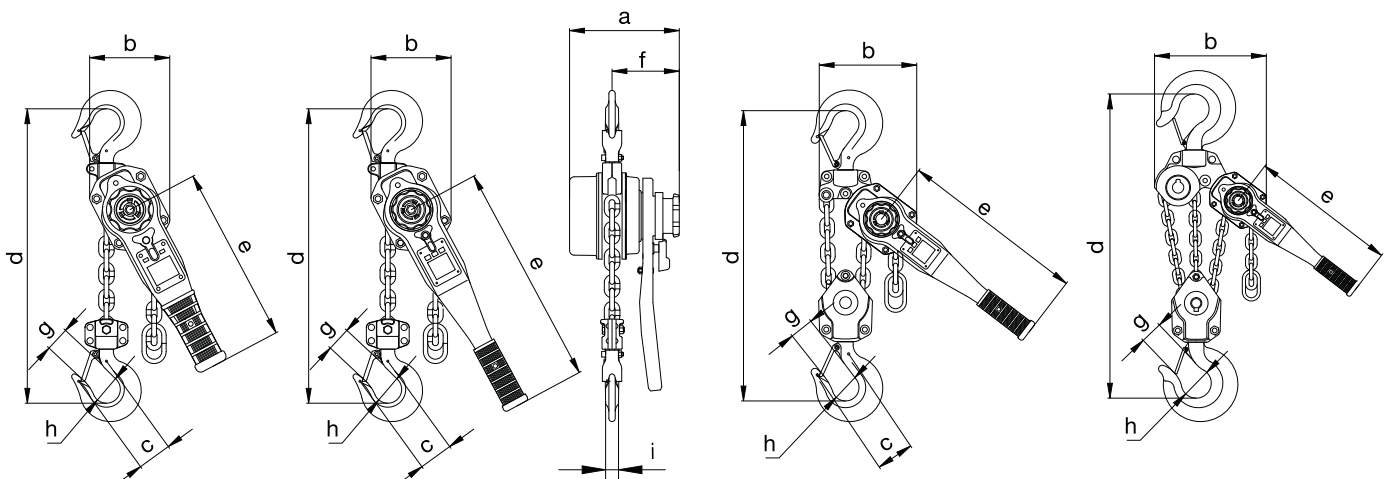
ANSI B30.16



Product Model Code		LSLH08	LSLH16	LSLH32	LSLH63	LSLH90
Capacity W.L.L.	tonnes	0.8	1.6	3.2	6.3	9.0
Load Chain falls		1	1	1	2	3
Load Chain Dia. x pitch	mm	5.6x15.7	7.1x19.9	10x28	10x28	10x28
Pull to lift rated load	N	215	303	372	382	392
Proof Load	kg	1200	2400	4800	9500	13500
Stand lift	m	1.5	1.5	1.5	1.5	1.5
Net weight	kg	5.7	8.0	13.6	26.0	40.0
Gross weight	kg	6.1	8.5	14.2	26.6	46.5
Extra weight/metre of chain	kg	0.7	1.1	2.3	4.7	7.0
Dimensions mm	a	146	164	196	196	196
	b	119	126	159	218	298
	c	41.5	52	61.9	84.3	-
	d	280	335	395	540	680
	e	245	265	415	415	415
	f	96	100	114	114	114
	g	26.5	35.5	43	53	64
	h	35.5	42.5	50	60	85
	i	14	19	24.5	34	40

**COMPLIES WITH AS/NZS1418.2**

Meets or exceeds all relevant world standards



0.8, 1.6 tonne

3.2 tonne

6.3 tonne

9 tonne

### LOADSET MINI LEVER HOIST

#### Capacity: 250kg



Strong and powerful yet compact and lightweight lever hoist capable of lifting, pulling or lowering up to 250kg. Small enough to fit in your toolbox.

#### Special features:

- Loadset brand quality
- Compact light weight design
- Chrome plated covers
- Galvanised load chain
- Easy to use free wheeling capabilities

CAPACITY tonnes	HEADROOM mm	LEVER LENGTH mm	CHAIN DIA. mm	CHAIN FALLS No.	NET WEIGHT kg
0.25	235	175	4	1	2

#### COMPLIES WITH AS/NZS1418.2

Meets or exceeds all relevant world standards.



### LOADSET LEVER HOISTS

#### Capacities: 500kg to 9 tonnes



Robust all steel lever hoist suitable for all industrial applications.

#### Special features:

- Loadset brand quality
- Lightweight robust construction
- Easy to use free wheeling capabilities
- Cast steel safety latches
- Galvanised load chain
- Durable painted finish
- Automatic Weston brake with twin pawls
- Bottom hook fitted with bearing
- Longer load chain lengths available on request

CAPACITY tonnes	HEADROOM mm	LEVER LENGTH mm	CHAIN DIA. mm	CHAIN FALLS No.	NET WEIGHT kg
0.5	280	330	5	1	4.3
0.75	350	300	6	1	7.5
1.5	470	390	8	1	12
3.0	520	430	10	1	20
6.0	640	430	10	2	26
9.0	820	430	10	3	30

#### COMPLIES WITH AS/NZS1418.2

Meets or exceeds all relevant world standards.





## VITAL LEVER HOISTS

### Capacities: 250kg to 9 tonnes

An extremely sturdy, highly versatile tool suitable for a multitude of lifting, pulling, tensioning and securing applications.

#### FEATURES

- One touch operation for free chain adjustment
- Light weight and exceptionally strong
- Robust all-steel construction ensures safety
- Used extensively in shipbuilding, coal mining, forestry, power transmission, construction etc.
- Special underground mining model "VR" available

Model		NR2-03	NR2-05	NR2-08	NR2-10	NR2-15	NR2-30	NR2-60	NR2-90
Capacity	tonne	0.25	0.5	0.75	1	1.5	3	6	9
Standard Lift	m	1.0	1.5	1.5	1.5	1.5	1.5	1.5	1.5
Net Weight	kg	1.9	3.5	6.0	7.2	9.8	16.6	27.0	47.3
Headroom C	mm	230	260	295	325	350	425	565	680
Pull to Lift Load	kg	30	34	21	23	27	38	39	40
Chain Diameter	mm	4.0	5.0	5.6	6.3	7.1	9.0	9.0	9.0

### COMPLIES WITH AS/NZS1418.2

Meets or exceeds all relevant world standards.



## SAFE-T LEVER HOIST

### Capacities: 250kg and 9 tonnes

#### Features:

- Robust all steel construction
- Simple free-wheel operation
- Super strength alloy loadchain
- Powder coated paint finish
- Stainless steel name plates
- Cast steel safety latches

Capacity (tonnes)	0.25	0.5	0.75	1	1.5	2	3	6	9
Standard lift (m)	1	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
Effort req to lift rated load (N)	250	340	140	140	220	240	320	340	360
Strands of load chain	1	1	1	1	1	1	1	2	3
Load chain dia (mm)	4	5	6	6	7.1	8	10	10	10
Net weight (kg)	1.8	4	7	7	10	11.8	17.5	28.5	45
Extra weight/metre of extra lift (kg)	0.41	0.52	0.8	0.8	1.1	1.4	2.2	4.4	6.6



NOTE: Overload protection excludes 0.25t and 0.5t models.



## SAFE-T PLAIN TROLLEY

### Capacities: 500kg to 20 tonnes

#### Features:

- Lightweight robust construction
- Super-quick adjustment to any monorail
- Durable baked enamel paint protection
- Precision ball bearing trolley wheel

Capacity (tonnes)	0.5	1	1.5	2	3	5	10	20
Beam width (m)	64-140	64-140	76-165	76-165	76-165	88-203	125-203	136-203
NW (kg)	7	12	18	22	30	55	93	235

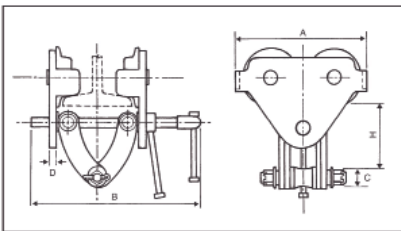


## OZ BLOK GIRDER TROLLEY WITH CLAMP

### Capacities: 1 tonne to 5 tonnes

- Robust all-steel construction
- Durable baked enamel paint protection
- Super-quick adjustment to any girder width in range
- Spare parts always available

*Oz Blok*



Product Code		OGCT01	OGCT02	OGCT03	OGCT05
Working Load Limit	kg	1000	2000	3000	5000
Test load	kN	12.25	24.5	36.8	61.3
Min. radius	mm	1.1	1.3	1.5	1.7
Clearance Dimensions mm	A	260	260	330	380
	B	340	340	360	480
	C	∅20	∅20	∅24	∅24
	D	10	12	14	19
	H	171-232	237-285	160-200	225-280
Beam width	mm	63-203	76-203	85-210	100-305
Net Weight	kg	11	13	26	46

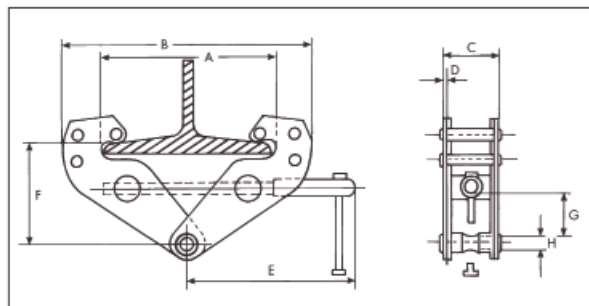
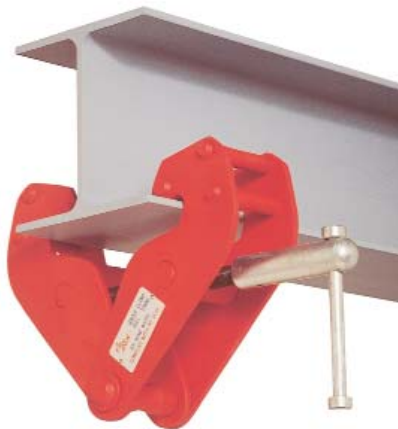
COMPLIES WITH AS/NZS1418.2

## OZ BLOK GIRDER CLAMPS

### Capacities: 1 tonne to 10 tonnes

- Robust all-steel construction
- Durable baked enamel paint protection
- Super-quick adjustment to any girder width in range
- Spare parts always available

*Oz Blok*



Product Code	Working Load Limit kg	Adjustable Beam Width mm	A max. mm	B		C mm	D mm	E mm	F		G min. mm	H mm
				min. mm	max. mm				max. mm	min. mm		
OGC1	1000	75-230	278	182	380	64	4	217	150	90	26	19
OGC2	2000	75-230	278	182	380	74	6	217	150	90	26	21
OGC3	3000	80-320	356	220	500	100	8	277	220	145	50	23
OGC5	5000	90-320	356	220	500	112	10	277	220	145	47	29
OGC10	10000	90-320	356	250	520	120	12	285	230	160	52	39

COMPLIES WITH AS4991

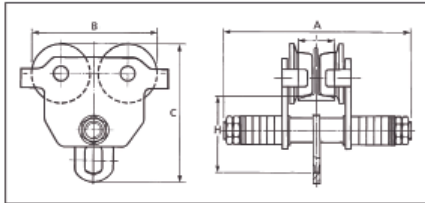
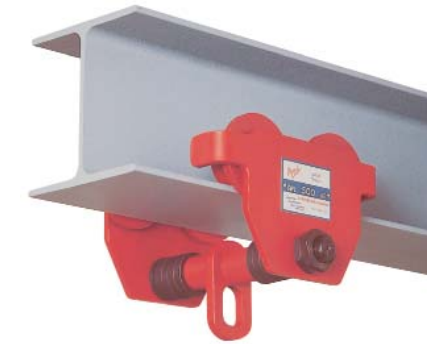
## OZ BLOK GIRDER TROLLEYS

## PUSH TYPE

Capacities: 500kg to 10 tonnes

*Oz Blok*

- Lightweight robust construction
  - Super-quick adjustment to any monorail
  - Durable baked enamel paint protection
  - Precision ball bearing trolley wheels
- COMPLIES WITH AS/NZS1418.2**

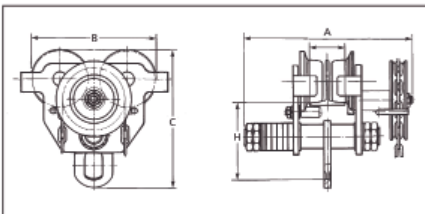


Product Code		OPT05	OPT1	OPT2	OPT3	OPT5	OPT10
Rated Capacity		0.5 t	1 t	2 t	3 t	5 t	10 t
Adjustable Beam Width	mm	64-152	64-210	88-210	102-305	108-305	117-305
Clearance Dimensions	mm						
	A	254	318	335	357	368	405
	B	216	260	300	345	395	455
	C	195	239	286	336	393	500
	H	110	135	161	185	220	280
Min. Radius Curve	m	.9	1.0	1.1	1.3	1.4	1.7
Net Weight	kg	8	14	21	36	51	90

## GEARED TYPE

Capacities: 1 tonne to 20 tonnes

- Lightweight robust construction
  - Super-quick adjustment to any monorail
  - Durable baked enamel paint protection
  - Precision ball bearing trolley wheels
- COMPLIES WITH AS/NZS1418.2**



Product Code		OGT1	OGT2	OGT3	OGT5	OGT10
Rated Capacity		1 t	2 t	3 t	5 t	10 t
Adjustable Beam Width	mm	64-210	88-210	102-305	108-305	117-305
Clearance Dimensions	mm					
	A	380	390	513	430	468
	B	260	300	345	395	470
	C	239	286	336	393	500
	H	135	161	188	220	280
Min. Radius Curve	m	1.0	1.1	1.3	1.4	1.7
Net Weight	kg	18	27	43	60	105

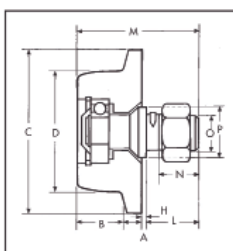
## OZ BLOK GIRDER TROLLEY WHEELS

## SINGLE FLANGE PLAIN TYPE

Capacities: 500kg to 10 tonnes

*Oz Blok*

- Trolley wheels have a machined thread for smooth operation on both R.S.J. or Universal beams
- All wheels come complete with ball bearing, axle, nut, dust cover and circlip
- All Steel construction



Oz Blok Product Code	Trolley Capacity on 4 wheels	Wheel Dia. D mm	A mm	B mm	C mm	Axles					
						H mm	L mm	M mm	N mm	O mm	P mm
OTW005	500 kg	58	12	27	82	3	31	72	24	M20	32
OTW01	1 tonne	75	12	28	102	3	33	76	26	M20	32
OTW02	2 tonne	90	13	32	120	3	40	88	29	M24	36
OTW03	3 tonne	110	13	36	141	3	46	99	33	M30	42
OTW05	5 tonne	120	16	38	156	3	58	115	39	M36	48
OTW010	10 tonne	150	20	43	189	3	78	143	54	M48	67

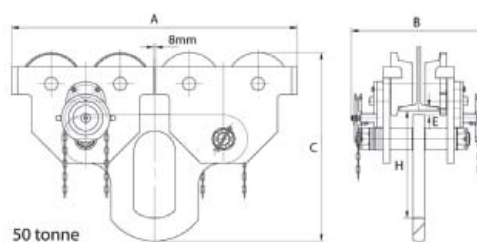
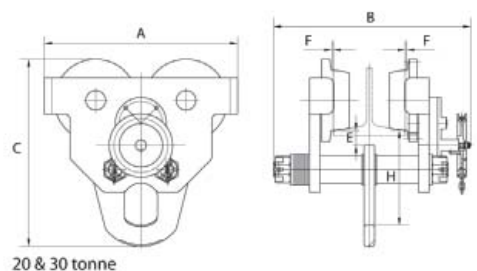
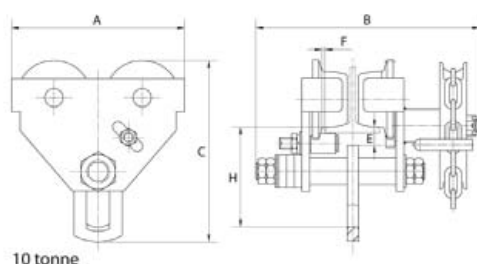
## OZ BLOK GEARED GIRDER TROLLEYS

**OzBlok** HEAVYWEIGHT CHAMPIONS

OzBlok now offer Geared Girder Trolleys in these large capacities for use with Hand Chain Hoists and other applications.

Designed to suit a wide range of monorails and fabricated beams, these trolleys have many applications in the mining, oil & gas, heavy construction and marine industries.

COMPLIES WITH AS/NZS1418.2



## FEATURES :

- Strong rugged construction
- Super quick adjustment to any beam within width range
- Powder coated paint finish
- Precision ball bearing trolley wheels with machined tread for smooth operation

Product Code	OGT10	OGT20	OGT30	OGT50
Rated Capacity	10t	20t	30t	50t
Standard Adj. Beam Width* mm	117-305	210-330	**	**
Clearance Dimensions mm	A	455	642	1242
	B	487.5	647	585
	C	490	622	832
	E	35	55	45
	F	4.5	4.5	4.5
	H	275.5	315	468
Min. Radius Curve	m	2.5	4.5	6.0
Net Weight	kg	103	256	577

\* Other widths available on request

\*\* Manufactured to customer's requirements

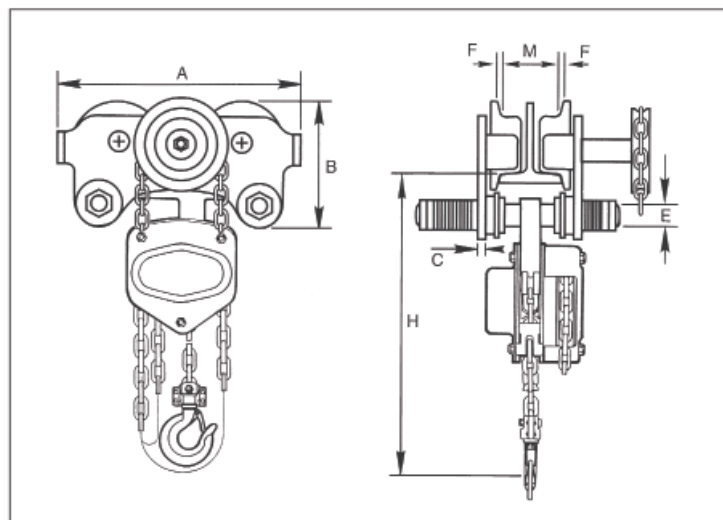
**IF YOU CAN'T FIND WHAT YOU'RE LOOKING FOR, CALL OUR SALES TEAM & IF WE DON'T HAVE IT, WE'LL GET IT FOR YOU!**



## OZ BLOK COMBINED HOISTING ASSEMBLY

**'S' Series Chain Block Close Coupled to Geared Girder Trolley****Capacities: 1 tonne to 5 tonnes**

- Hoist and trolley integrated offers minimum headroom and theft protection
- Robust all steel construction
- Minimum effort to raise load
- Super strength alloy steel chain
- Stainless steel name plates
- Durable baked enamel paint protection
- Weather protected Weston brake
- Cast steel safety latches
- Spare parts always available
- Overload protection offered as optional extra



Product Code		OCHRG1/0	OCHRG2/0	OCHRG3/0	OCHRG5/0
Rated Capacity	tonnes	1	2	3	5
Test load	kN	15	30	45	75
Min. radius	m	1	1.2	1.4	1.6
Pulling force to lift full load	N	40	70	65	100
Standard Lift	m	3	3	3	3
Dimensions mm	A	277	302	363	436
	B	170	194	230	260
	C	10	12	14	18
	D	283	295	304	330
	E	M22	M27	M30	M42
	F	≈3	≈3	≈3	≈3
Beam width	mm	58-180	58-180	74-180	98-180
Min. headroom H	mm	375	438	593	741

**COMPLIES WITH AS/NZS1418.2**

Meets or exceeds all relevant world standards.

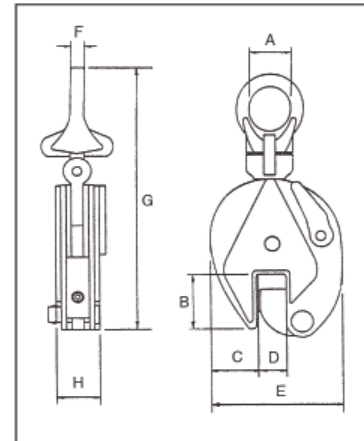
## OZ BLOK UNIVERSAL PLATE CLAMPS



## Capacities: 500kg to 5 tonnes

- Strong all-steel construction
- Safety lock
- Wide plate acceptance
- Hardened pressure plate and tongue
- Durable baked enamel finish
- Spare parts available

COMPLIES WITH AS/NZS1418.2



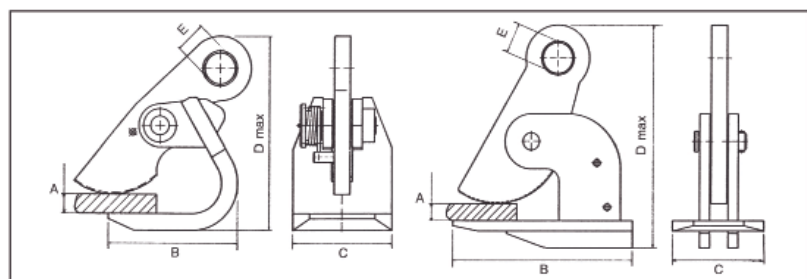
PRODUCT CODE	RATED CAPACITY t	TEST LOAD kN	MAX. JAW OPENING mm	A	B	DIMENSIONS mm			F	G	H	NET WEIGHT KG	VOLUME cm
OUVPC-05	0.5	7.35	15	30	43	34.5	0-17	103	10	212	36	2	23 x 5 x 11.5
OUVPC-1	1	14.7	20	48	63	51	0-22	138	12	294	50	4.8	31 x 7 x 16
OUVPC-2	2	29.4	25	68	76	59	0-27	164	16	370	52	6.5	38 x 8 x 19
OUVPC-3	3	44.1	30	74	85	56	0-32	193	20	418	78	15	45 x 11 x 22
OUVPC-5	5	73.5	50	80	90	65	0-52	240	22	450	88	23	48 x 14 x 27

## OZ BLOK HORIZONTAL PLATE CLAMPS

## Capacities: 1.5 tonnes to 5 tonnes

- Compact size and easy to carry
- Lightweight and safe
- Strong all-steel construction
- Durable baked enamel finish

COMPLIES WITH AS/NZS1418.2



PRODUCT CODE	RATED CAPACITY t / pr	TEST LOAD t / pr	MAX. JAW OPENING mm	A	B	C	D max.	E	NET WEIGHT SINGLE - kg	NET WEIGHT PAIR - kg	VOLUME cm
OHPC15	1.5	3.0	50	0-52	127	100	218	30	4.3	8.6	17 x 12 x 24
OHPC30	3	6.0	50	0-52	220	110	270	36	7.7	15.4	26 x 13 x 20
OHPC50	5	10.0	60	0-62	260	130	315	49	14.1	28.2	30 x 15 x 23



**J.C. Renfro & Sons, Inc. has been a leader in the manufacturing and marketing of lifting products for over 70 years.**

## RENFROE CLAMPS

**Model DWS Locking Type:** Model DWS is a horizontal lifting clamp utilizing Renfro's famous "lock-closed" feature. This clamp comes in four sizes:

- 1/4 Ton: 0 – 1/2" opening
- 1/2 Ton: 0 – 3/4" opening
- 1-1/2 Ton: 0 – 1" opening
- 3 Ton: 0 – 1-1/4" opening
- Recommended for use in pairs.

**Model HRS Locking Type:** The Model HRS is a horizontal lifting clamp that has a spring loaded open and closed position. The spring closed position allows one-man operation of multiple clamps. The clamps stay in position where they are attached until spring open is actuated. These clamps must be used in pairs, sets of pairs, or in a tripod arrangement for transporting plates horizontally.

**Model JPA Locking Type:** The Model JPA is a vertical lifting clamp capable of turning a single plate or member from horizontal to vertical to horizontal through a 180degree arc. Incorporates a push button auxiliary lock. Permits side loading of lifting shackle to 90 degrees by derating of clamp's rated capacity Model JPA incorporates a pivoting shackle that permits side loading of the lifting shackle at 100 percent of rated capacity from vertical to 30 degrees, 75 percent of rated capacity between 30 and 45 degrees and 50 percent of rated capacity between 45 and 90 degrees.

**Model SCPA Locking, Screw Type:** The SCPA clamp is capable of handling steel plate from horizontal to vertical to horizontal through a 180 degree arc and may be used for handling plate at rolling and forming machines. These clamps feature a spring loaded pivoting cam jaw that "cams in" when a load is applied to the lifting shackle. Clamp is capable of handling plate horizontally when used in pairs or sets of pairs, or in a tripod arrangement.

\*Pivoting shackle assembly, as shown, is available on capacities of 3 tons and larger.

**Model NM Locking, Screw Type:** The Model NM clamp (non-marring) is manufactured with smooth gripping surfaces to prevent marring when gripping stainless steel, copper, aluminum and other polished metal plates. Due to the variety of conditions that may exist in handling these plates, it is recommended that these clamps be used in pairs and attached to a chain or wire rope sling, supported by a spreader beam.

The Model NM is supplied with stainless steel gripping surfaces and is available with steel or bronze upon request. The model NM is not intended for use in transportation of plates using mobile equipment where shocking of the load may occur.

Renfro clamps standard jaws are suitable for optimum hardness materials of 300 Bhn and 360Bhn and for materials with even higher hardness number we have the non-marring clamp.

**Please refer to the complete catalogue for this brand for full product range and specifications.**

Model DWS



Model HRS



Model JPA



Model SCPA



Model NM

# Riley



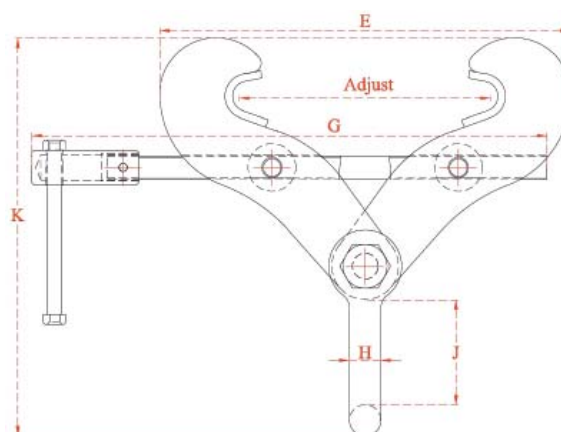
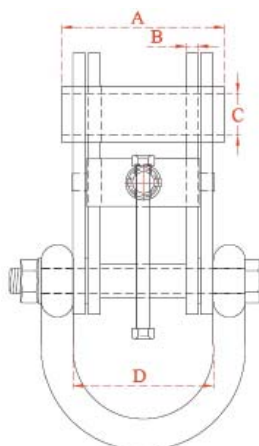
## Fixed Jaw **SUPERCLAMP** Adjustable Girder Clamps

**Incorporating Adjusting Mechanism and Lifting Shackle.**

These girder clamps are truly versatile in application and may be used for lifting, pulling, or as an anchor point. Designed specifically to provide maximum jaw grip adjustment.

These products are engineered for practical use where mobility is essential. The clamps are speedily applied and do not require additional tools or width adjusting components, such as spacing washers. The left and right-hand threaded adjusting bar ensures a secure grip on the beam flange.

Model	WLL	Adjust	Dimensions									Weight
			A	B	C	D	E	G	H	J	K	
<b>S1</b>	2032kg	76-190	125	3	22	90	188	275	20	77	250	4kg
<b>S2</b>	3048kg	76-190	125	6	22	90	188	275	20	77	250	5kg
<b>S2A</b>	3048kg	76-190	130	12.5	22	102	250	275	20	103	268	8kg
<b>S2AX</b>	3048kg	127-350	130	12.5	22	102	375	560	20	102	373	11.5kg
<b>S3</b>	4064kg	150-254	130	10	22	112	327	410	25	98	332	11kg
<b>S3A</b>	5080kg	150-305	140	12.5	32	116	373	410	25	110	360	15kg
<b>S3X</b>	5080kg	76-190	130	12.5	22	116	237	295	25	110	300	10kg
<b>S4</b>	7112kg	101-228	140	12.5	42	118	323	410	32	120	382	17.5kg
<b>S4A</b>	10160kg	203-457	140	20	42	118	498	560	32	112	476	28kg
<b>S4S</b>	6096kg	203-457	140	12.5	42	116	498	560	25	110	459	18.8kg
<b>S12</b>	15241kg	203-457	170	20	50	116.5	611	660	40	185	616	49.5kg
<b>S14</b>	15241kg	406-610	175	20	63	116.5	795	810	40	185	673	58.5kg







## Fixed Jaw **SUPERCLAMP** Adjustable Girderdogs

**Incorporating Adjusting Mechanism and Lifting Shackle.**

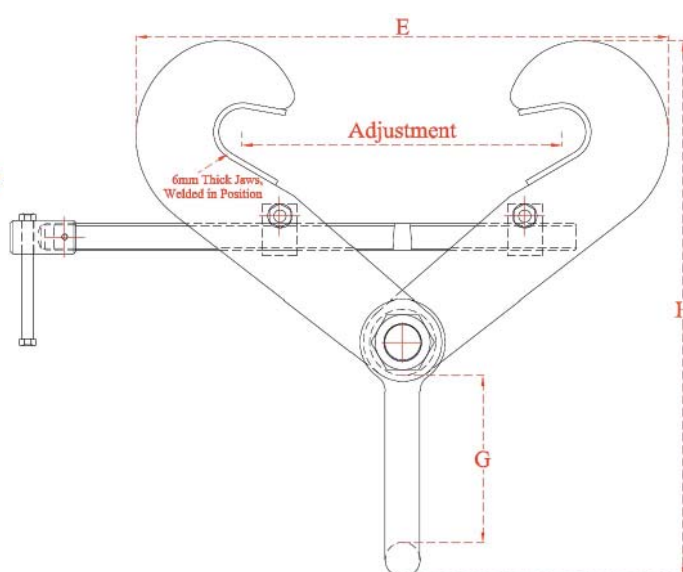
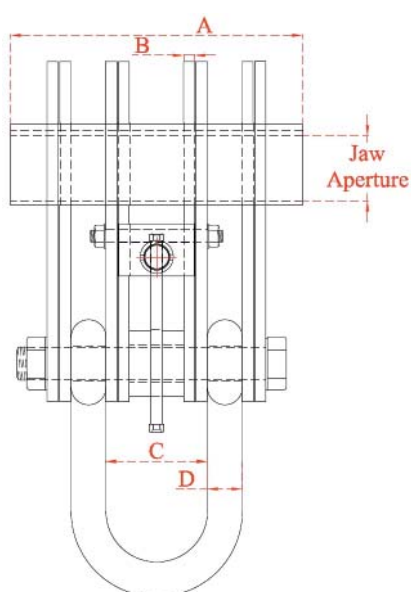
**SUPERCLAMP** Girderdogs incorporate all the reputedly excellent and reliable design features for which our products are known.

The Girderdogs design is enhanced by a well balanced distribution of side plates, ensuring maximum grip and hold over an adequate length of girder or beam flange.

They are safe in use, and once in position, are speedily applied to a steel beam.

No additional width adjusting tools or components are required.

			Jaw Aperture	Dimensions							Weight
Model	WLL	Adjust		A	B	C	D	E	G	H	
S15	20320kg	203-457	51mm	335	12.5	116	40	756	185	616	65.5kg
S16	20320kg	406-610	63mm	350	12.5	116	40	795	185	673	77kg
S17	25400kg	203-457	51mm	335	15	130	45	611	192	621	75.5kg
S18	25400kg	406-610	63mm	350	15	130	45	795	185	678	90kg
S19	30480kg	203-457	63mm	350	20	130	45	624	185	626	92kg
S20	30480kg	406-610	76mm	350	20	130	45	785	185	691	107kg



# Riley

## Universal SUPERCLAMP

For side load applications where conventional SUPERCLAMPS are unsuitable.

The universal SUPERCLAMP has been designed not only for vertical use, but also for side load applications, where conventional clamps are not suitable. This clamp is truly versatile in application and can be used for lifting, pulling or as an anchor point.

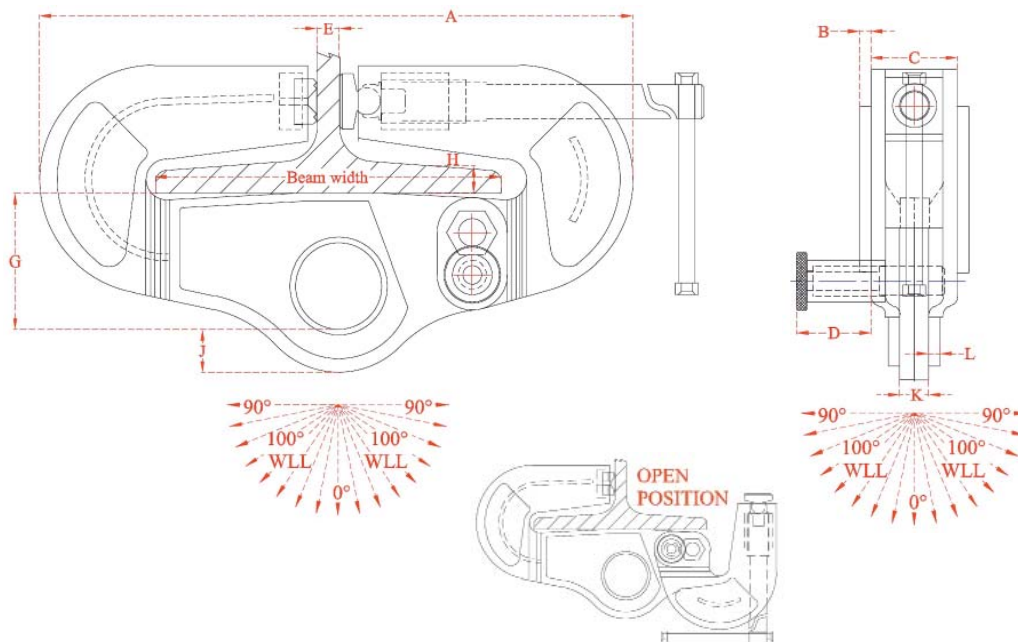
It can be loaded at any angle and eliminates the use of spreader beams in various lifting operations.

With a low headroom anchor point, it can be used as a single or twin point lifting, giving positive grip and quick application combined with lightweight construction.



**WARNING:** Do Not Exceed Working Load Limits or use this equipment for lifting Flat Plate Sections (not to be used as a plate lifting clamp).

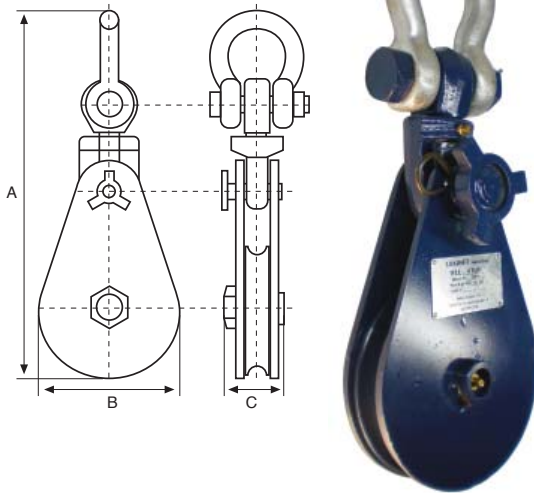
		Beam Width	Dimensions										Weight
Model	WLL		A	B	C	D	E	G	H	J	K	L	
USC3A	3048kg	125-204	387	N/A	70	48	32	100	25.4	28	20	N/A	13.5kg
USC4	4064kg	125-305	518	10	70	48	32	100	25.4	28	10	10	23.5kg
USC5	5080kg	125-305	524	10	75	48	32	120	25.4	38	25	10	28.5kg
USC5D	10160kg	125-305	524	10	75	102	32	120	25.4	38	25	12.5	33.5kg
USCD400	10160kg	225-400	624	10	75	102	32	120	25.4	38	25	12.5	43.1kg



## HEAVY DUTY SNATCH BLOCKS

### Capacities: 2 tonnes to 50 tonnes

- Heavy duty construction
- Fitted with grease nipples
- Swivel Shackle head fitting
- Conforms to AS2089-2008



WLL DIAMETER	SHEAVE DIAMETER	WIRE ROPE mm	A mm	B mm	C WEIGHT	UNIT
2 t	75mm	8 - 10mm	290	83	75	4kg
4 t	150mm	10 - 13mm	415	160	75	9kg
8 t	200mm	16 - 18mm	530	210	95	19kg
10 t	250mm	18 - 20mm	680	260	115	35kg
12 t	250mm	20 - 22mm	680	260	115	35kg
15 t	300mm	24 - 26mm	890	310	135	65kg
22 t	355mm	26 - 32mm	960	365	140	90kg
30 t	500mm	32 - 38mm	1230	520	155	210kg
30 t	500mm	32 - 38mm	1230	520	155	210kg
50 t	600mm	44 - 52mm	158	630	210	400kg

\* Larger capacities available upon request.

## SHEAVE BLOCKS

### Capacities: 250kg to 2 tonnes

An extensive range of manually operated Sheave and Sheave Blocks has been specifically designed for use with Manilla and Wire Rope. With fully interchangeable sheaves and supplied with either drop forged swivel hooks or eyes, this range comes with beackets standard on all single and double blocks.

Bronze bushes and safety latches are standard across the range.

**PYB**  
**ANCHOR**



SHEAVE Dia (mm)	CAPACITY			ROPE Dia.		AXLE BOSS Dia (mm) W (mm)	
	SINGLE & SNATCH	DOUBLE	TREBLE	MANILLA (mm)	WIRE (mm)		
63	250kg	250kg	250kg	10	5	12.5	20.5
75	250kg	250kg	250kg	12	6	12.5	20.5
100	500kg	750kg	750kg	16	8	19	25.4
125	1t	1t	1t	20	10	22	29.5
150	1t	1.5t	1.5t	24	12	25	33.4
200	2t	3t	4t	32	16	35	46.5

**IF YOU CAN'T FIND WHAT YOU'RE LOOKING  
FOR, CALL OUR SALES TEAM & IF WE  
DON'T HAVE IT, WE'LL GET IT FOR YOU!**

## KITO ELECTRIC CHAIN HOISTS

## Capacities: 250kg to 5 tonnes

With safety, durability and ease of maintenance in mind, the new ER2 Electric Hoist is environmentally friendly with its new compact, lightweight and energy efficient design.

Offering thermal protection to prevent the motor from overheating, upper and lower limit switches, CH (Counter/Hour) meter for recording and displaying of operational data, and featuring the variable speed inverter for superior load handling and positioning accuracy, are all provided as standard equipment.

Coupled with the new MR2 Motorised Trolley, the ER2/MR2 combination allows for easier and accurate load positioning in the work place.

## Features:

- CH (Counter/Hour) meter for recording and displaying of operational data for appropriate maintenance.
- Friction clutch for overload protection from over-winding and overloading.
- Upper-lower limit switch provided as standard. Cover belt attached to the controller cover and gear case for easy access and maintenance.
- Thermal protection to prevent motor from overheating.
- Current-driven electromagnetic brake for secure load holding.
- Helical gearing for long life and quiet operation.
- External motor fan reduces heating during frequent operation.
- Chain container.
- Dust proof and water-jet proof protection – IP55 rating.
- Original design, push button control with emergency stop – IP65 rating.
- Single die-cast, lightweight and compact aluminium body.
- Smooth action chain guide.
- Nickel-plated load chain for increased resistance against wear and corrosion.
- Bottom hooks swivels 360° and designed to open gradually under excessive overload. Safety latches fitted to top and bottom hooks.



**PYB  
ANCHOR**

Capacity (WLL)	Model	Lifting Speed (m/min)	Motor Rating		Load Chain (dia x falls)	Hook Suspended		MR2 Motorised Trolley		
			Output (kW)	Rating (%ED)		Headroom (mm) "C"	Weight (kg)	Headroom (mm) "C"	Min. Radius (m)	Weight (kg)
250kg	ER2-003S	9.1	0.56	60	4.3x1	350	27	375	0.8	58
500kg	ER2-005L	3.8	0.56	60	6.0x1	370	33	395	0.8	64
500kg	ER2-005S	7.3	0.9	60	6.0x1	370	37	395	0.8	68
1 tonne	ER2-010L	3.5	0.9	60	7.7x1	430	47	435	0.8	77
1 tonne	ER2-010S	7.1	1.8	60	7.7x1	430	54	435	0.8	84
1.5 tonne	ER2-015S	4.5	1.8	60	10.2x1	510	72	505	0.8	110
2 tonne	ER2-020L	3.7	1.8	60	10.2x1	575	73	570	0.8	111
2 tonne	ER2-020S	7.0	3.5	60	10.2x1	590	91	585	0.8	129
2.5 tonne	ER2-025S	5.7	3.5	60	11.2x1	625	104	620	1.0	152
3 tonne	ER2-030S	4.4	3.5	60	10.2x2	785	107	765	1.0	155
5 tonne	ER2-050S	2.9	3.5	60	11.2x2	850	132	840	1.8	202



## HITACHI ELECTRIC CHAIN HOISTS

## Capacities: 250kg to 5 tonnes

- Low voltage 24V at push button controls
- Electro-magnetic disc brakes
- Noiseless design chain bucket
- Overload protection
- Optional wireless remote control



## Single Phase / Single Speed

Model		1/4S1	1/2S1	1S1	2S1
Capacity	kg	250	500	1000	2000
Speed	m/min.	5	3.6	2.3	1.1
Motor	kW	0.25	0.32	0.4	0.4
Weight	kg	33	34	39	51
Headroom	mm	450	450	530	645

## Three Phase / Single Speed

Model		1/4S	1/2S	1S	2S	1F	2F	3F	5F
Capacity	kg	250	500	1000	2000	1000	2000	3000	5000
Speed	m/min.	10	7.2	4.6	2.3	7.1	6.8	4.1	2.8
Motor	kW	0.45	0.63	0.8	0.8	1.3	2.4	2.4	2.4
Weight	kg	28	31	37	49	42	80	99	121
Headroom	mm	450	450	530	645	535	660	820	1020

## Three Phase / Two Speed

Model		1/4SN	1/2SN	1SN	2SN	2FN	3FN	5FN
Capacity	kg	250	500	1000	2000	2000	3000	5000
Speed	m/min.	7.2/ 1.8	7.2/ 1.8	4.6/ 1.2	2.3/ 0.6	6.8/ 1.7	4.0/ 1.0	2.8/ 0.7
Motor	kW	0.32/ 0.08	0.63/ 0.16	0.8/ 0.2	0.8/ 0.2	2.4/ 0.6	2.4/ 0.6	2.4/ 0.6
Weight	kg	33	36	42	54	96	112	146
Headroom	mm	450	450	530	645	660	820	1020

## Three Phase / Single and Two Speed Trolleys

Model		1ET	2ET	3ET	5ET
Capacity	kg	1000	2000	3000	5000
Travel Speed	m/min.	Standard ETS 10.5 Fast ETF 21.0 Two Speed ETN 21.0/ 5.3			
Travel Motor	kW	0.14		0.30	
Weight	kg	38	52	61	86
Standard beam width	mm	75-125	100-150	100-150	125-175
Min. radius	m	1.5	1.8	2.0	3.0



## GIS-CH ELECTRIC CHAIN HOIST



### Capacities: 125kg to 5 tonnes

- Compact design
- Robust construction
- Ease of maintenance
- Availability assured
- Advanced technology
- Swiss quality
- Protection Class IP 55 (Option IP 65)

### WORLD'S FIRST IN SAFETY

- Double slip clutch (best overload protection ever)
- Five times more secure than the regulations require
- Highest safety with brake positioned after the slip clutch
- Standard geared limit switch: chain length to 120m
- Made for industrial use: body and covers completely built in aluminium

### WORLD'S FIRST IN SERVICE AND HANDLING

- Easy adjustment of the slipping clutch
- No special tools or electronic devices required
- DC brake system maintenance free
- Chain guide removable without disassembly of the hoist
- Easy conversion from 1 to 2 fall (double load capacity)
- Ergonomic 2 and 4 button control pendant with support wire
- Silent working due to helical gears
- Standard low voltage control (42V)

### COMPLIES WITH AS/NZS 1418.2

Meets or exceeds all relevant world standards.

Type Description	1BM M3	Capacity in kg following FEM				Lifting Speed	Chain mm
		1AM M4	2m M5	3m M6	4m M7		
GCH 250/1N	250	200	160	125	100	8	4x12.3
GCH 250/1NF	250	200	160	125	100	8/2	4x12.3
GCH 250/2N	500	400	320	250	200	4	4x12.3
GCH 250/2NF	500	400	320	250	200	4/1	4x12.3
GCH 500/1N	500	400	320	250	200	8	5x15.3
GCH 500/1NF	500	400	320	250	200	8/2	5x15.3
GCH 500/2N	1000	800	630	500	400	4	5x15.3
GCH 500/2NF	1000	800	630	500	400	4/1	5x15.3
GCH 1000/1N	1000	800	630	500	400	8	7x22
GCH 1000/1NF	1000	800	630	500	400	8/2	7x22
GCH 1000/2N	2000	1600	1250	1000	800	4	7x22
GCH 1000/2NF	2000	1600	1250	1000	800	4/1	7x22
GCH 1600/1N	1600	1250	1000	800	630	8	9x27
GCH 1600/1NF	1600	1250	1000	800	630	8/2	9x27
GCH 1600/2N	3200	2500	2000	1600	1250	4	9x27
GCH 1600/2NF	3200	2500	2000	1600	1250	4/1	9x27
GCH 2000/1N	2000	1600	1250	1000	800	8	10x28
GCH 2000/1NF	2000	1600	1250	1000	800	8/2	10x28
GCH 2000/2N	4000	3200	2500	2000	1600	4	10x28
GCH 2000/2NF	4000	3200	2500	2000	1600	4/1	10x28
GCH 2500/1N	2500	2000	1600	1250	1000	6.4	10x28
GCH 2500/1NF	2500	2000	1600	1250	1000	6.4/1.6	10x28
GCH 2500/2N	5000	4000	3200	2500	2000	3.2	10x28
GCH 2500/2NF	5000	4000	3200	2500	2000	3.2/0.8	10x28

## GIS LIFT CHAMP ELECTRIC CHAIN HOIST

## Capacities: 125kg to 5000kg

## Features:

- Compact design
- Robust construction
- Ease of maintenance
- Availability assured
- Advanced technology
- Swiss manufacture
- Lifting capacity up to 5000kg
- Protection class IP 55 (option IP 65)

## World's first in safety

- Double slip clutch (best overload protection ever)
- Authority's safety test passed superbly!
- Five times more secure than the regulations require!
- Highest safety with brake positioned after the slip clutch
- Made for heavy use: body and covers completely built in aluminium
- Jamming of the chain excluded due to two-part plastic chain guide

## World's first in service and handling

- Easy adjustment of the slipping clutch
- No special tools or electronic devices required
- DC brake system maintenance free
- Chain guide removable without disassembly of the hoist
- Easy conversion from 1 to 2 fall (double load capacity)
- Ergonomic 2-button control patent (optional)
- Silent working due to helical gears
- Designed for upright and inverted use without modification.
- Textile chain bag for upright and inverted use
- Flexible and high resistant hand grips
- Suspension parts (hookj and eyebolt), chain and load hook also available black coated

## COMPLIES WITH AS/NZS 1418.2

Meets or exceeds all relevant world standards.



TYPE	Load capacity single fall kg	Classification following FEM	Lifting speed 1-fall m/min at 50 Hz (at 87 Hz frequency inverter controlled)	Number of poles on motor	Chain mm	Chain safety factor
LCH250/1NL, D8	250	1Bm	4 (6.96)	4	4	8.2
LCH500/1NL, D8	500	1Bm	4 (6.96)	4	5	6.4
LCH1000/1NL, D8	1000	1Bm	4 (6.96)	8	7	6.28
LCH2000/1NL, D8	2000	1Bm	4 (6.96)	4	10	6.4
LCH2000/1N, D8	2000	1Bm	8	2	10	6.4

\* Capacities up to 5000kg available.

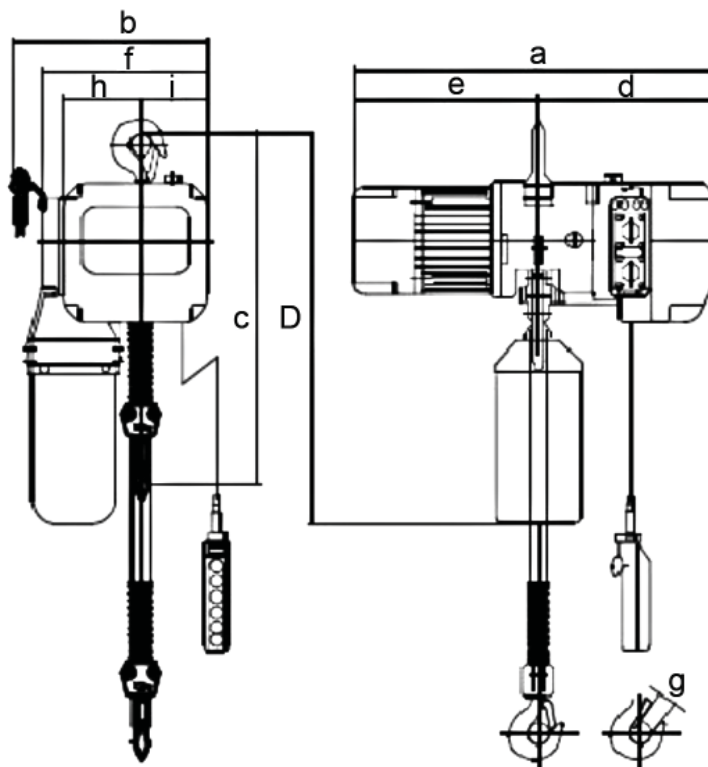
## TITAN ELECTRIC CHAIN HOIST



The Titan Electric Chain Hoist is available from 0.5T to 5T Capacity. They are available in both single phase and 3 phase power and in terms of speed both single and variable speed.

## Features:

- Variable speed from zero to full speed at WLL loads with an inverter, made by Hitachi Japan.
- Schneider contactors/electrics.
- FEC load chain from Japan.
- M4/M5 duty classifications.
- Dust/water protection. Pendant IP65 – Hoist IP54.
- Upper/ lower limit switches plus overload clutch.
- Oil bath gear box (includes overload clutch)
- Highly efficient non asbestos pull rotor brake.
- Plug in electric supply and pendant cables.



Type	Capacity (ton)	Duty Range	Power (kw)	Lifting Speed (m/min) Variable / Single	Load Chain	N.W (kg)
SHH-2-0.5	0.5	M5	0.9	15/3.75	6.3x1.9	38/42
SHH-2-1.0	1	M5	1.1	10/2.5	8x24	40/46
SHH-2-2.0	2	M4	1.1	10/2.5	8x24	50/56
SHH-3-3.0	3	M4	3	3.0/1.0	11.2x34	105/115
SHH-3-5.0	5	M4	3	2.6/0.85	11.2x34	120x130

Type	C	D	a	b	d	e	f	g	h
SHH-2-0.5	520	620	592/610	304	273	319/337	255	31	120
SHH-2-1.0	550	640	592/630	304	273	319/357	255	38	120
SHH-2-2.0	700	680	592/630	304	273	319/357	255	45	120
SHH-3-3.0	820	770	694/740	408	336	358/404	342	45	170
SHH-3-5.0	880	860	694/740	408	336	358/404	342	61	170



## TITAN ELECTRIC BUILDER'S HOIST



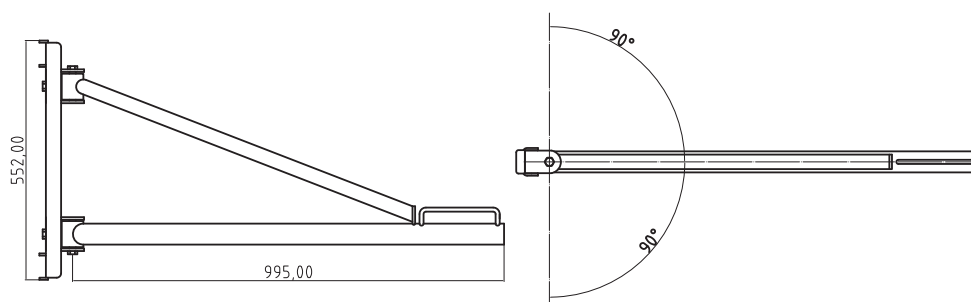
The Electric Builder's Hoist is designed for light lifting applications on building sites and various construction workplaces such as warehousing, buildings, storage areas, elevator liftwell maintenance, factories in general, as well as domestic application.

**Features:**

- Compact and lightweight design which allows easy mounting
- Automatic stop switch to avoid overwinding of the rope
- A reverse winding limit lever
- Double safety brake device including an electromagnetic brake for instant braking
- Operates on single phase 240 volt power supply
- 360° universal joint saddle with safety hook
- 5m power lead
- 10m hand held control pendant with safety switch
- Optional mounting arm bracket
- Spare parts available

Model Code		TBH230
Capacity	kg	230
Length	mm	240
Width	mm	180
Height	mm	660
Safety factor		WLLx1.5
Standard lift		30
Motor power/amps		1.3/7
Lifting speed	m/min	23
Wire rope	mm	5mm 7x19
Minimum grade wire rope		G1900 IWRC
Continuous usage rate p/hr	(min)	15
No. of start per hour		300
Control cable	m	10
Net weight	kg	16

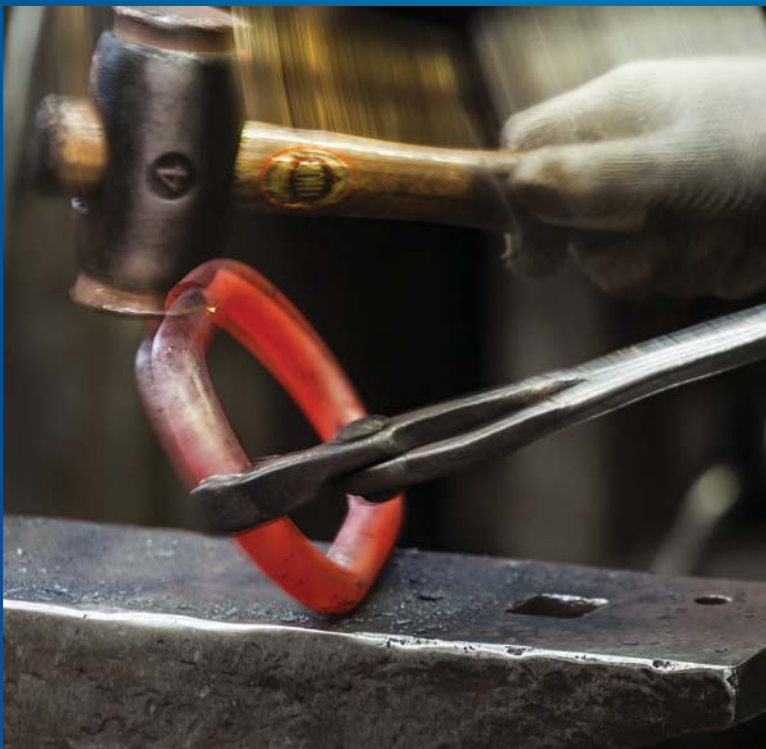
## MOUNTING BAR FOR TITAN ELECTRIC BUILDER'S HOIST



Product Code	Capacity	Max Rotation	Max Tube Size (mm)	Bracket Material	Clamp Material	Weight (kg)	Dimensions L x H (mm)
TBH-230MBSP	230kg	180°	50.8	Iron	Alloy	11	995 x 553



*Proud Suppliers to the Global Lifting Group*





# Ti TAN

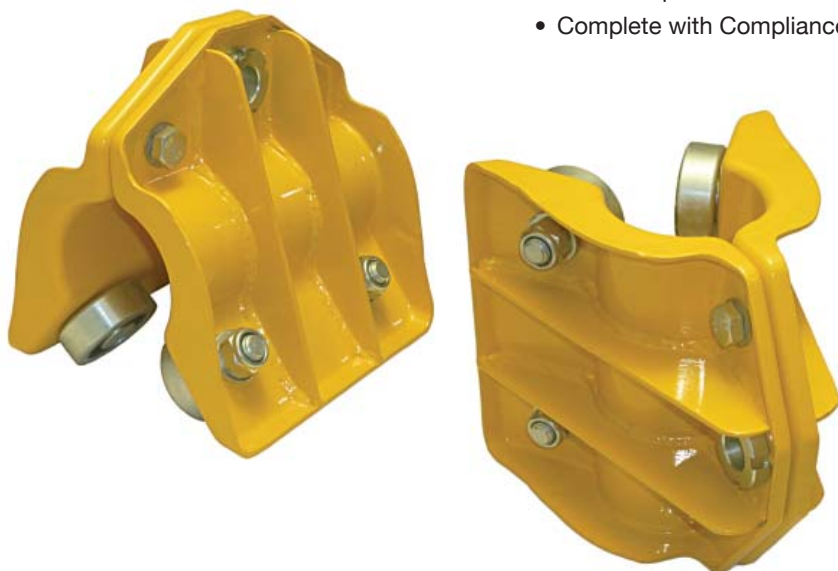
## LIFTING TECHNOLOGIES

### TITAN PIPE TROLLEY

The Titan Pipe Trolley is designed for handling/hoisting equipment and moving heavy objects on a pipe beam that is lightweight and widely available.

#### Features:

- Compact construction, lightweight and easy to assemble
- Smooth operation with sealed ball-bearing wheels
- Complete with Compliance & Test Certificate



Specifications	
Model	TPT-03
Rated capacity	300kg
Pipe beam diameter	60mm
Suspension diameter	17mm
Headroom	103.5mm
Safety factor	4
Suitable shackle	Grade M 16mm pin size
Net weight	2.3kg
Overall size	106 x 156 x 160mm

### DUAL LIFT MAN RIDING & CARGO HOISTS



**DUALIFT is a global leader in material transport and man riding hoists. These hoists are strong, safe and effective to work for many applications and can be customized to your specifications.**

#### Applications:

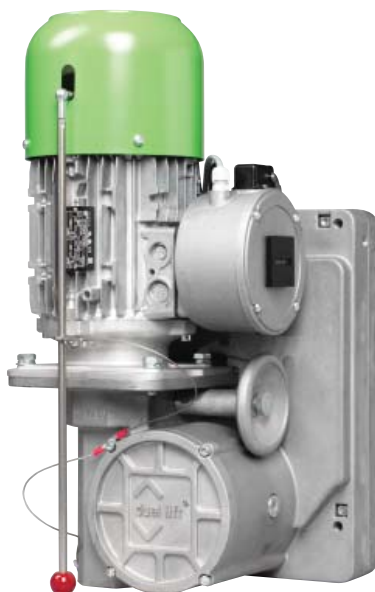
DUALIFT hoists are used in a wide variety of applications such as elevator construction, driven scaffolds, height assemblies, industrial climbing, facade and roof maintenance, shipbuilding, wind turbine construction, stage hoists, etc. The ability to customise these products is a major reason so many customers choose the DUALIFT brand.

#### Features:

- Robust and strong aluminium casing
- 3-phase asynchronous motor with integrated thermal protection and optional rain cover
- Gear parts and sheave made of hardened steel
- Motor and connection box protection class IP 55
- Ability to fasten the hoist with a central 16 mm load pin or with two screws (M10)
- Light weight
- Constant rope speed
- Constant payload
- Constant rope position
- Unlimited height of lift or rope length



UpLite Cargo Hoist



UpPro Man Riding Hoist

## CM LODESTAR ELECTRIC CHAIN HOIST



### Capacities: 250kg to 2 tonnes

- No oil filled chamber - eliminating risk of oil leaks
- Motor Brake 375% capacity
- Both upper / lower adjustable limits



**The CM Lodestar is the most durable chain hoist on the market today. It's reliability is unsurpassed in the entertainment industry.**

**The CM Lodestar is the "Rigger's Choice"**

**Speeds:** 2 to 16MPM (metres per minute) Note: MPM rated at 50Hz

**Lift:** 18 metres - standard (other lifts available)

**Voltages:** Three-phase - 380-440/3/50

**Low Voltage Control:** 110 volt for long cable runs without voltage drop.

**Voltage Board:** Quick change plugs prevent improper voltage connections which can cause damage to the hoist. If misconnected, hoist will not operate. No other component changes necessary.

**Electrical:** Finger safe wiring meets all electrical codes.

**Adjustable Limit Switch:** Prevents load from overtravel.

## 8 WAY MOTOR CONTROLLER



6 x 8 way  
Motor Controllers  
shown in roadcases

### Features:

- 32 amp input
- Hand controller comes with pickle switch and
- Speakon NL4 connector
- Relay switch inside controller unit; supplies power to motor only when hand controller is activated. Gives operator full control to power supply
- 3 phase rotator switch and indicator LEDs
- 24v DC control circuit for Hand Controller
- Individual switches and up/down LEDs for each channel
- Master/slave capacity with Speakon NL4 leads (not supplied)

**IF YOU CAN'T FIND WHAT YOU'RE LOOKING FOR, CALL OUR SALES TEAM & IF WE DON'T HAVE IT, WE'LL GET IT FOR YOU!**



## JDN AIR HOISTS

## FLAMEPROOF TI SERIES

Capacities: 500kg to 100tonnes

J.D. Neuhaus (JDN) has been manufacturing lifting equipment since 1745 and its pneumatic hoists are one of the safest and most cost efficient methods of pulling, lifting or lowering above or below ground where explosive atmospheres may occur.

- Manufactured in Germany under strict quality control and demanding tolerances.
- Low maintenance design delivers 100% duty cycle in all environmental conditions.
- Only six atmospheres of compressed air required.
- Immune to dust, mud, dirt, grit, heat, vapours etc.
- Self-cooling pneumatic motor will not overheat.
- Fail safe brake in case of air supply failure.
- Ideal for use in mines, chemical plants, paint shops etc.
- Available with push, geared or air trolley.



Shown with  
optional  
FI control



Mini 1000  
Air Hoist  
The JDN  
economy  
series also  
available

MODEL CODE No.		0.5TS	1TS	2TS	3TI	6TI	10TI	16TI	20TI	25TI	37TI	50TI	100TI
LIFTING CAPACITY tonnes		0.5	1	2	3.2	6.3	10	16	20	25	37.5	50	100
NUMBER OF CHAIN STRANDS		1	1	2	1	2	2	3	4	2	3	4	4
MOTOR OUTPUT kW	1.0	1.0	1.0	3.5	3.5	3.5	3.5	3.5	6	6	6		10.0
WEIGHT AT STANDARD LIFT (3m)	kg	27	28	34	86	110	156	240	285	498	880	855	2460
WEIGHT OF 1m CHAIN	kg	1.0	1.0	1.0	3.8	3.8	5.8	5.8	5.8	10.8	10.8	10.8	21.3
CHAIN DIMENSION	mm	7x21	7x21	7x21	13x36	13x36	16x45	16x45	16x45	22x66	22x66	22x66	31.5x90
AIR PRESSURE	bar	6	6	6	6	6	6	6	6	6	6	6	6
AIR CONSUMPTION AT FULL LOAD	Lifting	1.2	1.2	1.2	4.0	4.0	4.0	4.0	4.0	5.5	5.5	5.5	11.0
	Lowering	1.5	1.5	1.5	5.5	5.5	5.5	5.5	5.5	6.5	6.5	6.5	12.0
AIR CONNECTION		G1/2	G1/2	G1/2	G3/4	G3/4	G3/4	G3/4	G3/4	G1	G1	G1	G1 1/2
LIFTING SPEED AT FULL LOAD	m/min	17	11	5.5	5	2.5	1.6	1	1.6	1.1	0.65	0.45	0.35
LIFTING SPEED WITHOUT LOAD	m/min	19	11	5.5	10	5	3.2	2	1.4	2.3	1.6	1.3	0.7
LOWERING SPEED AT FULL LOAD	m/min	17	11	5.5	10.8	5.4	3.4	2.1	0.7	1.9	1.5	1.4	0.8
SMALLEST HEADROOM	mm	395	410	544	593	674	813	893	1090	1282	1466	1700	2200

Other lift heights are available.

**COMPLIES WITH AS 1418.2**

**IF YOU CAN'T FIND WHAT YOU'RE LOOKING  
FOR, CALL OUR SALES TEAM & IF WE  
DON'T HAVE IT, WE'LL GET IT FOR YOU!**



## The Caldwell Group

Founded in 1954, Caldwell is the leading US manufacturer of below the hook lifting solutions. They provide effective material handling solutions available around the world.



### CALDWELL LIFTING SOLUTIONS

When you purchase a Caldwell Lifting Solution, you are investing in quality. Each product is thoroughly reviewed throughout the production process by quality control specialists and then verified prior to shipment. Design quality is controlled by the ASME standards. Material quality is controlled through their stringent material requirements, in-house steel service center, and in-house precision machining equipment. Certified welders with over 110 years of combined experience produce the quality welds. Prior to shipment, each order is inspected by skilled quality control specialists.

#### Uniclamp™

UNICLAMPST™ are easy to position clamps ideally suited for sheet and light plate fabrication. Lightweight UNICLAMPST™ are used to secure "skin" materials to ribbed structures at aircraft, aerospace, bus, trailer, and truck manufacturing facilities. WHD-1 and WHD-2 models are constructed of a high-strength aluminum bringing lightweight portability to workpiece positioning and clamping. They feature capacities up to 1,200 lbs with clamp weights not exceeding 18 lbs. Other features include round or rectangular vacuum pads, varying headframe widths, and varying height under the ram to suit special requirements.

#### Rig-Release®

The Rig-Release® Remote Releasing Hook will allow you to set loads – and then – quickly, efficiently and safely release the sling from a safe distance. The Rig-Release® simply hooks to your crane or spreader beam. Attach the lifting sling(s) directly to the Rig-Release® and rig the load. Once the load is set, and the load line is slack, pull the R release Rope to release the sling(s). No need for a man lift on site or to have a worker crawl out (or up) just to disconnect sling(s). It's all done from a safe distance. Also available in Wireless Remote Control model.

#### Small Bundle Sheet Lifter

- Standard light duty unit for handling smaller size sheets and bundles.
- Size and versatility allows for handling of crates, bins and other smaller size containers.
- Side oriented extended length hand wheel adjustment standard.
- Self locking worm gear leg drive system.
- Complies with ASME standards.

**Leveling Pipe Lifter:** Place and position concrete pipe up to 8' in length in one operation.

- Stand-up leveling bail adjusts for varying pipe lengths.
- Adjustable bail stop makes repetitive lifts easy to handle.
- Pipe stop helps drive the pipe into position.
- Built-in laser target holder allows operator to set & laser position at the same time.\*
- Positioning handle.
- Complies with ASME standards.

**Please refer to the complete catalogue for this brand for full product range and specifications.**



## PORTABLE ALUMINIUM GANTRY CRANES



The Feltes Gantry Crane comes in three models:

- Folding Gantry Crane
- Static Gantry Crane
- Movable Gantry Crane

A product of excellent German design, each model provides an optimal balance between portability, ease of use and load bearing ability, providing the user with maximum flexibility in meeting their lifting requirements.

Each model can be disassembled for ease of transportation and quickly reassembled in just 5 minutes. The aluminium beams range from 2 to 5 metres (loads to 1,500kg) and 6 metres (up to 1,000kg).

## FOLDING GANTRY CRANE



This model has collapsible lateral stands making the crane easy to move, transport and store. It comes in three sizes.

**Mini**

- Capacity: up to 1,500kg
- Total weight: 113kg
- Width of lateral stand: 1.19 m
- Height for hanging hoist: 1.18–2.1m

**Standard**

- Capacity: up to 1,500kg
- Total weight: 121kg
- Width of lateral stand: 1.7 m
- Height for hanging hoist: 1.68–3.00 m

**Maxi**

- Capacity: up to 1,500kg
- Total weight: 145kg
- Width of lateral stand: 2.29 m
- Height for hanging hoist: 2.23–4.00 m

## STATIC GANTRY CRANE



This model has non-collapsible side frames and comes in two sizes.

**Mini**

- Capacity: up to 1,500kg
- Total weight: 80kg
- Width of lateral stand: 1.12 m
- Height for hanging hoist: 1.00 –2.10 m

**Standard**

- Capacity: up to 1,500kg
- Total weight: 100kg
- Width of lateral stand: 1.65m
- Height for hanging hoist: 1.80–3.00 m

Optional wheel sets are also available for attachment to the static models if required.

## MOVEABLE GANTRY CRANE



This model is moveable under load with a horizontal adjuster included.

**Mini**

- Capacity: up to 1,000kg
- Total weight: 120kg
- Width of lateral stand: 4.23 m
- Height for hanging hoist: 1.5–2.0m

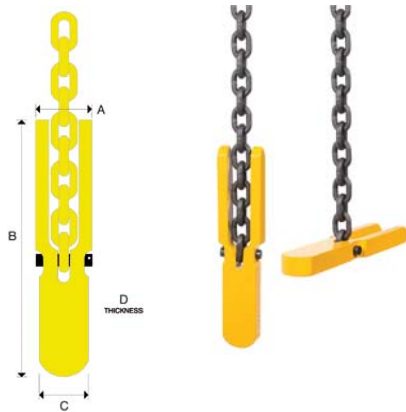
**Standard**

- Capacity: up to 1,000kg
- Total weight: 150kg
- Width of lateral stand: 4.23m
- Height for hanging the hoist: from 2.0 m to 3.0 m

**Maxi**

- Capacity: up to 1,000kg
- Total weight: 170kg
- Width of lateral stand: 4.23 m
- Height for hanging hoist: from 2.25–3.5 m

## TOGGLE TYPE PIPE LIFTER

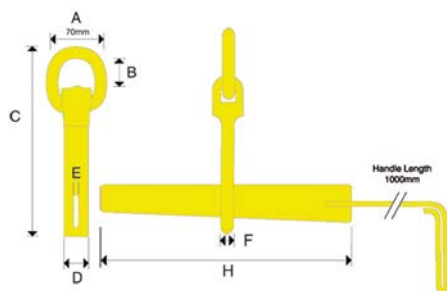


Code	WLL	A	Dimensions in mm			Weight kg
	Tonnes		B	C	D	
CONPL2T	2	58	365	46	25	1.5 (no chain)



- Suits 8mm Grade 80 chain, length to order (not included).

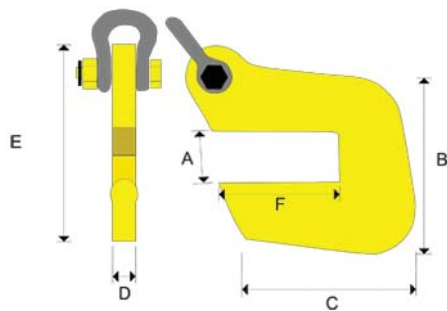
## SPADE TYPE PIPE LIFTER



Code	WLL Tonnes	A	B	Dimensions in mm					Weight kg
CONPL5T	5	70	70	405	65	9	26	500	7.4
CONPL8T	8	75	70	525	70	12	28	700	13.5



## PIPE LIFTING HOOKS

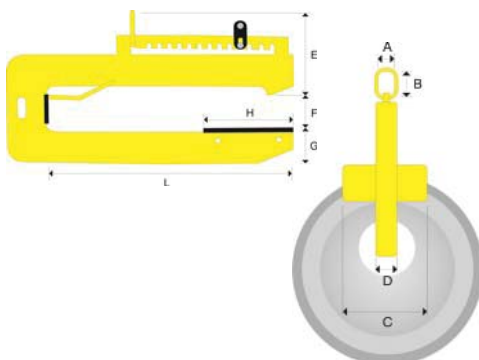


- For use with steel or cast pipes
- Included Sling Angle to be within 60° to 90°

COMPLIES WITH AS 4991-2004

Code	WLL	A	B	Dimensions in mm				Weight kg
	Tonnes			C	D	E	F	
PLH3.2T	4.5/Pair	55	208	205	25	240	140	8.3
PLH7.5T	7.5/Pair	50	208	205	36	240	145	12.5
PLH16T	16/Pair	62	208	205	50	240	145	19.5

## PIPE LIFTING "C" HOOK



- Multi position head link allows for level adjustment for different pipe sizes
- Adjustable link stopper for repetitive lifts
- Backing plate allows to drive the pipe into position

COMPLIES WITH AS 4991-2004

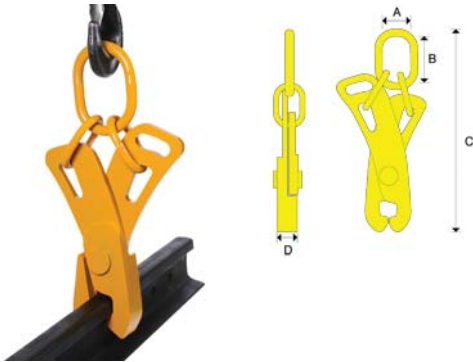
Code	WLL Tonnes	A	B	C	Dimensions in mm						Weight kg
D	E	F	G	H	L						
PLH2T	2	85	155	360	75	440	180	190	445	1330	300





### HEAVY DUTY RAIL LIFTING CLAMP

Suits rail sizes from 40 to 70 kg rail



Code	WLL Tonnes	A	Dimensions in mm			Weight kg
			B	C	D	
PRT5T	5	110	200	800	80	35
PRT14T	14	145	310	930	100	65

### RAIL LIFTING CLAMP

Suits rail sizes from 40 to 70 kg rail



Code	WLL Tonnes	A	B	Dimensions in mm			F	Weight kg
				C	D	E		
RLT3T	3	48	46	370	150	105	50	8.8

### COLLAR TYPE RAIL LIFTING CLAMP

Suits rail sizes from 40 to 70 kg rail.

Can be manufactured to fit other rail sizes.



Code	WLL Tonnes	A	Dimensions in mm			Weight kg
			B	C	D	
RLC2.5T	2.5	100	75	440	65	11.5

### RAIL THREADING TONGS

Suits rail sizes from 40 to 70 kg rail



Code	WLL Tonnes	A	Dimensions in mm			Weight kg
			B	C	D	
PWRT2T	2	115	200	850	260	74

## PERMANENT MAGNETIC LIFTER

### Capacity: 100kg to 6000kg

Our range of high strength magnetic lifters is produced with super strong Neodymium magnets, with your safety in mind. Operation is by way of turning the manual handle once on the operating surface.

In loading and unloading, the lifter can hoist iron/steel blocks, cylinders and others onto magnetic materials for linkage of connection. It is very convenient for application in loading, unloading and moving.

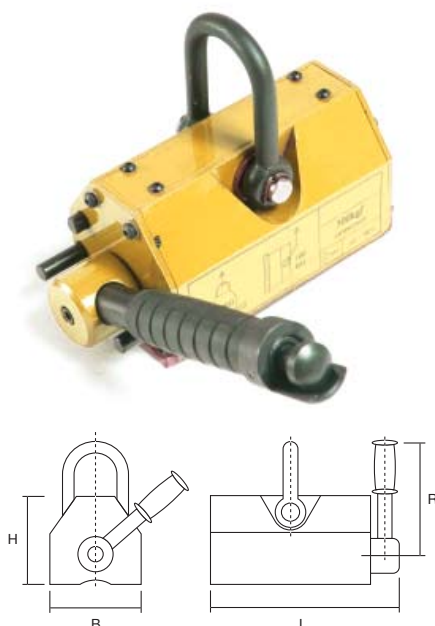
Our lifters are the most ideal lifting facility for factories, docks, warehouses and transportation and are light

and ingeniously structured, easy for application, strong magnetic attraction and safe in handling.

#### Features:

- The Magnetic Lifter's highest pulling force is 3.5 times greater than the rated lifting capacity
- Light weight, ranging from 10 - 50kg
- Safe: No electricity is needed to operate the Magnetic Lifter. Once operated there is less than 1% residual magnetism
- The simple switch and safety button design allows for one handed operation

### COMPLIES WITH AS 4991



Model No.	Rated lifting strength	Max Pull-off strength (kg)	L	B	H	R	Operation Temp (c)	Dead weight (kg)
AMF 100	100	350	62	92	67	126	80	3
AMF 300	300	1050	92	162	91	155	80	10
AMF 600	600	2100	122	232	117	196	80	24
AMF 1000	1000	3500	176	258	163	285	80	50
AMF2000	2000	7000	234	378	212	426	80	125
AMF3000	3000	10500	286	458	261	521	80	220
AMF6000	6000	21000	430	600	355	180	80	420

# STANLEY®



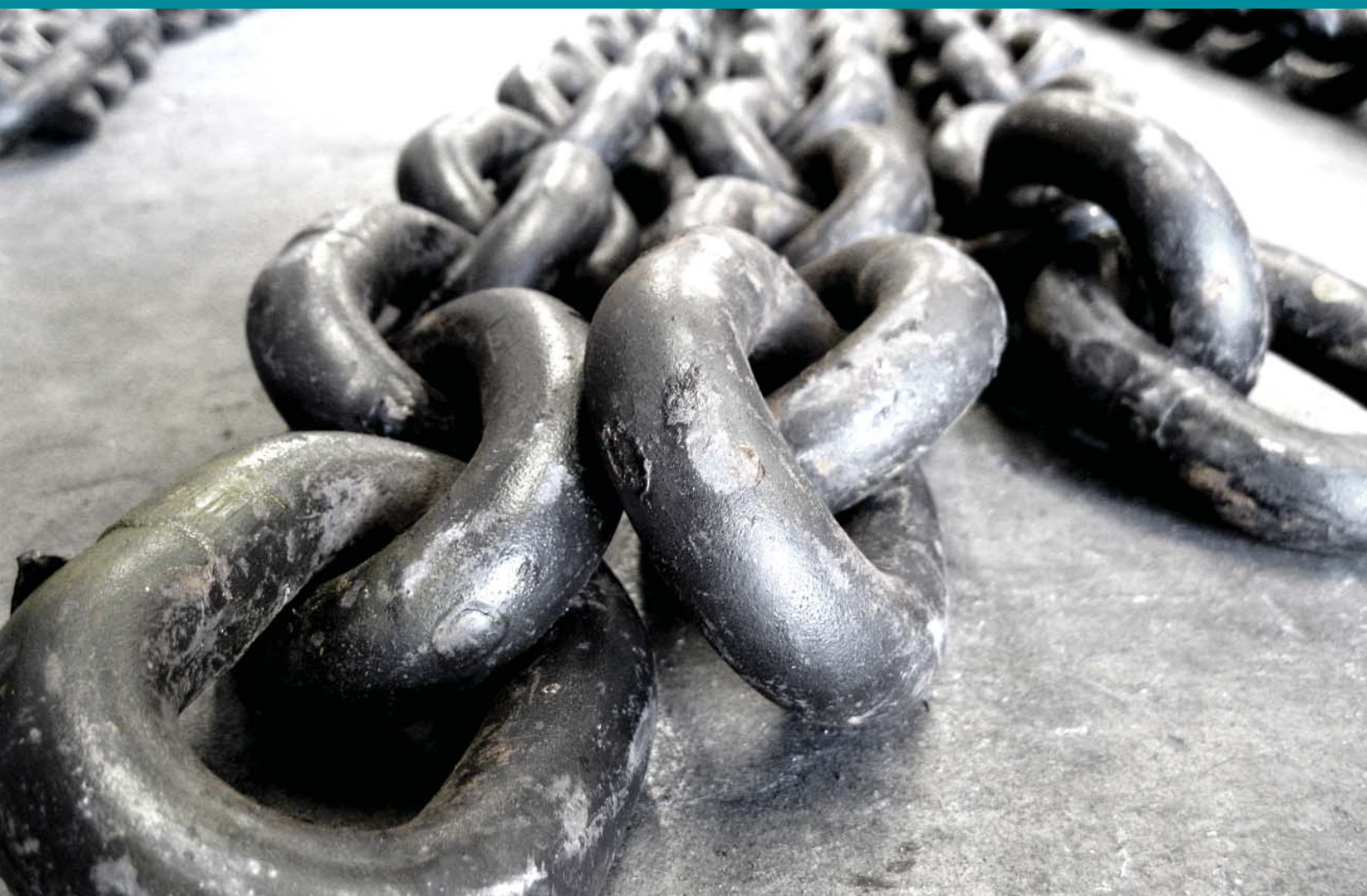
## STANLEY TJ10 TRACK JACK

#### Features:

- The jack boasts the lightest weight of any hydraulic track jack in its class at 43.5lb / 19.7kg
- The jack is available in 4 different models including the narrow base bridge version and the remote pump model, to suit all of your track jack applications
- One piece forged aluminium base upright and protected plunger / seals and pump pivot, extends the service life of the jack
- An accessory anchor point is located in the top of the jack to accept extensions, flex heads, wedge heads and spreader toes, for a wide range of uses including lifting or moving rail and ties / sleepers. It is ideal for lining and gauging applications
- 10 tons of lifting force
- Internal reservoir bladder allows operation in any position

#### TJ10

Stroke (Total Lift)	8.9in	226mm
Lifting Capacity	10 tons	9072kg
Weight	45lb	20.41kg
Overall Collapsed Height	14.5in	368mm



CHAIN SLINGS GR80 .....	46-49
CHAIN FITTINGS GR80 .....	50-58
WELD & BOLT ON LIFTING LUGS .....	55, 60-63
EXCAVATORS HOOKS .....	57, 60-61
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# LIFTING & LASHING

## THIELE GRADE 80 CHAIN SLING WORKING LOAD LIMITS (WLL)



1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
Chain Size (mm)	WORKING LOAD LIMIT UNDER GENERAL CONDITIONS OF USE													
	Single Leg Slings			Slings Of 2, 3 Or 4 Legs						Endless Slings				
	Straight or adjustable sling with no deration	Adjustable sling with deration	Reeved sling	Straight sling			Reeved sling			Basket sling			Reeved sling	
				60°	90°	120°	60°	90°	120°	60°	90°	120°		
Loading Factors	x1	x 0.75	x 0.75	x 1.73	x 1.41	x 1	x 1.3	x 1.06	x 0.75	x 1.3	x 1.06	x 0.75	x 1.5	
-	4	0.5	0.38	0.38	0.87	0.71	0.50	0.65	0.53	0.38	0.65	0.53	0.38	0.75
-	5	0.8	0.60	0.60	1.38	1.13	0.80	1.04	0.85	0.60	1.04	0.85	0.60	1.20
6	-	1.2	0.8	0.8	1.9	1.6	1.1	1.5	1.2	0.8	1.5	1.2	0.8	1.7
-	7	1.5	1.1	1.1	2.6	2.1	1.5	2.0	1.6	1.1	2.0	1.6	1.1	2.3
8	-	2.0	1.5	1.5	3.5	2.8	2.0	2.6	2.1	1.5	2.6	2.1	1.5	3.0
10	-	3.2	2.4	2.4	5.5	4.5	3.2	4.1	3.4	2.4	4.1	3.4	2.4	4.8
13	-	5.3	4.0	4.0	9.2	7.5	5.3	6.9	5.6	4.0	6.9	5.6	4.0	8.0
16	-	8.0	6.0	6.0	13.8	11.3	8.0	10.4	8.5	6.0	10.4	8.5	6.0	12.0
-	18	10.0	7.5	7.5	17.3	14.1	10.0	13.0	10.6	7.5	13.0	10.6	7.5	15.0
19	-	11.2	8.4	8.4	19.4	15.8	11.2	14.6	11.9	8.4	14.6	11.9	8.4	16.8
20	-	12.5	9.4	9.4	21.6	17.6	12.5	16.3	13.3	9.4	16.3	13.3	9.4	18.8
22	-	15.0	11.3	11.3	26.0	21.2	15.0	19.5	15.9	11.3	19.5	15.9	11.3	22.5
26	-	21.2	15.9	15.9	36.7	29.9	21.2	27.6	22.5	15.9	27.6	22.5	15.9	31.8
32	-	31.5	23.6	23.6	54.5	44.4	31.5	41.0	33.4	23.6	41.0	33.4	23.6	47.3

To AS/NZS 3775 (SAFETY FACTOR OF 4)

## CONDITIONS OF USE

**Heat treatment:** Grade T chain slings shall not be heat treated subsequent to the completion of their manufacture, except by the manufacturer of the component.

**Galvanizing:** Grade T chain slings shall not be hot-dip galvanized or electroplated, except by the manufacturer of the component, as these processes may be detrimental to the sling.

The WLL given to galvanized slings should be carefully considered, as a deration may be required.

**Corrosive environments:** Grade T chain slings and fittings should not be used in acid or other corrosive environments, due to the possibility of hydrogen embrittlement and corrosion.

**Temperature effects:** Temperatures at which the sling is used could affect its strength. Slings should not be used at temperatures colder than minus 10°C, prior to checking with the manufacturer to ensure its stability at such a temperature. Under no circumstances should a Grade T chain sling be used if its temperature has exceeded 400°C. Any sling that has been exposed to a temperature exceeding 400°C should be immediately withdrawn from service and destroyed. The strength of Grade T chain is adversely affected by excessively elevated temperatures. It may be difficult to determine in practice the actual temperature involved, but underestimation must be avoided. Where subjected to elevated temperatures up to 400°C, the following reductions to the WLL will apply:

Temperature (°C)	Reduction of WLL (%)
> -10 < 200	Nil
> 200 < 300	10
> 300 < 400	25



## RECOMMENDATIONS

- Ensure the sling has a metal tag showing the WLL for its various configurations.
- Packing (such as wooden blocks) may be required where a chain comes into contact with a load, to protect the chain and the load from damage. Sharp corners of metal or other hard material can bend or damage chain links.
- Where one or more legs of a multi-leg sling are not being used, ensure they are hooked back to the master link or intermediate link during operations.
- Chain slings shall not be subject to shock loading. When loads are accelerated or decelerated suddenly, high dynamic forces occur, which increase stresses in the chain. Such situations arise from snatch or shock loading (eg. from not taking up the slack chain before starting to lift or by the impact of arresting falling loads).
- When landing, avoid the possibility of crushing or trapping the sling, by ensuring the load does not land on the sling. Suitable dunnage should be used to enable the sling to be readily removed by hand.

## INSPECTION

**In-service:** Prior to each use, chain slings shall be visually inspected. Ensure that slings are free of any significant damage or wear and a WLL tag is fitted. If any defects are detected, the sling shall immediately be withdrawn from service.

**Periodic:** It is important for slings to be periodically inspected by a competent person, and the following apply:

- Sling inspections shall be undertaken in an adequately lit location.
- Where necessary, the sling should be cleaned before it is inspected.
- Every individual chain link should be inspected for any signs of wear, nicks, cracks, gouging, twisting, stretching or lack of articulation between the links. Particular attention should be given to links that have been reeved, due to the possibility of bending or twisting of the engaged link.
- Any worn components should be measured to determine the degree of wear, which shall not exceed that allowed. Wear may be tolerated until the thickness of any worn section has been reduced by 10% of the nominal section in any plane. Wear by contact with other objects usually occurs on the outside of the straight portions of the links where it is easily seen and measured. Wear between adjoining links is hidden. The chain should be slack and adjoining links rotated to expose the inner end of each link.
- Upper and lower terminal fittings should be inspected for any signs of wear at their load-bearing points, nicks, cracks, gouging, stretching or distortion.
- Connecting devices shall be inspected for any signs of wear at their load-bearing points, any excessive play of the load pin within the body halves, nicks, cracks, gouging, distortion or any impaired rotation of the body halves around the load pin.

A sling inspection record should be provided for each sling. Regulatory requirements may require results to be entered on a sling inspection record.





Thiele is one of the world's leading manufacturers of lifting and conveying products. Thiele produces quality chains and accessories compliant with worldwide quality assurance criteria up to Grade 100, in many dimensions and finishes for a wide assortment of uses.

*"Proud suppliers to the  
Global Lifting Group"*

The **Name**  
for **Safety**

**THIELE**<sup>®</sup>



## THIELE SINGLE LEG CHAIN SLING

**THIELE®****Grade 80 Single Leg Chain Sling**

Complete with shortening hooks, self-locking hooks and test certificate.

**COMPLIES WITH AS/NZS 3775**

Code	W.LL	Chain Size	Chain Length
CS080101	2T	8mm	1.0m
CS080201	2T	8mm	2.0m
CS080301	2T	8mm	3.0m
CS100201	3.2T	10mm	2.0m
CS100301	3.2T	10mm	3.0m
CS100401	3.2T	10mm	4.0m
CS130301	5.4T	13mm	3.0m
CS130401	5.4T	13mm	4.0m
CS130601	5.4T	13mm	6.0m

\* Other sizes and lengths available on request

## DOUBLE LEG CHAIN SLING

**THIELE®****Grade 80 Double Leg Chain Sling**

Complete with shortening hooks, self-locking hooks and test certificate.

**COMPLIES WITH AS/NZS 3775**

Code	W.LL @ 60°	Chain Size	Chain Length
CS080102	3.5T	8mm	1.0m
CS080202	3.5T	8mm	2.0m
CS080302	3.5T	8mm	3.0m
CS100202	5.5T	10mm	2.0m
CS100302	5.5T	10mm	3.0m
CS100402	5.5T	10mm	4.0m
CS130302	9.2T	13mm	3.0m
CS130402	5.4T	13mm	4.0m
CS130602	9.2T	13mm	6.0m

\* Other sizes and lengths available on request

## FOUR LEG CHAIN SLING

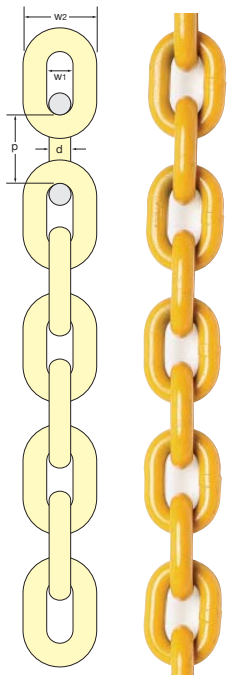
**THIELE®****Grade 80 Four Leg Chain Sling**

Complete with shortening hooks, self-locking hooks and test certificate.

**COMPLIES WITH AS/NZS 3775**

Code	W.LL @ 60°	Chain Size	Chain Length
CS080104	3.5T	8mm	1.0m
CS080204	3.5T	8mm	2.0m
CS080304	3.5T	8mm	3.0m
CS100204	5.5T	10mm	2.0m
CS100304	5.5T	10mm	3.0m
CS100404	5.5T	10mm	4.0m
CS130304	9.2T	13mm	3.0m
CS130404	9.2T	13mm	4.0m
CS130604	9.2T	13mm	6.0m

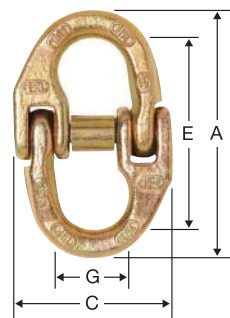
\* Other sizes and lengths available on request



### THIELE GRADE 80 ALLOY CHAIN

**THIELE®**

Chain Size mm	Chain dia.		Pitch		Inside Width w1 min	Outside width		Working Load Limit tonnes	Weight app. kg
	d	tol.	p	tol.		w2	w2 max		
6-8	6.00	0.2	18.00	0.5	8.00	21.0	21.6	1.20	0.8
7-8	7.20	0.2	21.80	0.6	9.45	24.5	25.2	1.50	1.1
8-8	8.00	0.3	24.00	0.7	10.80	28.0	28.8	2.00	1.4
10-8	10.00	0.4	30.00	0.9	13.50	35.0	36.0	3.20	2.2
13-8	13.00	0.5	39.00	1.0	17.50	45.5	46.8	5.30	3.8
16-8	16.00	0.6	48.00	1.4	21.50	56.6	57.6	8.00	5.7
18-8	18.00	0.9	54.00	1.6	24.30	63.0	64.8	10.00	7.3
20-8	20.00	1.0	60.00	1.8	27.00	70.0	72.0	12.50	10.9
22-8	22.00	1.1	66.00	2.0	29.50	77.0	79.2	15.00	10.9
26-8	26.00	1.3	78.00	2.3	35.00	91.0	93.6	21.20	15.2
28-8	28.00	1.4	84.00	2.5	37.80	98.0	100.8	25.00	17.6
32-8	32.00	1.6	96.00	2.9	43.20	112.0	115.0	31.50	23.0

**COMPLIES WITH AS/NZS 2321**


Connecting Links are generally used to connect Oblong Links, Chain, Hooks and other components of Chain Slings.

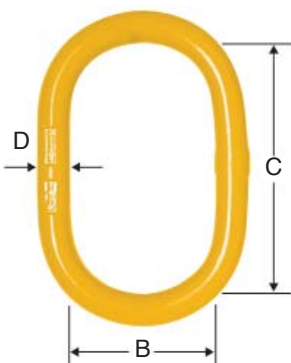
**THIELE®**

- Manufactured from G80 alloy steel, with a safety factor of 4:1.
- Test Certificates are available on request.

Trade Size mm	Chain Diameter mm	Working Load Limit tonnes	Dimensions in mm				Weight app. kg
			E	G	A	C	
6-8	6	1.20	43	17	59	45	0.09
7-8	7	1.50	56	17	75	47	0.16
8-8	8	2.00	60	18	79	50	0.19
10-8	10	3.20	75	22	99	63	0.35
13-8	13	5.30	98	28	128	80	0.73
16-8	16	8.00	110	33	148	98	1.38
18-8	18	10.00	122	36	165	110	1.86
20-8	20	12.50	134	45	185	122	2.34
2-8	22	15.00	145	44	198	132	3.16
26-8	26	21.20	164	55	225	156	5.00
32-8	32	31.50	192	65	268	192	9.33

**COMPLIES WITH AS/NZS 3776**

### PWB LARGE SERIES OBLONG LINK



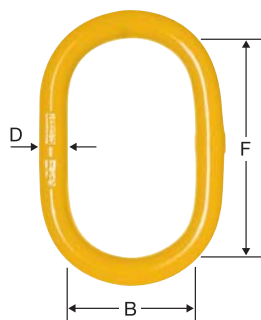
Wider and longer, the PWB Large Series Oblong Link is designed for use in both single and 2-leg sling applications.

**PWB ANCHOR**

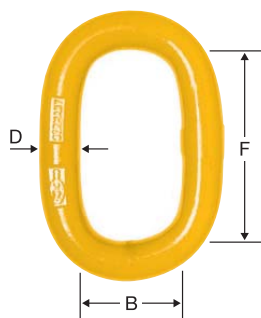
PRODUCT CODE	CHAIN SIZE mm		WLL tonne	WEIGHT kg	B	DIMENSIONS mm	
	1 LEG	2 LEG				C	D
40617	6/7	-	1.20	0.4	70	130	13
40618	8/10	7.1/8	3.50	0.7	70	135	16
40619	13	10	5.50	1.7	100	200	22
40620	16	13	9.20	3.8	120	240	30
40621	20	16	13.80	5.4	140	280	33
40622	22	20	21.60	8.5	150	300	39
40623	26	22	26.00	10.5	165	330	42
40624	32	26	36.70	15	180	360	48
41767	32	32	54.50	30	220	410	60

**COMPLIES WITH AS/NZS 3776**

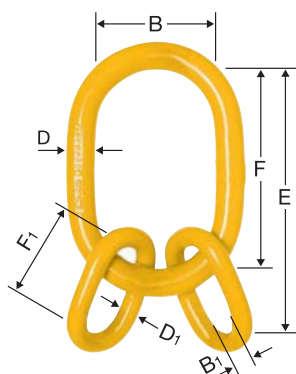


**THIELE OBLONG MASTER LINK - SINGLE LEG****TWN 0807 Oblong Master Link Type A for Single Leg Slings****THIELE®**

Trade Size mm	Chain Diameter mm	Working Load Limit tonnes	Dimensions in mm			Weight app. kg
			D	F	B	
6-8	6	1.20	13	90	50	0.34
8-8	8	2.00	16	110	60	0.53
10-8	10	3.20	18	130	70	0.83
13-8	13	5.30	22	160	90	1.50
16-8	16	8.00	26	180	100	2.33
18-8	18	10.00	32	230	125	4.00
20-8	20	12.50	32	230	125	6.30
22-8	22	15.00	36	250	140	10.20
26-8	26	21.20	45	320	175	12.00
28-8	28	25.00	45	320	175	12.00
32-8	32	31.50	50	340	190	17.00
36-8	36	40.00	56	380	210	23.00
40-8	40	50.00	63	430	240	32.00
45-8	45	63.00	70	470	260	44.00
50-8	50	80.00	80	520	290	62.00
56-8	56	100.00	85	520	290	79.00

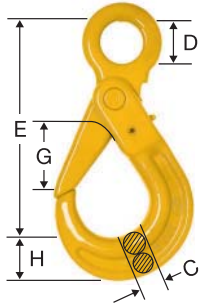
**COMPLIES WITH AS/NZS 3776****THIELE OBLONG MASTER LINK - DOUBLE LEG****TWN 0808 Oblong Master Link Type A for Double Leg Slings****THIELE®**

Trade Size mm	Chain Diameter mm	Working Load Limit tonnes	Dimensions in mm			Weight app. kg
			D	F	B	
6-8	6	1.20	13	90	50	0.34
8-8	8	2.80	18	130	70	0.83
10-8	10	4.25	20	140	80	1.50
13-8	13	7.50	26	180	100	2.33
16-8	16	11.20	32	230	125	4.00
18-8	18	14.00	36	250	140	6.30
20-8	20	17.00	40	290	160	9.00
22-8	22	21.20	45	320	175	12.00
26-8	26	30.00	50	340	190	17.00
28-8	28	33.50	56	380	210	17.00
32-8	32	45.00	63	430	240	23.00
36-8	36	56.00	70	470	260	32.00
40-8	40	71.00	80	520	290	44.00
45-8	45	90.00	85	520	290	62.00
50-8	50	112.00	95	580	320	79.00
56-8	56	140.00	110	680	380	108.00

**COMPLIES WITH AS/NZS 3776****THIELE OBLONG MASTER LINK - MULTI LEG****TWN 0809 Master Link Assembly for 3 & 4 Leg Slings****THIELE®**

Trade Size mm	Chain Diameter mm	Working Load Limit tonnes	Dimensions in mm							Weight app. kg
			E	D	F	B	D1	F1	B1	
6-8	6	2.36	170	16	110	60	13	60	30	1.20
8-8	8	4.25	210	20	140	80	16	70	35	2.20
10-8	10	6.70	270	26	180	100	20	90	45	3.40
13-8	13	11.20	350	32	230	125	26	120	60	6.10
16-8	16	17.00	420	40	290	160	28	130	65	10.00
18-8	18	21.20	460	45	320	175	32	140	70	18.00
20-8	20	26.50	500	50	340	190	36	160	80	23.00
22-8	22	31.50	520	50	340	190	40	180	90	25.00
26-8	26	45.00	630	63	430	240	45	200	100	34.00
28-8	28	50.00	630	63	430	240	45	200	100	47.00
32-8	32	67.00	740	80	520	290	50	220	110	65.00
36-8	36	85.00	780	85	520	290	56	260	130	102.00
40-8	40	106.00	860	95	580	320	63	280	140	121.00
45-8	45	132.00	1000	110	680	380	70	320	160	167.00
50-8	50	170.00	1040	110	680	380	80	360	180	209.00
56-8	56	212.00	1120	125	720	400	90	400	200	304.00

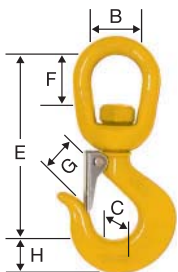
**COMPLIES WITH AS/NZS 3776**

**THIELE SELF LOCKING HOOK - EYE TYPE****TWN 0798 Self Locking Eye Hook****THIELE®**

Trade Size mm	Chain Diameter mm	Working Load Limit tonnes	Dimensions in mm					Weight app. kg
			E	D	G	H	C	
6-8	6	1.20	106	22.5	28	22	15	0.48
7/8-8	8	2.00	133	24	35	25	20	0.82
10-8	10	3.20	167	32	45	35	27	1.65
13-8	13	5.30	208	39	54	41	33	3.12
16-8	16	8.00	250	49	67	54	39	5.88
18/20-8	18/20	12.50	275	66	78	53	56	7.80
22-8	22	15.00	317	71	94	72	58	15.00

**COMPLIES WITH AS/NZS 3776****THIELE SELF LOCKING HOOK - CLEVIS TYPE****TWN 0799 Self Locking Clevis Hook****THIELE®**

Trade Size mm	Chain Diameter mm	Working Load Limit tonnes	Dimensions in mm				Weight app. kg
			E	G	H	C	
6-8	6	1.20	98	28	22	15	0.57
8-8	8	2.00	122	33	25	20	0.93
10-8	10	3.20	150	45	35	27	1.75
13-8	13	5.30	186	54	41	38	3.25
16-8	16	8.00	215	67	54	39	5.60
18/20-8	18/20	12.50	238	78	54	48	8.00

**COMPLIES WITH AS/NZS 3776****THIELE SWIVEL HOOK****TWN 0854 Swivel Hook with Safety Latch****THIELE®**

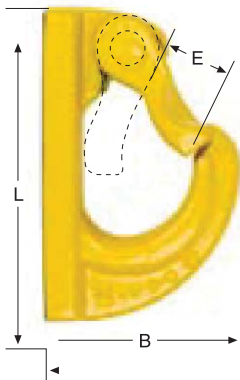
Trade Size mm	Chain Diameter mm	Working Load Limit tonnes	Dimensions in mm						Weight app. kg
			E	G	H	C	F	B	
6-8	6	1.20	113	18	20	14	25	30	0.38
8-8	8	2.00	155	21	25	19	42	44	1.00
10-8	10	3.20	162	23	30	21	42	44	1.20
13-8	13	5.30	190	32	33	28	43	51	2.08
16-8	16	8.00	247	40	43	35	61	64	4.45

**COMPLIES WITH AS/NZS 3776****THIELE WELD ON EXCAVATION HOOK**

Weld on Excavator Hooks are a versatile hook for lifting and spreader beams and as a fixed anchor point in general lifting applications.

**THIELE®**

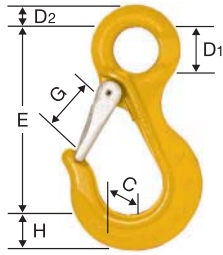
- Manufactured from G80 alloy steel with a safety factor of 4:1
- Test Certificates available on request
- Welding instructions supplied with each unit



Trade Size mm	Chain Diameter mm	Working Load Limit tonnes	Dimensions in mm			Weight app. kg
			B	E	L	
6-8	6	1.20	53	18	87	0.35
8-8	8	2.00	63.5	26	112	0.55
10-8	10	3.20	75	30	127.5	0.87
13-8	13	5.30	92.5	35	160	1.75
16-8	16	8.00	106	40	180	3.0

**COMPLIES WITH AS/NZS 3776**

## THIELE SLING HOOK - EYE TYPE



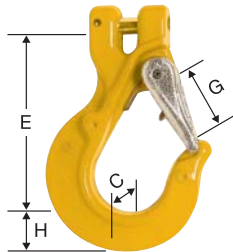
## TWN 0858/1 Eye Slip Hook with Safety Latch

**THIELE®**

Trade Size mm	Chain Diameter mm	Working Load Limit tonnes	Dimensions in mm						Weight app. kg
			E	D1	D2	G	H	C	
6-8	6	1.20	91	21	11	23	17	16	0.60
8-8	8	2.00	120	28	14	30	24	22	0.80
10-8	10	3.20	152	36	18	38	29	28	1.70
13-8	13	5.30	180	42	21	42	41	36	2.80
16-8	16	8.00	221	54	27	52	45	43	5.10
18/20-8	18/20	12.50	270	62	30	65	58	55	8.70
22-8	22	15.00	300	70	32	75	64	61	11.50
26-8	26	21.20	335	78	39	78	70	68	17.20
32-8	32	31.50	410	96	48	95	83	80	30.20

COMPLIES WITH AS/NZS 3776

## THIELE SLING HOOK - CLEVIS TYPE



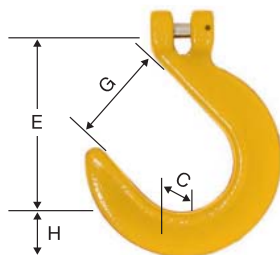
## TWN 0835/1 Sling Hook with Pin Coupling &amp; Safety Latch

**THIELE®**

Trade Size mm	Chain Diameter mm	Working Load Limit tonnes	Dimensions in mm				Weight app. kg
			E	G	H	C	
6-8	6	1.20	75	23	17	16	0.30
8-8	8	2.00	99	30	22	22	0.68
10-8	10	3.20	121	38	29	28	1.37
13-8	13	5.30	143	44	37	36	2.58
16-8	16	8.00	175	54	45	43	4.36
18-8	18	10.00	195	60	52	50	7.59
20-8	20	12.50	220	65	58	55	9.68
22-8	22	15.00	244	75	64	61	10.62

COMPLIES WITH AS/NZS 3776

## THIELE FOUNDRY HOOK - CLEVIS TYPE



## TWN 0859 Foundry or Container Hook with Pin Coupling

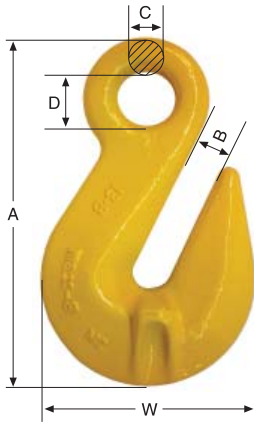
**THIELE®**

Trade Size mm	Chain Diameter mm	Working Load Limit tonnes	Dimensions in mm				Weight app. kg
			E	G	H	C	
8-8	8	2.00	110	66	33	27	1.00
10-8	10	3.20	133	76	35	32	1.61
13-8	13	5.30	159	89	41	38	3.40
16-8	16	8.00	189	102	48	45	5.50
18-8	18	10.00	218	114	54	51	9.00
20-8	20	12.50	218	114	54	51	9.00
22-8	22	15.00	244	124	60	56	12.00

COMPLIES WITH AS/NZS 3776

**IF YOU CAN'T FIND WHAT YOU'RE LOOKING FOR, CALL OUR SALES TEAM & IF WE DON'T HAVE IT, WE'LL GET IT FOR YOU!**

## THIELE GRAB HOOK - EYE TYPE



Thiele Eye Type Grab Hooks provide the flexibility to shorten a chain sling or be used for back-hooking. Thiele Eye Type Grab Hooks are designed for easy attachment to Chain Connectors and feature support lugs which provide no reduction of the working load limit.

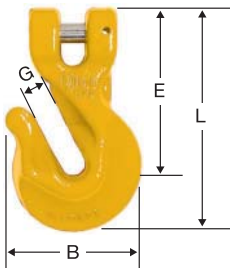
**THIELE®**

- Manufactured from G80 alloy steel with a safety factor of 4:1
- Test Certificates are available on request

Trade Size mm	Chain Diameter mm	Working Load Limit tonnes	Dimensions in mm					Weight app. kg
			A	B	C	D	W	
6-8	6	1.20	76.5	8	8	13	45	0.25
8-8	8	2.00	106	11	9.5	16	63	0.4
10-8	10	3.20	126	13	12	20	79	0.6
13-8	13	5.30	156	16	15	25	100	1.2
16-8	16	8.00	193	20	19	28.5	122	2.7
20-8	20	12.50	226	25	20	36	150.5	4.3
22-8	22	15.00	269	26	27	42	169	6.4
26-8	26	21.20	298	30	32	45	175	9.8
32-8	32	31.50	361	38	38	57	189	19.4

**COMPLIES WITH AS/NZS 3775**

## THIELE GRAB HOOK - CLEVIS TYPE



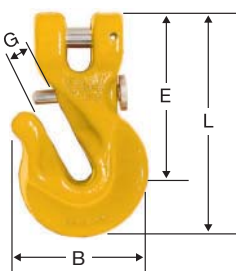
**TWN 0827 Shortening or Grab Hook Cradle Type with Pin Coupling.**

**THIELE®**

Trade Size mm	Chain Diameter mm	Working Load Limit tonnes	Dimensions in mm				Weight app. kg
			E	G	L	B	
8-8	8	2.00	61	9	101	61	0.53
10-8	10	3.20	73	12	125	75	0.97
13-8	13	5.30	95	15	160	95	2.18
16-8	16	8.00	112	18	188	120	3.40
20-8	20	12.50	148	22.5	242	141	7.30

**COMPLIES WITH AS/NZS 3776**

## THIELE GRAB HOOK - CLEVIS TYPE WITH SAFETY DEVICE



**TWN 0827/1 Shortening or Grab Hook Cradle Type with Pin Coupling with Safety Device**

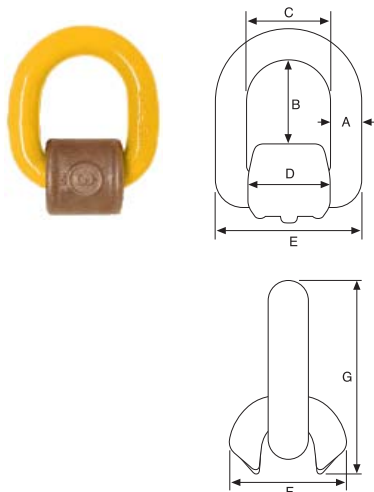
**THIELE®**

Trade Size mm	Chain Diameter mm	Working Load Limit tonnes	Dimensions in mm				Weight app. kg
			E	G	L	B	
8-8	8	2.00	61	9	101	61	0.54
10-8	10	3.20	73	12	125	75	0.99
13-8	13	5.30	94	15	160	95	2.18
16-8	16	8.00	112	18	188	120	3.45
20-8	20	12.50	148	22.5	242	141	7.35

**COMPLIES WITH AS/NZS 3776**



## THIELE WELD ON LIFTING LUG



Weld on lifting lugs can be welded onto any carbon steel surface as a lifting point, as a fixed anchor point for spreader beam attachment, or as an anchor point for load restraint applications.

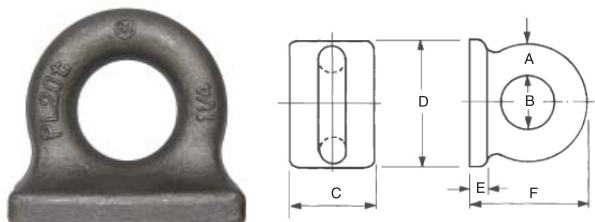
**THIELE®**

Manufactured from G80 alloy steel with a safety factor of 4:1. Test Certificates are available on request.

Trade Size mm	Marking DSK-N	Working Load Limit tonnes	Dimensions in mm							Weight app. kg
			E*	F*	C	L	H	D	B	
6-8	1	1.20	59	31	32	32	28	12	36	0.24
8-8	2	2.00	69	37	38	38	33	14	42	0.46
10-8	3	3.20	84	46	45	44	38	18	48	0.63
13-8	5	5.30	120	69	60	60	51	24	66	1.61
16-8	8	8.00	127	66	68	65	61	28	72	2.67
22-8	15	15.00	178	98	96	109	80	39	120	8.09
32-8	32	31.50	292	174	145	165	118	56	180	27.30
40-8	50	50.00	370	227	205	180	143	72	230	60.00

COMPLIES WITH AS/NZS 3776

## DECK OR EYE PLATE



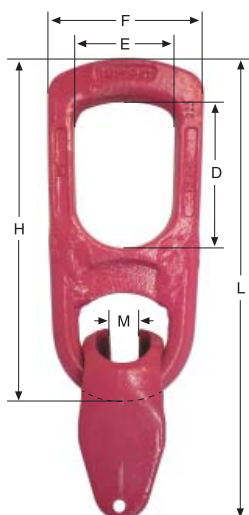
### HW13 RECTANGULAR BASE (ADMIRALTY PATTERN)

- Weld-on Lifting Lug, ideal for lifting or lashing
- Material : BS970 - 150M19 (Normalised)

COMPLIES WITH AS/NZS 3776

PART No.	HWa13/1	HWa13/2	HWa13/3	HWa13/4	HWa13/5	HWa13/6	HWa13/7	HWa13/8	HWa13/9	HWa13/10	HWa13/12
Dia. of eye material A (mm)	10	12.5	16	19	22	25	28	32	35	38	50
Dia. of eye B (mm)	20	25	32	38	44	50	57	64	69	76	100
Base plate C (mm)	25	35	45	50	60	70	75	85	95	100	140
Base plate D (mm)	45	60	70	85	100	115	130	145	158	170	230
Base plate E (mm)	6	8	10	12	12.5	16	17	19	21	22	30
Total Height F (mm)	38	50	64	76	89	100	114	128	140	152	203
Proof Load (Tonnes)	2	3.5	5.5	7.5	9.7	13	16	20	24	29	50
Weight each (kgs)	0.14	0.31	0.45	0.79	1.36	1.82	2.95	3.86	5.11	6.58	14.98
WLL @ 5:1 (Tonnes)	1	1.75	2.75	3.75	4.85	6.5	8	10	12	14.5	25

## CONCRETE PANEL LIFTING EYES



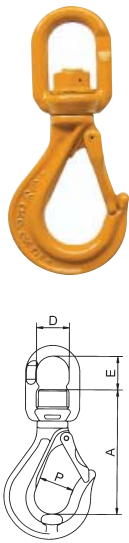
Lifting Eyes are a versatile unit for lifting pre-cast concrete products such as construction panels, pipes, and columns.

- Manufactured from G80 alloy steel with a safety factor of 5:1
- Test Certificates are available with each unit

COMPLIES WITH AS 3850

WLL tonne	WEIGHT KG/unit	DIMENSIONS mm					
		D	E	F	H	M	L
1.3	0.89	70.5	45	73	157	11.5	181
2.5	1.3	85	57	88	190	16	220
5	3.24	88	69	110	233	22	271
10	10	116	83	161	336.5	30	386
20	20.37	133.5	107.5	182	437	42	497
32	46	189	162	272	570	54	755

### EXCEL CSE SWIVEL SLING HOOK



CSE Swivel Sling Hook with large eye enables easy assembly on wire rope slings (with thimbles). There is also a flat on the eyes to fit omega links. All of these hooks, except the CSE 18/20, have a ball bearing in the swivel as a standard. This feature enables smooth easy rotation under load.

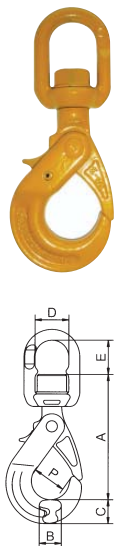
**EXCEL**  
Lifting Fittings  
Accessoires de Levage

Code	W.L.L t	Chain ø mm	A	Dimensions in mm		P	Weight kg
				D	E		
CSE 5/6	1.20	5/6	99	29	33	25	0.40
CSE 7/8	2.00	7/8	123	31	33	29	0.77
CSE 10	3.20	10	148	36	41	30	1.41
CSE 13	5.30	13	185	47	45	36	2.53
CSE 16	8.00	16	215	56	57	43	4.91
CSE 18/20	12.50	18/20	264	92	66	79	7.75

Safety Factor 4:1

**COMPLIES WITH AS/NZS 3776**

### EXCEL XLE SWIVEL SELF LOCKING HOOK



XLE Swivel Self Locking Hook with large swivel eye makes assembly to wire rope slings (with thimbles) easier. There is also a flat on the eyes that enables assembly with omega links. All of these hooks have a ball bearing in the swivel as a standard. This feature enables smooth, easy rotation under load.

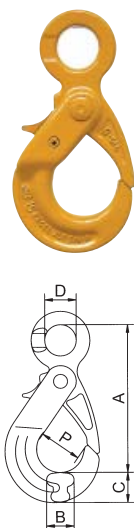
**EXCEL**  
Lifting Fittings  
Accessoires de Levage

Code	W.L.L t	Chain ø mm	A	B	Dimensions in mm			P	Weight kg
					C	D	E		
XLE 0	1.20	5/6	122	16	26	31	32	32	0.78
XLE 1	2.00	7/8	148	23	29	36	39	43	1.39
XLE 2	3.20	10	183	32	35	47	46	47	2.275
XLE 3	5.30	13	214	37	45	56	57	61	4.56
XLE 4	8.00	16	269	39	56	72	65	74	9.5
XLE 5	12.50	18/20	303	51	63	81	87	88	12.7

Safety Factor 4:1

**COMPLIES WITH AS/NZS 3776**

### EXCEL XLO EYE SELF LOCKING HOOK



XLO Self Locking Hooks are traditional sized hooks with a larger release mechanism making them easier to use with gloves, and are therefore recommended for the construction industry. The large eye enables easy assembly on wire rope slings (with thimbles). The flat on the eyes makes assembly with omega links easier.

**EXCEL**  
Lifting Fittings  
Accessoires de Levage

Code	W.L.L t	Chain ø mm	A	B	Dimensions in mm		P	Weight kg
					C	D		
XLO 0	1.20	5/6	111	16	26	24	32	0.51
XLO 1	2.00	7/8	134	23	29	29	43	0.91
XLO 2	3.20	10	168	32	35	35	47	1.79
XLO 3	5.30	13	199	37	45	46	61	3.36
XLO 4	8.00	16	247	43	56	59	74	7
XLO 5	12.50	18/20	282	51	63	69	88	9.22

Safety Factor 4:1

**COMPLIES WITH AS/NZS 3776**

### EXCEL XLC CLEVIS SELF LOCKING HOOK



XLC Self Locking Hooks are traditional sized hooks with a larger release mechanism making them easier to use with gloves, and are therefore recommended for the construction industry. The clevis enables a direct connection to Grade 80 chains.

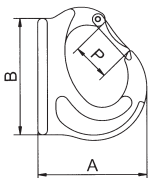
**EXCEL**  
Lifting Fittings  
Accessoires de Levage

PRODUCT CODE	WLL tonne	Chain dia mm	DIMENSIONS mm				P	WEIGHT KG/unit
			A	B	C	D		
XLC 0	1.20	5/6	92	16	24	28	32	0.49
XLC 1	2.00	7/8	111	23	29	32	43	0.91
XLC 2	3.20	10	143	32	35	42	47	1.77
XLC 3	5.30	13	167	37	45	54	61	3.33
XLC 4	8.00	16	204	43	56	68	74	6.75
XLC 5	12.50	18/20	232	51	63	82	88	9.57

Safety Factor 4:1

COMPLIES WITH AS/NZS 3776

### EXCEL GH EXCAVATOR HOOK



GH Excavator Hooks are welded directly to the booms of bucket or crane loaders. (Welding instructions are supplied with each hook). Note: Lifting with the teeth of an excavator is forbidden. Latches are fitted as standard, to prevent accidental unhooking.

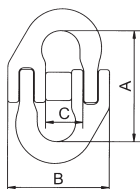
**EXCEL**  
Lifting Fittings  
Accessoires de Levage

Code	WLL t	A	Dimensions in mm		P	Weight kg
			B			
GH 0.75	0.75	59	71		22	0.24
GH 1	1.00	72	78		25	0.52
GH 2	2.00	92	85		33	0.70
GH 3	3.00	105	104		33	1.15
GH 4	4.00	121	130		38	1.66
GH 5	5.00	138	150		43	2.36
GH 8	8.00	145	148		43	3.32
GH 10	10.00	178	197		60	6.44
GH 15	15.00	185	226		65	9.7

Safety Factor 4:1

COMPLIES WITH AS/NZS 3776

### EXCEL CHAIN CONNECTOR



Chain Connectors provide fast, easy assembly without the need for special tools or skills. Designed for attaching hooks, master links and other end fittings to Grade 80 alloy steel chains.

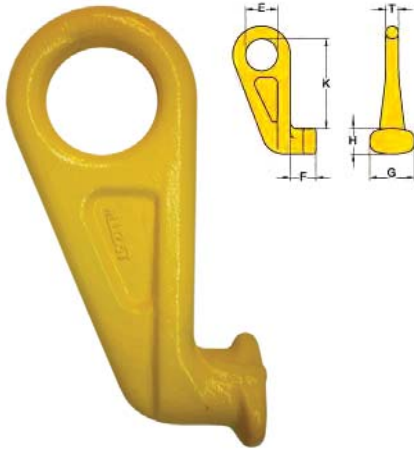
**EXCEL**  
Lifting Fittings  
Accessoires de Levage

Code	Size	WLL t	Chain ø mm	Dimensions in mm			Weight kg
				A	B	C	
TCL 6	6	1.20	6	45	40	15	0.14
TCL 7/8	8	2.00	7/8	54	52	20	0.15
TCL 10	10	3.20	10	63	65	25	0.32
TCL 13	13	5.30	13	84	82	30	0.68
TCL 16	16	8.00	16	104	103	36	1.26
TCL 20	20	12.50	18/20	127	120	45	2.02
TCL 22	22	15.00	22	155	144	51	3.18
TCL 26	26	21.20	26	160	172	57	4.52
TCL 32	32	31.50	30/32	174	197	69	8.20

Safety Factor 4:1

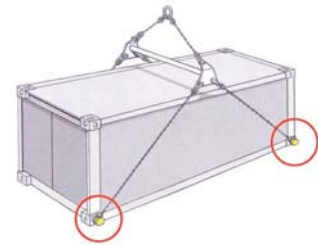
COMPLIES WITH AS/NZS 3776

## GR8 CONTAINER HOOK



Eye Type Container Hooks are suitable for lifting containers by connection to twist lock pockets. The large diameter eye allows most sized hooks to fit. They are available in left and right hand configurations.

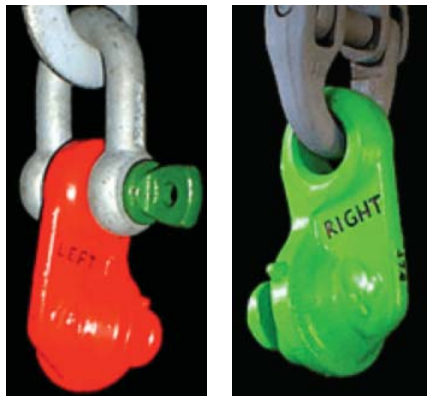
- Manufactured from G80 alloy steel with a safety factor of 4:1
- Test Certificates are available on request



**COMPLIES WITH AS 3776**

Type	WLL (tonnes)	K (mm)	E (mm)	F (mm)	T (mm)	G (mm)	H (mm)	Mass (kg)	Part No.	Markings
Straight	12.5	192	70	46	25	75	48	3.9	42172Y	KA - S
Left 45	12.5	192	70	46	25	75	48	3.9	42173Y	KA - R
Right 45	12.5	192	70	46	25	75	48	3.9	42174Y	KA - L

## PRESTON SHOE



## Principle of Operation

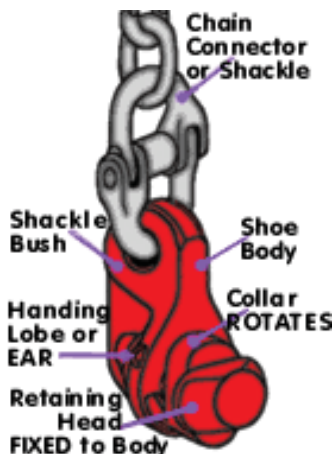
Lug comprises the body, retaining head and collar, all manufactured from high strength alloy steel forgings. The retaining head and collar have the same profile as corner box aperture. Retaining head is fixed to the body whilst the collar, in tandem with the retaining head, rotates through a limited arc angle allowing for insertion and retention of the Lug in the corner box. The body contains a lug (shackle bush) for attaching it to a sling or strop via a screw-pin shackle or chain connector.

Product complies with all applicable ISO standards and "EC Supply of Machinery (Safety) Regulations". Each lug is tested to twice WLL as stipulated by "ILO Table of Test Loads" and issued with a Test Certificate, instructions and a Certificate of Conformity on request.

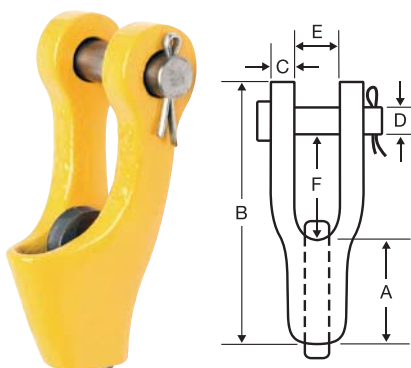
These Lugs were designed to suit 16mm and 20mm chain having SWL's of 8.5t and 12t respectively. The two lugs normally made are the STANDARD and the UNIVERSAL types

**Standard 8.5t and 12t WLL:** For manual use it is important to keep the combined weight of lug plus shackle or connector to a minimum. For most applications the Standard type with WLL of 8.5t can be used. If using 12t chain connectors that fit the 32mm dia hole then SWL of 12t can be used.

**Universal 12t WLL:** This type can accommodate US Fed Spec 12t and 9.5t WLL shackles. The 38mm dia hole can accommodate all known 20mm 12t alloy steel chain connectors.



## OPEN WEDGE SOCKET



Rope Dia. mm	A mm	B mm	C mm	D mm	E mm	F mm	WLL tonnes
10	60	135	8	16	22	52	2.6
13	75	26	24	24	45	90	10.3
16	85	235	30	33	54	85	13.4
20	110	300	35	36	67	120	20.0
22	140	340	35	36	67	142	21.3
26	135	350	43	42	77	144	33.7
28	180	390	43	42	80	180	28.2
32	200	445	45	56	70	200	39.6
38	240	540	58	60	105	210	57.4



# RUD®

## ICE 120



GERMAN QUALITY  
AND ENGINEERING



# INNOVATION NOT IMITATION

**RUD ICE 120** delivers improved safety features, wear indicators and higher working load limit, all at a full chain diameter smaller than Gr 8 systems. Combined with improvements in tensioning, connecting and shortening, **ICE 120** is clearly the most superior chain available on the world market today and compliments the full range of RUD weld-on and bolt-on fittings:

### Features

- Chain sizes from 6 mm to 16 mm
- 60% increase in working load limit
- 30% increase in surface hardness
- 30% lighter chain

### Benefits

- Sizes to suit all of your needs
- Increased performance
- Reduced replacement costs
- Easier and safer to handle

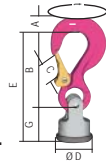
*For more information on how RUD can help meet your performance demands with the high-strength-low-weight ICE 120 range, call our friendly sales team today*



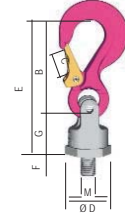
## RUD - RINGS, EYES &amp; HOOKS

**WPP-S** Weld-on universal connection (swivelling).

Type	WLL (kgs)	A (mm)	B (mm)	C (mm)	D (mm)	E (mm)	G (mm)	Weight (kgs)
WPP-S-0.63t	630	13	75	18	40	115	40	0.4
WPP-S-1.5t	1500	20	97	25	46	147	50	1.0
WPP-S-2.5t	2500	28	126	30	61	187	61	1.5
WPP-S-4t	4000	36	150	35	80	227	77	3.3
WPP-S-5t	5000	37	174	40	95	267	93	7.1
WPP-S-8t	8000	49	208	48	100	310	102	8.2

**PP-S** Bolt-on universal connection (swivelling) metric thread.

Type	WLL (kgs)	B (mm)	C (mm)	D (mm)	F (mm)	G (mm)	M (mm)	Weight (kgs)
PP-S-0.63t-M12	630	75	18	40	18	41	12	0.4
PP-S-1.5t-M16	1500	97	25	46	5	50	16	1.0
PP-S-2.5t-M20	2500	126	30	61	30	61	20	1.7
PP-S-4t-M24	4000	150	35	78	36	77	24	3.5
PP-S-5t-M30	5000	174	40	95	45	93	30	7.2
PP-S-8t-M36	8000	208	48	100	54	102	36	9.2

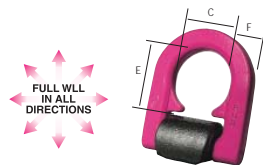
**RBG/VRBG** Eye plate, bolt on.

Type	WLL (kgs)	D (mm)	L (mm)	Bolt Size	Weight (kgs)
RBG-3	3200	48	178	M16x50	0.90
VRBG-16	16000	90	270	M30x90	7.8
VRBG-30	30000	130	400	M30x100	67
VRBG-50	50000	230	650	M36x120	210

**VLBS** Weld on load rings.

With or without (W/S) captive position holding spring.

Type	WLL (kgs)	C (mm)	E (mm)	F (mm)	Weight (kgs)
VLBS-1.5	1500	38	40	13.5	0.35
VLBS-2.5	2500	45	48	13.5	0.5
VLBS-4	4000	51	52	16.5	0.80
VLBS-6.7	6700	67	73	22.5	1.90
VLBS-10	10000	67	71	26.5	2.90

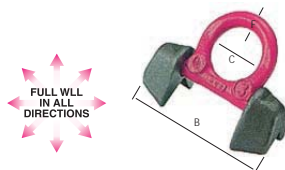


Type	WLL (kgs)	C (mm)	E (mm)	F (mm)	Weight (kgs)
VLBS-W/S-1.5	1500	38	40	13.5	0.35
VLBS-W/S-2.5	2500	45	48	13.5	0.5
VLBS-W/S-4	4000	51	52	16.5	0.80
VLBS-W/S-6.7	6700	67	73	22.5	1.90
VLBS-W/S-10	10000	67	71	26.5	2.90
VLBS-W/S-16	16000	100	105	26.0	6.80

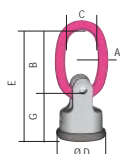
**VRBK** Eye plate for corners.

Ready for welding.

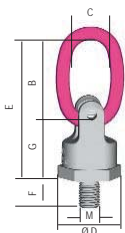
Type	WLL (kgs)	B (mm)	C (mm)	F (mm)	Weight (kgs)
VRBK-4	4000	135	48	16	0.90
VRBK-6.7	6700	174	60	20	1.30
VRBK-10	10000	208	65	22	4.30

**WPP-B** Weld-on eye connection (swivelling).

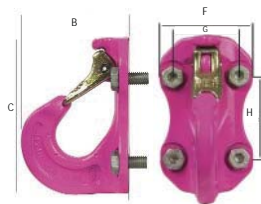
Type	WLL (kgs)	A (mm)	B (mm)	C (mm)	D (mm)	E (mm)	G (mm)	Weight (kgs)
WPP-B-0.63t	630	9	65	35	40	105	40	0.35
WPP-B-1.5t	1500	11	65	35	46	115	50	0.6
WPP-B-2.5t	2500	13	74	40	61	135	61	1.0
WPP-B-4t	4000	16	95	45	80	172	77	2.3
WPP-B-5t	5000	21	130	60	95	223	93	4.7
WPP-B-8t	8000	24	140	65	100	242	102	5.3

**PP-B** Bolt-on eye connection (swivelling) metric thread.

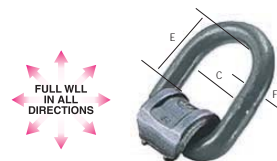
Type	WLL (kgs)	B (mm)	C (mm)	D (mm)	F (mm)	G (mm)	M (mm)	Weight (kgs)
PP-B-0.63t-M12	630	65	35	40	18	41	12	0.35
PP-B-1.5t-M16	1500	65	35	46	24	50	16	0.6
PP-B-2.5t-M20	2500	75	40	61	30	61	20	1.1
PP-B-4t-M24	4000	95	45	78	36	78	24	2.4
PP-B-5t-M30	5000	130	60	95	45	93	30	5.2
PP-B-8t-M36	8000	140	65	100	54	102	36	6.3

**VABH-B** Excavator Hook bolt on. Extremely robust forged safety latch.

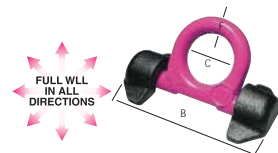
Type	WLL (kgs)	B (mm)	C (mm)	F (mm)	G (mm)	H (mm)	Weight (kgs)
VABH-B-1.5t	1500	78	117	70	48	60	0.78
VABH-B-2.5t	2500	101	148	85	60	75	1.73
VABH-B-4t	4000	122	171	104	70	90	3.0
VABH-B-6.7t	6700	156	208	120	85	110	5.6

**LBS (S/S)** Stainless steel load ring. Ready for welding.

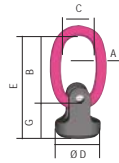
Type	WLL (kgs)	C (mm)	E (mm)	F (mm)	Weight (kgs)
LBS(S/S)-1	500	36	39	13.5	0.30
LBS(S/S)-3	1000	50	50	16.5	0.60
LBS(S/S)-5	2000	65	72	22.5	1.60

**VRBS** Weld on eye plate. Ready for welding.

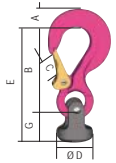
Type	WLL (kgs)	B (mm)	C (mm)	F (mm)	Weight (kgs)
VRBS-4.0	4000	135	48	16	0.8
VRBS-6.7	6700	170	60	20	1.80
VRBS-10	10000	195	65	22	2.80
VRBS-16	16000	266	90	30	6.60
VRBS-31.5	31500	375	130	42	19.0
VRBS-50	50000	620	230	70	85.0



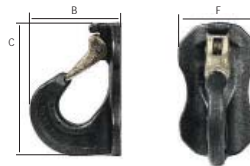
## RUD - RINGS, EYES &amp; HOOKS


**WPPH-B** Weld-on eye connection  
(non-swivelling)


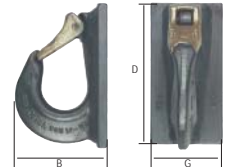
Type	WLL (kgs)	A (mm)	B (mm)	C (mm)	D (mm)	E (mm)	G (mm)	Weight (kgs)
WPPH-B-0.63t	630	9	65	35	34	99	34	0.3
WPPH-B-1.5t	1500	11	65	35	40	109	44	0.5
WPPH-B-2.5t	2500	13	74	40	53	127	53	0.9
WPPH-B-4t	4000	16	95	45	68	163	67	2.2
WPPH-B-5t	5000	21	130	60	83	209	79	4.5
WPPH-B-8t	8000	24	140	65	88	228	88	5.1

**WPPH-S** Weld-on universal connection  
(non-swivelling)


Type	WLL (kgs)	A (mm)	B (mm)	C (mm)	D (mm)	E (mm)	G (mm)	Weight (kgs)
WPPH-S-0.63t	630	13	75	18	34	109	34	0.35
WPPH-S-1.5t	1500	20	97	25	141	44	44	0.95
WPPH-S-2.5t	2500	28	126	30	53	179	53	1.4
WPPH-S-4t	4000	36	150	35	68	217	67	3.2
WPPH-S-5t	5000	37	174	40	83	253	79	6.9
WPPH-S-8t	8000	49	208	48	88	296	88	8.0

**VABH-W** Weld-on excavator hook


Type	WLL (kgs)	B (mm)	C (mm)	F (mm)	Weight (kgs)
VABH-W 1.5t	1500	78	117	70	0.8
VABH-W 2.5t	2500	101	148	85	1.8
VABH-W 4t	4000	122	171	104	3.1
VABH-W 6.7t	6700	156	208	120	5.9

**VCGH-S** High capacity  
weld-on excavator hook


Type	WLL (kgs)	B (mm)	C (mm)	F (mm)	Weight (kgs)
VCGH-S 16	10000	141	220	100	5.0
VCGH-S 20	16000	187	288	120	8.4
VCGH-S 22	20000	195	292	120	14.5

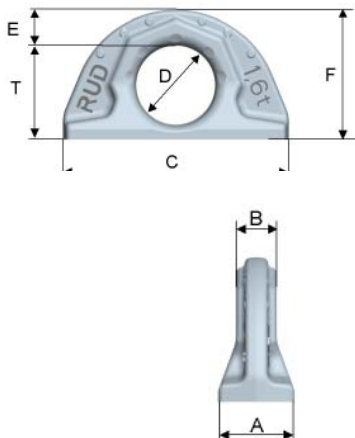
**VWBG-V** Bolt on swivel ring bolt  
360° swivelling, 180° pivoting


Type	WLL (kgs)	A (mm)	C (mm)	F* (mm)	Weight (kgs)
VWBG-V-0.3 M8	300	8	29	13	0.18
VWBG-V-0.45 M10	450	8	29	17	0.29
VWBG-V-0.6 M12	600	10	35	21	0.41
VWBG-V-1.3 M16	1300	13	38	25	0.59
VWBG-V-2.0 M20	2000	13	35	33	1.42
VWBG-V-3.5 M24	3500	18	40	40	2.63
VWBG-V-5.0 M30	5000	22	50	50	5.09

**VWBG** Bolt on swivel ring bolt 360° swivelling,  
180° pivoting, with ball bearing


Type	WLL (kgs)	A (mm)	C (mm)	F (mm)	Weight (kgs)
VWBG-8 M36	8000	22	50	54	4.67
VWBG-12 M42	12000	26	65	63	6.1
VWBG-13 M48	13000	26	65	68	6.37
VWBG-16 M56	16000	32	70	84	11.2
VWBG-16 M64	16000	32	70	96	11.4
VWBG-40 M90	40000	40	80	135	33.16

## ABA WELD-ON LIFTING POINT



- Manufactured in Germany using high tensile CrNiMo - steel
- 100% Electro-magnetic crack detection tested
- Complies with DIN 5691 and EN 1677
- 4 :1 Safety factor on Working Load Limit
- Temperature Range -40°C to 100°C no reduction in WLL
- Full working load in all directions
- Patented wear markings on the inside and on the outside

Type	WLL (kgs)	A (mm)	B (mm)	C (mm)	D (mm)	E (mm)	F (mm)	T (mm)	Weight (kgs)
ABA 1.6	1600	30	16	100	35	16	57	41.5	.44
ABA 3.2	3200	41	23	137	50	21	80	59	1.1
ABA 5	5000	51	27	172	60	27.5	99	71.5	2.3
ABA 10	10000	70	38	228	80	35	130	95	5.3
ABA 20	20000	90	52	272	115	40	175	135	10.7
ABA 31.5	31500	108	64	320	130	50	204	154	18.3

## RUD - HOOKS, CLAWS &amp; COUPLINGS



## VCGH VIP-Cobra Hook with safety latch



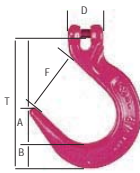
Type	WLL (kgs)	F (mm)	G (mm)	T (mm)	Weight (kgs)
VCGH-6	1500	25	72	76	0.4
VCGH-8	2500	30	95	97	0.9
VCGH-10	4000	35	118	108	1.5
VCGH-13	6700	40	135	126	2.7
VCGH-16	10000	48	161	152	4.3
VCGH-20	16000	63	218	195	10.0
VCGH-22	20000	63	223	198	11.5
VCGH-28	31500	90	295	275	26.4

## VAGH Clevis self locking design in VIP quality



Type	WLL (kgs)	Chain (mm)	E (mm)	F (mm)	T (mm)	Weight (kgs)
VAGH (S)-8	2500	8	91	43	117	0.9
VAGH (S)-10	4000	10	109	47	140	1.9
VAGH (S)-13	6700	13	138	64	169	3.4

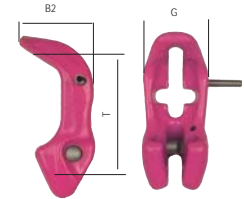
## VWH Clevis foundry hook in VIP quality



Type	WLL (kgs)	Chain (mm)	A (mm)	B (mm)	D (mm)	F (mm)	T (mm)	Weight (kgs)
VWH-6	1500	6	30	22	30	50	87	0.5
VWH-8	2500	8	40	29	40	64	115	0.9
VWH-10	4000	10	46	37	50	76	130	1.7
VWH-13	6700	13	51	45	64	90	168	3.0
VWH-16	10000	16	64	56	75	100	190	5.7
VWH-20*	16000	20	96	80	102	136	277	15.1
VWH-22*	20000	22	96	80	102	136	277	15.1

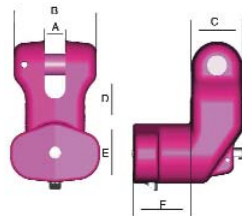
\* Weight optimised in Skeletto-Technology and patented wear marks.

## VMVK Shortening claw in VIP quality



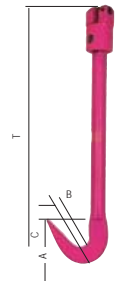
Type	WLL (kgs)	Chain (mm)	B2 (mm)	T (mm)	G (mm)	Weight (kgs)
VMVK-6	1500	6	45	66	44	0.65
VMVK-8	2500	8	56	88	55	1.0
VMVK-10	4000	10	75	110	72	1.5
VMVK-13	6700	13	92	143	96	3.6
VMVK-16	10000	16	128	176	116	6.2
VMVK-20	16000	20	137	209	123	11.5
VV-28	31500	28	130	170	-	16.9

VCH VIP Container Hook  
Strong and compact with a  
maximum inclination angle of 45°



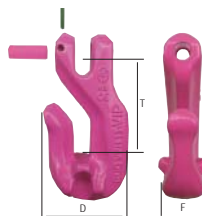
Type	WLL (kgs)	A (mm)	B (mm)	C (mm)	D (mm)	E (mm)	F (mm)	Weight (kgs)
VCH-SL	10000	18	71	42	40	50	47	2.4

## VBMHWA VIP swivelling Bale Hook



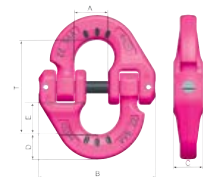
Type	WLL (kgs)	A (mm)	B (mm)	C (mm)	T (mm)	Weight (kgs)
VBMHWA-8	2500	35	18	61	381	2.5
VBMHWA-10	4000	35	18	61	381	2.5

## VWH VIP Clevis Grab Hook



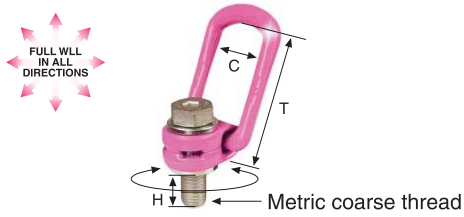
Type	WLL (kgs)	Chain (mm)	D (mm)	F (mm)	T (mm)	Weight (kgs)
VWH-6	1500	6	43	23	50	0.25
VWH-8	2500	8	54	33	64	0.35
VWH-10	4000	10	68	42	80	0.80
VWH-13	6700	13	87	47	103	2.2
VWH-16	10000	16	108	57	125	3.5
VWH-20	16000	20	138	76	162	8.4
VWH-22	20000	22	151	83	179	11.0

## VVS VIP Chain Coupling



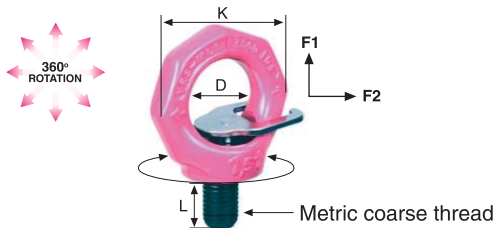
Type	WLL (kgs)	Chain (mm)	B (mm)	D (mm)	T (mm)	Weight (kgs)
VVS-6	1500	6	50	14	40	0.1
VVS-8	2500	8	64	19	53	0.2
VVS-10	4000	10	80	23	70	0.4
VVS-13	6700	13	96	27	81	0.7
VVS-16	10000	16	125	34	104	1.5
VVS-20	16000	20	155	41	124	3.0
VVS-22	20000	22	170	46	133	3.9
VVS-28	31500	28	228	67	189	10.6





### VLBG - RING BOLT

TYPE	WLL (kgs)	C mm	H mm	T mm	WEIGHT (kgs)
VLBG-0.3t-M8	300	34	11	75	0.4
VLBG-0.63t-M10	630	34	16	75	0.4
VLBG-1t-M12	1000	34	21	75	0.4
VLBG-1.5t-M16	1500	36	24	85	0.5
VLBG-2.5t-M20	2500	54	32	110	1.3
VLBG-4t-M24	4000	54	37	125	1.5
VLBG-4t-M27	4000	65	39	147	3.1
VLBG-5t-M30	5000	65	49	147	3.3
VLBG-7t-M36	7000	65	52	146	3.4
VLBG-8t-M36	8000	82	63	197	5.8
VLBG-10t-M42	10000	80	73	162	6.4
VLBG-15t-M42	15000	100	63	222	10.7
VLBG-20t-M48	20000	100	73	222	11.1



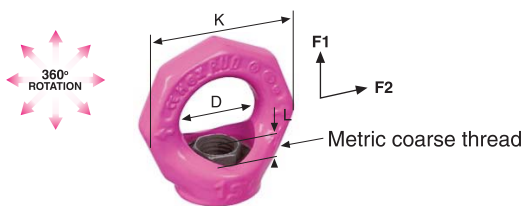
### VRS-F - STARPOINT EYEBOLT

Metric thread, with locking component, 360° rotation

TYPE	WLL (F1) (kgs)	WLL (F2) (kgs)	D mm	K mm	L mm	WEIGHT (kgs)
VRS-F-M8	1000	400	25	47	15	0.10
VRS-F-M10	1000	400	25	47	15	0.12
VRS-F-M12	2000	750	30	56	18	0.18
VRS-F-M16	4000	1500	35	65	24	0.32
VRS-F-M20	6000	2300	40	75	30	0.51
VRS-F-M24	8000	3200	48	90	36	0.92
VRS-F-M30	12000	4500	60	112	45	1.80
VRS-F-M36	16000	7000	72	135	54	3.35
VRS-F-M42	24000	9000	82	158	63	5.14
VRS-F-M48	32000	12000	94	180	72	7.80

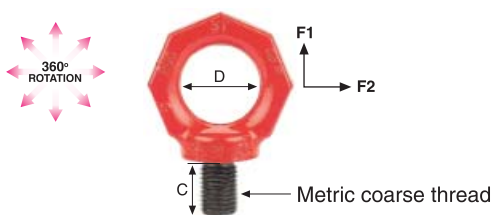
UNC Imperial thread, with locking component, 360° rotation

TYPE	WLL (F1) (kgs)	WLL (F2) (kgs)	D mm	K mm	L mm	WEIGHT (kgs)
VRS-F-3/8" UNC	1000	400	25	47	15	0.10
VRS-F-1/2" UNC	2000	750	30	56	18	0.18
VRS-F-5/8" UNC	4000	1500	35	63	24	0.32
VRS-F-3/4" UNC	6000	2300	40	75	30	0.51
VRS-F-7/8" UNC	6000	2300	40	75	32	0.51
VRS-F-1" UNC	8000	3200	48	90	36	0.92
VRS-F-1 1/4" UNC	12000	4500	60	112	45	1.80
VRS-F-1 1/2" UNC	16000	7000	72	135	54	3.35
VRS-F-1 3/4" UNC	24000	9000	82	158	63	5.14
VRS-F-2" UNC	32000	12000	94	180	72	7.80



### VRM - STARPOINT EYENUT

TYPE	WLL (F1) (kgs)	WLL (F2) (kgs)	D mm	K mm	L mm	WEIGHT (kgs)
VRM-M8	1000	400	25	47	12	0.10
VRM-M10	1000	400	25	47	15	0.10
VRM-M12	2000	750	30	56	18	0.20
VRM-M16	4000	1500	35	65	24	0.30
VRM-M20	6000	2300	40	75	30	0.50
VRM-M24	8000	3200	48	90	36	0.90
VRM-M30	12000	4500	60	112	45	0.70



### RS - HIGH TENSILE EYEBOLT

TYPE	WLL (F1) (kgs)	WLL (F2) (kgs)	C mm	D mm	WEIGHT (kgs)
RS-M6	400	100	12	25	0.10
RS-M8	800	200	12	25	0.10
RS-M10	1000	250	15	25	0.12
RS-M12	1600	400	18	30	0.18
RS-M14	3000	750	21	35	0.30
RS-M16	4000	1000	24	35	0.30
RS-M20	6000	1500	30	40	0.47
RS-M24	8000	2000	36	50	0.89
RS-M30	12000	3000	45	60	1.57
RS-M36	16000	4000	54	90	6.20
RS-M42	24000	6000	63	90	6.40
RS-M48	32000	8000	68	90	6.60

## RUD - GRADE 100 ALLOY CHAIN



**Grade 100 Alloy Chain - RUD:** The most technologically advanced alloy sling chain system available - with 25% higher working load capacity and greater wear resistance than Grade 80 (T) chain. The system comes with an extensive range of fittings, to offer the most innovative chain sling system available.


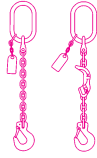

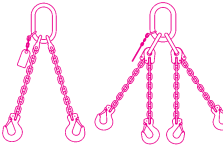



**VIP - Special Quality:** For single and multiple strand sling chains with different angles of inclination for symmetrical loading of the strands. Available in sizes 4mm through to 28mm. Every chain link is stamped with the VIP logo, plus serial and batch numbers are stamped every running metre. A higher visible colour which discolours under

high temperatures and a dual process surface coating for increased corrosion resistance.

**VIP Overheating Indication:** This special fluorescent pink powder coating permanently changes colour at increased temperatures. Colour black signifies and application of more than 400°C (715°F). Further use is then prohibited. Due to a special heat treatment developed by RUD, the high-dynamic VIP chains are more resistant to external mechanical wear friction and damage. Therefore, longer service life is guaranteed. All RUD-VIP chains and components are electromagnetically crack detected to ensure greater safety.



## Working Load Limits (WLL) in tonnes

RUD - Lifting Systems in Special Quality  Grade 100 Chain Dia. (mm)	Single Leg Slings		Slings of 2, 3 or 4 Legs						Endless Slings			
	 Straight / Adj. Sling	 Reeved Sling	 Straight Multileg Slings			 Reeved Sling			 Basket Sling			 Reeved Sling
			60°	90°	120°	60°	90°	120°	60°	90°	120°	
VIP 4	0.63	0.47	1.09	0.89	0.63	0.82	0.66	0.47	0.82	0.66	0.47	0.94
VIP 6	1.5	1.1	2.6	2.1	1.5	1.9	1.6	1.1	1.9	1.6	1.1	2.2
VIP 8	2.5	1.9	4.3	3.5	2.5	3.2	2.6	1.8	3.2	2.6	1.8	3.7
VIP 10	4.0	3.0	6.9	5.6	4.0	5.2	4.2	3.0	5.2	4.2	3.0	6.0
VIP 13	6.7	5.0	11.6	9.4	6.7	8.7	7.1	5.0	8.7	7.1	5.0	10.0
VIP 16	10.0	7.5	17.3	14.1	10.0	13.0	10.6	7.5	13.0	10.6	7.5	15.0
VIP 20	16.0	12.0	27.7	22.5	16.0	20.8	16.9	12.0	20.8	16.9	12.0	24.0
VIP 22	20.0	15.0	34.6	28.2	20.0	26.0	21.2	15.0	26.0	21.2	15.0	30.0
VIP 28	31.5	23.6	54.5	44.4	31.5	41.0	33.4	23.6	41.0	33.4	23.6	47.2
Load Factor >	1	0.75	1.73	1.41	1	1.3	1.06	0.75	1.3	1.06	0.75	1.5
Temperature Considerations	When using Chain Slings at temperatures > 200°C (392°F), the WLL has to be reduced.											
	Working Load in % at temperatures of:											
	-40°C up to +200°C			200°C up to 300°C			300°C up to 380°C					
	100%			90%			60%					

## Assembled Slings

## VCGH

- Manufactured in standard lengths
- Fully assembled with VCGH clevis safety hooks
- Complete with clevis grab hooks, stainless steel tag and test certificate
- Further lengths available upon request



## Assembled Slings

## VAGH

- Manufactured in standard lengths
- Fully assembled with VAGH clevis self locking hooks
- Complete with clevis grab hooks, stainless steel tag and test certificate
- Further lengths available upon request



Chain (mm)	Leg (m)	1 Leg		2 Legs	
		WLL	Product Code	Product Code	WLL @ 60°
8	1	2.5t	7771045	7771053	4.3t
8	2	2.5t	7771046	7771054	4.3t
10	3	2.5t	7771047	7771055	4.3t
10	1	4.0t	7771048	7771056	6.9t
10	2	4.0t	7771049	7771057	6.9t
10	3	4.0t	7771050	7771058	6.9t
10	4	4.0t	7771099	7771059	6.9t
10	6	4.0t	7771100	7771060	6.9t
13	3	6.7t	7771051	7771061	11.6t
13	6	6.7t	7771052	7771062	11.6t

Chain (mm)	Leg (m)	1 Leg		2 Legs	
		WLL	Product Code	Product Code	WLL @ 60°
8	1	2.5t	7771063	7771071	4.3t
8	2	2.5t	7771064	7771072	4.3t
10	3	2.5t	7771065	7771073	4.3t
10	1	4.0t	7771066	7771074	6.9t
10	2	4.0t	7771067	7771075	6.9t
10	3	4.0t	7771068	7771076	6.9t
10	4	4.0t	7771101	7771077	6.9t
10	6	4.0t	7771102	7771078	6.9t
13	3	6.7t	7771069	7771079	11.6t
13	6	6.7t	7771070	7771080	11.6t

## RUD - GRADE 120 ALLOY CHAIN



**Grade 120 Alloy Chain - RUD:** The evolution in chain steel and in the production process enables the quantum leap to a new "class of its own". With 60% higher working load capacity and greater wear resistance than Grade 80 (T) chain.

**ICE - Special Quality:** For single and multiple strand sling chains with different angles of inclination for symmetrical loading of the strands. Available in sizes 6mm, 8mm, 10mm 13mm and 16mm. Every chain link is stamped with the ICE logo, plus serial and batch numbers are stamped every running metre. The reduction in weight of more than 30% is a considerable factor in work ergonomics. A higher visible colour which discolours under high

temperatures and a dual process surface coating for increased corrosion resistance.

**ICE Overheating Indication:** Extremely temperature resistant -60°C up to +300°C. This special fluorescent traffic purple powder coating permanently changes colour at increased temperatures. Colour black signifies and application of more than 400°C (715°F). Further use is then prohibited. Due to a special heat treatment developed by RUD, the high-dynamic ICE chains are more resistant to external mechanical wear friction and damage. Therefore, longer service life is guaranteed. All RUD-ICE chains and components are electromagnetically crack detected to ensure greater safety.



## Working Load Limits (WLL) in tonnes

RUD - Lifting Systems in Special Quality <b>ICE 120</b> Grade 120 Chain Dia. (mm)	Single Leg Slings		Slings of 2, 3 or 4 Legs						Endless Slings			
	 Straight / Adj. Sling	 Reeved Sling	Straight Multileg Slings			Reeved Sling			Basket Sling			 Reeved Sling
			60°	90°	120°	60°	90°	120°	60°	90°	120°	
ICE 6	1.8	1.3	3.1	2.5	1.8	2.3	1.9	1.3	2.3	1.9	1.3	2.7
ICE 8	3.0	2.2	5.2	4.2	3.0	3.9	3.2	2.2	3.9	3.2	2.2	4.5
ICE 10	5.0	3.7	8.6	7.0	5.0	6.5	5.3	3.7	6.5	5.3	3.7	7.5
ICE 13	8.0	6.0	13.8	11.3	8.0	10.4	8.5	6.0	10.4	8.5	6.0	12.0
ICE 16	12.5	9.4	21.6	17.6	12.5	16.2	13.2	9.4	16.2	13.2	9.4	18.7
Load Factor >	1	0.75	1.73	1.41	1	1.3	1.06	0.75	1.3	1.06	0.75	1.5
Temperature Considerations	When using Chain Slings at temperatures > 200°C (392°F), the WLL has to be reduced.											
	Working Load in % at temperatures of:											
	-60°C up to +200°C			200°C up to 250°C			250°C up to 300°C					
	100%			90%			60%					

## Assembled Slings

## ICE-STAR

- Manufactured in standard lengths
- Fully assembled with clevis sling hooks
- Complete with clevis grab hooks, stainless steel tag and test certificate
- Further lengths available upon request



## Assembled Slings

## ICE-IAGH

- Manufactured in standard lengths
- Fully assembled with clevis self locking hooks
- Complete with clevis grab hooks, stainless steel tag and test certificate
- Further lengths available upon request



Chain (mm)	Leg (m)	1 Leg		2 Legs	
		WLL	Product Code	Product Code	WLL @ 60°
8	1	3.0t	7771081	7771089	5.2t
8	2	3.0t	7771082	7771090	5.2t
10	1	5.0t	7771084	7771092	8.6t
10	2	5.0t	7771085	7771093	8.6t
13	3	8.0t	7771087	7771097	13.8t
13	6	8.0t	7771088	7771098	13.8t

Chain (mm)	Leg (m)	1 Leg		2 Legs	
		WLL	Product Code	Product Code	WLL @ 60°
8	1	3.0t	7771103	7771109	5.2t
8	2	3.0t	7771104	7771110	5.2t
10	1	5.0t	7771105	7771111	8.6t
10	2	5.0t	7771106	7771112	8.6t
13	3	8.0t	7771107	7771113	13.8t
13	6	8.0t	7771108	7771114	13.8t

# cromox®

## CROMOX STAINLESS STEEL CHAINS

**Cromox is an innovation in the field of Stainless Steel chains, offering real advantages in terms of resistance, in particular with respect to aggressive medium. The new Cromox brand therefore stands for innovative quality products made by Ketten Wlder, in Germany.**

**This new development reflects a lot of new information obtained from years of experience and intensive research.**

### **CROMOX CHAINS - the name stands for the new power in Stainless Steel**

Chemical resistance meeting supreme requirements thanks to carefully used materials and great diversity of applications - also available as special-steel version on demand.

Resistance to mechanical stain for top-level applications. As for load lifting, Cromox is based on Grade 5 (SF 1:4) in conveying, the hard material insures long service life for the conveyer machines.

In addition to being of Grade 5, Cromox lifting chains have a safety factor of 1:4, guaranteeing a high degree of trueness of calibration and precise running over the chain wheels. Cromox anchor chains exceed by far the requirements of DIN and ISO standards as far as their loadbearing capacity and exact running over anchor windlass wheels is concerned.

Optimum surface finish thanks to variety of methods of treatment, some of which have been specially developed; natural black for further processing, mechanically brightened for conveying, electropolished for the food and leisure industries, pickled for use as anchor chains, blasted for the lifting of loads.

Materials which have been specially selected. One of them is a material no: 1.4404 (AISI 316 L), which offers excellent chemical and mechanical advantages, resulting in better corrosion resistance and more favorable properties.

Optimised accessories for individual requirements; chains, links, hooks, connectors, shorteners, shackles, swivels and rotary parts.

A multiplicity of possible combinations of individual components, for use in a variety of fields.

### **Applications:**

- Chemistry
- Food Industry
- Water and wastewater engineering
- Environmental technology
- Renewable energies
- Power plant engineering
- Naval and military technology
- Nautical engineering
- Mechanical and plant engineering



**IF YOU CAN'T FIND WHAT YOU'RE LOOKING FOR, CALL OUR SALES TEAM & IF WE DON'T HAVE IT, WE'LL GET IT FOR YOU!**



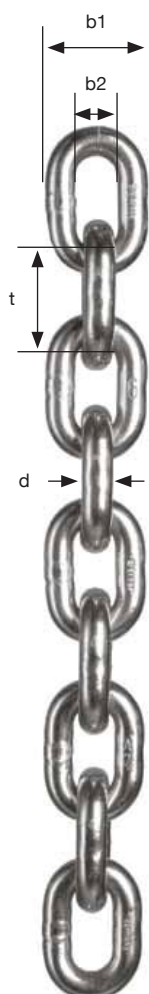
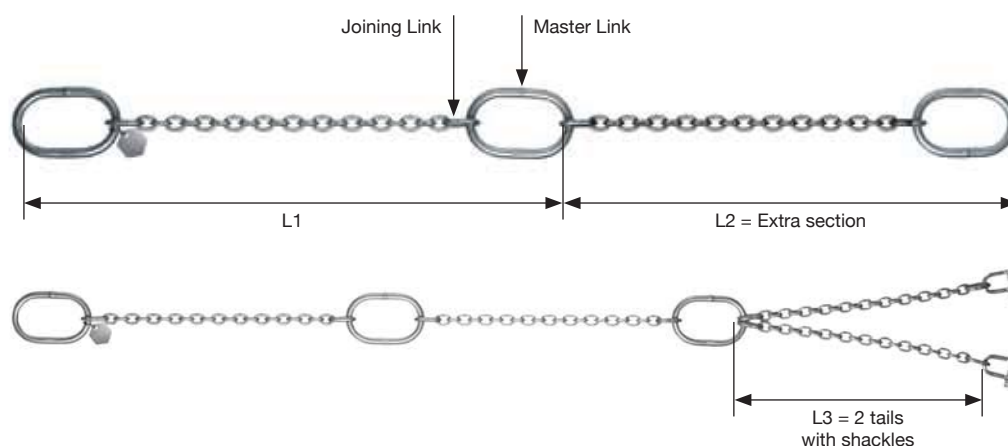
## CROMOX STAINLESS STEEL CHAINS

# cromox<sup>®</sup>

## Stainless steel pump lifting chains, AISI 316 L



Code	Type	W.L.L kg	Master Link mm	Chain mm	Joining Link mm
KW-179604	PK 4	300	8x54x30	4x16	5x22x9
KW-179605	PK 5	500	10x80x50	5x15	6x26x13
KW-179606	PK 6	750	13x110x60	6x18	8x35x19
KW-179607	PK 7	1000	13x110x60	7x21	8x35x19
KW-179608	PK 8	1250	16x110x60	8x24	10x44x25
KW-179610	PK 10	2000	18x135x75	10x30	13x54x25
KW-179613	PK 13	3200	22x160x90	13x39	16x70x34
KW-179616	PK 16	5000	26x180x100	16x48	22x115x50
KW-179618	PK 18	6300	32x200x110	18x54	26x140x65

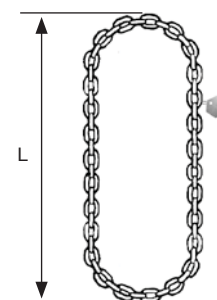


## Stainless steel chain, Grade 50 AISI 316 L

Code	d	Dimensions/mm		Weight ca.kg/m	W.L.L kgs	Breaking Force kN
		t	b1 min.	b2 max.		
KW-105515EP	5.0	15.0	6.5	18.5	0.54	20
KW-105660EP	6.0	18.0	7.8	22.2	0.80	30
KW-105670EP	7.0	21.0	9.1	25.9	1.10	40
KW-105680EP	8.0	24.0	10.4	29.6	1.40	50
KW-105610EP	10.0	30.0	13.0	37.0	2.20	80
KW-105613BK	13.0	39.0	16.9	48.1	3.80	125
KW-105616BK	16.0	48.0	20.8	59.2	5.70	200
KW-105618BK	18.0	54.0	24.3	64.8	7.30	280

## Stainless steel endless chain, Grade 50 AISI 316 L

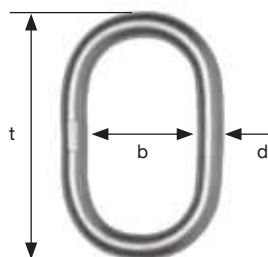
Code	Chain d/mm	W.L.L/Vert kg	W.L.L 90° kg	W.L.L 120° kg
KW-132506EP	6	1500	825	600
KW-132507EP	7	2000	1100	800
KW-132508EP	8	2500	1375	1000
KW-132510EP	10	4000	2200	1600
KW-132513BK	13	6400	3520	2560
KW-132516BK	16	10000	5500	4000



# cromox®

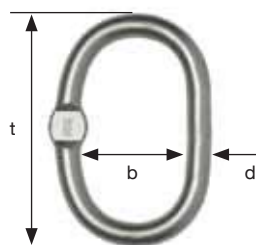
## CROMOX STAINLESS STEEL FITTINGS

**Stainless steel master links, 1 and 2 leg, type NAG without flattened section, Grade 50 AISI 318 LN**



Code	Type	W.L.L			Dimensions mm			Weight ca kg
		0° 1-sling	90° 2-sling	120° 2-sling	d	t	b	
KW-177510BK	NAG 05	500	-	-	10	80	50	0.150
KW-177513BK	NAG 6706	1000	1000	750	13	110	60	0.340
KW-177516BK	NAG 0807	1250	1400	1000	16	110	60	0.530
KW-177518BK	NAG 1008	2000	1700	1250	18	135	75	0.800
KW-177522BK	NAG 1310	3200	2830	2000	22	160	90	1.500
KW-177526BK	NAG 1613	5000	4500	3200	26	180	100	2.300
KW-177532BK	NAG 1816	7160	7100	5000	32	200	110	3.900
KW-177536BK	NAG 2018	8000	9000	6300	36	260	140	6.350
KW-177806BK	NBG 6	500	-	-	6	26	13	0.018
KW-177808BK	NBG 8	1000	-	-	8	35	19	0.046
KW-177810BK	NBG 10	1250	710	500	10	44	25	0.092
KW-177813BK	NBG 13	2000	1000	750	13	54	25	0.195
KW-177816BK	NBG 16	3200	1770	1250	16	70	34	0.370
KW-177818BK	NBG 18	4100	2800	2000	18	85	40	0.530
KW-177822BK	NBG 22	6300	4500	3200	22	115	50	1.065
KW-177826BK	NBG 26	7600	7100	5000	26	140	65	1.825

**Stainless steel master links, 1 and 2 leg slings, type NAF with flattened section, Grade 50 AISI 318 LN**

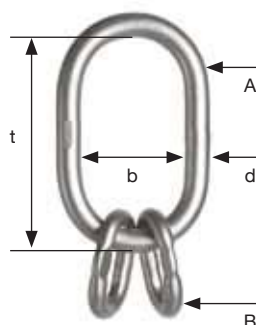


All master links have a flattened section to permit the use of connectors (e.g. clevis shackles type NGS)

Code	Type	W.L.L			Dimensions mm			Weight ca kg
		0° 1-sling	90° 2-sling	120° 2-sling	d	t	b	
KW-177613BK	NAF 6706	1000	1000	750	13	110	60	0.340
KW-177616BK	NAF 0807	1250	1400	1000	16	110	60	0.530
KW-177618BK	NAF 1008	2000	1700	1250	18	135	75	0.800
KW-177622BK	NAF 1310	3200	2800	2000	22	160	90	1.500
KW-177626BK	NAF 1613	5000	4500	3200	26	180	100	2.300
KW-177632BK	NAF 1816	7100	7100	5000	32	200	110	3.900
* KW-177636BK	NAF 2018	8000	9000	6300	36	260	140	6.350
KW-177913BK	NBF 13	2000	1000	750	13	54	25	0.195
KW-177916BK	NBF 16	3200	1700	1250	16	70	34	0.370
KW-177918BK	NBF 18	4100	2800	2000	18	85	40	0.530
KW-177922BK	NBF 20	6300	4500	3200	22	115	50	1.065
KW-177926BK	NBF 26	7600	7100	5000	26	140	65	1.825

\* Available on request.

**Stainless steel master links, 3 and 4 leg slings, type NATF with flattened section, Grade 50 AISI 318 LN**

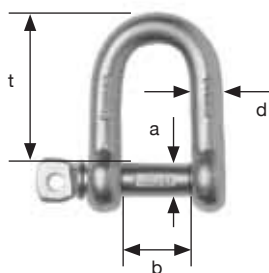


Code	Type	W.L.L		Dimensions mm			Weight ca.kg
		90° kg	120° kg	d	t	b	
KW-178618BK	NATF 0607	1600	1120	A18 B13	135 54	75 25	1.20
KW-178622BK	NATF 08	2650	1800	A22 B16	160 70	90 34	2.30
KW-178626BK	NATF 10	4250	3000	A26 B18	180 85	100 40	3.56
KW-178632BK	NATF 13	6700	4750	A32 A22	200 115	110 50	6.05
KW-178636BK	NATF 16	10000	7500	A36 B26	260 140	140 65	10.00

# cromox®

## CROMOX STAINLESS STEEL FITTINGS

### Stainless steel dee shackles, type NSA, Grade 50



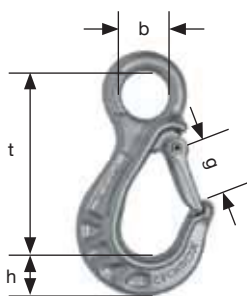
Code	Type	W.L.L kg	a	Dimensions mm			Weight ca.kg
				d	t	b	
KW-184605EP	NSA 05 AISI 316	500	9	8	24	17	0.058
KW-184606EP	NSA 06 AISI 316	750	11	10	35	20	0.116
KW-184608EP	NSA 08 AISI 316	1250	13	12	42	25	0.200
KW-184610EP	NSA 10 AISI 316	2000	18	16	64	32	0.450
KW-184613EP	NSA 13 AISI 316	3200	21	19	76	38	0.910
KW-184616EP	NSA 16 AISI 630	5000	19	16	64	32	0.550
KW-184618EP	NSA 18 AISI 630	6300	22	19	76	38	1.00
KW-184620EP	NSA 20 AISI 630	9000	26	22	88	44	1.900
KW-184622EP	NSA 22 AISI 630	11000	29	25	102	51	2.900
KW-184626EP	NSA 26 AISI 630	13000	32	29	114	57	3.100
KW-184627EP	NSA 27 AISI 630	15000	35	32	128	64	4.300
KW-184628EP	NSA 28 AISI 630	18000	38	35	140	70	5.300



### Stainless steel clevis shackle, type NGS, Grade 50 AISI 316 L

Code	Type	W.L.L kg	t	Dimensions mm		Weight ca.kg
				b	a	
KW-199606GB	NGS 06	750	26	20	7	0.160
KW-199608GB	NGS 08	1250	30	23	9	0.230
KW-199610GB	NGS 10	2000	40	28	11	0.460
KW-199613GB	NGS 13	3200	48	38	14	0.675
KW-199616GB	NGS 16	5000	50	44	17	1.130

These clevis shackles may be inserted into master links to serve as connectors when assembling complete chain slings.



### Stainless steel eye hook Type NOHF, Grade 50 with safety latch AISI 316 LN

A very rugged hook specially constructed with an integral forged safety latch. The latch itself is particularly resistant to side loading. In the event of the hook being seriously overloaded the latch will spring out of position. The point of the hook is designed to prevent incorrect use with the relevant size of chain, and the design of the hook itself is such that the safety latch does not reduce hook admittance.

Code	Type	W.L.L kg	t	Dimensions mm			Weight ca.kg
				g	b	h	
KW-175604GB	NOHF 04	300	75	20	17	17	0.185
KW-175606GB	NOHF 06	750	100	25	25	22	0.350
KW-175608GB	NOHF 08	1250	126	32	27	28	0.790
KW-175610GB	NOHF 10	2000	160	39	37	34	1.370
KW-175613GB	NOHF 13	3200	190	51	48	45	3.000
KW-175616GB	NOHF 16	5000	230	66	55	51	4.800
KW-175618GB	NOHF 18	6300	230	66	55	51	4.800

## FLAT WEBBING AND POLYESTER ROUNDSLING WORKING LOAD CHART

### FEATURES










- All slings are made from 100% Polyester.
- WLL is clearly marked on each sling.
- Colour coding on each sling for added safety.
- Protective sleeves are recommended for lifting sharp and rough objects.

### FLAT SLINGS

Manufactured to A.S.1353 Parts 1 & 2, Safety Factor 8:1

### ROUND SLINGS

Manufactured to A.S. 4497.1, Safety Factor 7:1

									
	M = 1.0	M = 0.8	M = 2.0	M = 1.9	M = 1.7	M = 1.4	M = 1.0	M = 1.7	M = 1.4
COLOUR	VERTICAL	CHOKE	BASKET	30°	60°	90°	120°	60°	60° CHOKE
CODE	WLL kg	WLL kg	WLL kg	WLL kg	WLL kg	WLL kg	WLL kg	WLL kg	WLL kg
VIOLET	1000	800	2000	1900	1700	1400	1000	1700	1400
GREEN	2000	1600	4000	3800	3400	2800	2000	3400	2800
YELLOW	3000	2400	6000	5700	5100	4200	3000	5100	4200
GREY	4000	3200	8000	7600	6800	5600	4000	6800	5600
RED	5000	4000	10000	9500	8500	7000	5000	8500	7000
BROWN	6000	4800	12000	11400	10200	8400	6000	10200	8400
BLUE	8000	6400	16000	15200	13600	11200	8000	13600	11072
ORANGE	10000	8000	20000	19000	17000	14000	10000	17000	14000
ORANGE	12000	9600	24000	22800	20400	16800	12000	20400	16800
ORANGE	15000	12000	30000	29500	25500	21000	15000	25500	21000
ORANGE	20000	16000	40000	38000	34000	28000	20000	34000	28000
ORANGE	30000	24000	60000	57000	51000	52000	30000	51000	52000
ORANGE	50000	40000	100000	95000	85000	70000	50000	85000	70000

Note ~ The maximum WLL is determined by the sling angle.

### INSPECTION REGISTRIES

- All flat and round slings should be visually inspected at 3-monthly intervals as per Australian Standards.



### YUPPIE STRAPS



Black attachment strap complete with 'D' rings each end, rated at 250kg WLL, various colours and lengths can be made to order.







WIRE ROPE SLINGS .....	72-75
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# WIRE ROPE & FITTINGS

## WIRE ROPE SLINGS



We manufacture and supply a comprehensive range of wire rope slings. Used as single leg or in multi leg slings with appropriate fittings, wire rope slings cover all general lifting applications.

Hand and machine spliced wire rope slings are available in black, galvanised or stainless steel. Suitable for a range of applications including lifting, tie-down, towing, crane ropes and winching. Sizes range from 2mm to 32mm with special sizes available on request.

### Ordering Wire Rope Slings

When ordering wire rope slings please supply the following important information:

- Quantity
- Effective Length
- Diameter and/or capacity
- Construction of wire rope
- Type of splice
- Size of eyes and end fittings

### Swaged and Fitted Slings

A range of swaged fittings are available for fitting to wire rope slings in single-leg or multi-leg applications.

### Care and Maintenance

Wire rope is tough and durable, however expendable and eventually reaches the end of its safe service life. We offer inspection and certification of wire rope slings to ensure any rope showing fatigue or sign of failure is removed from operation.



Eye and eye



Eye and thimble eye



Eye and thimble eye and shackle



Thimble eyes and hook



Thimble eyes and link



Thimble eyes and links each end



Closed socket one and open socket other end



## WIRE ROPE SLINGS LOAD CHART

Manufactured to AS1666 SAFETY FACTOR OF 5



METHOD OF LOADING		DIRECT LOAD	CHOKE HITCH		BASKET HITCH								DIRECT LOADED			CHOKE HITCH			
			ROUND LOAD	RECT. LOAD	ROUND LOAD				OTHER THAN ROUND LOAD							ROUND LOAD		OTHER THAN ROUND LOAD	
ROPE																			
NOM. DIA	MIN. BREAKING FORCE																		
mm	kN																		
INCLUDED ANGLE		—	—	—	0°	60°	90°	120°	0°	60°	90°	120°	0-60°	90°	120°	0-45°	0-60°	0-45°	0-60°
		SAFE WORKING LOAD IN TONNES																	
SAFE WORKING LOADS UNDER GENERAL USE WITH 1570 GRADE WIRE AND FIBRE CORE WITH FERRULE-SECURED EYES																			
8	28.2	0.55	0.41	0.27	1.09	0.94	0.77	0.55	0.55	0.48	0.39	0.27	0.94	0.77	0.55	0.71	0.71	0.48	0.48
9	35.6	0.69	0.52	0.34	1.38	1.19	0.97	0.69	0.69	0.60	0.49	0.34	1.19	0.97	0.69	0.90	0.90	0.60	0.60
10	44.0	0.85	0.64	0.43	1.70	1.47	1.20	0.85	0.85	0.74	0.61	0.43	1.47	1.20	0.85	1.11	1.11	0.74	0.74
11	53.2	1.03	0.77	0.52	2.1	1.78	1.45	1.03	1.03	0.90	0.73	0.52	1.78	1.45	1.03	1.34	1.34	0.90	0.90
12	63.3	1.23	0.92	0.61	2.5	2.1	1.73	1.23	1.23	1.07	0.87	0.61	2.1	1.73	1.23	1.59	1.59	1.07	1.07
13	74.3	1.44	1.08	0.72	2.9	2.5	2.0	1.44	1.44	1.25	1.02	0.72	2.5	2.0	1.44	1.87	1.87	1.25	1.25
14	86.2	1.67	1.25	0.83	3.3	2.9	2.4	1.67	1.67	1.45	1.19	0.83	2.9	2.4	1.67	2.2	2.2	1.45	1.45
16	113	2.2	1.64	1.09	4.4	3.8	3.1	2.2	2.2	1.90	1.55	1.09	3.8	3.1	2.2	2.8	2.8	1.90	1.90
18	143	2.8	2.1	1.38	5.5	4.8	3.9	2.8	2.8	2.4	1.97	1.38	4.8	3.9	2.8	3.6	3.6	2.4	2.4
20	176	3.4	2.6	1.70	6.8	5.9	4.8	3.4	3.4	3.0	2.4	1.70	5.9	4.8	3.4	4.4	4.4	3.0	3.0
22	213	4.1	3.1	2.1	8.3	7.1	5.8	4.1	4.1	3.6	2.9	2.1	7.1	5.8	4.1	5.4	5.4	3.6	3.6
24	253	4.9	3.7	2.5	9.8	8.5	6.9	4.9	4.9	4.3	3.5	2.5	8.5	6.9	4.9	6.4	6.4	4.3	4.3
26	297	5.8	4.3	2.9	11.5	10.0	8.1	5.8	5.8	5.0	4.1	2.9	10.0	8.1	5.8	7.5	7.5	5.0	5.0
28	345	6.7	5.0	3.3	13.4	11.6	9.4	6.7	6.7	5.8	4.7	3.3	11.6	9.4	6.7	8.7	8.7	5.8	5.8
32	450	8.7	6.5	4.4	17.4	15.1	12.3	8.7	8.7	7.6	6.2	4.4	15.1	12.3	8.7	11.3	11.3	7.6	7.6
SAFE WORKING LOADS UNDER GENERAL USE WITH 1770 GRADE WIRE AND WIRE-ROPE CORE WITH FERRULE-SECURED EYES																			
8	40.2	0.78	0.58	0.39	1.56	1.35	1.10	0.78	0.78	0.68	0.55	0.39	1.35	1.10	0.78	1.01	1.01	0.68	0.68
9	51.1	0.99	0.74	0.49	1.98	1.71	1.40	0.99	0.99	0.86	0.70	0.49	1.71	1.40	0.99	1.29	1.29	0.86	0.86
10	63.1	1.22	0.92	0.61	2.4	2.1	1.72	1.22	1.22	1.06	0.87	0.61	2.1	1.72	1.22	1.59	1.59	1.06	1.06
11	76.3	1.48	1.11	0.74	3.0	2.6	2.1	1.48	1.48	1.29	1.05	0.74	2.6	2.1	1.48	1.92	1.92	1.29	1.29
12	90.8	1.76	1.32	0.88	3.5	3.0	2.5	1.76	1.76	1.53	1.25	0.88	3.0	2.5	1.76	2.3	2.3	1.53	1.53
13	107	2.1	1.55	1.04	4.1	3.6	2.9	2.1	2.1	1.80	1.47	1.04	3.6	2.9	2.1	2.7	2.7	1.80	1.80
14	124	2.4	1.80	1.20	4.8	4.2	3.4	2.4	2.4	2.1	1.71	1.20	4.2	3.4	2.4	3.1	3.1	2.1	2.1
16	161	3.1	2.3	1.56	6.2	5.4	4.4	3.1	3.1	2.7	2.2	1.56	5.4	4.4	3.1	4.1	4.1	2.7	2.7
18	204	4.0	3.0	1.98	7.9	6.8	5.6	4.0	4.0	3.4	2.8	1.98	6.8	5.6	4.0	5.1	5.1	3.4	3.4
20	252	4.9	3.7	2.4	9.8	8.4	6.9	4.9	4.9	4.2	3.5	2.4	8.4	6.9	4.9	6.3	6.3	4.2	4.2
22	305	5.9	4.4	3.0	11.8	10.2	8.3	5.9	5.9	5.1	4.2	3.0	10.2	8.3	5.9	7.7	7.7	5.1	5.1
24	363	7.0	5.3	3.5	14.1	12.2	9.9	7.0	7.0	6.1	5.0	3.5	12.2	9.9	7.0	9.1	9.1	6.1	6.1
26	426	8.3	6.2	4.1	16.5	14.3	11.6	8.3	8.3	7.2	5.9	4.1	14.3	11.6	8.3	10.7	10.7	7.2	7.2
28	494	9.6	7.2	4.8	19.1	16.6	13.5	9.6	9.6	8.3	6.8	4.8	16.6	13.5	9.6	12.4	12.4	8.3	8.3
32	646	12.5	9.4	6.3	25	22	17.6	12.5	12.5	10.9	8.9	6.3	22	17.6	12.5	16.3	16.3	10.9	10.9
36	817	15.8	11.9	7.9	32	27	22	15.8	15.8	13.8	11.2	7.9	27	22	15.8	21	21	13.8	13.8
40	1010	19.6	14.7	9.8	39	34	28	19.6	19.6	17.0	13.9	9.8	34	28	19.6	25	25	17.0	17.0
44	1220	24	17.7	11.8	47	41	33	24	24	21	16.8	11.8	41	33	24	31	31	21	21
48	1450	28	21	14.0	56	49	40	28	28	24	19.9	14.0	49	40	28	37	37	24	24
52	1710	33	25	16.6	66	57	47	33	33	29	24	16.6	57	47	33	43	43	29	29
56	1980	38	29	19.2	77	66	54	38	38	33	27	19.2	66	54	38	50	50	33	33
60	2270	44	33	22	88	76	62	44	44	38	31	22	76	62	44	57	57	38	38



Open conical socket fitted by means of white metal or synthetic resin.



Wedge socket.



Ordinary thimble fitted by means of a hand splice.



Ordinary thimble fitted by means of an aluminium ferrule.



Soft eye by means of an aluminium ferrule



## SUPERFLEX WIRE SLINGS







Superflex is a plaited galvanised wire rope comprising of 12 plys of high tensile (2070 MPa) steel cable in a 4 x 3 sinnet configuration.

The plaited wire rope design offers exceptional rotation resistance characteristics. It is extremely flexible and very light and easy to handle.





Superflex is extremely tolerant to abuse and has less tendency to kink and runs easily over capstans and sheaves.



### Eye to eye wire slings

Cable Size	Rope dia.  mm	Eye Size  mm	Minimum Breaking Force  kN	Safe Working Load in Tonnes						
				Sling 	Hitch 	Choke Round 	Choke Square 			
				60°	90°	120°				
2-0	8	150	30	0.5	1.0	0.4	0.3	0.9	0.7	0.5
2-5	10	180	47	0.9	1.8	0.7	0.5	1.6	1.3	0.9
3-0	12	220	70	1.3	2.6	1.0	0.7	2.3	1.8	1.3
3-5	14	250	93	1.8	3.6	1.4	0.9	3.1	2.5	1.8
4-0	16	290	125	2.4	4.8	1.8	1.2	4.2	3.4	2.4
4-5	18	320	157	3.0	6.0	2.3	1.5	5.2	4.2	3.0
5-0	20	360	210	4.0	8.0	3.0	2.0	6.9	5.6	4.0
6-5	26	470	335	6.4	12.8	4.8	3.2	11.1	9.0	6.4
8-0	34	600	500	9.5	19.0	7.5	4.8	16.4	13.3	9.5
10-0	44	800	750	14.7	29.4	11.0	7.4	30.6	20.6	14.7

### Endless wire slings

Cable Size	Rope dia. mm	Minimum Breaking Force kN	Safe Working Load in Tonnes			
			Single Strop	Strop as Cradle	Choke Round	Choke Square
						
2-0	8	30	0.8	1.5	0.6	0.4
2-5	10	47	1.4	2.7	1.0	0.7
3-0	12	70	2.0	3.9	1.5	1.0
3-5	14	93	2.7	5.4	2.0	1.4
4-0	16	125	3.6	7.2	2.7	1.8
4-5	18	157	4.5	9.0	3.4	2.3
5-0	20	210	6.0	12.0	4.5	3.0
6-5	26	335	9.6	19.2	7.2	4.0
8-0	34	500	14.3	28.5	10.7	7.2
10-0	44	750	22.0	44.1	16.6	11.0



For specialised applications or ropes, please contact our technical sales department

**COMPLIES WITH AS 1666**



## STEELFLEX WIRE ENDLESS SLINGS

## The steel sling with the fabric feel

Designed for suspension applications where metal or synthetic slings are required

## BENEFITS

- Increased safety
- Improved cut resistance
- 400°F temperature rating (205°C)
- Higher working load compared to Round and Superflex slings
- No hand injuries as there are no external ferrules and tails
- Contours to the load to grip securely
- Wire core inspection window

## SAVES TIME

- No back-up rigging required
- Superior flexibility make rigging easy
- Easy to read safety tag allows instant recognition

## SAVES MONEY

- Lowers show to show freight costs
- Gives you the slings you want to use (round slings) without buying the slings you would be required to use. (Wire/Chain)



Wire core inspection window



Code	W.LL	Length
WRGAC09	2.4T	0.9m
WRGAC18	2.4T	1.8m
WRGAC27	2.4T	2.7m

## HYDRAULIC SWAGING MACHINES

WIROP Hydraulic Swaging Machines are very reliable and are also very silent, making work less stressful. The newly developed logic hydraulic system makes WIROP swagers more durable and require less maintenance.

The PLC electric control system is very user friendly to operate with a special design for C-type structure (one column body) which allows fast access for more efficient swaging.

All of the bodies are made of one piece casting alloy steel. Equipped with Automatic /Manual selection, force setting device adjustable stroke and a foot level switch.

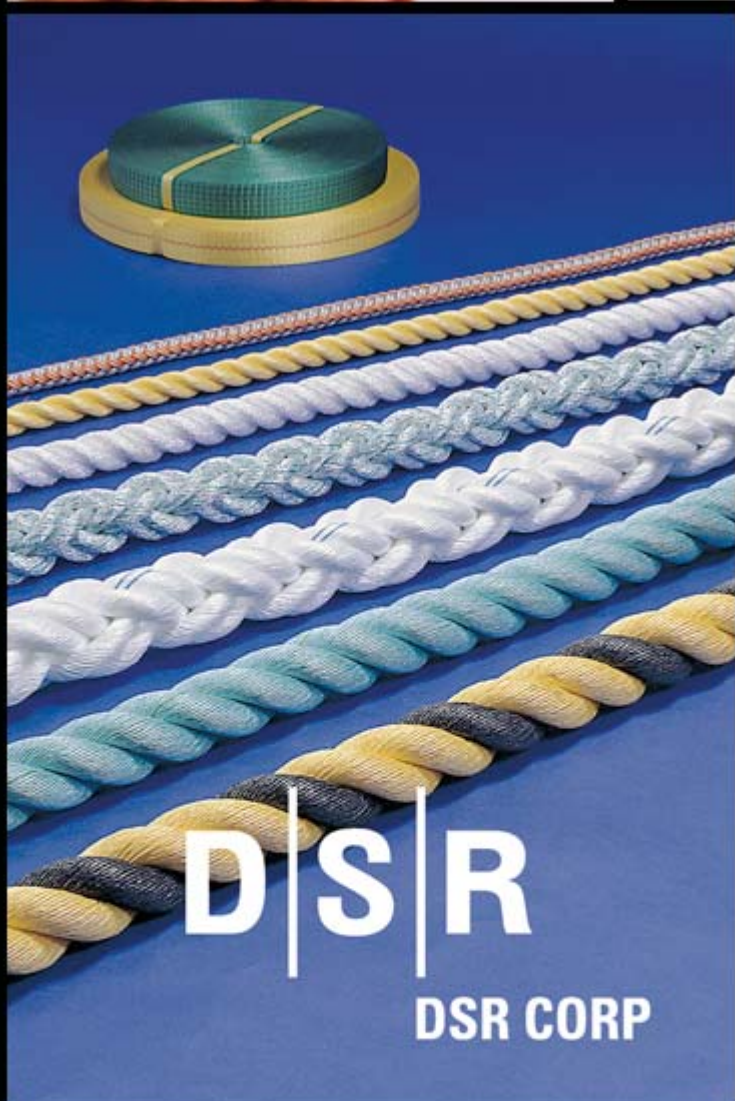
Wirop also manufactures a wide range of Horizontal Tension Testing Benches.



**IF YOU CAN'T FIND WHAT YOU'RE LOOKING FOR, CALL OUR SALES TEAM & IF WE DON'T HAVE IT, WE'LL GET IT FOR YOU!**



**NEW CONCEPTS FOR YOUR BUSINESS**





### AUSTRALIAN STANDARD THIMBLES

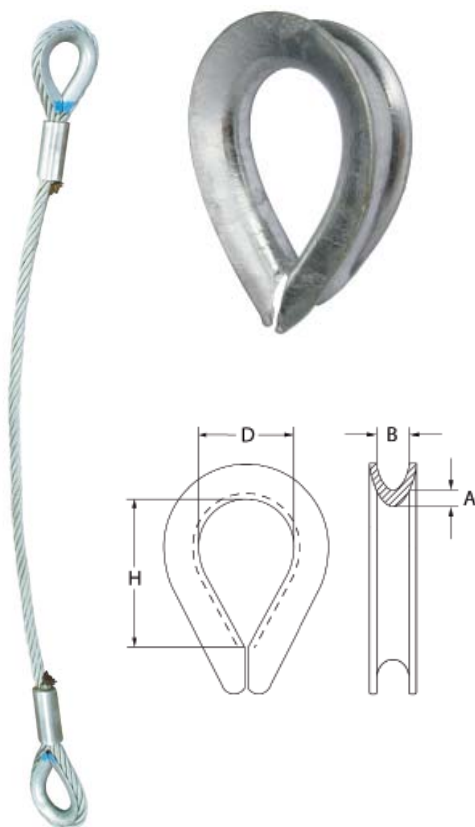
High tensile Australian Standard thimbles are recommended for heavy duty applications:

- Sizes available are from 6mm - 52mm
- Hot dipped galvanized finish

#### SUITABLE FOR LIFTING APPLICATIONS

SIZE mm	WEIGHT/unit KG	A	DIMENSIONS mm B	D	H
6	0.04	4	7	25	16
8	0.052	5	7.9	33	22
10	0.08	5	10.3	38	25
12	0.13	6	14.3	44	32
16	0.26	8	15.9	59	41
20	0.50	10	21.6	75	52
22	0.62	10	22.2	83	57
24	0.9	11	25.4	92	64
26	1.0	11	27	111	72
28	1.1	12	28.6	111	76
32	1.3	14	33.4	133	95
36	2.2	16	38	152	105
40	3.2	18	43	165	114
44	5.6	20	47	178	127
48	8.2	22	51	190	134
52	11.0	22	55	203	140

COMPLIES WITH AS 1138



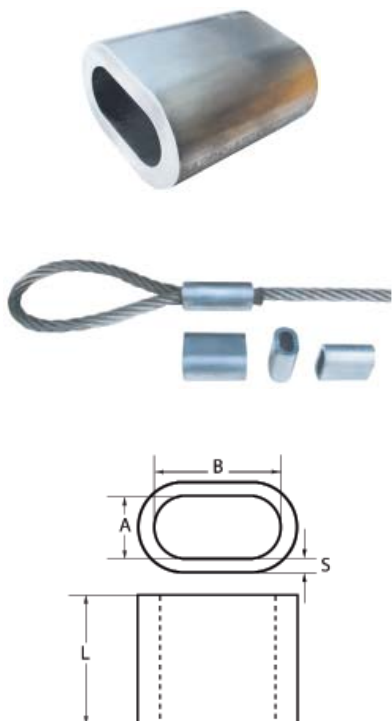
### WIROP ALUMINIUM FERRULES

High quality aluminium ferrules made to DIN standard, used mainly for splicing wire rope to form an eye for slings, winch cables etc.

- Sizes available are from 1.5mm - 54mm
- Aluminium hydraulic machine press type

Note: Ferrule sizes differ for FC and IWRC wire rope during swaging confirm details when ordering.

Complies with DIN3039



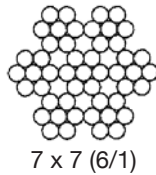
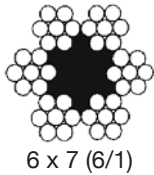
PRODUCT CODE	DIN CODE	NET WEIGHT per 1000pcs (kg)	A	DIMENSIONS mm B	S	L
FAD02	2	0.375	2.2	4.4	0.85	7
FAD025	2.5	0.499	2.7	5.4	1.05	9
FAD03	3	0.843	3.3	6.6	1.25	11
FAD035	3.5	1.32	3.8	7.6	1.5	13
FAD04	4	1.81	4.4	8.8	1.7	14
FAD045	4.5	2.61	4.9	9.8	1.9	16
FAD05	5	3.57	5.5	11	2.1	18
FAD06	6	5.86	6.6	13.2	2.5	21
FAD065	6.5	7.55	7.2	14.4	2.7	23
FAD08	8	13.7	8.8	17.6	3.3	28
FAD09	9	19.8	9.9	19.8	3.7	32
FAD10	10	26.4	10.9	21.8	4.1	35
FAD11	11	35.8	12.1	24.2	4.5	39
FAD12	12	45.8	13.2	26.4	4.9	42
FAD13	13	59.7	14.2	28.4	5.4	46
FAD14	14	73.5	15.3	30.6	5.8	49
FAD16	16	111	17.5	35	6.7	56
FAD18	18	156	19.6	39.2	7.6	63
FAD20	20	217	21.7	43.4	8.4	70
FAD22	22	292	24.3	48.6	9.2	77
FAD24	24	376	26.4	52.8	10	84
FAD26	26	481	28.5	57	10.9	91
FAD28	28	603	31	62	11.7	98
FAD30	30	739	33.1	66.2	12.5	105

## GENERAL PURPOSE WIRE ROPES

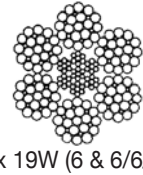
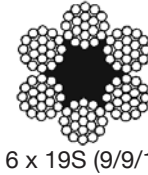
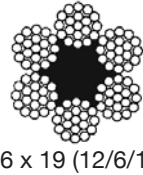
## General Purpose and Marine Galvanised



## Round Strand 6 x 7



## Round Strand 6 x 19.9/9/1. 6 &amp; 6/6/1.12/6/1



Nominal Dia. Tolerance +4%** -1% mm	Average Mass		Min. Breaking Force at 1570MPa	
	Fibre Core kg/100m	Wire Rope Core* kg/100m	Fibre Core kN	Wire Rope Core* kN
2	1.4	1.5	2.1	2.3
3	3.2	3.6	4.7	5.2
4	5.7	6.3	8.4	9.2
5	8.9	9.9	13.0	14.3
6	12.9	14.3	18.7	20.6
7	17.8	19.7	25.5	28.2
8	22.9	25.2	33.5	36.0
9	29.0	32.0	42.2	45.7
10	35.7	39.2	52.2	56.2
11	43.2	47.5	63.0	68.2
12	51.5	56.7	75.0	81.0
13	60.4	66.4	88.1	95.2
14	70.1	77.1	102.0	110.0
16	91.5	101.0	134.0	144.0
18	116.0	128.0	169.0	183.0
20	143.0	157.0	209.0	225.0
22	173.0	190.0	252.0	273.0
24	206.0	227.0	300.0	324.0
26	242.0	266.0	353.0	381.0
28	280.0	308.0	409.0	442.0
32	366.0	403.0	534.0	577.0

Nominal Dia. Tolerance +4%** -1% mm	Average Mass		Min. Breaking Force at 1570MPa	
	Fibre Core kg/100m	Wire Rope Core* kg/100m	Fibre Core kN	Wire Rope Core* kN
3.5	4.2	4.6	5.6	6.4
4	5.5	6.1	7.7	8.5
5	8.6	9.5	12.0	13.2
6	12.4	13.7	17.6	19.3
7	16.9	18.7	23.4	25.8
8	22.1	24.4	30.9	33.3
9	28.0	30.8	39.1	42.2
10	34.6	38.1	48.2	52.1
11	41.9	46.1	58.4	63.1
12	49.8	54.8	69.5	75.0
13	58.5	64.3	81.5	88.1
14	67.8	74.6	94.6	102.0
16	88.6	97.4	124.0	133.0
18	112.0	123.0	156.0	169.0
20	138.0	152.0	193.0	208.0
22	167.0	184.0	234.0	252.0
24	199.0	219.0	278.0	300.0

\* Includes WSC up to 7mm.

\*\* Dia. tolerance +6%, -1% for ropes up to 7mm.

\* Includes WSC up to 7mm.

\*\* Dia. tolerance +6%, -1% for ropes up to 7mm.

## Round Strand 6 x 24 Fibre Core

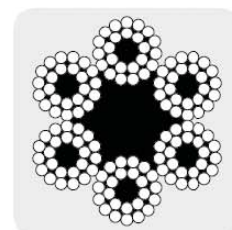


Nominal Dia. Tolerance +6% -1% mm	Average Mass kg/100m	Min. Breaking Force at 1570MPa kN
5	7.9	11.0
6	11.4	15.8
7	15.6	21.5
8	20.4	28.2
9	25.8	35.6
10	31.8	44.0
11	38.5	53.2
12	45.8	63.3
13	53.8	74.3
14	62.4	86.2
16	81.5	113.0
18	103.0	143.0
20	127.0	176.0
22	154.0	213.0
24	183.0	253.0
26	215.0	297.0
28	250.0	345.0
32	326.0	450.0





## SLING AND LASHING WIRE ROPE



6×24+7FC

DIA (mm)	Minimum Breaking Load(Metric Ton)			Approx Weight Kg/m
	150Kg/mm <sup>2</sup> (1470N/mm <sup>2</sup> )	165Kg/mm <sup>2</sup> (1620N/mm <sup>2</sup> )	180Kg/mm <sup>2</sup> (1770N/mm <sup>2</sup> )	
8.0	2.98	3.21	3.50	0.212
9.0	3.77	4.06	4.43	0.269
9.5	4.20	4.53	4.94	0.300
10.0	4.65	5.02	5.47	0.332
11.2	5.83	6.30	6.87	0.416
12.0	6.70	7.23	7.88	0.478
12.6	7.38	7.97	8.69	0.527
13.0	7.86	8.48	9.25	0.561
14.0	9.12	9.84	10.7	0.651
14.3	9.51	10.3	11.2	0.679
15.0	10.5	11.3	12.3	0.747
16.0	11.9	12.8	14.0	0.850
17.5	14.2	15.4	16.8	1.017
18.0	15.1	16.3	17.7	1.076
19.0	16.8	18.1	19.8	1.199
20.0	18.6	20.1	21.9	1.328
21.0	20.5	22.1	24.1	1.464
22.4	23.3	25.2	27.5	1.666
24.0	26.8	28.9	31.5	1.912
25.0	29.1	31.4	34.2	2.075
25.4	30.0	32.4	35.3	2.142
26.0	31.4	33.9	37.0	2.244
28.0	36.5	39.3	42.9	2.603

DIA (mm)	Minimum Breaking Load(Metric Ton)			Approx Weight Kg/m
	150Kg/mm <sup>2</sup> (1470N/mm <sup>2</sup> )	165Kg/mm <sup>2</sup> (1620N/mm <sup>2</sup> )	180Kg/mm <sup>2</sup> (1770N/mm <sup>2</sup> )	
28.6	38.0	41.0	44.8	2.716
30.0	41.9	45.2	49.3	2.988
32.0	47.6	51.4	56.1	3.400
34.0	53.8	58.0	63.3	3.838
35.0	57.0	61.5	67.1	4.067
36.0	60.3	65.0	71.0	4.303
38.0	67.2	72.5	79.1	4.794
40.0	74.4	80.3	87.6	5.312
41.5	80.1	86.4	94.3	5.718
42.0	82.0	88.5	96.6	5.856
44.0	90.0	97.2	106	6.428
44.5	92.1	99.4	108	6.574
46.0	98.4	106	116	7.025
48.0	107	116	126	7.649
50.0	116	125	137	8.300
50.8	120	130	141	8.568
52.0	126	136	148	8.977
54.0	136	146	160	9.681
56.0	146	157	172	10.41
57.2	152	164	179	10.86
58.0	156	169	184	11.17
60.0	167	181	197	11.95



## POWERFLEX WIRE ROPE

By flattening the surface of outer wires of each strand, this plane contacting lay construction has flat touch area of outer wires compared to round strand type rope. This flat touch area enables longer life of each wire before breaking. While designing this construction, we emphasized the optimal balance between high tensile strength, fatigue resistance, abrasion resistance, and structural stability. Powerflex rope is widely used in various applications such as crane, fishing and mining.

### Powerflex 37, 37L

- Very strong rotation resistance
- High structural stability
- Very high breaking load
- Strong against abrasion
- Excellent resistance to deformation
- Extended life of winch drum and sheave
- Suitable rope for high lifting tower crane
- Excellent life time



Nominal Data		Minimum Breaking Load(Metric Ton)			Approx Weight Kg/m
mm	Inch	180Kg/mm <sup>2</sup> (1770N/mm <sup>2</sup> )	200Kg/mm <sup>2</sup> (1960N/mm <sup>2</sup> )	220Kg/mm <sup>2</sup> (2160N/mm <sup>2</sup> )	
14		16.5	18.2	19.5	1.00
14.3	9/16"	17.2	19.0	20.4	1.05
15		19.0	20.9	22.4	1.15
16	5/8"	21.6	23.8	25.5	1.31
17.5	11/16"	25.8	28.5	30.5	1.57
18		27.3	30.2	32.3	1.66
19	3/4"	30.4	33.6	36.0	1.85
20		33.7	37.2	39.9	2.05
21	13/16"	37.2	41.0	44.0	2.26
22		40.8	45.0	48.3	2.48
22.2	7/8"	41.6	46.0	49.2	2.53
24	15/16"	48.5	53.6	57.4	2.95

Nominal Data		Minimum Breaking Load(Metric Ton)			Approx Weight Kg/m
mm	Inch	180Kg/mm <sup>2</sup> (1770N/mm <sup>2</sup> )	200Kg/mm <sup>2</sup> (1960N/mm <sup>2</sup> )	220Kg/mm <sup>2</sup> (2160N/mm <sup>2</sup> )	
25		52.7	58.2	62.3	3.20
25.4	1"	54.4	60.0	64.3	3.30
26	1-1/16"	57.0	62.9	67.4	3.48
28		66.1	73.0	78.2	4.02
28.6	1-1/8"	68.9	76.1	81.5	4.19
30	1-3/16"	75.9	83.8	89.7	4.61
31.8	1-1/4"	85.2	94.1	100.8	5.18
32		86.3	95.3	102.1	5.25
34		97.4	107.6	115.2	5.92
35	1-3/8"	103.3	114.0	122.1	6.28
36		109.2	120.6	129.2	6.64
38		121.7	134.4	144.0	7.40

■ Available upon request

### Powerflex 35, 35L

- Very strong rotation resistance
- High structural stability
- Very high breaking load
- Strong against abrasion
- Excellent resistance to deformation
- Extended life of winch drum and sheave
- Suitable rope for high lifting tower crane
- Excellent life time



Nominal Data		Minimum Breaking Load(Metric Ton)		Approx Weight Kg/m
mm	Inch	200Kg/mm <sup>2</sup> (1960N/mm <sup>2</sup> )	220Kg/mm <sup>2</sup> (2160N/mm <sup>2</sup> )	
14		18.3	19.6	1.00
14.3	9/16"	19.1	20.4	1.04
15		21.0	22.5	1.15
16	5/8"	23.9	25.6	1.31
17.5	11/16"	28.6	30.6	1.56
18		30.3	32.4	1.65
19	3/4"	33.7	36.1	1.84
20		37.3	40.0	2.04
21	13/16"	41.2	44.1	2.25
22		45.2	48.4	2.47
22.2	7/8"	46.1	49.4	2.52
24	15/16"	53.8	57.6	2.94

Nominal Data		Minimum Breaking Load(Metric Ton)		Approx Weight Kg/m
mm	Inch	200Kg/mm <sup>2</sup> (1960N/mm <sup>2</sup> )	220Kg/mm <sup>2</sup> (2160N/mm <sup>2</sup> )	
25		58.4	62.5	3.19
25.4	1"	60.2	64.5	3.29
26	1-1/16"	63.1	67.6	3.45
28		73.2	78.4	4.00
28.6	1-1/8"	76.4	81.8	4.17
30	1-3/16"	84.0	90.0	4.59
31.8	1-1/4"	94.4	101.1	5.16
32		95.6	102.4	5.22
34		107.9	115.6	5.90
35	1-3/8"	114.4	122.5	6.25
36		121.0	129.8	6.61
38		134.8	144.4	7.37

■ Available upon request

## POWERFLEX WIRE ROPE



## Powerflex 19

- Rotation resistance
- Good resistance to deformation
- High structural stability
- Strong against abrasion
- Extended life of winch drum and sheave
- High breaking load
- Excellent life time



Nominal Data		Minimum Breaking Load(Metric Ton)				Approx Weight Kg/m
mm	Inch	165Kg/mm <sup>2</sup> (1620N/mm <sup>2</sup> )	180Kg/mm <sup>2</sup> (1770N/mm <sup>2</sup> )	200Kg/mm <sup>2</sup> (1960N/mm <sup>2</sup> )	220Kg/mm <sup>2</sup> (2160N/mm <sup>2</sup> )	
9.53	3/8"	6.7	7.3	7.9	8.8	0.44
10		7.4	8.0	8.7	9.7	0.48
11.2	7/16"	9.3	10.1	10.9	12.1	0.60
12		10.6	11.6	12.6	13.9	0.69
12.7	1/2"	11.9	13.0	14.1	15.6	0.78
13		12.5	13.6	14.7	16.4	0.81
14		14.5	15.8	17.1	19.0	0.94
14.3	9/16"	15.1	16.5	17.8	19.8	0.98
15		16.6	18.1	19.6	21.8	1.08
16	5/8"	18.9	20.6	22.3	24.8	1.23
17.5	11/16"	22.6	24.6	26.7	29.6	1.47
18		23.9	26.1	28.3	31.4	1.56
19	3/4"	26.6	29.1	31.5	34.9	1.74

Nominal Data		Minimum Breaking Load(Metric Ton)				Approx Weight Kg/m
mm	Inch	165Kg/mm <sup>2</sup> (1620N/mm <sup>2</sup> )	180Kg/mm <sup>2</sup> (1770N/mm <sup>2</sup> )	200Kg/mm <sup>2</sup> (1960N/mm <sup>2</sup> )	220Kg/mm <sup>2</sup> (2160N/mm <sup>2</sup> )	
20		29.5	32.2	34.9	38.7	1.93
21	13/16"	32.5	35.5	38.5	42.7	2.12
22		35.7	38.9	42.2	46.8	2.33
22.2	7/8"	36.4	39.7	43.1	47.8	2.38
24	15/16"	42.5	46.4	50.2	55.8	2.77
25		46.1	50.3	54.5	60.5	3.01
25.4	1"	47.6	51.9	56.3	62.4	3.11
26	1-1/16"	49.9	54.4	58.9	65.4	3.25
28		57.8	63.1	68.4	-	3.77
28.6	1-1/8"	60.3	65.6	71.3	-	3.94
30	1-3/16"	66.4	72.4	78.5	-	4.33
31.8	1-1/4"	74.6	81.4	88.2	-	4.87
32		75.5	82.4	89.3	-	4.93

## Powerflex M19

- Rotation resistance
- High breaking load
- Good resistance to deformation
- Extended life of winch drum and sheave
- Excellent life time
- High structural stability
- Strong against abrasion



Nominal Data		Minimum Breaking Load(Metric Ton)				Approx Weight Kg/m
mm	Inch	165Kg/mm <sup>2</sup> (1620N/mm <sup>2</sup> )	180Kg/mm <sup>2</sup> (1770N/mm <sup>2</sup> )	200Kg/mm <sup>2</sup> (1960N/mm <sup>2</sup> )	220Kg/mm <sup>2</sup> (2160N/mm <sup>2</sup> )	
19	3/4"	26.0	28.4	31.0	34.6	1.74
20		28.8	31.4	34.3	38.3	1.94
21	13/16"	31.8	34.6	37.9	42.3	2.13
22		34.9	38.0	41.6	46.4	2.34
22.2	7/8"	35.6	38.8	42.4	47.3	2.38
24	15/16"	41.5	45.3	49.5	55.2	2.78
25		45.0	49.1	53.7	59.9	3.02
25.4	1"	46.5	50.7	55.4	61.8	3.12
26	1-1/16"	48.7	53.1	58.0	64.8	3.27
28		56.5	61.6	67.3	-	3.79
28.6	1-1/8"	58.9	64.3	70.2	-	3.95
30	1-3/16"	64.8	70.7	77.3	-	4.35
31.8	1-1/4"	72.9	79.4	86.8	-	4.89
32		73.8	80.4	87.9	-	4.95

## POWERFLEX WIRE ROPE

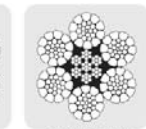
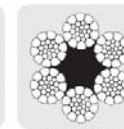
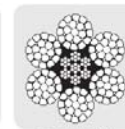


## Powerflex 6

- Excellent abrasion resistance
- High breaking load
- High corrosion resistance
- High resistance to deformation
- Longer drum and sheave life
- Excellent life time

## 6×19 Class Rope

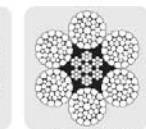
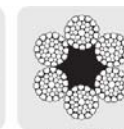
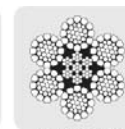
Nominal Data		Minimum Breaking Load(Metric Ton)					
		FC Core		Approx Weight Kg/m	Steel Core		
		180Kg/mm² (1770N/mm²)	200Kg/mm² (1960N/mm²)		180Kg/mm² (1770N/mm²)	200Kg/mm² (1960N/mm²)	220Kg/mm² (2160N/mm²)
11.2	7/16"	8.7	9.1	0.51	9.8	10.6	-
12		10.0	10.5	0.59	11.3	12.1	-
12.7	1/2"	11.2	11.7	0.66	12.6	13.6	-
13		11.7	12.3	0.69	13.2	14.3	-
14		13.6	14.2	0.80	15.3	16.5	17.3
14.3	9/16"	14.2	14.9	0.83	16.0	17.2	18.0
15		15.6	16.4	0.92	17.6	19.0	19.8
16	5/8"	17.8	18.6	1.04	20.0	21.6	22.6
17.5	11/16"	21.2	22.3	1.25	23.9	25.8	27.0
18		22.5	23.6	1.32	25.3	27.3	28.6
19	3/4"	25.0	26.2	1.47	28.2	30.4	31.8
20		27.7	29.1	1.63	31.3	33.7	35.3
21	13/16"	30.6	32.1	1.80	34.5	37.2	38.9
22		33.6	35.2	1.98	37.8	40.8	42.7
22.2	7/8"	34.3	35.9	2.02	38.6	41.7	43.5
24	15/16"	39.9	41.9	2.35	45.0	48.6	50.8
25		43.3	45.4	2.55	48.8	52.7	55.1
25.4	1"	44.7	46.9	2.63	50.4	54.4	56.9
26	1-1/16"	46.9	49.1	2.76	52.8	57.0	59.6



Nominal Data		Minimum Breaking Load(Metric Ton)					
		FC Core		Approx Weight Kg/m	Steel Core		
		180Kg/mm² (1770N/mm²)	200Kg/mm² (1960N/mm²)		180Kg/mm² (1770N/mm²)	200Kg/mm² (1960N/mm²)	220Kg/mm² (2160N/mm²)
28		54.4	57.0	3.20	61.3	66.1	69.1
28.6	1-1/8"	56.7	59.5	3.34	63.9	69.0	72.1
30	1-3/16"	62.4	65.4	3.67	70.3	75.9	79.3
31.5	1-1/4"	68.8	72.1	4.05	77.5	83.7	87.5
32		71.0	74.4	4.18	80.0	86.4	90.3
34		80.2	84.0	4.72	90.3	97.5	101.9
35	1-3/8"	85.0	89.0	5.00	95.7	103.3	108.0
36		89.9	94.2	5.29	101.3	109.3	114.2
38		100.1	105.0	5.89	112.8	121.8	127.3
38.1	1-1/2"	100.7	105.5	5.92	113.4	122.4	127.9
40		111.0	116.3	6.53	125.0	134.9	-
42		122.3	128.2	7.20	137.8	148.8	-
44		134.3	140.7	7.90	151.3	163.3	-
44.5	1-3/4"	137.0	143.6	8.06	154.4	166.6	-
46		146.8	153.8	8.64	165.3	178.5	-
48		159.8	-	9.40	180.0	-	-
50		173.4	-	10.20	195.3	-	-
50.8	2"	179.0	-	10.53	201.3	-	-
52		187.5	-	11.04	211.3	-	-

## 6×37 Class Rope

Nominal Data		Minimum Breaking Load(Metric Ton)					
		FC Core		Approx Weight Kg/m	Steel Core		
		180Kg/mm² (1770N/mm²)	200Kg/mm² (1960N/mm²)		180Kg/mm² (1770N/mm²)	200Kg/mm² (1960N/mm²)	220Kg/mm² (2160N/mm²)
11.2	7/16"	8.9	9.3	0.53	9.9	10.7	-
12		10.2	10.7	0.60	11.4	12.3	-
12.7	1/2"	11.4	12.0	0.68	12.7	13.8	-
13		12.0	12.5	0.71	13.4	14.4	-
14		13.9	14.6	0.82	15.5	16.7	17.5
14.3	9/16"	14.5	15.2	0.86	16.2	17.4	18.2
15		16.0	16.7	0.94	17.8	19.2	20.1
16	5/8"	18.2	19.0	1.07	20.2	21.8	22.8
17.5	11/16"	21.7	22.7	1.28	24.2	26.1	27.3
18		23.0	24.1	1.36	25.6	27.6	28.9
19	3/4"	25.6	26.8	1.51	28.5	30.8	32.2
20		28.4	29.7	1.67	31.6	34.1	35.7
21	13/16"	31.3	32.7	1.85	34.8	37.6	39.3
22		34.3	35.9	2.03	38.2	41.3	43.1
22.2	7/8"	35.0	36.7	2.07	39.0	42.1	44.0
24	15/16"	40.9	42.8	2.41	45.5	49.1	51.3
25		44.3	46.4	2.62	49.4	53.3	55.7
25.4	1"	45.8	47.9	2.70	51.0	55.0	57.5
26	1-1/16"	48.0	50.2	2.83	53.4	57.7	60.3



Nominal Data		Minimum Breaking Load(Metric Ton)					
		FC Core		Approx Weight Kg/m	Steel Core		
		180Kg/mm² (1770N/mm²)	200Kg/mm² (1960N/mm²)		180Kg/mm² (1770N/mm²)	200Kg/mm² (1960N/mm²)	220Kg/mm² (2160N/mm²)
28		55.6	58.2	3.28	61.9	66.9	69.9
28.6	1-1/8"	58.0	60.7	3.42	64.6	69.8	72.9
30	1-3/16"	63.9	66.8	3.77	71.1	76.8	80.2
31.5	1-1/4"	70.4	73.7	4.15	78.4	84.6	88.4
32		72.7	76.0	4.29	80.9	87.3	91.3
34		82.0	85.8	4.84	91.3	98.6	103.0
35	1-3/8"	86.9	90.9	5.13	96.8	104.5	109.2
36		92.0	96.2	5.42	102.4	110.5	115.5
38		102.5	107.2	6.04	114.1	123.2	128.7
38.1	1-1/2"	103.0	107.8	6.08	114.7	123.8	129.4
40		113.5	118.8	6.70	126.4	136.5	-
42		125.2	131.0	7.38	139.4	150.5	-
44		137.4	143.7	8.10	152.9	165.1	-
44.5	1-3/4"	140.2	146.7	8.27	156.1	168.5	-
46		150.1	157.1	8.86	167.2	180.5	-
48		163.5	-	9.64	182.0	-	-
50		177.4	-	10.46	197.5	-	-
50.8	2"	183.1	-	10.80	203.9	-	-
52		191.8	-	11.32	213.6	-	-



## POWERFLEX WIRE ROPE

D | S | R

## Powerflex 8

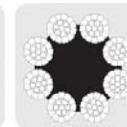
- High structural stability
- Very high breaking load
- Excellent life time
- Strong abrasion resistance
- Excellent deformation resistance
- Extended life of winch drum and sheave
- Suitable rope for special applications

## 8×19 Class Rope

Nominal Data		Minimum Breaking Load(Metric Ton)					
		FC Core		Approx Weight Kg/m	Steel Core		
mm	Inch	180Kg/mm <sup>2</sup> (1770N/mm <sup>2</sup> )	200Kg/mm <sup>2</sup> (1960N/mm <sup>2</sup> )		180Kg/mm <sup>2</sup> (1770N/mm <sup>2</sup> )	200Kg/mm <sup>2</sup> (1960N/mm <sup>2</sup> )	220Kg/mm <sup>2</sup> (2160N/mm <sup>2</sup> )
14		12.0	13.2	0.70	15.8	17.4	18.6
14.3	9/16"	12.5	13.8	0.73	16.5	18.2	19.4
15		13.7	15.2	0.80	18.1	20.0	21.3
16	5/8"	15.6	17.2	0.91	20.6	22.7	24.2
17.5	11/16"	18.7	20.6	1.09	24.7	27.2	29.0
18		19.8	21.8	1.15	26.1	28.8	30.7
19	3/4"	22.0	24.3	1.28	29.1	32.0	34.2
20		24.4	26.9	1.42	32.2	35.5	37.9
22		29.5	32.6	1.72	39.0	43.0	45.8
24		35.1	38.8	2.05	46.4	51.1	54.5
25		38.1	42.1	2.22	50.4	55.5	59.2
26		41.2	45.5	2.40	54.5	60.0	64.0
28		47.8	52.8	2.79	63.2	69.6	74.2
28.6	1-1/8"	49.9	55.1	2.91	65.9	72.6	77.5



8 × Fi(25)+IWRC



8 × Fi(25)+FC



8 × WS(26)+IWRC



8 × WS(26)+FC

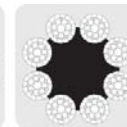
Nominal Data		Minimum Breaking Load(Metric Ton)					
		FC Core		Approx Weight Kg/m	Steel Core		
mm	Inch	180Kg/mm <sup>2</sup> (1770N/mm <sup>2</sup> )	200Kg/mm <sup>2</sup> (1960N/mm <sup>2</sup> )		180Kg/mm <sup>2</sup> (1770N/mm <sup>2</sup> )	200Kg/mm <sup>2</sup> (1960N/mm <sup>2</sup> )	220Kg/mm <sup>2</sup> (2160N/mm <sup>2</sup> )
30	1-3/16"	54.9	60.6	3.20	72.6	79.9	85.2
32		62.5	69.0	3.64	82.5	90.9	97.0
34		70.5	77.9	4.11	93.2	102.6	109.5
35		74.8	82.5	4.36	98.8	108.8	116.0
36		79.1	87.3	4.61	104.5	115.1	122.7
38		88.1	97.2	5.13	116.4	128.2	136.7
38.1	1-1/2"	88.6	97.8	5.16	117.0	128.9	137.5
40		97.6	107.8	5.69	129.0	142.0	151.5
42		107.6	-	6.27	142.2	156.6	-
44		118.1	-	6.88	156.1	171.9	-
45		123.6	-	7.20	163.2	179.8	-
46		129.1	-	7.52	170.6	187.8	-
48		140.6	-	8.19	185.7	204.5	-

## 8×37 Class Rope

Nominal Data		Minimum Breaking Load(Metric Ton)					
		FC Core		Approx Weight Kg/m	Steel Core		
mm	Inch	180Kg/mm <sup>2</sup> (1770N/mm <sup>2</sup> )	200Kg/mm <sup>2</sup> (1960N/mm <sup>2</sup> )		180Kg/mm <sup>2</sup> (1770N/mm <sup>2</sup> )	200Kg/mm <sup>2</sup> (1960N/mm <sup>2</sup> )	220Kg/mm <sup>2</sup> (2160N/mm <sup>2</sup> )
14		12.1	13.3	0.71	16.0	17.6	18.7
14.3	9/16"	12.6	13.9	0.74	16.6	18.3	19.6
15		13.9	15.3	0.81	18.3	20.2	21.5
16	5/8"	15.8	17.4	0.93	20.8	23.0	24.5
17.5	11/16"	18.9	20.8	1.11	24.9	27.5	29.3
18		20.0	22.1	1.17	26.4	29.1	31.0
19	3/4"	22.2	24.6	1.31	29.4	32.4	34.5
20		24.7	27.2	1.45	32.6	35.9	38.3
22		29.8	32.9	1.75	39.4	43.4	46.3
24		35.5	39.2	2.08	46.9	51.6	55.1
25		38.5	42.5	2.26	50.9	56.0	59.8
26	1-1/16"	41.7	46.0	2.45	55.0	60.6	64.7
28		48.3	53.4	2.84	63.8	70.3	75.0
28.6	1-1/8"	50.4	55.7	2.96	66.6	73.3	78.2



8 × Fi(29)+IWRC



8 × Fi(29)+FC



8 × WS(38)+IWRC



8 × WS(38)+FC

Nominal Data		Minimum Breaking Load(Metric Ton)					
		FC Core		Approx Weight Kg/m	Steel Core		
mm	Inch	180Kg/mm <sup>2</sup> (1770N/mm <sup>2</sup> )	200Kg/mm <sup>2</sup> (1960N/mm <sup>2</sup> )		180Kg/mm <sup>2</sup> (1770N/mm <sup>2</sup> )	200Kg/mm <sup>2</sup> (1960N/mm <sup>2</sup> )	220Kg/mm <sup>2</sup> (2160N/mm <sup>2</sup> )
30	1-3/16"	55.5	61.3	3.26	73.3	80.7	86.1
32		63.1	69.7	3.71	83.4	91.8	97.9
34		71.2	78.7	4.18	94.1	103.7	110.6
35		75.5	83.4	4.43	99.7	108.8	117.2
36		79.9	88.2	4.69	105.5	116.2	124.0
38		89.0	98.3	5.23	117.6	129.5	138.1
38.1	1-1/2"	89.5	98.8	5.25	118.2	130.2	138.8
40		98.6	108.9	5.79	130.3	143.5	153.0
42		108.7	-	6.38	143.6	158.2	-
44		119.3	-	7.01	157.6	173.6	-
45		124.8	-	7.33	164.9	181.6	-
46		130.4	-	7.66	172.3	189.7	-
48		142.0	-	8.34	187.6	206.6	-

## POWERTEC WIRE ROPE



Powertec for cranes has been developed by compacting the outer strands with Flextec. This plastic injection between outer and inner strands results in a smaller cross section than normal wire rope. This gives Powertec superior strength against abrasion and fatigue because the smaller space within the wire rope prevents dirt and humidity penetrating. Thus the lifespan is about two times longer than general wire rope and it also has superior flexibility making it work perfectly and safely on every type of crane.

## Powertec 35, 35L

- Very strong rotation resistance
- High structural stability
- Very high breaking load
- High flexibility
- Prevents abrasion & break of internal wires
- Excellent resistance to deformation
- Extremely reduces internal stress
- Extended life of winch drum and sheave
- Suitable rope for high lifting tower crane
- Excellent life time



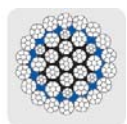
Nominal Data		Minimum Breaking Load(Metric Ton)		Approx Weight Kg/m
mm	Inch	200Kg/mm <sup>2</sup> (1960N/mm <sup>2</sup> )	220Kg/mm <sup>2</sup> (2160N/mm <sup>2</sup> )	
14		18.6	19.9	1.02
14.3	9/16"	19.4	20.8	1.06
15		21.3	22.8	1.17
16	5/8"	24.3	26.0	1.33
17.5	11/16"	29.0	31.1	1.59
18		30.7	32.9	1.68
19	3/4"	34.2	36.6	1.87
20		37.9	40.6	2.07
21	13/16"	41.8	44.8	2.28
22		45.9	49.1	2.51
22.2	7/8"	46.8	50.1	2.56
24	15/16"	54.6	58.5	2.98

Nominal Data		Minimum Breaking Load(Metric Ton)		Approx Weight Kg/m
mm	Inch	200Kg/mm <sup>2</sup> (1960N/mm <sup>2</sup> )	220Kg/mm <sup>2</sup> (2160N/mm <sup>2</sup> )	
25		59.2	63.4	3.24
25.4	1"	61.1	65.5	3.34
26	1-1/16"	64.1	68.6	3.50
28		74.3	79.6	4.06
28.6	1-1/8"	77.5	83.0	4.24
30	1-3/16"	85.3	91.4	4.66
31.8	1-1/4"	95.8	102.6	5.24
32		97.0	103.9	5.30
34		109.6	117.3	5.99
35	1-3/8"	116.1	124.3	6.34
36		122.8	131.5	6.71
38		136.8	146.6	7.48

■ Available upon request

## Powertec 37, 37L

- Very strong rotation resistance
- High structural stability
- Very high breaking load
- High flexibility
- Prevents abrasion & break of internal wires
- Excellent resistance to deformation
- Extremely reduces internal stress
- Extended life of winch drum and sheave
- Suitable rope for high lifting tower crane
- Excellent life time



Nominal Data		Minimum Breaking Load(Metric Ton)		Approx Weight Kg/m
mm	Inch	200Kg/mm <sup>2</sup> (1960N/mm <sup>2</sup> )	220Kg/mm <sup>2</sup> (2160N/mm <sup>2</sup> )	
14		18.5	19.8	1.02
14.3	9/16"	19.3	20.7	1.06
15		21.2	22.7	1.17
16	5/8"	24.2	25.9	1.33
17.5	11/16"	28.9	30.9	1.59
18		30.6	32.7	1.69
19	3/4"	34.1	36.5	1.88
20		37.8	40.4	2.08
21	13/16"	41.6	44.5	2.30
22		45.7	48.9	2.52
22.2	7/8"	46.6	49.9	2.57
24	15/16"	54.4	58.2	3.00

Nominal Data		Minimum Breaking Load(Metric Ton)		Approx Weight Kg/m
mm	Inch	200Kg/mm <sup>2</sup> (1960N/mm <sup>2</sup> )	220Kg/mm <sup>2</sup> (2160N/mm <sup>2</sup> )	
25		59.0	63.1	3.25
25.4	1"	60.9	65.2	3.36
26	1-1/16"	63.8	68.3	3.52
28		74.0	79.2	4.08
28.6	1-1/8"	77.2	82.6	4.26
30	1-3/16"	84.9	90.9	4.68
31.8	1-1/4"	95.4	102.1	5.26
32		96.7	103.4	5.33
34		109.1	116.7	6.02
35	1-3/8"	115.6	123.7	6.38
36		122.3	130.9	6.74
38		136.3	145.8	7.51

■ Available upon request

## POWERTEC WIRE ROPE



## Powertec 8

- High structural stability
- Very high breaking load
- Very high flexibility
- Excellent life time
- Prevents abrasion & break of internal wires
- Excellent resistance to deformation
- Extremely reduces internal stress
- Extended life of winch drum and sheave
- Suitable rope for special crane



Nominal Data		Minimum Breaking Load(Metric Ton)			Approx Weight Kg/m
mm	Inch	180Kg/mm <sup>2</sup> (1770N/mm <sup>2</sup> )	200Kg/mm <sup>2</sup> (1960N/mm <sup>2</sup> )	220Kg/mm <sup>2</sup> (2160N/mm <sup>2</sup> )	
22		39.4	43.5	46.4	2.21
24		46.9	51.8	55.2	2.63
25		50.9	56.2	59.9	2.85
26		55.0	60.7	64.8	3.09
28		63.8	70.4	75.2	3.58
28.6	1-1/8"	66.6	73.5	78.5	3.74
30	1-3/16"	73.2	80.9	86.3	4.11
32		83.3	92.0	98.2	4.68
34		94.1	103.9	110.9	5.28
35		99.7	110.1	117.5	5.59

Nominal Data		Minimum Breaking Load(Metric Ton)			Approx Weight Kg/m
mm	Inch	180Kg/mm <sup>2</sup> (1770N/mm <sup>2</sup> )	200Kg/mm <sup>2</sup> (1960N/mm <sup>2</sup> )	220Kg/mm <sup>2</sup> (2160N/mm <sup>2</sup> )	
36		105.5	116.4	124.3	5.92
38		117.5	129.7	138.5	6.59
38.1	1-1/2"	118.1	130.4	139.2	6.63
40		130.2	143.8	153.5	7.31
42		143.6	158.5	-	8.06
44		157.5	173.9	-	8.84
45		164.8	181.9	-	9.25
46		172.2	190.1	-	9.76
48		187.5	207.0	-	10.63

Available upon request

## Powertec 6

- High fatigue resistance
- Very high breaking load
- High structural stability
- Prevents abrasion & break of internal wires
- Excellent resistance to deformation
- Extended life of winch drum and sheave
- Suitable rope for high lifting tower crane
- Excellent life time



Nominal Data		Minimum Breaking Load(Metric Ton)			Approx Weight Kg/m
mm	Inch	180Kg/mm <sup>2</sup> (1770N/mm <sup>2</sup> )	200Kg/mm <sup>2</sup> (1960N/mm <sup>2</sup> )	220Kg/mm <sup>2</sup> (2160N/mm <sup>2</sup> )	
18		26.0	28.1	29.4	1.54
19	3/4"	28.9	31.4	32.8	1.72
20		32.1	34.7	36.3	1.90
21	13/16"	35.3	38.3	40.0	2.10
22		38.8	42.0	43.9	2.30
22.2	7/8"	39.6	42.9	44.8	2.35
24	15/16"	46.2	50.0	52.3	2.74
25		50.1	54.3	56.7	2.97
25.4	1"	51.7	56.0	58.6	3.07
26	1-1/16"	54.2	58.7	61.4	3.21
28		62.8	68.1	71.2	3.73
28.6	1-1/8"	65.6	71.1	74.3	3.89
30	1-3/16"	72.1	78.2	81.7	4.28
31.8	1-1/4"	81.0	87.8	91.8	4.81
32		82.1	89.0	93.0	4.87

Nominal Data		Minimum Breaking Load(Metric Ton)			Approx Weight Kg/m
mm	Inch	180Kg/mm <sup>2</sup> (1770N/mm <sup>2</sup> )	200Kg/mm <sup>2</sup> (1960N/mm <sup>2</sup> )	220Kg/mm <sup>2</sup> (2160N/mm <sup>2</sup> )	
34		92.6	100.4	104.9	5.50
35	1-3/8"	98.2	106.4	111.2	5.82
36		103.9	112.6	117.7	6.16
38		115.7	125.4	131.1	6.87
38.1	1-1/2"	116.3	126.1	131.8	6.90
40		128.2	139.0	-	7.61
42		141.4	153.2	-	8.39
44		155.1	168.2	-	9.21
44.5	1-3/4"	158.3	171.6	-	9.39
46		169.6	183.8	-	10.06
48		184.6	-	-	10.96
50		200.3	-	-	11.89
50.8	2"	206.8	-	-	12.27
52		216.7	-	-	12.86

## POWERFIL WIRE ROPE



Powerfil rope is a specialized rope developed for cranes that has compacted outer strands. A special fiber yarn fills the space between the compacted outer strands and the IWRC. The life time of these ropes is extended through reducing pressure between outer and inner parts of the wire rope while keeping the inner parts free from rust and dirt. The special fiber yarn increases corrosion resistance and improves durability by 30% over normal wire ropes by providing lubrication to the IWRC.

## Powerfil 8

Nominal Data		Minimum Breaking Load(Metric Ton)			Approx Weight Kg/m
mm	Inch	180Kg/mm <sup>2</sup> (1770N/mm <sup>2</sup> )	200Kg/mm <sup>2</sup> (1960N/mm <sup>2</sup> )	220Kg/mm <sup>2</sup> (2160N/mm <sup>2</sup> )	
22		39.2	43.2	46.1	2.17
24		46.7	51.4	54.8	2.58
25		50.6	55.8	59.5	2.80
26		54.8	60.3	64.3	3.03
28		63.5	69.9	74.6	3.51
28.6	1-1/8"	66.3	73.0	77.8	3.66
30	1-3/16"	72.9	80.3	85.7	4.03
32		83.0	91.4	97.5	4.58
34		93.7	103.1	110.0	5.18
35		99.2	109.3	116.6	5.48



Nominal Data		Minimum Breaking Load(Metric Ton)			Approx Weight Kg/m
mm	Inch	180Kg/mm <sup>2</sup> (1770N/mm <sup>2</sup> )	200Kg/mm <sup>2</sup> (1960N/mm <sup>2</sup> )	220Kg/mm <sup>2</sup> (2160N/mm <sup>2</sup> )	
36		105.0	115.6	123.3	5.80
38		117.0	128.8	137.4	6.47
38.1	1-1/2"	117.6	129.5	138.1	6.50
40		129.6	142.8	152.3	7.16
42		142.9	157.4	-	7.90
44		156.8	172.7	-	8.67
45		164.1	180.7	-	9.07
46		171.4	188.8	-	9.57
48		186.7	205.6	-	10.42

Available upon request

## Powerfil 6

- High fatigue resistance
- Very high breaking load
- Excellent resistance to deformation
- Strong against corrosion & abrasion
- Extended life of winch drum and sheave
- Fully lubricated increasing internal wire rope protection
- Excellent life time



Nominal Data		Minimum Breaking Load(Metric Ton)			Approx Weight Kg/m
mm	Inch	180Kg/mm <sup>2</sup> (1770N/mm <sup>2</sup> )	200Kg/mm <sup>2</sup> (1960N/mm <sup>2</sup> )	220Kg/mm <sup>2</sup> (2160N/mm <sup>2</sup> )	
18		25.6	27.7	29.0	1.53
19	3/4"	28.5	30.9	32.3	1.71
20		31.6	34.2	35.8	1.89
21	13/16"	34.8	37.7	39.4	2.09
22		38.2	41.4	43.3	2.29
22.2	7/8"	39.0	42.3	44.2	2.34
24	15/16"	45.5	49.3	51.5	2.73
25		49.3	53.5	55.9	2.96
25.4	1"	50.9	55.2	57.7	3.05
26	1-1/16"	53.4	57.9	60.5	3.20
28		61.9	67.1	70.1	3.71
28.6	1-1/8"	64.6	70.0	73.2	3.87
30	1-3/16"	71.1	77.0	80.5	4.26
31.8	1-1/4"	79.8	86.5	90.4	4.79

Nominal Data		Minimum Breaking Load(Metric Ton)			Approx Weight Kg/m
mm	Inch	180Kg/mm <sup>2</sup> (1770N/mm <sup>2</sup> )	200Kg/mm <sup>2</sup> (1960N/mm <sup>2</sup> )	220Kg/mm <sup>2</sup> (2160N/mm <sup>2</sup> )	
32		80.8	87.6	91.6	4.85
34		91.3	98.9	103.4	5.47
35	1-3/8"	96.7	104.8	109.6	5.80
36		102.3	110.9	115.9	6.14
38.1		114.0	124.2	129.8	6.87
40	1-1/2"	126.3	136.9	-	7.58
42		139.3	151.0	-	8.35
44		152.9	165.7	-	9.17
44.5		156.0	169.1	-	9.35
46	1-3/4"	167.1	181.1	-	10.02
48		181.9	-	-	10.91
50		197.4	-	-	11.84
50.8		203.8	-	-	12.22
52	2"	213.5	-	-	12.80



## POWERLIFT NON-ROTATING WIRE ROPE



## Powerlift 35, 35L

- Very strong rotation - resistance
- High structural stability
- High breaking load
- Excellent resistance to deformation
- Suitable rope for high lifting tower crane
- Excellent life time



Nominal Data		Minimum Breaking Load(Metric Ton)			Approx Weight Kg/m
mm	Inch	180Kg/mm <sup>2</sup> (1770N/mm <sup>2</sup> )	200Kg/mm <sup>2</sup> (1960N/mm <sup>2</sup> )	220Kg/mm <sup>2</sup> (2160N/mm <sup>2</sup> )	
14		13.7	16.3	17.9	0.87
14.3	9/16"	14.3	17.0	18.5	0.91
15		15.7	18.7	20.3	1.00
16	5/8"	17.9	21.3	23.0	1.14
17.5	11/16"	21.4	25.5	27.6	1.36
18		22.6	26.9	29.5	1.44
19	3/4"	25.2	30.0	32.6	1.60
20		28.0	33.3	36.1	1.78
21	13/16"	30.8	36.7	39.8	1.96
22		33.8	40.3	43.7	2.15
22.2	7/8"	34.5	41.1	44.6	2.19
24	15/16"	40.3	47.9	51.9	2.56

Nominal Data		Minimum Breaking Load(Metric Ton)			Approx Weight Kg/m
mm	Inch	180Kg/mm <sup>2</sup> (1770N/mm <sup>2</sup> )	200Kg/mm <sup>2</sup> (1960N/mm <sup>2</sup> )	220Kg/mm <sup>2</sup> (2160N/mm <sup>2</sup> )	
25		43.7	52.0	56.3	2.77
25.4	1"	45.1	53.7	58.2	2.86
26	1-1/16"	47.3	56.2	61.0	3.00
28		54.8	65.2	70.4	3.48
28.6	1-1/8"	57.2	68.0	73.5	3.63
30	1-3/16"	62.9	74.8	80.8	3.99
31.8	1-1/4"	70.7	84.1	90.8	4.49
32		71.6	85.2	92.0	4.55
34		80.8	96.1	103.8	5.13
35	1-3/8"	85.6	101.9	110.0	5.44
36		90.6	107.8	116.4	5.75
38		100.9	120.1	129.7	6.41

■ Available upon request

## Powerlift 19

- Rotation resistance
- High structural stability
- High breaking load
- Excellent life time



Nominal Data		Minimum Breaking Load(Metric Ton)				Approx Weight Kg/m
mm	Inch	165Kg/mm <sup>2</sup> (1620N/mm <sup>2</sup> )	180Kg/mm <sup>2</sup> (1770N/mm <sup>2</sup> )	200Kg/mm <sup>2</sup> (1960N/mm <sup>2</sup> )	220Kg/mm <sup>2</sup> (2160N/mm <sup>2</sup> )	
6		2.2	2.4	2.6	2.8	0.15
6.53	1/4"	2.6	2.8	3.0	3.3	0.18
8	5/16"	3.8	4.2	4.5	5.0	0.27
9		4.9	5.3	5.7	6.3	0.34
9.53	3/8"	5.4	6.0	6.4	7.1	0.38
10		6.0	6.6	7.1	7.8	0.42
11.2	7/16"	7.5	8.2	8.9	9.8	0.52
12		8.6	9.4	10.2	11.2	0.60
12.7	1/2"	9.7	10.6	11.4	12.5	0.67
13		10.1	11.1	12.0	13.1	0.70
14		11.8	12.8	13.9	15.2	0.82
14.3	9/16"	12.3	13.4	14.5	15.9	0.85
15		13.5	14.8	15.9	17.5	0.94
16	5/8"	15.4	16.8	18.1	19.9	1.07
17.5	11/16"	18.4	20.1	21.7	23.8	1.28

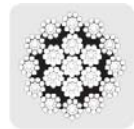
Nominal Data		Minimum Breaking Load(Metric Ton)				Approx Weight Kg/m
mm	Inch	165Kg/mm <sup>2</sup> (1620N/mm <sup>2</sup> )	180Kg/mm <sup>2</sup> (1770N/mm <sup>2</sup> )	200Kg/mm <sup>2</sup> (1960N/mm <sup>2</sup> )	220Kg/mm <sup>2</sup> (2160N/mm <sup>2</sup> )	
18		19.4	21.2	23.0	25.2	1.35
19	3/4"	21.7	23.7	25.6	28.1	1.50
20		24.0	26.2	28.3	31.1	1.67
21	13/16"	26.5	28.9	31.2	34.3	1.84
22		29.0	31.7	34.3	37.6	2.02
22.2	7/8"	29.6	32.4	35.0	38.4	2.06
24	15/16"	34.6	37.8	40.8	44.8	2.40
25		37.5	41.0	44.3	48.6	2.60
25.4	1"	38.7	42.3	45.7	50.2	2.69
26	1-1/16"	40.6	44.3	47.9	52.6	2.82
28		47.0	51.4	55.5	-	3.27
28.6	1-1/8"	49.1	53.6	57.9	-	3.41
30	1-3/16"	54.0	59.0	63.8	-	3.75
31.8	1-1/4"	60.7	66.3	71.6	-	4.21
32		61.4	67.1	72.5	-	4.27

## POWERLIFT NON-ROTATING WIRE ROPE



## Powerlift M19

- Rotation - resistance
- High structural stability
- High breaking load
- Excellent life time



Nominal Data		Minimum Breaking Load(Metric Ton)				Approx Weight Kg/m
mm	Inch	165Kg/mm <sup>2</sup> (1620N/mm <sup>2</sup> )	180Kg/mm <sup>2</sup> (1770N/mm <sup>2</sup> )	200Kg/mm <sup>2</sup> (1960N/mm <sup>2</sup> )	220Kg/mm <sup>2</sup> (2160N/mm <sup>2</sup> )	
14		11.6	12.6	13.7	15.0	0.83
14.3	9/16"	12.1	13.1	14.3	15.7	0.87
15		13.3	14.5	15.7	17.2	0.96
16	5/8"	15.1	16.5	17.9	19.6	1.09
17.5	11/16"	18.1	19.7	21.4	23.5	1.30
18		19.1	20.8	22.6	24.8	1.38
19	3/4"	21.3	23.2	25.2	27.7	1.54
20		23.6	25.7	27.9	30.6	1.70
21	13/16"	26.0	28.4	30.8	33.8	1.88
22		28.5	31.1	33.8	37.1	2.06

Nominal Data		Minimum Breaking Load(Metric Ton)				Approx Weight Kg/m
mm	Inch	165Kg/mm <sup>2</sup> (1620N/mm <sup>2</sup> )	180Kg/mm <sup>2</sup> (1770N/mm <sup>2</sup> )	200Kg/mm <sup>2</sup> (1960N/mm <sup>2</sup> )	220Kg/mm <sup>2</sup> (2160N/mm <sup>2</sup> )	
22.2	7/8"	29.1	31.8	34.5	37.8	2.10
24	15/16"	34.0	37.0	40.2	44.1	2.45
25		36.9	40.2	43.6	47.9	2.66
25.4	1"	38.1	41.5	45.0	49.4	2.74
26	1-1/16"	39.9	43.5	47.2	51.8	2.88
28		46.2	50.4	54.7	-	3.34
28.6	1-1/8"	48.2	52.6	57.1	-	3.48
30	1-3/16"	53.1	57.9	62.8	-	3.83
31.8	1-1/4"	59.6	65.0	70.6	-	4.30
32		60.4	65.8	71.5	-	4.36

## Powerlift 18

- Rotation - resistance
- High structural stability
- High breaking load
- Excellent life time



Nominal Data		Minimum Breaking Load(Metric Ton)				Approx Weight Kg/m
mm	Inch	165Kg/mm <sup>2</sup> (1620N/mm <sup>2</sup> )	180Kg/mm <sup>2</sup> (1770N/mm <sup>2</sup> )	200Kg/mm <sup>2</sup> (1960N/mm <sup>2</sup> )	220Kg/mm <sup>2</sup> (2160N/mm <sup>2</sup> )	
6		2.0	2.2	2.4	2.6	0.15
6.53	1/4"	2.4	2.6	2.8	3.1	0.17
8	5/16"	3.6	3.9	4.2	4.6	0.26
9		4.5	4.9	5.3	5.9	0.33
9.53	3/8"	5.1	5.5	6.0	6.6	0.37
10		5.6	6.1	6.6	7.2	0.41
11.2	7/16"	7.0	7.6	8.3	9.1	0.51
12		8.0	8.8	9.5	10.4	0.58
12.7	1/2"	9.0	9.8	10.6	11.7	0.66
13		9.4	10.3	11.1	12.2	0.69
14		10.9	11.9	12.9	14.2	0.80
14.3	9/16"	11.4	12.4	13.5	14.8	0.83
15		12.5	13.7	14.8	16.3	0.91
16	5/8"	14.3	15.6	16.9	18.5	1.04
17.5	11/16"	17.1	18.6	20.2	22.1	1.24

Nominal Data		Minimum Breaking Load(Metric Ton)				Approx Weight Kg/m
mm	Inch	165Kg/mm <sup>2</sup> (1620N/mm <sup>2</sup> )	180Kg/mm <sup>2</sup> (1770N/mm <sup>2</sup> )	200Kg/mm <sup>2</sup> (1960N/mm <sup>2</sup> )	220Kg/mm <sup>2</sup> (2160N/mm <sup>2</sup> )	
18		18.1	19.7	21.4	23.4	1.32
19	3/4"	20.1	22.0	23.8	26.1	1.47
20		22.3	24.3	26.4	28.9	1.62
21	13/16"	24.6	26.8	29.1	31.9	1.79
22		27.0	29.4	31.9	35.0	1.97
22.2	7/8"	27.5	30.0	32.6	35.7	2.01
24	15/16"	32.1	35.0	38.0	41.7	2.34
25		34.8	38.0	41.2	45.2	2.54
25.4	1"	35.9	39.2	42.5	46.7	2.62
26	1-1/16"	37.7	41.1	44.6	48.9	2.75
28		43.7	47.7	51.7	-	3.18
28.6	1-1/8"	45.6	49.7	53.9	-	3.32
30	1-3/16"	50.1	54.7	59.3	-	3.66
31.8	1-1/4"	56.3	61.5	66.7	-	4.11
32		57.1	62.3	67.5	-	4.16

## POWERLIFT NON-ROTATING WIRE ROPE

D | S | R

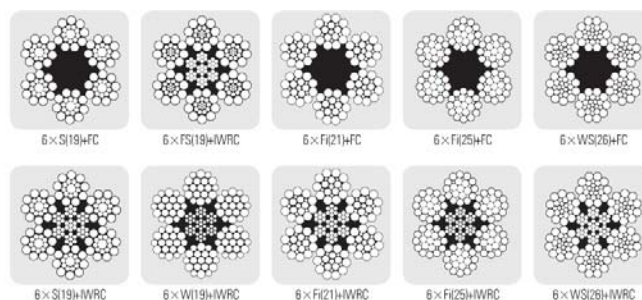
## Powerlift 6

- Rotation - resistance
- High structural stability
- High breaking load
- Excellent life time

*Crane / Logging / Mining / Drilling /  
Fishing / Marine / Oil Field / Bridge /  
Cableway / General Engineering*

## 6×19 Class Rope

Nominal Data		Minimum Breaking Load(Metric Ton)							
		FC Core		Approx Weight Kg/m	Steel Core				Approx Weight Kg/m
mm	Inch	180Kg/mm <sup>2</sup> (1770N/mm <sup>2</sup> )	200Kg/mm <sup>2</sup> (1960N/mm <sup>2</sup> )		165Kg/mm <sup>2</sup> (1620N/mm <sup>2</sup> )	180Kg/mm <sup>2</sup> (1770N/mm <sup>2</sup> )	200Kg/mm <sup>2</sup> (1960N/mm <sup>2</sup> )	220Kg/mm <sup>2</sup> (2160N/mm <sup>2</sup> )	
6		2.1	2.3	0.14	2.3	2.4	2.7	2.9	0.16
6.53	1/4"	2.5	2.8	0.16	2.7	2.9	3.2	3.5	0.18
8	5/16"	3.8	4.1	0.25	4.1	4.3	4.8	5.2	0.28
9		4.8	5.2	0.31	5.1	5.4	6.1	6.6	0.35
9.53	3/8"	5.4	5.9	0.35	5.8	6.1	6.8	7.4	0.39
10		5.9	6.5	0.39	6.3	6.7	7.5	8.1	0.43
11.2	7/16"	7.4	8.1	0.48	7.9	8.4	9.4	10.2	0.54
12		8.5	9.3	0.56	9.1	9.7	10.8	11.7	0.62
12.7	1/2"	9.5	10.4	0.62	10.2	10.8	12.1	13.1	0.69
13		10.0	10.9	0.65	10.7	11.4	12.7	13.7	0.73
14		11.6	12.7	0.76	12.4	13.2	14.7	15.9	0.84
14.3	9/16"	12.1	13.2	0.79	13.0	13.7	15.3	16.6	0.88
15		13.3	14.6	0.87	14.2	15.1	16.9	18.3	0.97
16	5/8"	15.1	16.6	0.99	16.2	17.2	19.2	20.8	1.10
17.5	11/16"	18.1	19.8	1.18	19.4	20.6	23.0	24.9	1.32
18		19.2	21.0	1.25	20.5	21.8	24.3	26.3	1.40
19	3/4"	21.4	23.4	1.39	22.9	24.3	27.1	29.3	1.55
20		23.7	25.9	1.54	25.3	26.9	30.0	32.5	1.72
21	13/16"	26.1	28.6	1.70	27.9	29.6	33.1	35.8	1.90
22		28.6	31.4	1.87	30.7	32.5	36.3	39.3	2.08
22.2	7/8"	29.2	31.9	1.90	31.3	33.1	37.0	40.2	2.12
24	15/16"	34.1	37.3	2.22	36.5	38.7	43.2	46.8	2.48
25		37.0	40.5	2.41	39.6	42.0	46.9	50.8	2.69
25.4	1"	38.2	41.8	2.49	40.9	43.4	48.4	52.4	2.78
26	1-1/16"	40.0	43.8	2.61	42.8	45.4	50.7	55.0	2.91
28		46.4	50.8	3.03	49.7	52.7	58.8	63.7	3.38
28.6	1-1/8"	48.4	53.0	3.16	51.8	55.0	61.3	66.5	3.52
30	1-3/16"	53.3	58.3	3.48	57.0	60.5	67.5	73.2	3.88



Nominal Data		Minimum Breaking Load(Metric Ton)							
		FC Core		Approx Weight Kg/m	Steel Core				Approx Weight Kg/m
mm	Inch	180Kg/mm <sup>2</sup> (1770N/mm <sup>2</sup> )	200Kg/mm <sup>2</sup> (1960N/mm <sup>2</sup> )		165Kg/mm <sup>2</sup> (1620N/mm <sup>2</sup> )	180Kg/mm <sup>2</sup> (1770N/mm <sup>2</sup> )	200Kg/mm <sup>2</sup> (1960N/mm <sup>2</sup> )	220Kg/mm <sup>2</sup> (2160N/mm <sup>2</sup> )	
31.8	1-1/4"	59.8	65.5	3.90	64.1	68.0	75.8	82.2	4.35
32		60.6	66.3	3.95	64.9	68.8	76.8	83.2	4.41
34		68.4	74.9	4.46	73.2	77.7	86.7	94.0	4.98
35	1-3/8"	72.5	79.4	4.73	77.6	82.3	91.9	99.6	5.27
36		76.7	84.0	5.00	82.1	87.1	97.2	105.4	5.58
38		85.4	93.6	5.58	91.5	97.1	108.3	117.4	6.22
38.1	1-1/2"	85.9	94.0	5.60	91.9	97.6	108.9	118.0	6.25
40		94.7	103.7	6.18	101.3	107.6	120.0	130.1	6.89
42		104.4	114.3	6.81	111.7	118.6	132.3	-	7.60
44		114.5	125.4	7.48	122.6	130.1	145.2	-	8.34
44.5	1-3/4"	116.9	128.0	7.63	125.1	132.8	148.2	-	8.51
46		125.2	137.1	8.17	134.0	142.2	158.7	-	9.11
48		136.3	149.3	8.90	145.9	154.9	172.8	-	9.92
50		147.9	162.0	9.65	158.3	168.1	187.5	-	10.76
50.8	2"	152.7	167.2	9.96	163.4	173.5	193.5	-	11.11
52		160.0	175.2	10.44	171.3	181.8	202.8	-	11.64
54		172.5	188.9	11.26	184.7	196.0	218.7	-	12.56
56		185.5	203.2	12.11	198.6	210.8	235.2	-	13.50
57.2	2-1/4"	193.6	212.0	12.63	207.2	219.9	245.4	-	14.09
58		199.0	217.9	12.99	213.1	226.1	252.3	-	14.48
60		213.0	233.2	13.90	228.0	242.0	270.0	-	15.50
63.5	2-1/2"	238.6	-	15.57	255.4	271.1	302.4	-	17.36
66		257.7	-	16.82	275.9	292.8	326.7	-	18.76
68		273.6	-	17.85	292.9	310.8	346.8	-	19.91
70	2-3/4"	289.9	-	18.92	310.3	329.4	-	-	21.10
72		306.7	-	20.02	328.3	348.5	-	-	22.32
74		324.0	-	21.14	346.8	368.1	-	-	23.58
76.2	3"	343.5	-	22.42	367.7	390.3	-	-	25.00

## POWERLIFT NON-ROTATING WIRE ROPE

D | S | R

## Powerlift 6

Crane / Fishing / Mining / Mooring /  
Excavator / Anchor / General Engineering



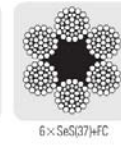
6x28+FC



6x31+FC



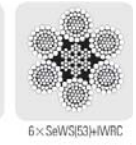
6x36+FC



6x37+FC



6x41+FC



6xSeWS(53)+IWRC



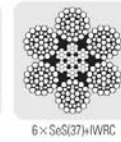
6x28+IWRC



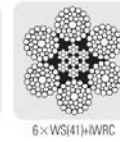
6x31+IWRC



6x36+IWRC



6x37+IWRC



6x41+IWRC

## 6x37 Class Rope

Nominal Data		Minimum Breaking Load(Metric Ton)						
		FC Core		Approx Weight Kg/m	Steel Core			
mm	Inch	180Kg/mm <sup>2</sup> (1770N/mm <sup>2</sup> )	200Kg/mm <sup>2</sup> (1960N/mm <sup>2</sup> )		165Kg/mm <sup>2</sup> (1620N/mm <sup>2</sup> )	180Kg/mm <sup>2</sup> (1770N/mm <sup>2</sup> )	200Kg/mm <sup>2</sup> (1960N/mm <sup>2</sup> )	220Kg/mm <sup>2</sup> (2160N/mm <sup>2</sup> )
6		2.2	2.4	0.14	2.3	2.5	2.7	3.0
6.53	1/4"	2.6	2.9	0.17	2.8	2.9	3.2	3.5
8	5/16"	3.9	4.3	0.25	4.1	4.4	4.9	5.3
9		4.9	5.4	0.32	5.2	5.6	6.2	6.7
9.53	3/8"	5.5	6.1	0.36	5.9	6.3	6.9	7.5
10		6.0	6.7	0.39	6.5	6.9	7.6	8.2
11.2	7/16"	7.6	8.4	0.49	8.1	8.7	9.5	10.3
12		8.7	9.6	0.57	9.3	10.0	11.0	11.9
12.7	1/2"	9.7	10.8	0.64	10.4	11.2	12.3	13.3
13		10.2	11.3	0.67	10.9	11.7	12.9	13.9
14		11.8	13.1	0.77	12.7	13.6	14.9	16.2
14.3	9/16"	12.3	13.7	0.81	13.2	14.1	15.6	16.9
15		13.6	15.1	0.89	14.6	15.6	17.1	18.6
16	5/8"	15.4	17.1	1.01	16.6	17.7	19.5	21.1
17.5	11/16"	18.5	20.5	1.21	19.8	21.2	23.3	25.3
18		19.5	21.7	1.28	21.0	22.4	24.7	26.7
19	3/4"	21.8	24.2	1.42	23.4	25.0	27.5	29.8
20		24.1	26.8	1.58	25.9	27.7	30.4	33.0
21	13/16"	26.6	29.5	1.74	28.5	30.5	33.6	36.4
22		29.2	32.4	1.91	31.3	33.5	36.8	39.9
22.2	7/8"	29.7	33.0	1.94	32.0	34.2	37.6	40.7
24	15/16"	34.7	38.5	2.27	37.3	39.8	43.8	47.5
25		37.7	41.8	2.47	40.5	43.2	47.6	51.6
25.4	1"	38.9	43.2	2.54	41.8	44.6	49.1	53.2
26	1-1/16"	40.7	45.2	2.67	43.8	46.7	51.5	55.8
28		47.3	52.5	3.08	50.7	54.2	59.7	64.7
28.6	1-1/8"	49.3	54.7	3.23	52.9	56.6	62.3	67.5
30	1-3/16"	54.3	60.2	3.55	58.2	62.2	68.5	74.2

Nominal Data		Minimum Breaking Load(Metric Ton)						
		FC Core		Approx Weight Kg/m	Steel Core			
mm	Inch	180Kg/mm <sup>2</sup> (1770N/mm <sup>2</sup> )	200Kg/mm <sup>2</sup> (1960N/mm <sup>2</sup> )		165Kg/mm <sup>2</sup> (1620N/mm <sup>2</sup> )	180Kg/mm <sup>2</sup> (1770N/mm <sup>2</sup> )	200Kg/mm <sup>2</sup> (1960N/mm <sup>2</sup> )	220Kg/mm <sup>2</sup> (2160N/mm <sup>2</sup> )
31.8	1-1/4"	61.0	67.7	3.99	65.4	69.9	77.0	83.4
32		61.7	68.5	4.04	66.3	70.8	77.9	84.5
34		69.7	77.4	4.56	74.8	79.9	88.0	95.4
35	1-3/8"	73.8	82.0	4.83	79.3	84.7	93.2	101.1
36		78.1	86.7	5.11	83.9	89.6	98.6	106.9
38		87.0	96.6	5.70	93.5	99.8	109.9	119.1
38.1	1-1/2"	87.5	97.1	5.73	94.0	100.4	110.5	119.8
40		96.4	107.1	6.31	103.6	110.6	121.8	132.0
42		106.3	118.0	6.96	114.2	122.0	134.3	-
44		116.7	129.6	7.64	125.3	133.9	147.4	-
44.5	1-3/4"	119.1	132.2	7.79	127.9	136.6	150.4	-
46		127.5	141.6	8.35	137.0	146.3	161.1	-
48		138.9	154.2	9.09	149.1	159.3	175.4	-
50		150.7	167.3	9.86	161.8	172.9	190.3	-
50.8	2"	155.6	172.7	10.18	167.0	178.4	196.4	-
52		163.0	180.9	10.67	175.0	187.0	205.8	-
54		175.8	195.1	11.50	188.7	201.6	221.9	-
56		189.0	209.9	12.37	203.0	216.8	238.7	-
57.2	2-1/4"	197.2	218.9	12.91	211.8	226.2	249.0	-
58		202.8	225.1	13.27	217.7	232.6	256.0	-
60		217.0	240.9	14.20	233.0	248.9	274.0	-
63.5	2-1/2"	243.1	-	15.90	248.8	278.8	306.9	-
66		262.6	-	17.18	281.9	301.2	331.5	-
68		278.7	-	18.24	299.3	319.7	351.9	-
70	2-3/4"	295.4	-	19.33	317.1	338.8	-	-
72		312.5	-	20.45	335.5	358.4	-	-
74		330.1	-	21.60	354.4	378.6	-	-
76.2	3"	350.0	-	22.90	375.8	401.5	-	-



## POWERLIFT NON-ROTATING WIRE ROPE

D | S | R

## Powerlift 8

## 8×19 Class Rope

Crane  
Drilling  
General Purpose

8×F(25)HWRC



8×F(25)FC



8×WS(26)HWRC



8×WS(26)FC

Nominal Data		Minimum Breaking Load(Metric Ton)					
		FC Core		Approx Weight Kg/m	Steel Core		
mm	Inch	180Kg/mm <sup>2</sup> (1770N/mm <sup>2</sup> )	200Kg/mm <sup>2</sup> (1960N/mm <sup>2</sup> )		180Kg/mm <sup>2</sup> (1770N/mm <sup>2</sup> )	200Kg/mm <sup>2</sup> (1960N/mm <sup>2</sup> )	220Kg/mm <sup>2</sup> (2160N/mm <sup>2</sup> )
14		10.4	11.5	0.67	13.5	15.0	16.2
14.3	9/16"	10.9	12.0	0.69	14.0	15.6	16.9
15		12.0	13.2	0.76	15.5	17.2	18.6
16	5/8"	13.6	15.1	0.87	17.6	19.6	21.2
17.5	11/16"	16.3	18.0	1.04	21.0	23.4	25.3
18		17.2	19.1	1.10	22.3	24.8	26.8
19	3/4"	19.2	21.2	1.23	24.8	27.6	29.9
20		21.2	23.5	1.36	27.5	30.6	33.1
22		25.7	28.5	1.64	33.2	37.0	40.1
24		30.6	33.9	1.96	39.6	44.1	47.7
25		33.2	36.8	2.12	42.9	47.8	51.7
26	1-1/16"	35.9	39.8	2.30	46.4	51.7	55.9
28		41.6	46.1	2.66	53.8	60.0	64.9
28.6	1-1/8"	43.4	48.1	2.78	56.2	62.6	67.7

Nominal Data		Minimum Breaking Load(Metric Ton)					
		FC Core		Approx Weight Kg/m	Steel Core		
mm	Inch	180Kg/mm <sup>2</sup> (1770N/mm <sup>2</sup> )	200Kg/mm <sup>2</sup> (1960N/mm <sup>2</sup> )		180Kg/mm <sup>2</sup> (1770N/mm <sup>2</sup> )	200Kg/mm <sup>2</sup> (1960N/mm <sup>2</sup> )	220Kg/mm <sup>2</sup> (2160N/mm <sup>2</sup> )
30	1-3/16"	47.8	52.9	3.06	61.8	68.9	74.5
32		54.4	60.2	3.48	70.3	78.4	84.7
34		61.4	68.0	3.93	79.4	88.5	95.7
35		65.1	72.1	4.16	84.1	93.8	101.4
36		68.8	76.2	4.40	89.0	99.2	107.3
38		76.7	84.9	4.91	99.2	110.5	119.5
38.1	1-1/2"	77.1	85.4	4.93	99.7	111.1	120.1
40		85.0	94.1	5.44	109.9	122.4	132.4
42		93.7	103.8	5.99	121.1	135.0	-
44		102.8	113.9	6.58	133.0	148.2	-
45		107.6	119.1	6.88	139.1	155.0	-
46		112.4	124.5	7.19	145.3	161.9	-
48		122.4	135.5	7.83	158.2	176.3	-

Available upon request

## 8×37 Class Rope



8×F(29)HWRC



8×F(29)FC



8×WS(36)HWRC



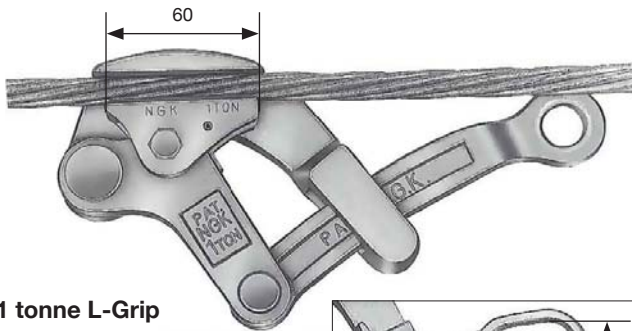
8×WS(36)FC

Nominal Data		Minimum Breaking Load(Metric Ton)					
		FC Core		Approx Weight Kg/m	Steel Core		
mm	Inch	180Kg/mm <sup>2</sup> (1770N/mm <sup>2</sup> )	200Kg/mm <sup>2</sup> (1960N/mm <sup>2</sup> )		180Kg/mm <sup>2</sup> (1770N/mm <sup>2</sup> )	200Kg/mm <sup>2</sup> (1960N/mm <sup>2</sup> )	220Kg/mm <sup>2</sup> (2160N/mm <sup>2</sup> )
14		10.5	11.6	0.68	13.6	15.2	16.4
14.3	9/16"	11.0	12.1	0.71	14.2	15.8	17.1
15		12.1	13.4	0.78	15.6	17.4	18.8
16	5/8"	13.7	15.2	0.89	17.8	19.8	21.4
17.5	11/16"	16.4	18.2	1.07	21.2	23.7	25.6
18		17.4	19.2	1.13	22.5	25.0	27.1
19	3/4"	19.4	21.4	1.26	25.0	27.9	30.2
20		21.4	23.7	1.39	27.7	30.9	33.4
22		26.0	28.7	1.68	33.6	37.4	40.4
24		30.9	34.2	2.00	39.9	44.5	48.1
25		33.5	37.1	2.17	43.3	48.3	52.2
26	1-1/16"	36.2	40.1	2.35	46.9	52.3	56.5
28		42.0	46.5	2.73	54.4	60.6	65.5
28.6	1-1/8"	43.9	48.5	2.85	56.7	63.2	68.4

Nominal Data		Minimum Breaking Load(Metric Ton)					
		FC Core		Approx Weight Kg/m	Steel Core		
mm	Inch	180Kg/mm <sup>2</sup> (1770N/mm <sup>2</sup> )	200Kg/mm <sup>2</sup> (1960N/mm <sup>2</sup> )		180Kg/mm <sup>2</sup> (1770N/mm <sup>2</sup> )	200Kg/mm <sup>2</sup> (1960N/mm <sup>2</sup> )	220Kg/mm <sup>2</sup> (2160N/mm <sup>2</sup> )
30	1-3/16"	48.3	53.4	3.13	62.4	69.6	75.2
32		54.9	60.8	3.56	71.0	79.2	85.6
34		62.0	68.6	4.02	80.2	89.4	96.6
35		65.7	72.7	4.26	84.9	94.7	102.4
36		69.5	76.9	4.51	89.9	100.2	108.3
38		77.4	85.7	5.02	100.1	111.6	120.7
38.1	1-1/2"	77.8	86.1	5.05	100.6	112.2	121.3
40		85.8	94.9	5.57	110.9	123.7	133.7
42		94.6	104.7	6.14	122.3	136.4	-
44		103.8	114.9	6.74	134.2	149.6	-
45		108.6	120.2	7.05	140.4	156.5	-
46		113.5	125.6	7.36	146.7	163.6	-
48		123.5	136.7	8.02	159.8	178.1	-

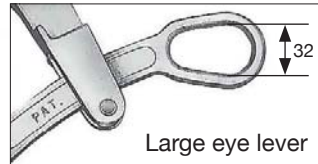
Available upon request

## NGK WIRE GRIPS

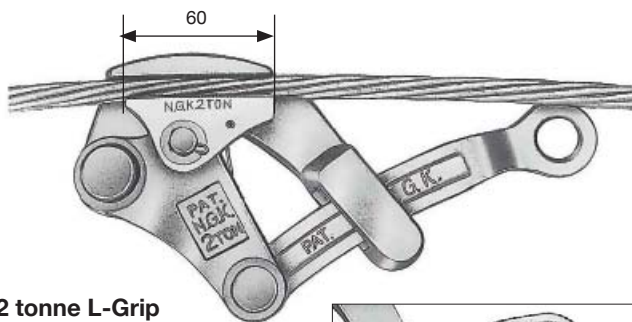
**1 tonne L-Grip**

**Uses:** For bare copper cable, covered conductor and messenger wire.

With safety latch.

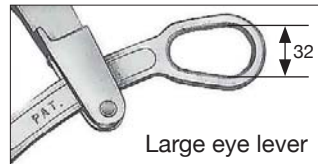


Safe Working Load	Min. Cable Dia. mm	Max. Cable Dia. mm	Weight kg
10kN (1.0t)	4	22	1.1

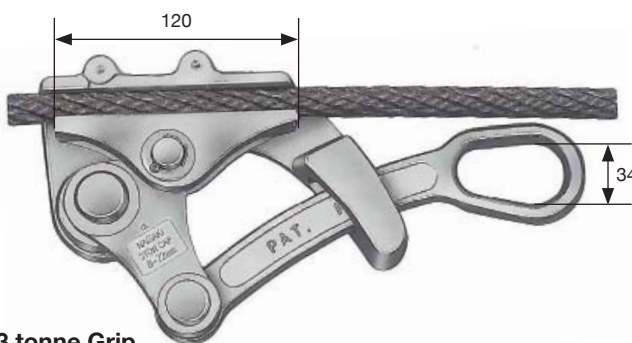
**2 tonne L-Grip**

**Uses:** For bare copper cable, covered conductor and messenger wire.

With safety latch.

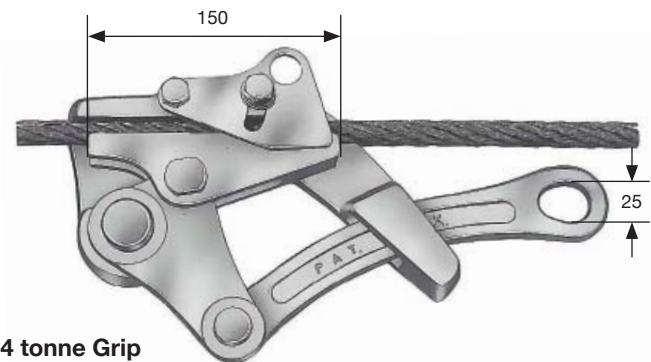


Safe Working Load	Min. Cable Dia. mm	Max. Cable Dia. mm	Weight kg
20kN (2.0t)	4	22	1.3

**3 tonne Grip**

**Uses:** For wire rope, messenger wire, copper cable and trolley cable. With safety latch.

Safe Working Load	Min. Cable Dia. mm	Max. Cable Dia. mm	Weight kg
30kN (3.0t)	8	22	3.0

**4 tonne Grip**

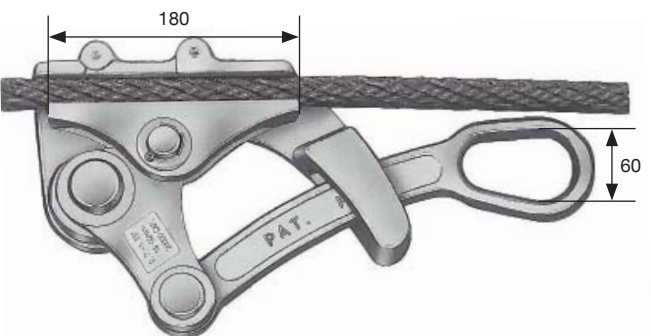
**Uses:** For wire rope, messenger wire, copper cable and trolley cable. With safety latch.

Safe Working Load	Min. Cable Dia. mm	Max. Cable Dia. mm	Weight kg
40kN (4.0t)	13	28	5.0

**6 tonne Grip**

**Uses:** Wire rope, copper cable and trolley cable. With safety latch.

Safe Working Load	Min. Cable Dia. mm	Max. Cable Dia. mm	Weight kg
60kN (6.0t)	13	28	5.2

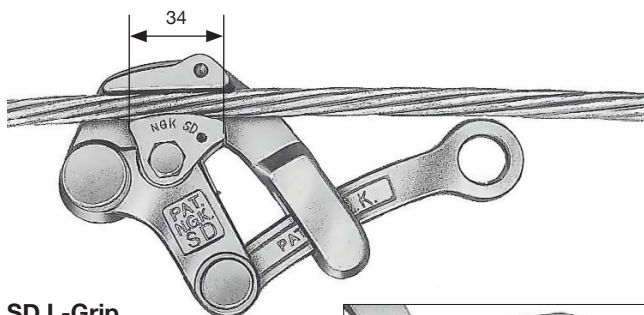
**10 tonne Grip**

**Uses:** Wire rope and messenger wire. With safety latch.

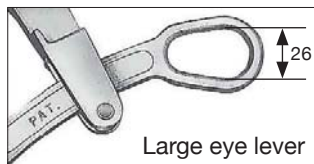
Safe Working Load	Min. Cable Dia. mm	Max. Cable Dia. mm	Weight kg
100kN (10.0t)	18	32	10

**WARNING: THESE PRODUCTS CANNOT BE USED FOR LIFTING AND LOWERING OR FOR SUPPORTING HUMAN CARGO!**

## NGK WIRE GRIPS

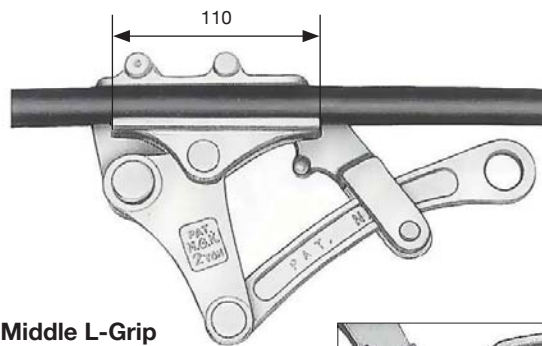
**SD L-Grip**

**Uses:** For steel rod, copper cable and messenger wire. With safety latch.

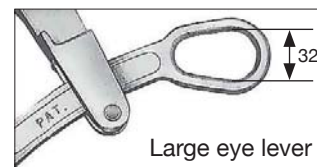


Large eye lever

Safe Working Load	Min. Cable Dia. mm	Max. Cable Dia. mm	Weight kg
10kN (1.0t)	2.6	15	0.6

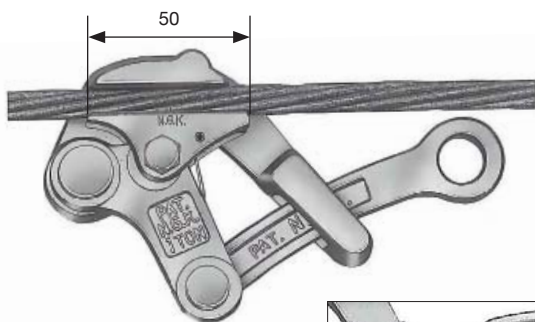
**Middle L-Grip**

**Uses:** For bare copper cable, covered conductor and messenger wire. With safety latch.

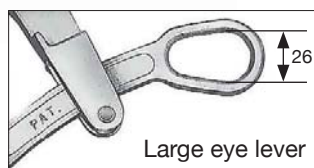


Large eye lever

Safe Working Load	Min. Cable Dia. mm	Max. Cable Dia. mm	Weight kg
20kN (2.0t)	5	25	1.8

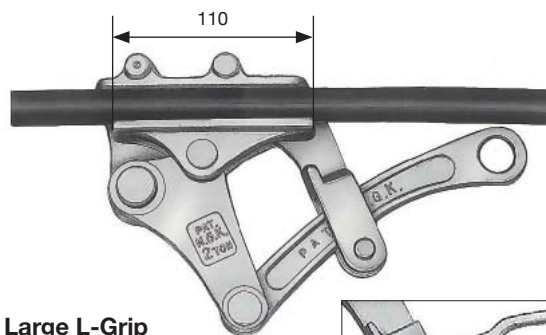
**Messen L-Grip**

**Uses:** For copper cable and messenger wire. With safety latch.

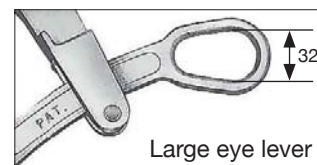


Large eye lever

Safe Working Load	Min. Cable Dia. mm	Max. Cable Dia. mm	Weight kg
10kN (1.0t)	4	12	0.7

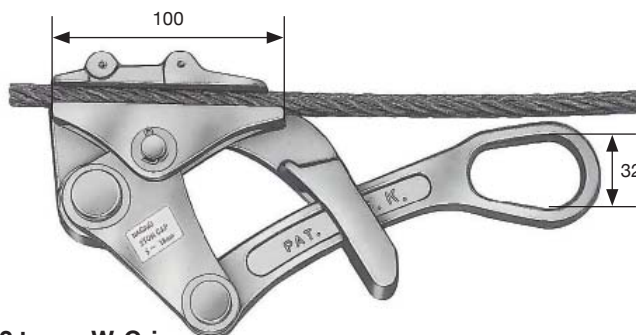
**Large L-Grip**

**Uses:** For copper cable and covered conductor. With safety latch.



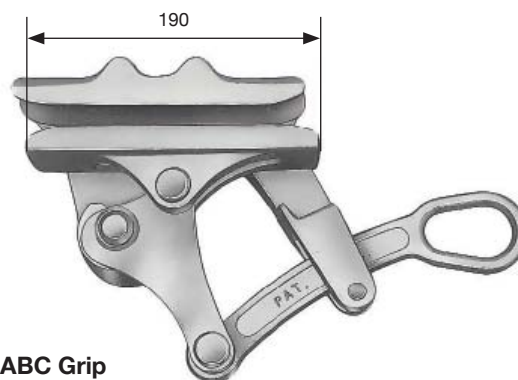
Large eye lever

Safe Working Load	Min. Cable Dia. mm	Max. Cable Dia. mm	Weight kg
20kN (2.0t)	16	32	2.1

**2 tonne W-Grip**

**Uses:** For wire rope, messenger wire, copper cable and trolley cable. With safety latch.

Safe Working Load	Min. Cable Dia. mm	Max. Cable Dia. mm	Weight kg
20kN (2.0t)	5	16	1.4

**ABC Grip**

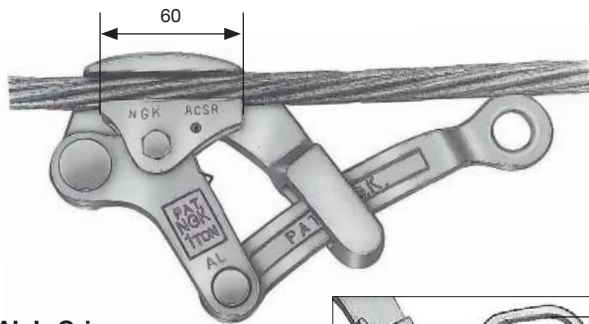
**Uses:** For aerial bundled cable. With safety latch.

Safe Working Load	Min. Cable Dia. mm	Max. Cable Dia. mm	Weight kg
8.5kN (0.85t)	4 x 35	4 x 95	3.0

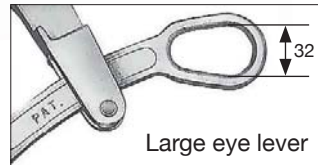
**WARNING: THESE PRODUCTS CANNOT BE USED FOR LIFTING AND LOWERING OR FOR SUPPORTING HUMAN CARGO!**



## NGK WIRE GRIPS

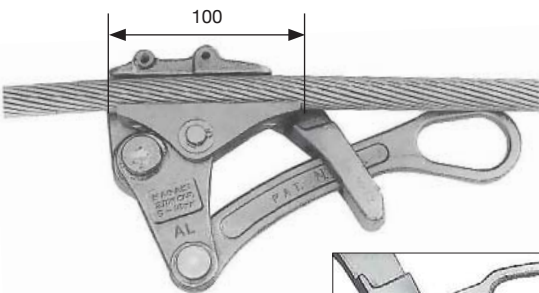
**AL L-Grip**

Fine, smooth jaws to minimise conductor damage. With safety latch.

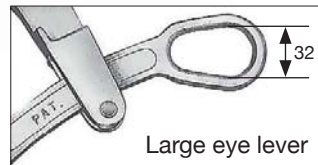


Large eye lever

Safe Working Load	Min. Cable Dia. mm	Max. Cable Dia. mm	Weight kg
10kN (1.0t)	5	22	1.1

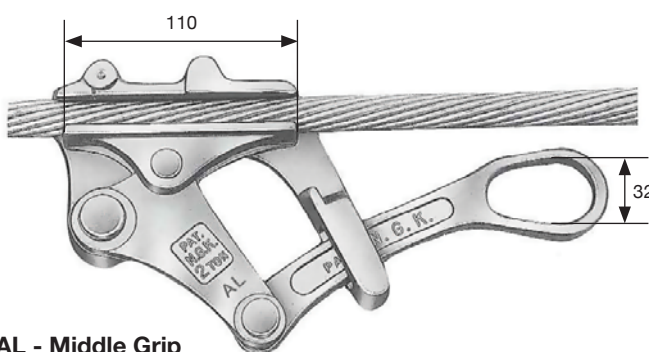
**2 tonne AL-Grip**

**Uses:** Bare aluminium cable. With safety latch.



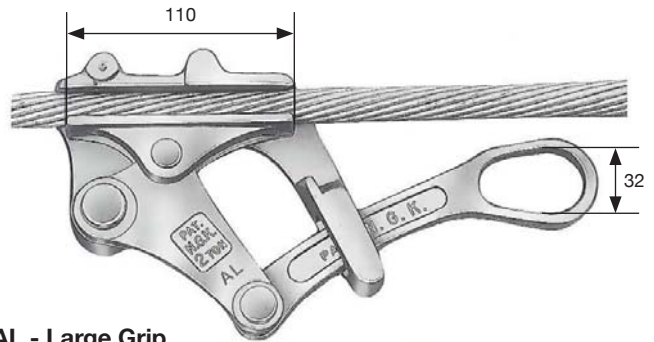
Large eye lever

Safe Working Load	Min. Cable Dia. mm	Max. Cable Dia. mm	Weight kg
20kN (2.0t)	5	16	1.5

**AL - Middle Grip**

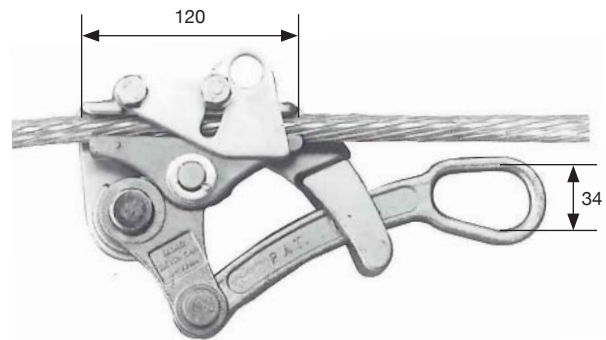
**Uses:** For bare aluminium cable. With safety latch.

Safe Working Load	Min. Cable Dia. mm	Max. Cable Dia. mm	Weight kg
20kN (2.0t)	5	25	1.8

**AL - Large Grip**

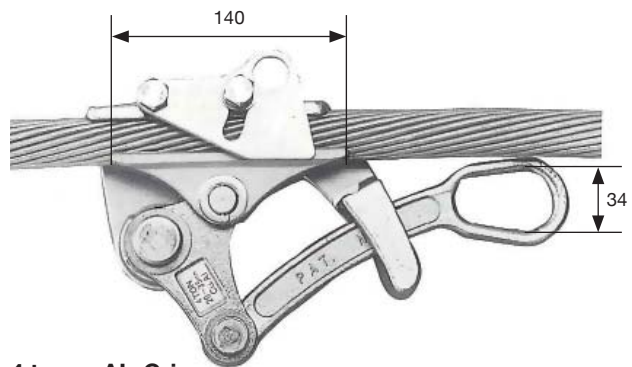
**Uses:** For bare aluminium cable. With safety latch.

Safe Working Load	Min. Cable Dia. mm	Max. Cable Dia. mm	Weight kg
20kN (2.0t)	16	32	2.0

**3 tonne AL-Grip**

Fine, smooth jaws to minimise conductor damage. With safety latch

Safe Working Load	Min. Cable Dia. mm	Max. Cable Dia. mm	Weight kg
30kN (3.0t)	8	22	3

**4 tonne AL-Grip**

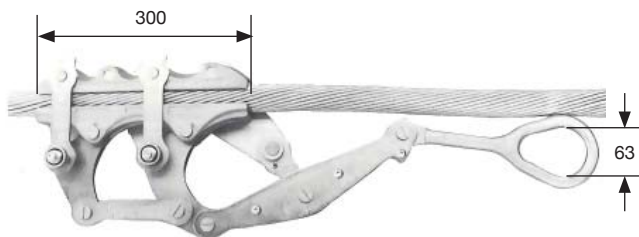
**Uses:** Bare aluminium cable. With safety latch.

Safe Working Load	Min. Cable Dia. mm	Max. Cable Dia. mm	Weight kg
40kN (4.0t)	20	35	3.7

**WARNING: THESE PRODUCTS CANNOT BE USED FOR LIFTING AND LOWERING OR FOR SUPPORTING HUMAN CARGO!**

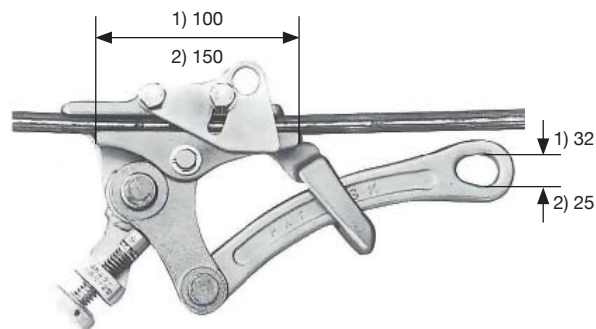


## NGK WIRE GRIPS

**10 tonne AL-Grip**

**Uses:** Large size bare aluminium cable only.  
With safety latch.

Safe Working Load	Cable Range	Jaw Length	Weight kg
10kN (1.0t)	Ø 32-46	300	13
	Ø 42-52		

**Trolley Grip Type 1 & 2**

**Uses:** For railway work, trolley cable, messenger wire, wire rope and copper cable. With safety latch.

Safe Working Load	Min. Cable Dia. mm	Max. Cable Dia. mm	Weight kg
20kN (2.0t)	5-16	100	1.5
20kN (2.0t)	8-20	150	2.8

## NGK RATCHET PULLERS

**Models N-1000P & N-1500P (1.5m pull)**

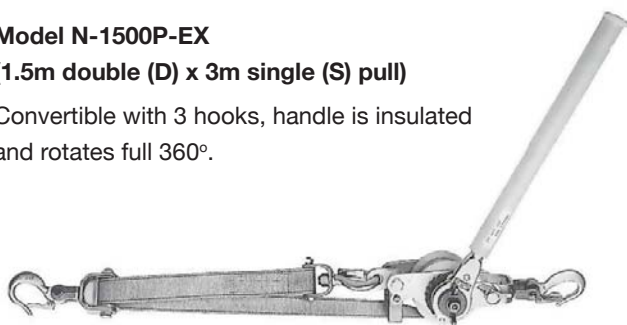
Handle is insulated and rotates full 360°.



Model	Capacity kN - t	Strap Size mm	Min. Lth mm	Max. Lth mm	Lever Lth mm	Wt kg
N-1000P	10 (1.0)	2 x 33	440	1910	400	3.3
N-1500P	15 (1.5)	2 x 40	470	1940	475	4.6

**Model N-1500P-EX (1.5m double (D) x 3m single (S) pull)**

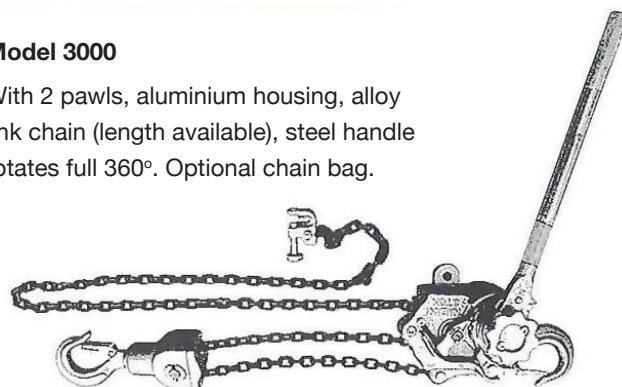
Convertible with 3 hooks, handle is insulated and rotates full 360°.



Capacity	Strap Size mm	Min. Lth mm	Max. Lth mm	Lever Lth mm	Wt kg
15kN x 7.5kN	2 x 40	500	D: 2000 S: 3500	460	5

**Model 3000**

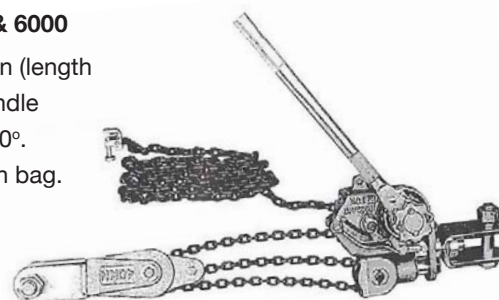
With 2 pawls, aluminium housing, alloy link chain (length available), steel handle rotates full 360°. Optional chain bag.



Capacity	Chain Dia. mm	Min. Lth mm	Max. Lth mm	Lever Lth mm	Wt kg
40kN (4.0t)	5	480	2000	430	8

**Model 4000 & 6000**

Alloy link chain (length available), handle rotates full 360°. Optional chain bag.



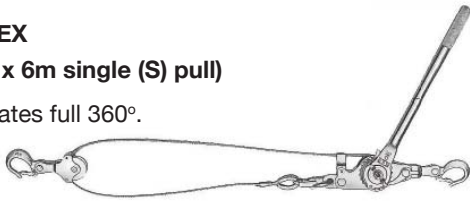
Capacity	Chain Dia. mm	Min. Lth mm	Max. Lth mm	Lever Lth mm	Wt kg
40kN (4.0t)	5	580	2180	430	12
60kN (6.0t)	5	650	2250	430	19

**WARNING: THESE PRODUCTS CANNOT BE USED FOR LIFTING AND LOWERING OR FOR SUPPORTING HUMAN CARGO!**

## NGK RATCHET PULLERS

**Model P-1500-EX**  
**(3m double (D) x 6m single (S) pull)**

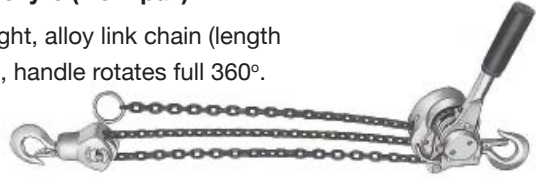
Steel handle rotates full 360°.



Capacity	Wire Dia. mm	Min. Lth mm	Max. Lth mm	Lever Lth mm	Wt kg
1.5kN x 7.5kN	AIR5	500	D: 3500 S: 6500	430	5

**Model Ricky-3 (1.5m pull)**

Light weight, alloy link chain (length available), handle rotates full 360°.

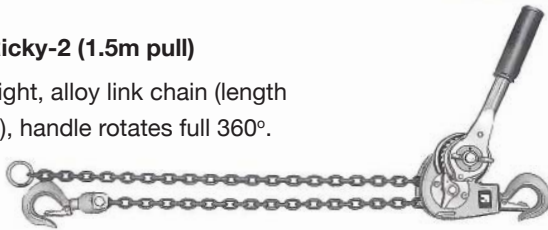


Capacity	Wire Dia. mm	Min. Lth mm	Max. Lth mm	Lever Lth mm	Wt kg
15kN (1.5t)	5	350	1850	230	5

## NGK RATCHET WRENCH

**Model Ricky-2 (1.5m pull)**

Light weight, alloy link chain (length available), handle rotates full 360°.



Capacity	Wire Dia. mm	Min. Lth mm	Max. Lth mm	Lever Lth mm	Wt kg
7.5kN (0.75t)	5	300	1800	230	4

**Model BY-3**

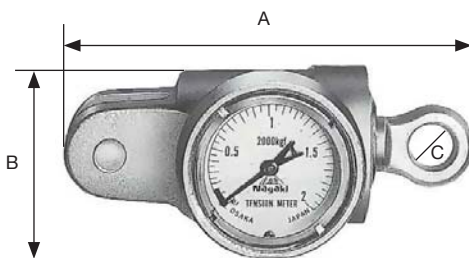
Four different sizes in one (insulated handle).



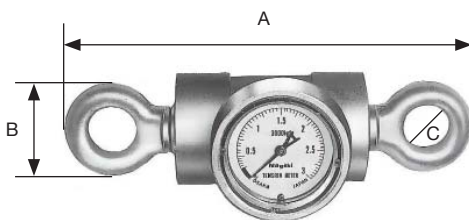
Model BY-3	D mm	10	12	16	20	Wt. kg
	B mm	17	19	24	30	0.9

## NGK TENSION METERS

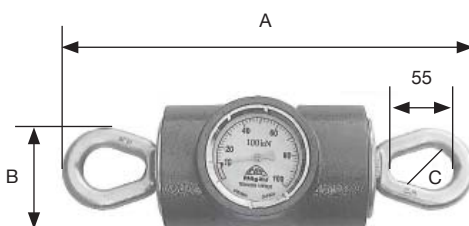
For precise measurement of tension and loads. Available in various sizes and capacities.


**A-1, A-3, A-5, A10 and A-20**

Model	Capacity	Graduation	A	B	C	Wt kg
A-1	1kN (0.1t)	20N (2kg)	130	65	20	0.7
A-3	3kN (0.3t)	50N (5kg)	110	65	16	0.7
A-5	5kN (0.5t)	100N (10kg)	110	65	16	0.7
A-10	10kN (1.0t)	200N (20kg)	135	65	16	0.8
A-20	20kN (2.0t)	500N (50kg)	135	65	16	1.2


**A-30, A-50**

Model	Capacity	Graduation	A	B	C	Wt kg
A-30	30kN (3.0t)	500N (50kg)	150	80	28	2.0
A-50	50kN (5.0t)	1kN (100kg)	260	95	28	3.0


**A-100**

Model	Capacity	Graduation	A	B	C	Wt kg
A-100	100kN (10.0t)	2kN (200kg)	360	100	38	7.0

**WARNING: THESE PRODUCTS CANNOT BE USED FOR LIFTING AND LOWERING OR FOR SUPPORTING HUMAN CARGO!**



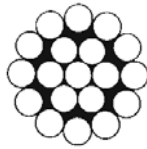
**Nagaki Seiki is a proud supplier  
to the Global Lifting Group.**

World class tools enabling linemen  
to work with speed and safety.

**N.G.K.**

## STAINLESS STEEL WIRE ROPES

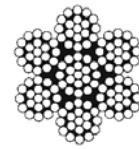
Available in Grade 304 and 316



1 x 19



7 x 7



7 x 19

Wire Rope Const.	Wire Rope Diameter		Nominal Breaking Tonnes	Approx. Mass Load (min.) kg/100m
Inch	mm			
1 x 19	1/32	0.794	.57	0.31
	3/64	1.19	.131	0.71
	1/16	1.59	.227	1.26
	5/64	1.98	.363	2.08
	3/32	2.38	.544	2.98
	7/64	2.78	.726	4.02
	1/8	3.18	.953	5.21
	5/32	3.97	1.497	8.19
	3/16	4.76	2.132	11.46
	7/32	5.56	2.858	15.18
	1/4	6.35	3.719	20.09
	9/32	7.14	4.593	25.40
	5/16	7.94	5.670	31.25
	3/8	9.52	8.165	45.16
	7/16	11.1	11.113	61.39
	1/2	12.5	14.515	77.85

Wire Rope Const.	Wire Rope Diameter		Nominal Breaking Tonnes	Approx. Mass Load (min.) kg/100m
Inch	mm			
7 x 7	3/64	1.19	.122	0.63
	1/16	1.59	.218	1.12
	5/64	1.98	.339	1.74
	3/32	2.38	.417	2.38
	7/64	2.78	.573	3.44
	1/8	3.18	.798	4.50
	5/32	3.97	1.180	7.01
	3/16	4.76	1.670	10.08
	7/32	5.56	2.280	13.75
	1/4	6.35	2.904	17.94
	9/32	7.14	3.629	22.68
	5/16	7.94	4.490	28.05
	3/8	9.52	6.468	40.32
	1/2	12.5	11.113	61.39
	1	25.4	22.226	122.70

7 x 19	1/16	1.59	.218	1.12
	3/32	2.38	.417	2.38
	1/8	3.18	.798	4.32
	3/16	4.76	1.678	9.67
	1/4	6.35	2.903	16.37
	5/16	7.94	4.082	25.75
	3/8	9.52	5.443	36.16
	1/2	12.5	9.676	62.34
	5/8	16.0	15.120	120.14
	7/8	22.0	29.635	193.11
	1	25.0	38.710	249.36

## WIRE ROPE CUTTERS

Felco Wire Rope Cutters  
& Swaging Tools

## Features

- Swiss made
- Available in sizes 7, 9, 12 & 16mm
- Reinforced cutting blades
- Ergonomic vinyl covered handles
- Easy action





## RIGGING HARDWARE



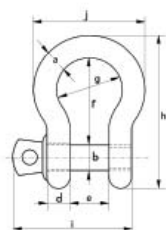
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# RIGGING HARDWARE

## VAN BEEST GREEN PIN® BOW SHACKLES

**VAN BEEST****Bow shackles with screw collar pin**

- Material: bow and pin high tensile steel, Grade 6, quenched and tempered
- Safety Factor: MBL equals 6 x WLL
- Standard: EN 13889 and meets performance requirements of US Fed. Spec. RR-C-271 Type IVA Class 3, Grade A
- Finish: hot dipped galvanized
- Temperature Range: -20°C up to +200°C

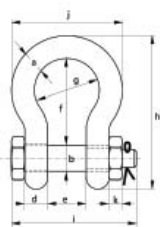
**G-4161**

working load limit	diameter bow	diameter pin	diameter eye	width eye	width inside	length inside	width bow	length bolt	length bolt	width	weight
t	a mm	b mm	c mm	d mm	e mm	f mm	g mm	h mm	i mm	j mm	kg
0.33	5	6	12	5	9.5	22	16	36	29.5	26	0.02
0.5	7	8	16.5	7	12	29	20	48.5	38	34	0.05
0.75	9	10	20	9	13.5	32	22	56	46.5	40	0.1
1	10	11	22.5	10	17	36.5	26	63.5	54	46	0.14
1.5	11	13	26.5	11	19	43	29	74	59.5	51	0.19
2	13.5	16	34	13	22	51	32	89	73	58	0.36
3.25	16	19	40	16	27	64	43	110	89	75	0.63
4.75	19	22	46	19	31	76	51	129	103	89	1.01
6.5	22	25	52	22	36	83	58	144	119	102	1.5
8.5	25	28	59	25	43	95	68	164	137	118	2.21
9.5	28	32	66	28	47	108	75	185	153	131	3.16
12	32	35	72	32	51	115	83	201	170	147	4.31
13.5	35	38	80	35	57	133	92	227	186	162	5.55
17	38	42	88	38	60	146	99	249	203	175	7.43
25	45	50	103	45	74	178	126	300	243	216	12.84
35	50	57	111	50	83	197	138	331	272	238	18.15
42.5	57	65	130	57	95	222	160	377	310	274	26.29
55	65	70	145	65	105	260	180	433	344	310	37.6

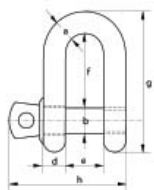
## VAN BEEST GREEN PIN® BOW SHACKLES

**VAN BEEST****Bow shackles with safety bolt**

- Material: bow and pin high tensile steel, Grade 6, quenched and tempered
- Safety Factor: MBL equals 6 x WLL
- Standard: EN 13889 and meets performance requirements of US Fed. Spec. RR-C-271 Type IVA Class 3, Grade A
- Finish: hot dipped galvanized
- Temperature Range: -20°C up to +200°C

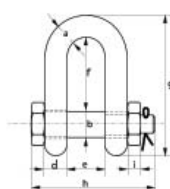
**G-4163**

working load limit	diameter bow	diameter pin	diameter eye	width eye	width inside	length inside	width bow	length bolt	length nut	width each	thickness	weight
t	a mm	b mm	c mm	d mm	e mm	f mm	g mm	h mm	i mm	j mm	k mm	kg
0.5	7	8	16.5	7	12	29	20	48.5	42	34	4	0.06
0.75	9	10	20	9	13.5	32	22	56	50	40	5	0.11
1	10	11	22.5	10	17	36.5	26	63.5	60	46	8	0.16
1.5	11	13	26.5	11	19	43	29	74	67	51	11	0.22
2	13.5	16	34	13	22	51	32	89	82	58	13	0.42
3.25	16	19	40	16	27	64	43	110	98	75	17	0.74
4.75	19	22	46	19	31	76	51	129	114	89	19	1.18
6.5	22	25	52	22	36	83	58	144	130	102	22	1.77
8.5	25	28	59	25	43	95	68	164	150	118	25	2.58
9.5	28	32	66	28	47	108	75	185	166	131	27	3.66
12	32	35	72	32	51	115	83	201	178	147	30	4.91
13.5	35	38	80	35	57	133	92	227	197	162	33	6.54
17	38	42	88	38	60	146	99	249	202	175	19	8.19
25	45	50	103	45	74	178	126	300	249	216	23	14.22
35	50	57	111	50	83	197	138	331	269	238	26	19.85
42.5	57	65	130	57	95	222	160	377	301	274	29	28.33
55	65	70	145	65	105	260	180	433	330	310	32	39.59
85	75	83	162	73	127	329	190	527	380	340	39	62

**VAN BEEST****G-4151****VAN BEEST GREEN PIN® DEE SHACKLES****Dee shackles with screw collar pin**

- Material: bow and pin high tensile steel, Grade 6, quenched and tempered
- Safety Factor: MBL equals 6 x WLL
- Standard: EN 13889 and meets performance requirements of US Fed. Spec. RR-C-271 Type IVA Class 3, Grade A
- Finish: hot dipped galvanized
- Temperature Range: -20°C up to +200°C

working load limit	diameter bow	diameter pin	diameter eye	width eye	width inside	length inside	length	length bolt	weight each
t	a mm	b mm	c mm	d mm	e mm	f mm	g mm	h mm	kg
0.33	5	6	12	5	9.5	19	33	29.5	0.02
0.5	7	8	16.5	7	12	22	41.5	38	0.05
0.75	9	10	20	9	13.5	26	50	46.5	0.09
1	10	11	22.5	10	17	32	59	54	0.14
1.5	11	13	26.5	11	19	37	68	59.5	0.19
2	13.5	16	34	13	22	43	81	73	0.32
3.25	16	19	40	16	27	51	97	89	0.54
4.75	19	22	46	19	31	59	112	103	0.87
6.5	22	25	52	22	36	73	134	119	1.34
8.5	25	28	59	25	43	85	154	137	2.08
9.5	28	32	66	28	47	90	167	153	2.77
12	32	35	72	32	51	94	180	170	3.72
13.5	35	38	80	35	57	115	209	186	5.14
17	38	42	88	38	60	127	230	203	6.85
25	45	50	103	45	74	149	271	243	11.45
35	50	57	111	50	83	171	305	272	16.86
42.5	57	65	130	57	95	190	345	310	24.61
55	65	70	145	65	105	203	376	344	32.65

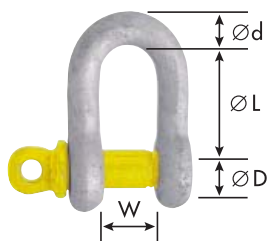
**VAN BEEST GREEN PIN® DEE SHACKLES****VAN BEEST****G-4153****Dee shackles with safety bolt**

- Material: bow and pin high tensile steel, Grade 6, quenched and tempered
- Safety Factor: MBL equals 6 x WLL
- Standard: EN 13889 and meets performance requirements of US Fed. Spec. RR-C-271 Type IVA Class 3, Grade A
- Finish: hot dipped galvanized
- Temperature Range: -20°C up to +200°C

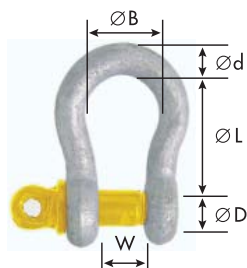
working load limit	diameter bow	diameter pin	diameter eye	width eye	width inside	length inside	length	length bolt	thickness nut	weight
t	a mm	b mm	c mm	d mm	e mm	f mm	g mm	h mm	i mm	kg
2	13.5	16	34	13	22	43	81	82	13	0.39
3.25	16	19	40	16	27	51	97	98	17	0.67
4.75	19	22	46	19	31	59	112	114	19	1.08
6.5	22	25	52	22	36	73	134	130	22	1.66
8.5	25	28	59	25	43	85	154	150	25	2.46
9.5	28	32	66	28	47	90	167	166	27	3.4
12	32	35	72	32	51	94	180	178	30	4.51
13.5	35	38	80	35	57	115	209	197	33	6.1
17	38	42	88	38	60	127	230	202	19	7.63
25	45	50	103	45	74	149	271	249	23	13.25
35	50	57	111	50	83	171	305	269	26	18.53
42.5	57	65	130	57	95	190	345	301	29	25.94
55	65	70	145	65	105	203	376	330	32	35.33
85	75	83	162	73	127	229	427	380	39	52.97

Please refer the complete catalogue for this brand for full product range and specifications.

### GRADE "S" BOW AND DEE SHAKLES



Dee Shackle With Screw Pin



Bow Shackle With Screw Pin



Dee Shackle With Safety Pin



Bow Shackle With Safety Pin

- Manufactured and tested to the requirements of AS 2741-2002
- Galvanised finish
- Larger sizes available

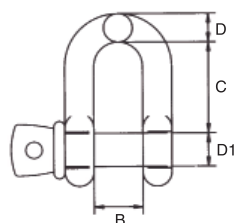
WLL Tonnes	Dia. Bow d mm	Dia. Pin D mm	Inside Width W mm	Inside Chain Type L mm	Length Anchor Type L mm	Width of Bow B mm	Approx. Weight Each Screw Pin kg	Weight Each Safety Pin kg
0.33	5	6	10	-	22	15	0.02	-
0.50	6	8	12	22	29	20	0.06	0.07
0.75	8	10	13	26	31	21	0.11	0.13
1.00	10	11	17	32	37	26	0.15	0.17
1.50	11	13	18	37	43	29	0.21	0.25
2.00	13	16	21	41	48	33	0.37	0.44
3.25	16	19	27	51	61	43	0.65	0.79
4.75	19	22	32	60	72	51	1.06	1.26
6.50	22	25	37	71	84	58	1.56	1.88
8.50	25	29	43	81	95	68	2.32	2.78
9.50	29	32	46	90	108	74	3.28	3.87
12.00	32	35	52	100	119	83	4.51	5.26
13.00	35	38	57	113	133	92	5.43	6.94
17.00	38	41	60	124	146	98	7.89	8.79
25.00	44	51	73	146	178	127	13.40	14.99
35.00	51	57	83	171	197	146	18.85	20.65
45.00	57	63	95	181	222	160	26.06	29.01
55.00	63	70	105	203	267	184	37.86	41.05
85.00	76	83	127	229	330	200	58.68	62.24
120.00	89	95	146	267	381	241	-	110.0
150.00	102	108	165	318	432	279	-	160.0



### COMMERCIAL GALVANIZED DEE SHACKLE

#### NOT SUITABLE FOR LIFTING APPLICATIONS

- Commercial Grade Dee Shackles are suitable for mining, industrial and domestic applications.
- Manufactured from mild steel with a galvanized finish



SIZE mm	WEIGHT/unit KG	B	DIMENSIONS mm D	D1	C
5	0.015	10	5	5	19
6	0.025	12	6	6	24
8	0.054	16	8	8	32
10	0.109	20	10	10	40
12	0.205	25	12	12	48
16	0.480	32	16	16	64
20	0.815	38	20	20	76
22	1.285	44	22	22	85
25	1.866	53	25	24	95



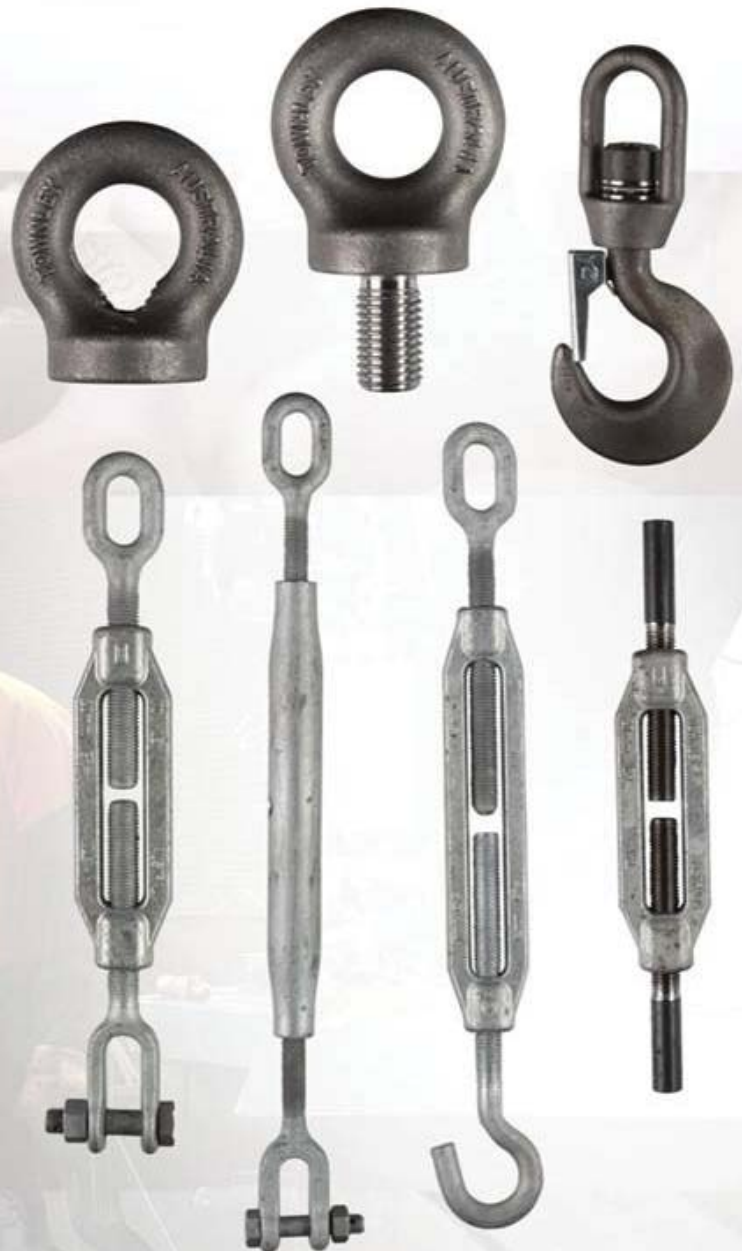
# TOWNLEY

FORGING AUSTRALIAN QUALITY



## QUALITY, TESTING AND CERTIFICATION

Townley Manufactures exclusively from Australian certified steels under a Quality Management System in accordance to ISO/NZS ISO 9001. With a NATA registered testing laboratory to ISO/IEC 17025, Townley offers an extensive range of testing services including Proof Load Testing, Destruction Testing, Non Destructive Magnetic Particle, X-Ray and Ultrasonics. Test reports and certificates are issued in either Hard copy or Electronic format.



### **COLLARED LIFTING EYEBOLTS** AS2317-1998

Metric, BSW & UNC Thread Forms.  
Other Thread Forms & Thread lengths available on request.  
Optional Surface Finish Black/Shot Blast, Galvanised, Zinc Plated

### **EYENUTS**

Metric, BSW & UNC Thread Forms  
Other Thread Forms available on request  
Optional Surface Finish Black/Shot Blast, Galvanised, Zinc Plated

### **TURNBUCKLES** AS2319-2001

Metric Turnbuckle range from M10-M33  
Imperial Turnbuckle range from 1.1/4" - 1.1/2"  
Full range of end fittings including Elongated Eyes & Clevis (Jaw)  
Available in Grades L, P & S.  
Surface Finish - Galvanised. Testing & Certification available.

### **RIGGING SCREWS** AS2319-2001

Metric Rigging Screw range from M10 - M33  
Imperial Rigging Screw range from 1.1/4" - 2.1/2"  
Full range of end fittings including Elongated Eyes & Clevis (Jaw)  
Available in Grades L, P & S.  
Surface Finish - Galvanised. Testing & Certification available.

### **STUB & STUB, HOOK & EYE TURNBUCKLES**

Metric Hook, Eye & Stub combination available in M10 - M24  
Imperial Stub & Stub available in 1.1/4" - 1.1/2"

## EYEBOLTS AND EYENUTS

# TOWNLEY

FORGING AUSTRALIAN QUALITY



**Collared Lifting Eyebolts:** Standard shot blasted finish. Optional finishes available on request. Metric, BSW and UNC thread forms. Special thread forms available on request. AS2317.

Metric threads	M10	M12	M16	M20	M22	M24	M30	M33	M36	M42	M48	M56	M64	M76
BSW & UNC	3/8"	1/2"	5/8"	3/4"	7/8"	1"	1.1/8"	1.1/4"	1.1/2"	1.3/4"	2"	2.1/4"	2.1/2"	3"
Eye diameter (mm)	14	19	24	29	33	38	48	48	55	66	72	95	95	106



**Forged Eyenuts:** Standard shot blasted finish. Optional finishes available on request. Metric and BSW thread forms.

Metric threads	M10	M12	M16	M20	M22	M24	M30	M33	M36	M42	M48	M56	M64	M76
BSW & UNC	3/8"	1/2"	5/8"	3/4"	7/8"	1"	1.1/8"	1.1/4"	1.1/2"	1.3/4"	2"	2.1/4"	2.1/2"	3"
Eye diameter (mm)	24	24	28	32	33	38	48	48	55	66	72	95	95	106



**I.S. Range Collared:** DIN 580 specification. Surface finish is silver zinc plating.

Metric threads	M8	M10	M12	M16	M20	M22	M24
Eye diameter (mm)	20	25	30	35	40	50	50



**I.S. Range Collared:** DIN 580 specification. Surface finish is silver zinc plating.

Metric threads	M8	M10	M12	M16	M20	M22	M24
Eye diameter (mm)	20	25	30	35	40	50	50



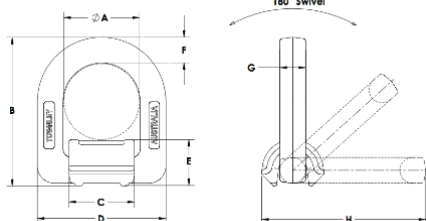
**Longshank Eyebolts:** Standard shot blasted finish. Optional finishes available on request. Metric and BSW thread forms.

Metric threads	M10	M12	M16	M20	M22	M24	M30	M33	M36	M42	M48	M56	M64	M76
BSW & UNC	3/8"	1/2"	5/8"	3/4"	7/8"	1"	1.1/8"	1.1/4"	1.1/2"	1.3/4"	2"	2.1/4"	2.1/2"	3"
Eye diameter (mm)	24	24	28	32	33	38	48	48	55	66	72	95	95	106



**Weld on Load Rings:** Multi-directional loading. Made in Australia.

WLL (t)	A mm	B mm	C mm	D mm	E mm	F mm	G mm	H mm	Part Number
2.0	40	82	34	68	28	14	14	92	TWLP200
4.0	53	104	46	90	33	18	18	116	TWLP400
6.7	68	138	60	116	45	23	23	155	TWLP670
10.0	68	141	60	132	56	27	27	175	TWLP1000
16.0	102	210	92	192	70	38	30	240	TWLP1600



## TURNBUCKLES AND RIGGING SCREWS

**Clevis and Clevis****Turnbuckles, Grades**

**L, P and S:** Certified to AS2319:2001. Made in Australia. Supplied tested and with full certification.

Nominal Size	Dimensions		Working Load Limits (WLL) t		
	Open (mm)	Closed (mm)	L	P	S
M10	350	240	0.30	0.60	0.80
M12	470	335	0.50	1.00	1.20
M16	490	355	0.75	1.60	2.00
M20	520	440	1.25	2.50	3.20
M24	585	450	2.50	4.00	5.00
M33	780	630	n/a	8.00	10.00
1 1/4"	670	520	5.00	n/a	n/a
1 1/2"	740	550	6.00	n/a	n/a

**Eye and Eye Turnbuckles,****Grades L, P and S:** Certified

to AS2319:2001. Made in Australia. Supplied tested and with full certification.

Nominal Size	Dimensions		Working Load Limits (WLL) t		
	Open (mm)	Closed (mm)	L	P	S
M10	335	230	0.30	0.60	0.80
M12	470	330	0.50	1.00	1.20
M16	485	350	0.75	1.60	2.00
M20	515	385	1.25	2.50	3.20
M24	570	440	2.50	4.00	5.00
M33	806	656	n/a	8.00	10.00
1 1/4"	720	570	5.00	n/a	n/a
1 1/2"	740	600	6.00	n/a	n/a

**Clevis and Eye****Turnbuckles, Grades**

**L, P and S:** Certified to AS2319:2001. Made in Australia. Supplied tested and with full certification.

Nominal Size	Dimensions		Working Load Limits (WLL) t		
	Open (mm)	Closed (mm)	L	P	S
M10	340	235	0.30	0.60	0.80
M12	470	330	0.50	1.00	1.20
M16	490	355	0.75	1.60	2.00
M20	520	390	1.25	2.50	3.20
M24	580	445	2.50	4.00	5.00
M33	793	643	n/a	8.00	10.00
1 1/4"	690	525	5.00	n/a	n/a
1 1/2"	740	570	6.00	n/a	n/a

**Clevis & Clevis Rigging****Screws - Grades L, P & S.**

Certified to AS2319:2001. Made in Australia. Supplied tested and with full certification.

Nominal Size	Dimensions		Working Load Limits (WLL) t		
	Open (mm)	Closed (mm)	L	P	S
M10	395	265	0.30	0.60	0.80
M12	525	340	0.50	1.00	1.20
M16	535	360	0.75	1.60	2.00
M20	555	390	1.25	2.50	3.20
M24	740	555	2.50	4.00	5.00
M33	904	628	5.00	8.00	10.00
1 1/4"	830	610	5.00	8.00	10.00
1 1/2"	890	660	6.00	10.00	12.00
1 3/4"	920	690	7.50	12.00	16.00
2"	997	762	10.00	16.00	20.00
2 1/4"	1029	819	15.00	20.00	28.00
2 1/2"	1035	838	20.00	28.00	36.00

**Eye & Eye Rigging Screws****- Grades L, P & S.** Certified

to AS2319:2001. Made in Australia. Supplied tested and with full certification.

Nominal Size	Dimensions		Working Load Limits (WLL) t		
	Open (mm)	Closed (mm)	L	P	S
M10	380	260	0.30	0.60	0.80
M12	520	340	0.50	1.00	1.20
M16	525	350	0.75	1.60	2.00
M20	545	380	1.25	2.50	3.20
M24	725	540	2.50	4.00	5.00
M33	936	660	5.00	8.00	10.00
1 1/4"	837	590	5.00	8.00	10.00
1 1/2"	927	648	6.00	10.00	12.00
1 3/4"	946	686	7.50	12.00	16.00
2"	965	717	10.00	16.00	20.00
2 1/4"	1016	813	15.00	20.00	28.00
2 1/2"	1016	813	20.00	28.00	36.00

**Clevis & Eye Rigging****Screws - Grades L, P & S.**

Certified to AS2319:2001. Made in Australia. Supplied tested and with full certification.

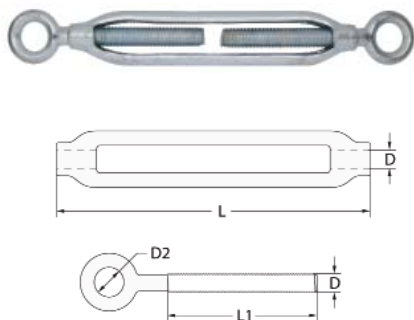
Nominal Size	Dimensions		Working Load Limits (WLL) t		
	Open (mm)	Closed (mm)	L	P	S
M10	385	260	0.30	0.60	0.80
M12	525	335	0.50	1.00	1.20
M16	535	355	0.75	1.60	2.00
M20	550	385	1.25	2.50	3.20
M24	735	555	2.50	4.00	5.00
M33	920	644	5.00	8.00	10.00
1 1/4"	876	603	5.00	8.00	10.00
1 1/2"	952	673	6.00	10.00	12.00
1 3/4"	959	705	7.50	12.00	16.00
2"	978	743	10.00	16.00	20.00
2 1/4"	1029	813	15.00	20.00	28.00
2 1/2"	1029	826	20.00	28.00	36.00



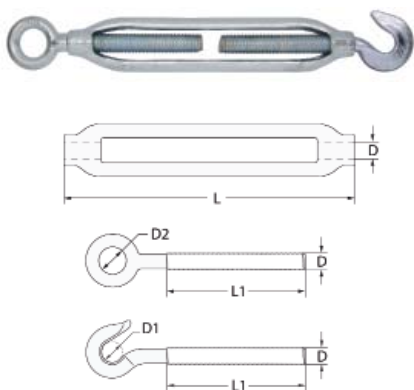
## COMMERCIAL TURNBUCKLES

## Eye-Eye Turnbuckle - NOT SUITABLE FOR LIFTING APPLICATIONS

- Hook or eye end fittings for light duty tensioning of wire rope assemblies
- Sizes available are from 5mm - 25mm
- Zinc plated finish



SIZE mm	WEIGHT/unit KG	L	DIMENSIONS mm		
			L1	D	D2
6	0.067	80	35	6	9
8	0.13	105	50	8	11
10	0.23	130	62	10	16
12	0.35	140	65	12	18
16	0.90	178	88	16	24
20	1.43	215	110	20	28
22	2.10	240	120	22	32
25	2.62	255	135	25	36



## Hook-Eye Turnbuckle - NOT SUITABLE FOR LIFTING APPLICATIONS

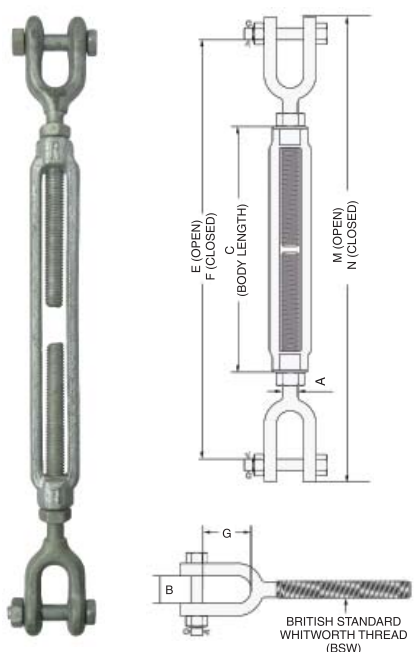
SIZE mm	WEIGHT/unit KG	D	D1	DIMENSIONS mm		L	L1
				D2			
6	0.052	6	8	9		80	35
8	0.098	8	10	11		105	50
10	0.226	10	16	16		130	62
12	0.338	12	18	18		140	65
16	0.898	16	24	24		178	88
20	1.595	20	28	28		215	110
22	2.18	22	32	32		240	120
25	2.8	25	36	36		255	135

## RATED TURNBUCKLE

## Jaw-Jaw Turnbuckle - SUITABLE FOR LIFTING APPLICATIONS

Generally used for straight or in line tensioning in conjunction with wire rope and chain assemblies when heavy duty straining and lifting applications are required.

- Manufactured from high tensile material quenched and tempered hot dipped galvanized finish suitable for outdoors.
- Available in imperial sizing and jaw end fittings.
- Meets the design requirements of US Federal Specifications.
- Proof tested to 2 x WLL and Minimum Break Force is 5 x WLL.
- Test certificates available upon request.



SIZE in.	WLL T	WEIGHT/unit KG	A	B	C	DIMENSIONS mm		G	M	N
						E	F			
3/8	0.54	0.37	9.65	12.7	152	410	258	22.1	441	289
1/2	1	0.71	12.7	16	152	470	292	26.9	508	330
5/8	1.59	1.56	16	19	229	662	401	33.3	715	454
3/4	2.36	2.98	19.1	23.4	305	851	508	38.1	917	574
7/8	3.27	3.71	22.4	28.7	305	892	543	44.5	967	618
1	4.54	5.53	25.4	30	305	933	577	52.5	1018	662
1 1/4	6.89	9.36	31.8	44.5	305	1012	644	71.5	1119	750
1 1/2	9.71	13.9	38.1	52	305	1054	673	71.5	1181	800
1 3/4	12.7	24.5	44.5	60	457	1356	899	86	1503	1046
2	16.8	42.8	51	63.5	610	1766	1157	93.5	1949	1339
2 1/2	27.2	75	63.5	73	610	1854	1244	113	2087	1478

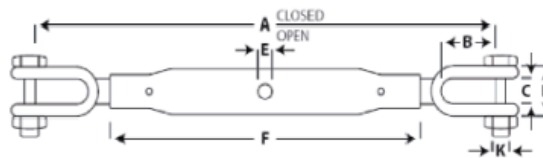


## RIGGING SCREWS

Rigging Screws are used to provide a means for length adjustment and tensioning. They are used with guys for masts, towers, tall structures and engineering applications. Their elongated eye or clevis end fittings allow easy connection to shackles and wire rope assemblies. The enclosed section of the body provides a reservoir for lubricant to protect the threads from corrosion, making them ideal for permanent outdoor use or in a marine environment.

**Rigging Screw Clevis & Clevis**

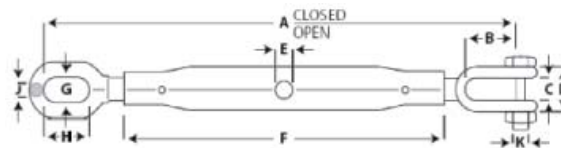
Metric - Grades L, P & S  
(Units shown in mm)



NOMINAL SIZE	A CLOSED	A OPEN	B	C	D	E	F	K	Grade L WLL (t)	Grade P WLL (t)	Grade S WLL (t)
M10	265	395	30	14	30	8.5	180	10	0.30	0.60	0.80
M12	340	525	36	15	35	8.5	230	10	0.50	1.0	1.2
M16	360	535	45	20	40	9.0	230	12	0.75	1.6	2.0
M20	390	555	55	22	46	10.5	230	16	1.25	2.5	3.2
M24	555	740	59	30	58	13.0	360	20	2.50	4.0	5.0
M33	628	904	80	38	75	14.0	380	24	5.0	8.0	10.0

**Rigging Screw Clevis & Eye**

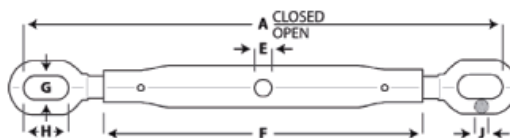
Metric - Grades L, P & S  
(Units shown in mm)



NOMINAL SIZE	A CLOSED	A OPEN	B	C	D	E	F	G	H	J	K	Grade L WLL (t)	Grade P WLL (t)	Grade S WLL (t)
M10	260	385	30	14	30	8.5	180	11	21	7	10	0.30	0.60	0.80
M12	335	525	36	15	35	8.5	230	14	30	9	10	0.50	1.0	1.2
M16	355	535	45	20	40	9.0	230	17	36	12	12	0.75	1.6	2.0
M20	385	550	55	22	46	10.5	230	21	42	14	16	1.25	2.5	3.2
M24	555	735	59	30	58	13.0	360	25	51	17	20	2.50	4.0	5.0
M33	644	920	80	38	75	14.0	380	33	70	24	24	5.0	8.0	10.0

**Rigging Screw Eye & Eye**

Metric - Grades L, P & S  
(Units shown in mm)



NOMINAL SIZE	A CLOSED	A OPEN	E	F	G	H	J	Grade L WLL (t)	Grade P WLL (t)	Grade S WLL (t)
M10	265	395	8.5	180	12	10	7	0.30	0.60	0.80
M12	340	525	8.5	230	15	10	9	0.50	1.0	1.2
M16	360	535	9.0	230	17	12	12	0.75	1.6	2.0
M20	390	555	10.5	230	21	16	12	1.25	2.5	3.2
M24	555	740	13.0	360	25	20	17	2.50	4.0	5.0
M33	628	904	14.0	380	33	24	24	5.0	8.0	10.0

## COMMERCIAL CHAIN

### Regular proof coil galvanised chain

Proof Coil Chain is manufactured from low carbon steel and is commonly used for agricultural, industrial, manufacturing, marine and general engineering applications

- Available packed in 50kg pails, 500kg drums or cut lengths.
- Chain is available in self colour, hot dip galvanised and zinc finish.

NOT SUITABLE FOR LIFTING APPLICATIONS.

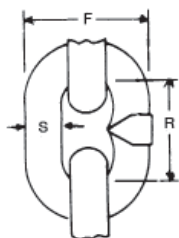


SIZE mm	50KG PAIL PACK	500KG DRUM	DIMENSIONS		
	LENGTH mtr	LENGTH mtr	B mm	C mm	D mm
3	249	2490	13.1	15.7	3
4	153	1525	16	18.6	3.8
5	96.5	965	19.4	22	4.75
6	60	600	23.5	26	6
8	37	370	29.5	32	7.6
10	23.5	235	36	39	9.5
13	13.8	138	46	49	12
16	9	91	56	60	16
20	- -	60	71	73.3	20
24	- -	42	84.8	87	24



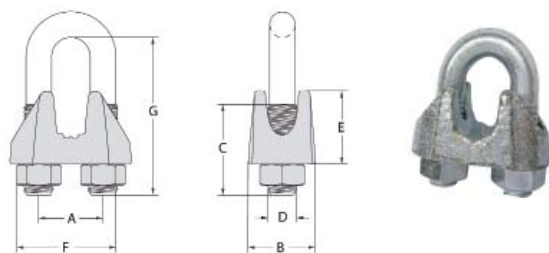
## GRADE L ANCHOR CHAIN

Manufactured in a short link configuration meeting the requirements of Australian Standard AS2321, Grade L Chain is the highest quality lower tensile steel available for lifting purposes and recommended for most marine and mooring applications.



Chain Size mm	WLL tonnes	S mm	R mm	F mm	Self-colour metres/100kg	Galvanised metres/100kg
6	0.40	6.3	18.8	21.6	116.0	110.0
8	0.64	8.0	23.8	27.0	71.4	67.8
10	1.00	10.0	29.8	34.3	45.5	43.2
13	1.70	12.7	38.0	43.0	29.6	27.8
16	2.58	16.0	47.8	54.9	17.8	17.5
20	4.03	20.0	59.2	68.5	11.3	11.1
22	5.06	22.0	64.9	77.0	9.5	9.2



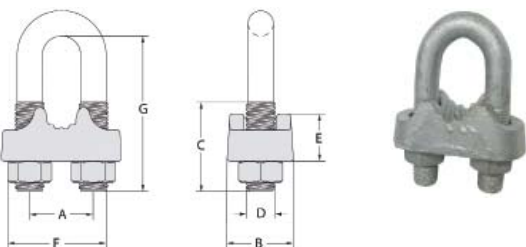


### HEAVY DUTY COMMERCIAL WIRE ROPE GRIPS

- Sizes available are from 3mm - 25mm
- Zinc plated finish on both U-bolt and saddle
- Tolerances may vary for commercial products

**NOT SUITABLE FOR LIFTING PURPOSES**

PRODUCT CODE	SIZE		WEIGHT/unit KG	DIMENSIONS mm						
	in	mm		A	B	C	D (in.)	E	F	G
WRGC003	1/8	3	0.017	11	14	14	3/16	10.8	22	20
WRGC004	3/16	4-5	0.03	14.5	15	16.5	1/4	13	26	24
WRGC006	1/4	6	0.053	17	18.5	20	5/16	15	32	31.5
WRGC008	5/16	8	0.06	18.3	20	22	5/16	16	35	34
WRGC010	3/8	10	0.103	22.5	22	27	3/8	22	40.5	41.8
WRGC013	1/2	12	0.21	27	26	33	7/16	23.3	49	51
WRGC014	9/16	14	0.23	30	27.5	35	1/2	26	54	54
WRGC016	5/8	16	0.25	32.5	28.5	40	1/2	28	57.5	59
WRGC020	3/4	20	0.37	34.5	30	42	9/16	32	59.5	68.5
WRGC022	7/8	22	0.5	41	35	46	5/8	37	69	78
WRGC025	1	25	0.6	45.5	38	55	5/8	41	75	87.5



### AUSTRALIAN STANDARD WIRE ROPE GRIPS

- Sizes available are from 6mm - 52mm
- Hot dipped galvanized finish on both U-bolt and saddle
- Tolerances may vary for commercial products
- Conforms to AS2076 and are marked with AS and size

**NOT SUITABLE FOR LIFTING PURPOSES**

PRODUCT CODE	SIZE mm	WEIGHT/unit KG	DIMENSIONS mm						
			A	B	C	D (in)	E	F	G
WRG06AS	6	0.04	14	15	20	M6	12	28	26
WRG08AS	8	0.069	18	19	22	M8	14	34	32
WRG10AS	10	0.12	20	23	27	M10	17	42	40
WRG12AS	12	0.132	22.3	28	32	M10	20	50	48
WRG14AS	14	0.223	27	32	38	M12	22	52	52
WRG16AS	16	0.351	31	32	41	M14	26	66	64
WRG18AS	18	0.488	35	38	47	M16	27	68	68
WRG20AS	20	0.98	43	46	58	M20	36	89	88
WRG22AS	22	1.123	40	46	61	M20	32	72	92
WRG26AS	26	1.425	50	50	66	M22	38	90	96
WRG28AS	28	1.56	52	50	70	M22	39	92	104
WRG32AS	32	1.9	56	55	75	M24	41	112	120
WRG38AS	38	2.1	64	55	78	M24	48	120	122
WRG44AS	44	3.0	73	62	90	M27	52	135	150
WRG52AS	52	4.2	85	69	103	M30	56	154	185

## LOCKABLE GRIPPLES

### New, innovative, lockable system for securing wire ropes - quickly.

The Lockable Gripple now makes catenary and bracing wire rope installation easier and faster. The Lockable Gripple is designed to secure the ends of wire ropes by simply pushing them through the Gripple in one continuous loop. Hands free, the integral locking screws can be tightened to ensure total security under dynamic load conditions.



#### Easy to use - faster to fit!

- Simple push-fit assembly
- Hands-free adjustment
- Automatic locking wedges
- Easy tensioning
- Secure locking screws

#### Applications:

- Overhead catenary wires
- Carnival and promenade lighting
- Exhibition hall displays
- Extraction duct bracing
- Aerial bracing
- Marquee bracing
- Shade cloth bracing
- Tree bracing



Self-Locking Wire Rope Grip Model mm	Working Range and Load Limit	Gripple Minimum Breaking Load kg	Working Range mm
2.00	10-80	400	1.5-2.5
3.00	80-200	1000	2.5-4.0
5.00	200-400	2000	4.0-5.5
6.00	400-545	2725	5.5-7.0
8.00	545-1280	6400	7.0-8.5
10.00	545-1280	6400	8.5-10.0
11.00	1280-1820	9100	10.0-11.5
13.00 / 1/2in.	1280-1820	9100	11.5-13.0

The unique locking screw design combats the effects of wind-gallop a typical feature of outside applications.

Once the wire rope length and tension have been set, tightening the lock screws firmly secures the internal locking wedges immovably in place.

As well as preventing wear this feature allows the product to be used on both steel and fibre core wire rope constructions.

#### 4 simple steps to secure in seconds







HAND LOAD BRAKE	
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# WINCHES



# GLOBAL LIFTING

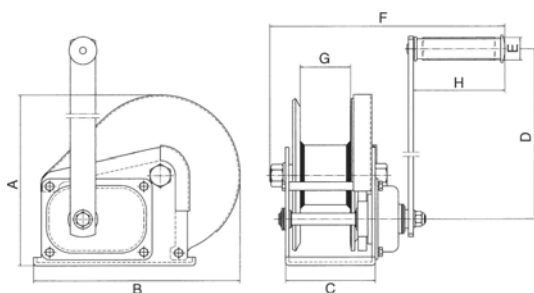
## GROUP

**IF YOU CAN'T FIND WHAT YOU'RE LOOKING  
FOR, CALL OUR SALES TEAM & IF WE  
DON'T HAVE IT, WE'LL GET IT FOR YOU!**

## OZ BLOK LOAD BRAKE WINCHES

- Compact design
- Stainless steel construction Grade 304
- Automatic braking system - no free wheeling under load
- Fully enclosed gear train
- Suitable for marine environments
- Minimum handle effort to lift or pull WLL (Working Load Limit)
- Convenient fixing points in base
- Easy attachment of wire rope

COMPLIES WITH AS 1418.2



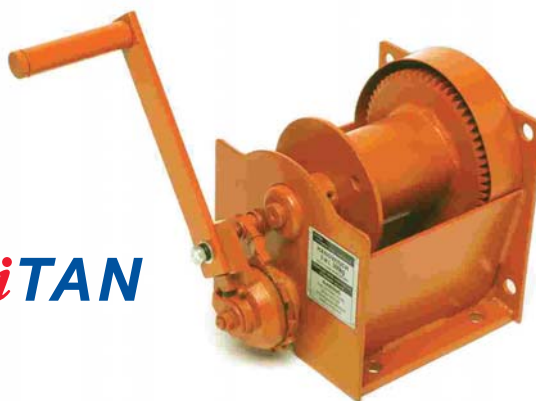
Model		OSSBW545	OSSBW820	OSSBW1200
W.L.L.	Lifting	270	410	600
	Pulling	545	820	1200
Test Load		800	1230	1800
Gear Ratio		4.2:1	5:1	10:1
Dimensions	A	156	203	216
	B	184	256	293
	C	88	107	127
	D	210	319	319
	E	27	27	27
	F	272	283	305
	G	51	60	63
	H	109	109	109
Net weight		3.7	7.7	10.1
Volume		16 x 16 x 22	35 x 20 x 23	35 x 24 x 24

## TITAN LOAD BRAKE WINCHES

- Compact design
- Suits a wide range of lifting purposes
- Use in vertical or horizontal position  
Wall or floor mounted
- Load brake automatically suspends the load when handle winding ceases

COMPLIES WITH AS 1418.2

**Ti**TAN



Capacity tonnes	Drum Dia. mm	Max. Rope Capacity	Handle Turns to Lift 1m	Brake Type	Handle Length mm	Effort to Lift Rates Load kg	Weight kg
0.5	102	27.5m x 8mm W/R	21.5	Automatic braking system No free wheeling under load.	305	16	23
1	140	40m x 13mm W/R	53	Automatic braking system No free wheeling under load.	235	16	45



# Jarrett

## JARRETT HAND WINCHES

- Suitable for lowering or pulling within the rated capacity of the winch
- All components suitably coated for corrosive protection
- Australian designed, 12 month warranty, meets Australian design standards
- Machined gears, steel bushes
- Heavy duty 4mm winch body
- Full range of spare parts available



**Model. F10212**  
**Hand Winch**

3:1 Ratio  
Line Pull Capacity: 500kg

Gear Ratio	3:1
Application	Pulling
Rated capacity	500kg (4900N)
Max. cable capacity	20m x 4mm
Max. effort on handle at rated load	20kg
Cable (as supplied)	6m x 4mm galv



**Model. F10217**  
**Hand Winch**

5:1 / 1:1 (two ratio)  
Line pull capacity: 700kg

Gear Ratio	5:1 / 1:1
Application	Pulling
Rated capacity	700kg (6860N)
Max. cable capacity	15m x 5mm
Max. effort on handle at rated load	25kg
Cable (as supplied)	6m x 5mm galv



**Model. F10204**  
**Hand Winch**

5:1 Ratio  
Line Pull Capacity: 700kg

Gear Ratio	5:1
Application	Pulling
Rated capacity	700kg (6860N)
Max. web capacity	9m
Max. effort on handle at rated load	25kg
Web (as supplied)	6m



**Model. F10950**  
**Hand Winch**

10:1 / 5:1 / 1:1 (three ratio)  
Line pull capacity: 800KG

Gear Ratio	10:1 / 5:1 / 1:1
Application	Pulling
Rated capacity	800kg
Max. cable capacity	15m x 5mm
Max. effort on handle at rated load	18kg
Cable (as supplied)	7.5m x 5mm galv



**Model. F10952**  
**Hand Winch**

10:1 / 5:1 / 1:1 (three ratio)  
Line pull capacity: 800kg

Gear Ratio	10:1 / 5:1 / 1:1
Application	Pulling
Rated capacity	800kg
Max. web capacity	9m
Max. effort on handle at rated load	18kg
Web (as supplied)	7.5m



**Part No. - COVER**  
**Plastic Winch Cover**

Available separately



# Jarrett

## JARRETT LOAD BRAKE WINCHES

- Suitable for lifting, lowering or pulling within the rated capacity of the winch
- All components suitably coated for corrosive protection
- Self actuating brake mechanism
- Removable handle
- Australian designed, 12 month warranty, meets Australian design standards
- Machined gears, steel bushes
- Heavy duty 4mm winch body
- Full range of spare parts available



**Model. F18210**  
**Brake Hand Winch**  
3:1 Ratio  
Lift Capacity: 200kg

Gear Ratio	3:1
Application	Lifting
Rated capacity	200kg (1960N)
Max. cable capacity	15m x 5mm
Max. effort on handle at rated load	22.8kg
Cable (as supplied)	7.5m x 5mm gal



**Model. F18230**  
**Brake Hand Winch**  
5:1 Ratio  
Lift Capacity: 300kg

Gear Ratio	5:1
Application	Lifting
Rated capacity	300kg (2940N)
Max. cable capacity	15m x 5mm
Max. effort on handle at rated load	26kg
Cable (as supplied)	7.5m x 5mm gal



**Model. F18260**  
**Brake Hand Winch**  
10:1 Ratio  
Lift Capacity: 500kg

Gear Ratio	10:1
Application	Lifting
Rated capacity	500kg (4900N)
Max. cable capacity	12m x 6mm
Max. effort on handle at rated load	18kg
Cable (as supplied)	7.5m x 6mm gal



**Model. F11620**  
**Brake Hand Winch**  
8:1 Ratio  
Lift Capacity: 630kg

Gear Ratio	8:1
Application	Lifting
Rated capacity	630kg (6147N)
Max. cable capacity	45m x 6mm 22m x 8mm 15m x 10mm
Max. effort on handle at rated load	19kg
Cable	Not supplied

**Model. F11650**  
**Brake Hand Winch**  
15:1 Ratio  
Lift Capacity: 1250kg

Gear Ratio	15:1
Application	Lifting
Rated capacity	1250kg (12250N)
Max. cable capacity	22m x 8mm 15m x 10mm
Max. effort on handle at rated load	22kg
Cable	Not supplied

# Jarrett

## JARRETT BACKSAVER CRANES

**Don't risk your back, your equipment or your business. If it's got to be lifted, do it the easy way, with a Backsaver Crane.**

**CAPACITIES: 300kg and 500kg**

Jarrett Backsaver Cranes are general purpose stationary cranes and have many applications within industrial, engineering and mining sites. Located on the back of commercial vehicles they are suitable for loading and unloading goods. Other applications for the Jarrett Backsaver Crane include marina and agricultural environments, and small trade businesses

The Backsaver Crane has the capacity to safely, simply and effectively lift and place loads of up to 300kg and 500kg. The Backsaver is fitted with a 360 degree mechanical slewing by means of a worm drive gear. This eliminates the danger of the crane boom swinging out of control when the load is taken up. The boom can only be rotated (slewed) by operating the slewing control handle.

- Available with manual brake winch or electric winch (12 or 24 volt)
- 360 degree mechanical slewing by means of a worm drive gear
- Economical alternative to expensive hydraulic mounted cranes
- Suitable for trucks, utilities and trailers
- Suitable for industrial, marine and rural applications
- Powder coated finish standard
- Galvanised finish available (300kg only)



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100%  
AUSTRALIAN  
OWNED COMPANY

# ATLANTIC

## WINCHES



Perfect choice  
for marine  
and general  
purpose

Engineering  
tested by NATA  
accredited  
laboratory

Dacromet™  
rust resistant  
finish to all  
winches





## ATLANTIC MARINE WINCHES

## Marine Winch Series

Suitable for retrieving boats up to 20 feet in length, the the Atlantic range of Marine Winches are available in five different ratio sizes – 3:1, 5:1, 5:1/1:1, 10:1/5:1/1:1 or 15:1/5:1/1:1 – and with load capacity ratings operating from 500kg to 1500kg. Depending on the marine application, there's a number of options available including cable, webbing strap, Atlantic Rope™ or no cable options.



## 3:1 Series

- 3:1 gear ratio
- Cable, webbing or rope
- 500kg capacity
- Nata tested
- Dacromet finish
- Side cover



## 5:1 Series

- 5:1 gear ratio
- Cable, webbing or rope
- 700kg capacity
- Nata tested
- Dacromet finish
- Side cover



## 700kg Series

- 5/1:1 gear ratios
- Cable, webbing or rope
- 700kg capacity
- Nata tested
- Dacromet finish
- Side cover

Product Code	MW201R
Gear Ratio	3:1
Cable/Webbing/Rope Type	Rope
Hook Type	Snap Hook
Application	Boat Trailer
Cable/Webbing/Rope Length	6m x 4mm
Direct Lift Capacity	500kg
Unit weight	4.12kg
Ratchet Type	Pawl Lever
Drum Hub	50mm
Flange Diameter	130mm
Drum Width (ID)	50mm
Max Cable/Rope Capacity	34.5m x 4mm
Maximum Cable Load	1570kg
Maximum Cable Stress	15.4kN

Product Code	MW203R
Gear Ratio	5:1
Cable/Webbing/Rope Type	Cable
Hook Type	Snap Hook
Application	Boat Trailer
Cable/Webbing/Rope Length	6m x 5mm
Direct Lift Capacity	700kg
Unit weight	4.33kg
Ratchet Type	Pawl Lever
Drum Hub	50mm
Flange Diameter	130mm
Drum Width (ID)	50mm
Max Cable/Rope Capacity	20m x 5mm
Maximum Cable Load	1876kg
Maximum Cable Stress	17.6kN

Product Code	MW205R
Gear Ratio	5/1:1
Cable/Webbing/Rope Type	Rope
Hook Type	Snap Hook
Application	Boat Trailer
Cable/Webbing/Rope Length	7.5m x 5mm
Direct Lift Capacity	700kg
Unit weight	4.55kg
Ratchet Type	Pawl Lever
Drum Hub	50mm
Flange Diameter	130mm
Drum Width (ID)	50mm
Max Cable/Rope Capacity	20m x 5mm
Maximum Cable Load	1876kg
Maximum Cable Stress	18.4kN



## ATLANTIC MARINE WINCHES

**1000kg Series**

- 10/5/1:1 gear ratios
- Cable, webbing or rope
- 1000kg capacity
- Nata tested
- Dacromet finish
- Side cover
- Removable handle

Product Code	MW207R
Gear Ratio	10/5/1:1
Cable/Webbing/Rope Type	Rope
Hook Type	Snap Hook
Application	Boat Trailer
Cable/Webbing/Rope Length	7.5m x 6mm
Direct Lift Capacity	1000kg
Unit weight	5.15kg
Ratchet Type	Pawl Lever
Drum Hub	50mm
Flange Diameter	130mm
Drum Width (ID)	50mm
Max Cable/Rope Capacity	9.5m x 6mm
Maximum Cable Load	2509kg
Maximum Cable Stress	24.6kN

**1500kg Series**

- 15/5/1:1 gear ratio
- Cable, webbing or rope
- 1500kg capacity
- Nata tested
- Dacromet finish
- Removable handle

Product Code	MW209R
Gear Ratio	15/5/1:1
Cable/Webbing/Rope Type	Rope
Hook Type	Snap Hook
Application	Boat Trailer
Cable/Webbing/Rope Length	7.5m x 7mm
Direct Lift Capacity	1500kg
Unit weight	6.5kg
Ratchet Type	Pawl Lever
Drum Hub	50mm
Flange Diameter	130mm
Drum Width (ID)	50mm
Max Cable/Rope Capacity	10m x 7mm
Maximum Cable Load	3314kg
Maximum Cable Stress	32.5kN

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## ATLANTIC BRAKE WINCHES

### Brake Winch Series

The Atlantic range of Brake Winches are available in 3 different ratio sizes – 3:1, 5:1 and 10:1 with load capacity ratings operating from 200kg to 500kg. The range offers the option of cable, Atlantic Rope™ or no cable and are suitable for pulling or lifting. The self actuating automatic braking mechanism ensures the suspension of loads and 'jerk-free' movement when lowering a load under pressure. The carbon copper fibre brake pads also ensure that a load is always secured under braking load.



#### 200kg Series

- 3:1 gear ratio
- Cable or rope
- 200kg capacity
- Nata tested
- Dacromet finish
- ADR compliant



#### 300kg Series

- 5:1 gear ratio
- Cable or rope
- 300kg capacity
- Nata tested
- Dacromet finish
- ADR compliant



#### 500kg Series

- 10:1 gear ratios
- Cable or rope
- 500kg capacity
- Nata tested
- Dacromet finish
- ADR compliant

Product Code	BW210R
Gear Ratio	3:1
Cable/Webbing/Rope Type	Rope
Hook Type	Snap Hook
Application	Lifting
Cable/Rope Length	7.5m x 5mm
Direct Lift Capacity	200kg
Ultimate Breaking Load	1479kg
Ultimate Tensile Stress	14.5kN
Unit weight	4.98kg
Ratchet Type	Self actuating
Drum Hub	50mm
Flange Diameter	130mm
Drum Width (ID)	50mm
Max Cable/Rope Capacity	20m x 5mm
Maximum Cable Load	1876kg
Maximum Cable Stress	18.4kN

Product Code	BW230R
Gear Ratio	5:1
Cable/Rope Type	Rope
Hook Type	Snap Hook
Application	Lifting
Cable/Webbing/Rope Length	7.5m x 5mm
Direct Lift Capacity	300kg
Ultimate Breaking Load	1479kg
Ultimate Tensile Stress	14.5kN
Unit weight	4.98kg
Ratchet Type	Self actuating
Drum Hub	50mm
Flange Diameter	130mm
Drum Width (ID)	50mm
Max Cable/Rope Capacity	20m x 5mm
Maximum Cable Load	1876kg
Maximum Cable Stress	18.4kN

Product Code	BW260R
Gear Ratio	10:1
Cable/Rope Type	Rope
Hook Type	Snap Hook
Application	Lifting
Cable/Webbing/Rope Length	7.5m x 6mm
Direct Lift Capacity	500kg
Ultimate Breaking Load	1948kg
Ultimate Tensile Stress	19.1kN
Unit weight	5.35kg
Ratchet Type	Self actuating
Drum Hub	50mm
Flange Diameter	130mm
Drum Width (ID)	50mm
Max Cable/Rope Capacity	9.5m x 6mm
Maximum Cable Load	2509kg
Maximum Cable Stress	24.6kN



## ATLANTIC BRAKE WINCHES

The Atlantic range of Large Brake Winches are available in 2 different ratio sizes – 8:1 and 15:1 with load capacity ratings operating from 750kg to 1500kg. The self actuating automatic braking mechanism ensures the suspension of loads and ‘jerk-free’ movement when lowering a load under pressure. The carbon copper fibre brake pads also ensure that a load is always secured under braking load.

### Large Brake Series

- 15/8:1 gear ratio
- 700-1500kg capacity
- Nata tested
- Dacromet finish
- ADR compliant



Product Code	LBW620NC
Gear Ratio	8:1
Cable/Rope Type	N/A
Hook Type	N/A
Application	Lifting
Direct Lift Capacity	750kg
Ultimate Breaking Load	5690kg
Ultimate Tensile Stress	55.8kN
Unit weight	22.8kg
Ratchet Type	Self actuating
Drum Hub	100mm
Flange Diameter	184mm
Drum Width (ID)	134mm
Max Cable/Rope Capacity	45m x 6mm
Maximum Cable Load	22m x 8mm
Maximum Cable Stress	15m x 10mm

Product Code	LBW650NC
Gear Ratio	15:1
Cable/Rope Type	N/A
Hook Type	N/A
Application	Lifting
Direct Lift Capacity	1500kg
Ultimate Breaking Load	7036kg
Ultimate Tensile Stress	69kN
Unit weight	24kg
Ratchet Type	Self actuating
Drum Hub	100mm
Flange Diameter	184mm
Drum Width (ID)	134mm
Max Cable/Rope Capacity	45m x 6mm
Maximum Cable Load	22m x 8mm
Maximum Cable Stress	15m x 10mm

## ATLANTIC BRAKE WINCHES

### Wide Drum Brake Winch Series

The newest member of the Atlantic Winch range, this Large Brake Winches has an extra wide drum with a direct load capacity of 1800kg. The self actuating automatic braking mechanism ensures the suspension of loads and ‘jerk-free’ movement when lowering a load under pressure. The carbon copper fibre brake pads also ensure that a load is always secured under braking load.



### 1800kg Series

- 15:1 gear ratio
- 1800kg capacity
- Wide drum capacity
- Nata tested
- Dacromet finish
- ADR compliant

Product Code	LBW680NC
Gear Ratio	15:1
Cable/Webbing/Rope Type	N/A
Hook Type	N/A
Application	Lifting
Direct Lift Capacity	1800kg
Ultimate Breaking Load	N/A
Ultimate Tensile Stress	N/A
Unit weight	30kg
Ratchet Type	Self actuating
Drum Hub	100mm
Flange Diameter	245mm
Drum Width (ID)	225mm
Max Cable/Rope Capacity	125m x 6mm
Maximum Cable Load	63m x 8mm
Maximum Cable Stress	43 x 10mm

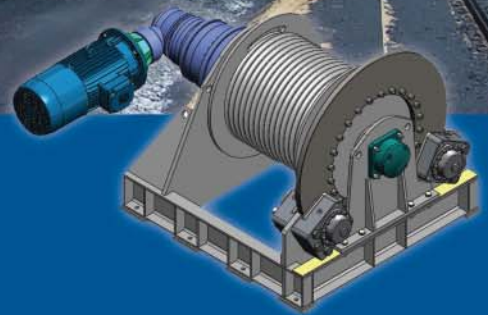


# ***HES Winches Australia***

## ***Custom Winch Solutions***

### ***Professional Advice***

### ***Outstanding Service***



HES Winches Australia works with you to develop the most efficient winch solution for your project. We draw on our expertise from long industry experience and strong relationships with the world's leading manufacturers.

Using market leading technology, we supply high quality products for the Mining and associated industries that are safe, reliable and practical. Our custom engineered winch solutions utilise local design, manufacturing and testing facilities. Plus, our local expertise is complimented by our international manufacturing partners.



HES Winches Australia guarantees to always provide professional advice and outstanding customer service.

Call us NOW to discuss your winching requirements.

**HES**  
**WINCHES**  
**AUSTRALIA**  
Quality Winch Solutions



## OZWINGH AC ELECTRIC WINCHES



Lifting capacities: from 200kg up to 2,000kg

**Standard features:**

- Pre-wired for 240v single phase with a standard 3 pin plug
- Supplied with wire rope and safety hook
- Forward and reverse pendant control
- Optional radio remote control

**Applications:**

- Boat ramps
- Workshops
- Cranes and lifting
- Building sites
- Industrial bin retrieval



Part Number	OzWinch AC Electric Winches
JV-1020-13D03	200kg 240V - 30m x 6mm low voltage pendant
JV-1020-13D05	200kg 240V - 50m x 6mm low voltage pendant
JV-1025-13D03	250kg 240V - 30m x 6mm low voltage pendant
JV-1025-13D05	250kg 240V - 50m x 6mm low voltage pendant
JV-1030-13D03	300kg 240V - 30m x 6mm low voltage pendant
JV-1030-13D05	300kg 240V - 50m x 6mm low voltage pendant
JC-1025-17D12	250kg 240V - 120m x 6mm low voltage pendant
JC-1050-16F03	500kg 240V - 30m x 8mm low voltage pendant
JC-1050-21F05	500kg 240V - 50m x 8mm low voltage pendant
PU-1070-10G05	700kg 240V - 50m x 9mm low voltage pendant
PU-1120-10I05	1200kg 240V - 50m x 12mm low voltage pendant
PU-1200-07J07	2000kg 240V - 70m x 14mm low voltage pendant
PU-3200-10J07	2000kg 415V - 70m x 14mm low voltage pendant

## HES CUSTOM WINCHES



HES Winches Australia design and manufacture specialised winch solutions for a multitude of industries. Our application and design team utilise quality components and offer a wide variety of configurations and options. Winches are engineered to meet your application requirements and applicable regulatory authorities.

**Drum configurations:**

- Drum diameters and lengths to match your application and rope storage requirements
- Drums with multiple cable anchors / sections
- Grooved drums- helical or parallel

**Motors and drives:**

- Electric, air, hydraulic or mechanical powered
- Planetary, spur, bevel helical or worm gearing
- Drives application matched to provide optimum performance and efficiency

**Options and accessories:**

- Failsafe brakes
- Ratchet and pawls
- Drum brakes
- Level winder mechanisms
- Rope tensioners
- Slack rope switches
- Rotary limit switches / encoders
- Clutches
- Motor controls
- Wire ropes
- Sheaves
- Power units



## BLUE SERIES SLIPWAY WINCH

This range of winches is manufactured in Australia assuring quality local service and prompt availability of replacement parts. The unit has an Australian manufactured CMG brand electric motor, renowned for their strength and reliability. The range boasts steel frame, steel shafting and strengthened K1045 steel machine cut gears for added strength and longer life. These features all contribute to a product range that is incredibly reliable, efficient and strong. These winches have been manufactured and sold in Australia for 25 years.

### Model AM1026B

#### FEATURES

- All steel machine cut gears
- 0.75kw 240v electric motor
- Automatic fail safe brake
- Greasable ball bearings
- Forward and reverse 3m pendant control
- 30m of 8mm dia aircraft cable
- Max winch drum storage capacity 50m of 8mm aircraft cable
- Optional remote control

#### SPECIFICATIONS

Ratio:	87:1
Average line speed:	4.6m/min.
Capacity:	3600kg on wheeled trailer up 12.5° ramp
Weight:	60kg
Dimensions:	420mm wide x 560mm long x 320mm high

Part Number	Boat Ramp & AC Electric Winches
AM1026B	1800KG BRW - Blue Series Winch
AM1026BRC	1800KG BRW - Blue Series Winch C/W Wireless Remote

Quality steel cut gears and shafts



#### QUICK GUIDE TO BLUE SERIES WINCHES

Slope Ramp Gradient	Model AM1026B
1:12) 5°	8000kg
(1:4.5) 12.5°	3600kg
(1:3.75) 15°	3000kg
(1:2) 27°	1800kg

\* Standard boat ramp angle

Note: Based on rolling load over good quality surface.

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## OZ SIGNATURE SERIES SLIPWAY WINCH

### Safe, secure and quiet

#### Model HWA3500.1

Manufactured in Australia this compact and robust winch has been designed for a variety of hauling applications, ideally suited as a slipway winch.

Driven by a worm gear transmission providing a quiet, safe, maintenance free operation coupled to a purpose built powerful 240v electric brake motor. The drum, frame and guards are fabricated in steel and zinc plated for corrosion protection.

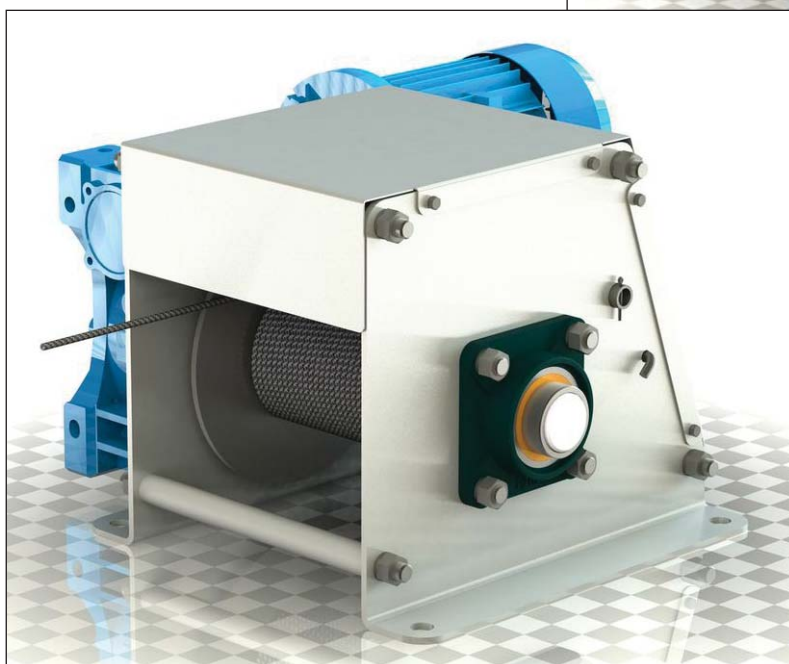
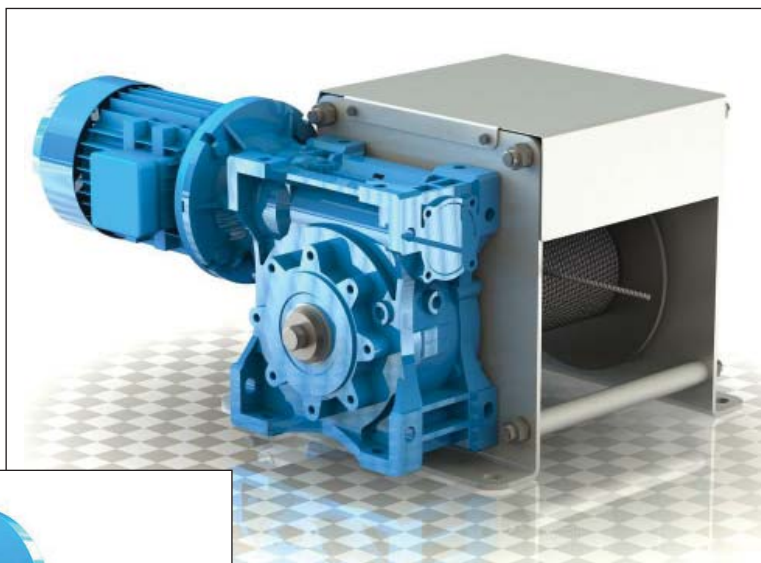
#### Features:

- All steel drum, frame and guards – zinc plated
- Worm gear reduction – sealed for life
- 1.1kW single phase 240v electric brake motor
- 10M low voltage pendant control
- Wired with 3m power lead and 3 pin plug
- Supplied with 35m of 8mm dia. aircraft cable
- Max winch drum storage capacity 70m of 8mm dia. aircraft cable
- Capacity: 1000kg line pull at 4.5m/min 1st layer
- Capability\*: Haul boat and wheeled trailer of 3500kg up 12.5 degree ramp
- Average line speed: 5.2m/min.
- Weight: 85kg

\* Based with operation on a firm, smooth surface

#### Options:

- Wireless remote control
- Rope tensioner
- Synthetic rope
- Wall mounting feet
- Three phase 415V electric brake motor





## LANTEC WINCHES

**LANTEC Winch & Gear is one of the world's leading manufacturers of customized hydraulic winches, hoists, gear reducers, brakes and clutches for the oil and gas, infrastructure and marine industries. Virtually any of our products can be customized for your particular application to ensure maximum reliability and long-lasting operation.**

### LW Series Winches

Extremely versatile, the LW Series is available in 20 sizes with line pulls from 12,000 to 300,000 lbs. Virtually any drum size can be provided to suit your specific application.

### LH Series Hoists

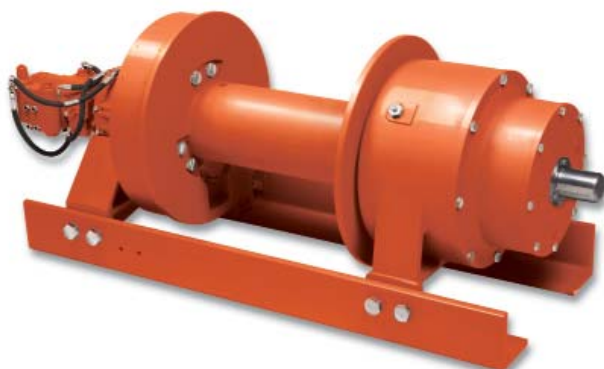
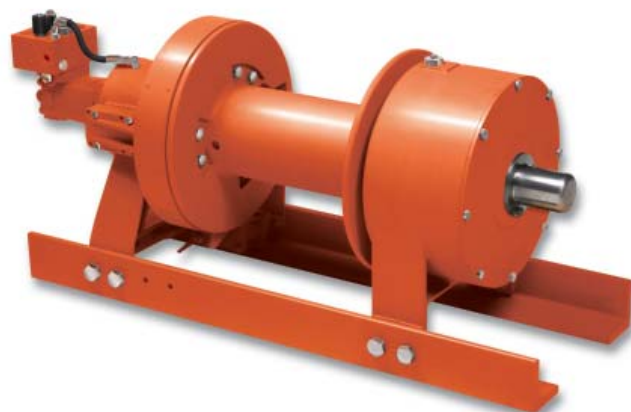
With line pulls from 15,000 to more than 72,000 lbs, LANTEC's LH Series offers 12 models for crane applications. High-efficiency gearing and high capacity sprag clutches offer the ultimate in reliability for the most demanding jobs.

### Classic Series Winches

For oil and gas, infrastructure, and other industry applications, LANTEC offers nine models with line pulls from 23,600 to 136,000 lbs. Virtually any drum size can be provided to suit your specific application.

For more detailed information please refer to:

**[www.team-twg.com](http://www.team-twg.com)**



## TULSA WINCHES

**Tulsa Winch take performance and innovation seriously – and it shows. Their hydraulic winches, hoists and swing drives are engineered to deliver the extra long life you expect, with the advanced features you need to get the job done safely.**

Tulsa Winch offers a full complement of gearing products for large oilfield trucks, heavy haul tractor packages, digger derricks, cranes and aerial work platforms for the energy and infrastructure markets. Their Rufnek and Intelliguard planetary winches are designed with the industry's latest data-capturing technology to communicate real-time information during equipment operation, so operators work safer, smarter, and more efficiently than ever.

Finally safety innovation meets superior product performance. It's time you put Tulsa Winch to work.

For more detailed information please refer to:

**[www.team-twg.com](http://www.team-twg.com)**



## DP WINCHES



**DP Winch manufactures a complete line of planetary winches, capstans and bumper packages that get the work done on utility trucks, towing and recovery vehicles, trailers, and other equipment.**

The DP Winch LINEMAN series of products is specifically designed for the Utility Industry. There are reasons more and more Utility fleet managers specify Lineman traction winches, bumper winches, capstans and accessories over other brands, safer operation by design.

Only LINEMAN equipment is designed with safety features typically offered as options on competitive products. This means added protection against operator accidents, injuries and equipment failure.

At DP Winch, safety isn't an afterthought – it's a mindset.

For more detailed information please refer to: [www.team-twg.com](http://www.team-twg.com)



## GEBUWIN WINCHES



**Founded in 1947 in the Netherlands, Gebuwin produces lifting and hoisting equipment with the emphasis on hand-driven winches.**

All Gebuwin hand-driven winches are developed and produced in-house. In addition to its standard winches, Gebuwin is also able to deliver custom-made product and has the in-depth knowledge of various production techniques to ensure optimal end results are achieved for you.

The GEBUWIN range of hand-driven worm geared winches are robustly built and meet the construction and safety standards in accordance with DIN 15020. The worm geared winches are available in different hoisting capacities. These are between 250 kg and 1500 kg calculated on the first cable layer on the cable drum. The worm geared winches are equipped with a load pressure brake. This brake holds the load at any required height during hoisting and lowering. The cranks can be adjusted in length and are recoil-free. All rotating parts run in maintenance-free bearings.

The winches are available in combined grey/black enamel paint (GR) or provided with zinc-plated surface treatment (EV), which means that rust protection is further improved.

The cable drum can be provided with a cable groove (GD) for better cable routing and storage. By dividing the cable drum into two compartments, the use of 2 cables (2D) is a standard option on all worm geared winches. Upon request, more than 2 cable compartments are possible.

Atex is a standard option for this range, suitable for Group II GD T4 for zones 2 and 22.



For more detailed information please refer to: [www.gebuwin.com](http://www.gebuwin.com)

## A.P.E. WORM GEAR WINCHES



**Capacities from 3,600kg up to 45,000kg**  
**Compact, versatile, heavy duty**

### Standard features:

- Lightweight and compact design
- Easy mounting
- Various drives available in mechanical, hydraulic and DC electric

### Applications:

- Self recovery truck and 4WD mounted
- Tilt trays, tow trucks and trailers

## CAPSTAN WINCHES



**Capacities up to 4,000kg**

### Upright capstans:

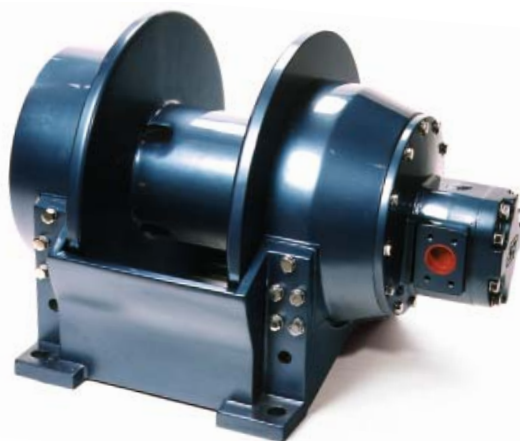
- Ideal for marine applications
- Motor and gear box enclosed for safety and weather protection
- Various capstan head sizes available

### Capstans:

- Tough units for cable pulling
- Vertical or horizontal mounting
- Electric, hydraulic or pneumatic powered
- Trailer, truck or trolley mounting

## PULLMASTER PLANETARY HYDRAULIC WINCHES

**Capacities from 500kg up to 34,000kg**



### PL & M Series:

- Equal speed in both directions
- Up to and including 34,000kg
- Automatic multi disc brake for smooth and positive control of load

### H & HL Series:

- Offers a high speed lowering function
- H series offers reversing speeds 4.5 times faster

### R Series:

- Suitable for recovery applications
- Free spooling as standard feature
- Manual clutch or hydraulic remote control

### Applications:

- Commercial fishing
- Logging and dredging
- Heavy construction
- Drilling
- Mining
- Marine construction

For more detailed information please refer to: [www.team-twg.com](http://www.team-twg.com)



## WARN WINCHES



**Warn Winches designs, manufactures and markets over 600 products for automotive, powersports, industrial and commercial users.**

These uses include a full line of off-road equipment and accessories for enhancing the performance of FWDs, ATV's and utility vehicles; electric and hydraulic winches and hoists for commercial, industrial and severe duty applications; utility winches and hoists for tradesmen and do-it-yourself consumers.

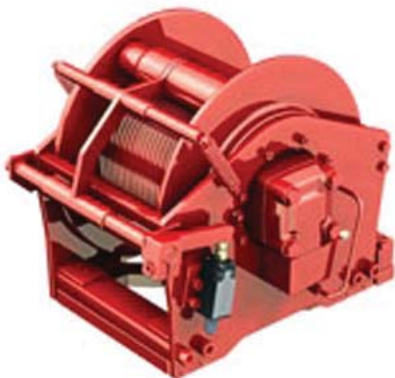
From self-recovery winches and mounting systems to wheel end and driveline disconnects, customers choose WARN products for their durability, reliability and dependability.

For more detailed information please refer to:

**[www.warn.com](http://www.warn.com)**



## DINAMIC OIL



**For more than 30 years Dinamic Oil has been designing and manufacturing a complete range of hoisting solutions with line pulls from 500kg to 35,000kg thanks to continuous research and development. The company is customer focused and expertly matches application requirements with know-how and commitment to offer flexible and high quality products.**

Dinamic Oil's diverse range of winches are the result of the hard work and dedication of its skilled employees and a corporate philosophy based on communication and market analysis, attributes that are vital to meet the requirements of each hoisting application, such as drill rigs, marine and offshore hoists, and construction cranes.

Over the years Dinamic Oil has repeatedly and successfully adapted its product to several domestic markets; the standard EU range, characterized by its highly technical design, is present all over Europe and in the Far East; the A series, designed in imperial dimensions and with special gear motors, was developed specifically for the American market; the Motor Drum range allows our customers to customize their own hoisting solution, mainly addressing German and Chinese requirements; our rotating case gearboxes, the result of decades of experience in the marine market, are highly appreciated in Northern Europe.

Dinamic Oil guarantees the safety of its products by load testing every single winch that is manufactured. In addition to our standard testing, product certificates issued by the major certifying entities (DNV, ABS) can be requested for all models.

For more detailed information please refer to: **[www.dinamicoil.it](http://www.dinamicoil.it)**



## PACIFIC 12 VOLT WINCHES

### Capacities: 1134kg to 4082kg line pull

These utility winches are ideal for a wide variety of operations such as launching boats, 4WD off-road use, on emergency vehicles and for general farm applications.

- 12V electric reversible motor (24V also available)
- Clutch disengaging system for free spooling
- Built-in mechanical safety braking device
- Tough, plastic weather resistant housing
- Remote hand control with 3m cable



Model Code		DV2500	DV3500	DV4500	DV9000
Line speed (no load)	mpm	5.0	6.5	6.5	13.4
Line pull	kg	1134	1588	2041	4082
Wire rope	ømm	4.8 x 15	5.5 x 15	6.2 x 15	8 x 30
Net weight	kg	13.5	13.9	14.2	35

## PACIFIC 12 & 24 VOLT DC WINCHES

### Capacities: 120kg to 500kg

Pacific DC Winches are ideal for installation on small trucks and utilities to eliminate the need for manual lifting.



Model Code		DH120	DH300	DH300A	DH500	DH500A
Capacity	kg	120	300	300	500	500
Motor	Volt x Watt	12 x 100	12 x 300	24 x 300	12 x 500	24 x 500
Speed	m/min	5	5	5	3	4
Rope	ømm x m	4 x 12	5 x 12	5 x 12	6.2 x 12	6.2 x 12
Weight	kg	17	27	27	27	27

**IF YOU CAN'T FIND WHAT YOU'RE LOOKING FOR, CALL OUR SALES TEAM & IF WE DON'T HAVE IT, WE'LL GET IT FOR YOU!**



## TRANSPORT & 4WD EQUIPMENT



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# TRANSPORT & 4WD EQUIPMENT



# Tractel®

## Industry leading solutions in:

- Lifting & handling
- Load measurement & control
- Suspended access
- Height safety



Proud supplier  
to the Global  
Lifting Group

## TIRFOR T 500 WIRE ROPE WINCHES



Tirfor lifting and pulling machines are lever operated hoists using a separate wire rope. One-man operated using a telescopic handle, they can work in any position and over any height of lift. They can replace conventional winches and other hoists for many applications.

**Advantages:**

- Works in any position - horizontal, vertical or angled
- Unlimited length of wire rope
- Increase the nominal capacity with multiple sheave blocks
- Fast and easy installation
- Simple to feed in or remove wire rope
- Continuous operation without snatching
- Reduced maintenance by simple cleaning and regular lubrication
- Changeover from forward to reverse operation by transferring the handle from one lever to another
- High mechanical advantage
- Safety device to prevent overloading

Model	Capacity kg	Wire Rope Diam mm	W/R Construction	Effort Forward kg	Rope Travel Reverse kg	Forward mm	Reverse mm	Unit Weight
T508D	800	8.3	K5xK19S-SFC Galv 1960 B sZ	35	12	46	63	7
T516D	1600	11.5	K4xK26WS-SFC Galv 1960 B sZ	48	18	42	57	14
T532D	3200	16.3	K6xK36WS-SFC Galv 2160 B sZ	45	25	18	36	24



## WINCH MASTER WIRE ROPE WINCHES

**Capacities : 800kg, 1600kg and 3200kg**

- Extremely versatile to safely lift, pull, lower or stretch loads over long distances.
- Can be used in horizontal, vertical or angled positions.
- Lightweight, portable and compact design.
- High strength housing made of corrosion free alloy steel plate with durable chrome finish to protect against rust.
- All internal components galvanised to minimise corrosion.
- Unique wire rope reeler for easier and safer rope storage.
- The rope gripping system is easily disengaged with a lever, allowing smooth installation of the wire rope.
- The reliable parallel gripping system has a large surface contact area providing an evenly distributed grip at a lower force, and hence less rope wear.
- Built in overload protection by a shear pin arrangement in the forward lever. Broken shear pins can be replaced without removing the load.
- Spare shear pins are conveniently placed in the end of rubber sleeve of telescopic handle for TIR08WM, and in the carrying handle for TIR16WM and TIR32WM.
- Equipped with an anchor bolt, offering numerous connection possibilities with wire ropes and chain slings.
- Swivel hooks can replace anchor bolts as required.

MODEL CODE	TIR08WM	TIR16WM	TIR32WM
Lifting Capacity (kg)	800	1600	3200
Rated Pulling Capacity (kg)	1250	2500	5000
Rope Advance per Full Stroke (mm)	60	60	40
Lever Pull at WLL (kg)	25	30	50
Rope Diameter (mm)	8.3	11	16
Standard Length of Wire Rope (m)	20	20	20
Net Weight Without Cable (kg)	7	14	23
Overall Length of Body (mm)	426	545	660
Overall Height of Body (mm)	235	280	325
Overall Width of Body (mm)	64	97	116

Model Code	WPH-08	WPH-16	WPH-32
Rated Lifting Capacity (tonnes)	0.8	1.6	3.2
Rated Pulling Capacity (tonnes)	1.3	2.6	5.2
Rope advance per full stroke cycle (mm)	>52	>55	>28
Operating effort at rated load (kg)	29	40	45
Telescopic handle length (mm)	800	1120	1120
Anchor Pin diameter (mm)	22	25	30
Net weight without rope (kg)	7.5	16	26
Diameter of wire rope (mm)	8.5	11.5	16.5
Wire rope construction	6x19S-IWRC	6x19S-IWRC	6x19S-IWRC
Standard wire rope length (m)	20	20	20
Net weight of wire rope and collector (kg)	8	14	24

## TITAN WIRE ROPE WINCHES





## LOAD CHOKER



The Load Choker is a new and exciting solution to the problem of safely restraining difficult loads such as loose packs of steel or timber. It has the ability to maintain pressure and “choke” the load to restrict movement in all directions. The use of Load Choker offers a major reduction in tie down time whilst significantly reducing OH&S risk.

Models are available to suit transport webbing or chains.

- Drop forged alloy steel for strength and durability.
- Zinc passivated finish for long service life.
- Rolled edges to maximise service life of straps.
- Huge improvement over traditional belly strap method as it creates even tension around load.
- Significantly faster unloading times, particularly with multiple deliveries.
- Far greater restraint ability in emergency situations.

## LS50 50mm STRAP MODEL



- Load Capacity: 2500kg
  - Proof tested to exceed: 5000kg
- Product Code: LS50 (webbing strap type)

**COMPLIES WITH AS/NZS 4380**



## LC08 8mm CHAIN MODEL



- Load Capacity: 4000kg
  - Proof Tested to Exceed: 8000kg
- Product Code: LC08 (transport chain type)

**COMPLIES WITH AS/NZS 4344**



## GLOBAL SYNTHETIC TOW SLING

- 6m or 10m lengths
- Light weight
- Comes complete with shackles and heavy duty storage bag

Specifications		Guide to the gross vehicle weight to be recovered		
Tow Sling Capacity	Minimum Breaking Load	Severely Bugged	Medium Bugged	Slippery Surface
8 Tonne	21 Tonne	8 Tonne	16 Tonne	32 Tonne
20 Tonne	56 Tonne	20 Tonne	40 Tonne	80 Tonne
25 Tonne	70 Tonne	25 Tonne	50 Tonne	100 Tonne
50 Tonne	140 Tonne	50 Tonne	100 Tonne	200 Tonne





## TRANSPORT CHAIN &amp; FITTINGS



Grade 70 transport chain and fittings, gold coloured.

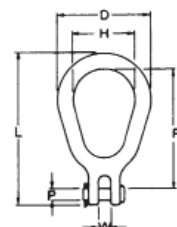
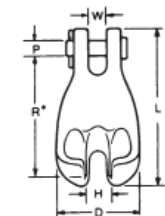
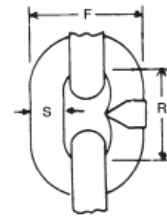
**COMPLIES WITH AS 4344**

Chain Size mm	Lashing Cap. tonnes	S mm	R mm	F mm	Links per metre	Metres per 100kg
6	2.3	6.0	18.0	22.0	55.0	116.0
8	3.8	8.0	23.8	27.0	42.0	68.9
10	6.0	10.0	29.6	34.3	33.8	45.5
13	9.0	13.0	38.0	42.5	26.3	29.6

Nom. Chain Size mm	Lashing Cap. tonnes	D mm	H mm	L mm	P mm	R mm	W mm	Weight kg
6	2.3	49	9.5	86	7.9	51	7.9	0.18
8	3.8	57	11.1	100	9.5	61	9.5	0.30
10	6.0	69	12.7	114	11.1	69	11.1	0.45
13	9.0	84	16.7	143	14.3	86	15.1	1.95

Nom. Chain Size mm	Lashing Cap. tonnes	D mm	H mm	L mm	P mm	R mm	W mm	Weight kg
8	3.8	42	9	81	9.4	60	9.5	0.3
10	6.0	52	11	101	10.3	75	11.1	0.5

Nom. Chain size mm	Lashing Cap. tonnes	D mm	H mm	L mm	P mm	R mm	W mm	Weight kg
8	3.8	83	54	140	9.5	108	9.5	0.4
10	6.0	87	54	142	12	107	12	0.5
13	9.0	100	60	200	16	158	14.5	1.5



Supplied in poly bucket or toolbox



## LOAD RESTRAINT KIT

Load restraint kits consist of 9m (effective length) x 8mm Grade 70 transport chain in zinc-dichromatic (gold) finish, complete with Grade 70 clevis cradle type grab hooks at each end, contained in a handy carry box.

**COMPLIES WITH AS/NZS 4344**

**NOT TO BE USED FOR LIFTING PURPOSES**

## RATCHET LOAD BINDERS



Ratchet Loadbinders are an effective way to restrain heavy loads in transport applications, with winged grab hooks ensuring that secure full lashing capacity is achieved.

To suite chain sizes 6,8,10 and 13 mm.

## SPANSET WEB DOG

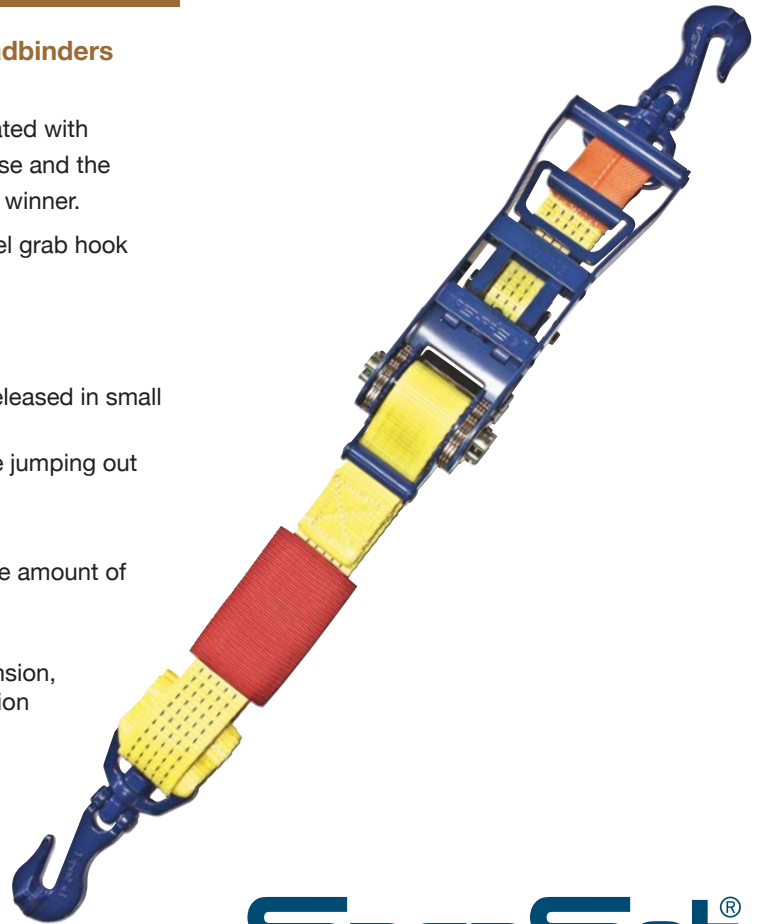
### SpanSet Web Dog - The safe alternative to loadbinders (with tension force indicator)

Web Dogs overcome the dangerous kick-back associated with loadbinders. Add the safety of ABS step-by-step release and the ability to apply pre-tension and the Web Dog is a clear winner.

50mm yellow webbing assembly fitted with 8mm swivel grab hook each end. BlueScope and OneSteel approved.

#### Features:

- Pre-tension: 1600kg, length: 1m
- Controlled release - allows pre-tension force to be released in small steps
- Self-locking ratchet handle - prevents ratchet handle jumping out
- Double latch - allows for more tension in less time
- Durable in all conditions
- Tension force indicator - allows operator to check the amount of force being applied to the load
- Extended handle for greater leverage
- Ample tension - Less than 10% stretch under full tension, meaning no unnecessary retensioning during operation
- Reverse action ratchet - maximises ergonomic efficiency



**SpanSet®**

## TRUCK WINCHES

Supplied bare or fitted with webbing straps, our truck winches exceed the demanding needs for lashing. Available in clip-on, slide-on or gate types. Replacement straps available in 9m lengths. Other sizes available upon application.



**IF YOU CAN'T FIND WHAT YOU'RE LOOKING FOR, CALL OUR SALES TEAM & IF WE DON'T HAVE IT, WE'LL GET IT FOR YOU!**

# **Ti**TAN

## LIFTING TECHNOLOGIES

All ratchet assembly units come with hook and keeper\*, wear sleeves, compliance certification and a clear plastic protective cover over the caution/lashing capacity tag.

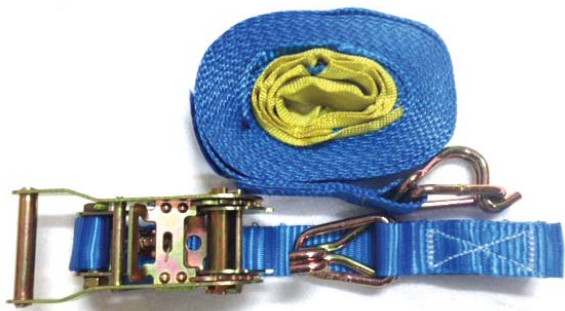
\* Does not apply to endless types

**COMPLIES WITH AS 4380**

### TITAN WEB RATCHET TIE DOWNS

CODE	Description	Webbing Colour	Size	Lashing Capacity	MBL
WRS255	Ratchet Tie Down	Blue	25mm X 5m (EL = 5.5m)	750kg	1500kg
WRS356	Ratchet Tie Down	Red	35mm X 6m (EL = 6.5m)	1500kg	3000kg
WRS509-25	Ratchet Tie Down	Blue	50mm X 9m (EL = 9.5m)	2500kg	5000kg
WRS509-25BPH	Ratchet Tie Down c/w Black Plastic Handle	Blue	50mm X 9m (EL = 9.5m)	2500kg	5000kg
WRS509-25R	Ratchet Tie Down Reverse Action	Blue	50mm X 9m (EL = 9.5m)	2500kg	5000kg
WRS5011-25	Ratchet Tie Down	Blue	50mm X 11m (EL = 11.5m)	2500kg	5000kg
WRS759-5	Ratchet Tie Down	Orange	75mm X 9m (EL = 9.5m)	5000kg	10000kg
WRS256E	Ratchet Tie Down Endless Strap	Black	25mm X 6m	750kg	3000kg
WRS506-25E	Ratchet Tie Down Endless Strap	Black	50mm X 6m	2500kg	10000kg
WRS509-5E	Ratchet Tie Down Endless Strap	Black	50mm X 9m	2500KG	10000KG

(EL) = Effective Length



RTD: LC 750kg 25mm X 5m (EL = 5.5m)



RTD: LC 1.5t 35mm X 6m (EL = 6.5m)



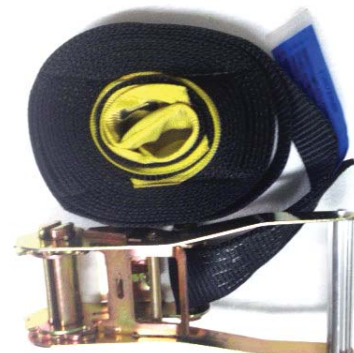
RTD: LC 2.5t 50mm X 9m (EL = 9.5m)



RTD: LC 5t 75mm X 9m (EL = 9.5m)



RTD: LC 2.5t 50mm X 9m (EL = 9.5m)  
C/w black plastic moulded grip handle



Endless Type RTD



## 4WD RECOVERY STRAPS



### Tree Trunk Protectors

To be used around the base of a tree only. Use this in conjunction with a winch extension strap. Made from hi-tenacity polyester webbing to ensure minimum stretch. Tested and proven as the most popular all rounder and biggest seller. Fully protected sewn eyes at both ends for ease of connecting.

#### Sizes:

- Standard Tree Trunk Protector - 75mm x 3 metre
- Standard Tree Trunk Protector - 75mm x 6 metre
- Heavy Duty Tree Trunk Protector - 90mm x 4 metre

Rating 8,000kg breaking load.

**COMPLIES WITH AS 1353-1**



### Snatch Straps

To be used for recovery of a bogged vehicle only. Made from hi-tenacity nylon webbing to ensure 20% stretch. Tested and proven as the most popular all rounder and biggest selling strap. Fully protected sewn eyes at both ends for ease of connecting with red line wear indicators woven into the webbing.

#### Sizes:

- Budget Snatch Strap - 50mm x 7.5 metre
- Standard Snatch Strap - 60mm x 9 metre
- Standard Snatch Strap - 60mm x 12 metre
- Standard Snatch Strap - 60mm x 15 metre
- Premium Snatch Strap - 65mm x 10 metre
- Heavy Duty Snatch Strap - 75mm x 15 metre
- Heavy Duty Snatch Strap - 75mm x 9 metre
- Extra Heavy Duty Snatch Strap - 100mm x 9 metre

Rating 8,000kg breaking load.

**COMPLIES WITH AS 1353-1**



### Winch Extension Straps

To be used only as a winch extension strap.

Use this in conjunction with your hand or electric winch.

Made from hi-tenacity polyester webbing to ensure minimum stretch.

Tested and proven as a must have for any 4WD using a winch.

Fully protected sewn eyes at both ends for ease of connecting.

#### Sizes:

- Standard Winch Extension Strap - 50mm x 10 metre - Green
- Standard Winch Extension Strap - 50mm x 20 metre - Red
- Standard Winch Extension Strap - 50mm x 30 metre - Blue

Rating 4,000kg Breaking Load.

**COMPLIES WITH AS 1353-1**

## TITAN OFF-ROAD BLOCK



Max Pulling Capacity	Diam Of Rope	Diam Of Sheave/Wheel	Carton Dimensions	N.W./ G.W.
Tonne	mm	mm	cm	kg
8	11mm	125	28 x 7 x 15	3.3 / 3.4



**BLACK RAT 4WD RECOVERY GEAR****(Snatch-Em) Recovery Strap****Minimum Breaking Strain (MBS): 9000kg**

Length: 9m x 60mm

- Versatile unit suitable for 4WD recovery, towing, tree trunk protector or extension strap.
- 100% heavy duty nylon webbing with reinforced eyes.

**NOT TO BE USED FOR LIFTING****Off-Road Block**

The Black Rat 4WD off-road block has heavy duty one-piece steel side covers for ease of use and have a gold passivated finish. The sheave is made from high grade cast iron with a precision machined groove to accept 11mm wire rope with a pressure grease lubricated bearing.

**4WD Safety Recovery Bag Kit**

Complete kit secured in a sturdy carry bag contains:

- 4WD 3.2t WLL bow shackles x 2
- 4WD 4.7t WLL bow shackle
- 4WD 9m x 50mm snatch strap (9t MBS)
- 4WD 3m x 75mm tree trunk protector
- Heavy duty 5m x 25mm ratchet tiedown assembly
- 4WD off-road block
- Mesh drying bag
- Leather safety gloves





# GLOBAL LIFTING

## GROUP

**IF YOU CAN'T FIND WHAT YOU'RE LOOKING  
FOR, CALL OUR SALES TEAM & IF WE  
DON'T HAVE IT, WE'LL GET IT FOR YOU!**





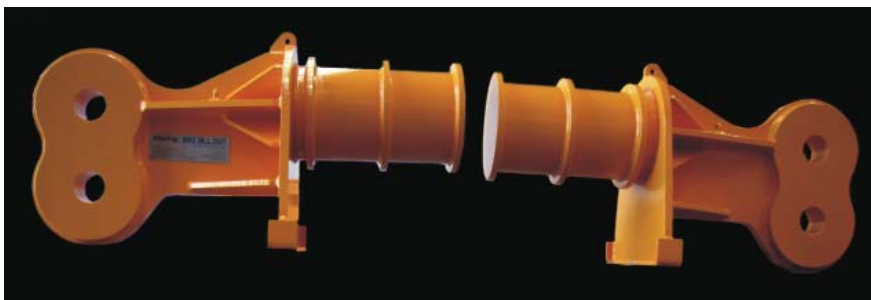
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# MATERIALS HANDLING

## MAXILUG SPREADER BAR END CAPS



Maxilug End Caps allow users to create their own custom length, medium-lift and heavy-lift spreader bars. Designed to accommodate readily available line pipe, Maxirig can supply the units as is or with various pipe lengths to facilitate lifts of varying dimensions. All Maxirig End Caps meet AS4991-2004 parent standard product assurance, are proof load tested and MPI weld inspected and are guaranteed for 1 year.



Specifications	Maxilug 25	Maxilug 50	Maxilug 80	Maxilug 145	Maxilug 250	Maxilug 400
Capacity at 60°:	25 T	50 T	80 T	145 T	250 T	400 T
Capacity at 90°:	20 T	30 T	35 T	80 T	160 T	230 T
Tare weight per pair (excl pipe or rigging):	65kg ea / 130kg	110kg ea / 220kg	175kg ea / 350kg	210kg ea / 420kg	600kg ea / 1200kg	800kg ea / 1600kg
Lifting lugs (top) suit	17 T Grade 'S' safety bow shackle	35 T Grade 'S' safety bow shackle	55 T Grade 'S' safety bow shackle	85 T Grade 'S' safety bow shackle	150 T Grade 'S' safety bow shackle	250 T Grade 'S' safety bow shackle
Load lugs (lower) suit	13 T Grade 'S' safety bow shackle	35 T Grade 'S' safety bow shackle	55 T Grade 'S' safety bow shackle	85 T Grade 'S' safety bow shackle	150 T Grade 'S' safety bow shackle	250 T Grade 'S' safety bow shackle
Intermediate pipe:	273.1mm OD x 6.4mm Wall C350LO (42.1kg/m)	273.1mm OD x 6.4mm Wall C350LO (42.1kg/m)	323.9mm OD x 9.53mm Wall C350LO (73.9kg/m)	355.6mm OD x 9.53mm Wall C350LO (81.1kg/m)	457mm OD x 12.7mm Wall C350LO (139kg/m)	508mm OD x 12.7mm Wall C350LO (155kg/m)

## MAXIRIG EQUALIZERS



When using multiple sling legs this device provides a means of equalizing forces within the legs. Connection is made via standard Grade "S" bow shackle and can be used with chain, wire rope or synthetic slings. Ideal in compensating for differences in load lift points and sling lengths.

Specifications	EQP1005	EQP1010	EQP1020	EQP1030	EQP1050	EQP1085	EQP1100
Capacity:	5 T	10 T	20 T	30 T	50 T	85 T	100 T
Tare weight per pair (excl associated rigging):	10kg	15kg	25kg	40kg	90kg	130kg	190kg
Lifting lugs (top) suit, safety bow shackle:	6.5 T Grade 'S'	12 T Grade 'S'	25 T Grade 'S'	35 T Grade 'S'	55 T Grade 'S'	85 T Grade 'S'	120 T Grade 'S'
Load lugs (lower) suit, safety bow shackle:	3.2 T Grade 'S'	6.5 T Grade 'S'	12 T Grade 'S'	17 T Grade 'S'	35 T Grade 'S'	55 T Grade 'S'	85 T Grade 'S'





### MAXIRIG TELESCOPIC COMBINATION BEAMS

- Highly versatile and ideally suited for use by mobile crane operators, each unit functions as both a spreader bar in the 60°, 90° and 120° positions as well as a lifting beam.
- Added to this is the ability to alter the length of the device to suit the lift.
- Each unit is constructed from heavy duty steel and supplied with a proof load test certificate, magnetic particle inspection report along with a certificate of conformance with the relevant Australian Standard.



MODEL	Max. WLL as SPREADER (T)			Max. WLL (T) as LIFT	LENGTH (mm)		TARE (KG)
	60°	90°	120°		OPEN	CLOSED	
TSB1015	1.5	1.5	N/A	n/a	3000	1800	25
TSB1063	6	3.5	2	n/a	3000	2000	50
TSB1065	6	6	4.5	n/a	5000	3000	105
TSB1103	10	10	7.5	2.75	3510	2310	100
TSB1106	10	10	6	n/a	6000	4000	160
TSB1204	20	16	9	3.5	4000	2650	150
TSB1206	20	14	8	2.1	6000	4000	215
TSB1304	30	22	12.5	3.1	4000	2800	200
TSB1306	30	22	12.5	2.2	6000	4000	260
TSB1504	50	30	18	6	4000	2800	260
TSB1506	50	30	18	4.2	6000	4000	360
TSB1806	80	70	40	5	6000	4000	605

### MAXIBAR MODULAR SPREADER BAR SYSTEM



- Combining high working load limits with light weight and maximum adjustability, the Maxibar range of tubular spreaders offer a lifting solution for just about any job.
- Each unit is constructed from heavy duty steel and supplied with a proof load test certificate, magnetic particle inspection report along with a certificate of conformance with the relevant Australian Standard.



MODEL	WLL at Max. LENGTH (T)			LENGTH ADJUSTMENT RANGE (mtrs)		ADJUSTMENT INCREMENT (mm)	TARE (KG)
	60°	90°	120°	Max.	Min.		
Maxibar 3	4	4	3	1.5	0.5	100	50
Maxibar 8	8	5	3	2.5	0.5	100	85
Maxibar 15	16	9	5	4	1.0	500	140
Maxibar 30	26	15	8	6	1.5	500	300
Maxibar 40	35	20	11	8	1.5	500	470
Maxibar 60	37	21	12	11	1.5	500	940
Maxibar 80	50	29	16	12	2	500	1220
Maxibar 100	93	53	31	12	2	500	1895
Maxibar 120	85	49	28	16	2	500	2915
Maxibar 145	76	44	25	20	2	500	3900
Maxibar 300	150	90	N/A	26	2	500	6600

**Each individual product manufactured by Maxirig is provided with the following:**

- Certificate of conformance to parent standard
- Proof load test certificate of secondary design verification
- Magnetic particle inspection of welding
- In the case of personal cages - each is design registered with relevant Workcover authorities
- Detailed user notes including check lists
- Manufacturers guarantees

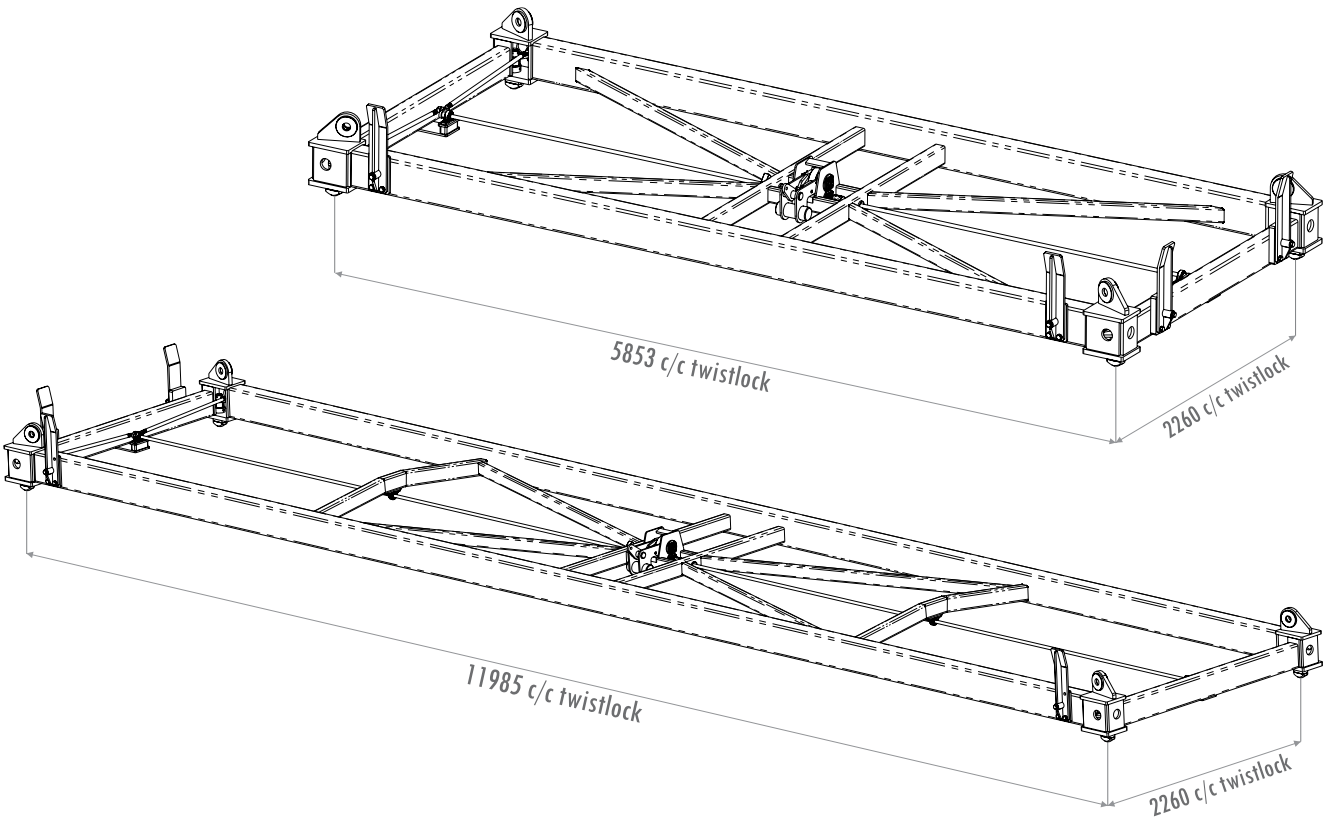




MAXIRIG 20 & 40 FT CONTAINER LIFTER

This device is for handling 20 and 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.

20 Foot Description		40 Foot Description		Product Assurance	
Work Load Limit:	25,000kg (25T)	Work Load Limit:	35,000kg (35T)	Parent Standard:	AS4991 - 2004
Tare Weight:	1,200kg	Tare Weight:	1,800kg	Proof Load Testing:	Yes
Dimensions:	5853mm (W) x 2260mm (L)	Dimensions:	2520mm (W) x 12,235mm (L)	MPI Weld Inspection:	Yes
Finish:	Powder coated safety yellow	Finish:	Powder coated safety yellow	Manufacturer's Guarantee:	1 Year



## MAXIRIG PERSONNEL CAGES

## Single person workbox with roof

This compact unit is ideal for use in situations where space is limited. The unit carries HW fixtures for attachment of safety harnesses, fully internal handrailing and the added protection of a mesh roof.

Description	
Work Load Limit:	125kg
Tare Weight:	125kg
Dimensions:	600mm x 600mm x 2300mm
Finish:	Powder coated safety yellow

Product Assurance	
Parent Standard:	AS4991 - 2004
Proof Load Testing:	Yes
MPI Weld Inspection:	Yes
Manufacturer's Guarantee:	1 Year

## Two person workbox

The most popular work cage in the Maxirig range, this unit balances capacity with a slim profile. The unit carries HW fixtures for attachment of safety harnesses and fully internal handrailing.

Description	
Work Load Limit:	250kg
Tare Weight:	250kg
Dimensions:	1200 (W) x 600(L) x 1155 (H)
Finish:	Powder coated safety yellow

Product Assurance	
Parent Standard:	AS4991 - 2004
Proof Load Testing:	Yes
MPI Weld Inspection:	Yes
Manufacturer's Guarantee:	1 Year

## Two person workbox with roof

This cages continues to offer the narrow profile of the BMC1025 but with the added protection of a roof. The unit carries HW fixtures for attachment of safety harnesses and fully internal handrailing.

Description	
Work Load Limit:	250kg
Tare Weight:	300kg
Dimensions:	1200 (W) x 750 (L) x 2300 (H)
Finish:	Powder coated safety yellow

Product Assurance	
Parent Standard:	AS4991 - 2004
Proof Load Testing:	Yes
MPI Weld Inspection:	Yes
Manufacturer's Guarantee:	1 Year

## Three person workbox

Where extra capacity is required, this unit accommodates 3 persons easily with space for tools and materials. The unit carries HW fixtures for attachment of safety harnesses and fully internal handrailing.

Description	
Work Load Limit:	350kg
Tare Weight:	350kg
Dimensions:	1200 (W) x 1200 (L) x 1155 (H)
Finish:	Powder coated safety yellow

Product Assurance	
Parent Standard:	AS4991 - 2004
Proof Load Testing:	Yes
MPI Weld Inspection:	Yes
Manufacturer's Guarantee:	1 Year

## Three person crane suspended work cage

Maintaining a slim profile, this unit is sized to accommodate three persons with sufficient space for a quantity of tools and materials. The unit carries forged Harris Walton fixtures for attachment of a safety harness and fully internal handrailing. Supplied with 2.3m dedicated multileg chain sling to suit.

Description	
Work Load Limit:	3 person / 350kg
Tare Weight:	300kg (excl shackles/rigging gear)
Dimensions:	2000 (W) x 1000 (L) x 1155 (H)
Finish:	Powder coated safety yellow

Product Assurance	
Parent Standard:	AS4991 - 2004
Proof Load Testing:	Yes
MPI Weld Inspection:	Yes
Manufacturer's Guarantee:	1 Year



## LOAD ROLLERS



- Heavy duty construction
- Complete with swivel plate
- Suitable for industrial applications
- Nylon rollers allow for easy movement and protect floors



Prod. Code	Working Load (t)	Dimensions (mm)	Weight (kg)	No. Of Wheels
EZROLLER6T	6	305x210x112	14	4
EZROLLER12T	12	510x210x112	28	8
EZROLLER18T	18	510x310x112	44	12

## STEERABLE LOAD ROLLERS

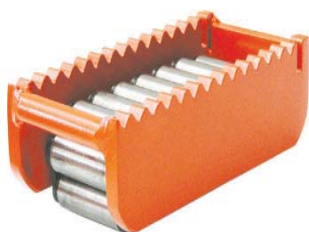


- Heavy duty construction
- Suitable for industrial applications
- Move large machinery
- Complete with handle
- Swivel plate included
- Protect painted floors



Prod. Code	Working Load (t)	Dimensions (mm)	Weight (kg)	No. Of Wheels
EZROLLER6TS	6	360x270x105	22	4
EZROLLER12TS	12	625x505x112	48	8
EZROLLER18TS	18	810x515x112	52	12

## PACIFIC LOAD SKATES



Load skates are low profile load movers designed to facilitate the moving, positioning or installation of a wide range of loads, such as heavy equipment, machinery and bridge structures. Available in 10 tonne, 30 tonne and 75 tonne capacities (per set of four).

## Features

- Compact dimensions for easy positioning and portability.
- Can be fitted with optional turntable and steering handle if required.



Model		LSK010	LSK030	LSK075
Capacity per 4	tonne	10	30	75
Unit Length	mm	188	210	290
Unit Width	mm	100	100	145
Unit Height	mm	65	65	100
Unit Track Width	mm	55	55	72
Unit Roller Diameter	mm	20	20	30
Unit No. of Rollers		14	16	14
Unit Rollers in contact		5	6	6
Unit Weight	kg	4.5	5	18
Unit Height with Turntable	mm	100	100	-
Unit Turntable Top Dia.	mm	100	100	-

Model		LSK010	LSK030	LSK075
Surface conditions		Load per set of four skates (tonnes)		
Excellent - flat, heavy duty concrete in good condition overlaid with steel. Skate lubricated.		10	30	75
Good - commercial reinforced concrete.		7	20	50
Poor - cast concrete panels, dished or dirty surface.		4	15	30





### PALLET LIFTING BARS

- Rated for lifting pallets up to 2000kg
- Complete with end hooks to keep bars separated for stability
- Made to suit a variety of pallet sizes
- Bars must be at least 900mm apart

### HAND PALLET TRUCK

#### Capacity: 2500kg

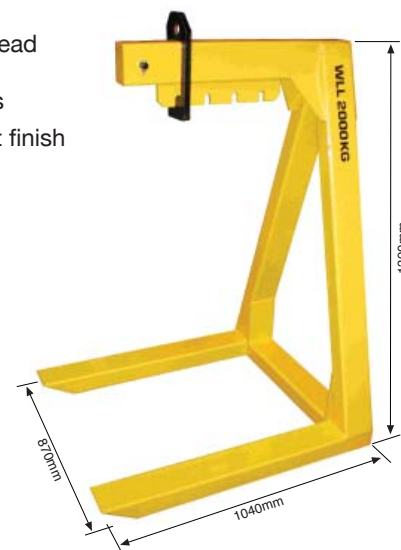
- Entry and exit rollers prevent physical exertion of the operator and protect load roller and pallet
- Totally sealed hydraulic pump with a slow lowering hand control valve
- Full adjustable push rod under forks
- 3-position control handle, grease fittings at key points



### A-FRAME PALLET LIFTING FORK

#### Capacity: 2500kg

- Simple to use overhead lifting frame to suit standard size pallets
- Durable powdercoat finish
- Supplied tested and certified



### LIFTER TROLLEY

Lifter Trolleys are the safe and versatile way to transport loads in warehouses, workshops, loading docks, hospitals, libraries, assembly lines, offices and nurseries. Raising heavy loads with the use of hydraulics, helps reduce workplace related injuries. Available in sizes from 150kg up to 800kg.

#### Features:

- Single and double scissor lift models for high reach
- Castor wheels enable easy positioning in tight spaces
- Sealed bearing wheels for durability and cleanliness
- Positive braking system on rear wheels for safety
- Overload valve ensures load limit is not exceeded
- Special hydraulic valving ensures loads lower slowly
- One-piece table-top for strength and easy cleaning
- Handle folds flat for storage on 150kg and 300kg models

Model	mm/kg	PH150F	PH300F	PH500	PH-800	PH-350H	PH-500H
Lift capacity	kg	150	300	500	800	350	500
Max height of platform	mm	750	900	970	1000	1400	1125
Min height of platform	mm	220	300	330	355	335	335
Platform size (w x l)	mm	450x700	500x800	500x900	550x1000	500x900	500x900
Overall size (w x l)	mm	450x860	550x970	550x1070	550x1230	550x1070	505x705
Wheel (ø x w)	mm	100x30	130x40	130x40	150x40	150x40	130x40
Packing weight	kg	33	73	90	118	112	91

DRUM LIFTING CLAMPS



Three designs provide safe, lifting and repositioning of (44 gallon) drums with or without lids. Available in vertical, horizontal and tong styles.

Capacity kg	Model mm	Drum Size Hole	Headroom dia.	Suspension mm	Weight kg
500	Vertical	200L	152	50	5
500	Horizontal	200L	470	50	5
500	Drum Tong	200L	520	Shackle	14

WEBBING DRUM LIFTER

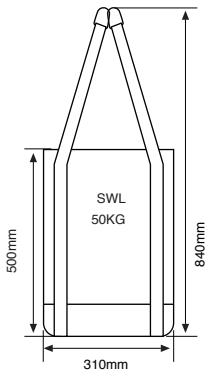


Our popular drum lifters are designed for ribbed 44 gallon drums and are an easy and safe way of handling these items.

Code	Description	WLL
DR-1	With metal head ring	500kg
DR-1-1	With metal head ring	1000kg
DR-2	With lifting eyes	500kg

CANVAS LIFTING BAG

- Heavy duty canvas construction
- Solid timber base
- Supplied with load test certificate
- Ideal for lifting scaffold clips, bolts, tools etc.



BLACK CHAIN BAG

Designed with the utmost attention to safety, convenience, and strength to assist with the containment of excess lifting chain resulting from loads being hoisted, thus preventing common hazards associated with loose chain.





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# HEIGHT SAFETY

**SPANSET 1100 ERGO****SpanSet®****Designation:** Full body harness

- Rear fall arrest D
- Front fall arrest D
- Confined space attachment loops
- Fully adjustable leg and shoulder straps
- Breathable rear mesh panel
- Hi-vis webbing
- Suspension trauma relief straps

**Suitable for:**

Fall arrest, confined space entry, roof work, ladder systems, elevated work platforms, maintenance, construction etc.

**SPANSET 1104 ERGO****SpanSet®****Designation:** Full body harness

- Rear fall arrest D
- Front fall arrest D
- Rear fall arrest extension strap
- Confined space attachment loops
- Fully adjustable leg and shoulder straps
- Breathable rear mesh panel
- Hi-vis webbing
- Suspension trauma relief straps

**Suitable for:**

Fall arrest, confined space entry, roof work, ladder systems, elevated work platforms, maintenance, construction etc.

**SPANSET 1300 ERGO****SpanSet®****Designation:** Full body harness

- Rear fall arrest D
- Front fall arrest D
- Waist band and side Ds
- Confined space attachment loops
- Fully adjustable leg and shoulder straps
- Breathable rear mesh panel
- Hi-vis webbing
- Suspension trauma relief straps

**Suitable for:**

Fall arrest, confined space entry, roof work, ladder systems, elevated work platforms, pole work, maintenance, construction etc.





**SPANSET 1500 ERGO****SpanSet®****Designation:** Full body tower harness

- Rear fall arrest D
- Front fall arrest loops
- Padded waist band and side pole strap Ds
- Auxillary 75mm pole strap rings
- Confined space attachment loops
- Fully adjustable leg and shoulder straps
- Breathable rear mesh panel
- Hi-vis webbing
- Suspension trauma relief straps

**Suitable for:**

Fall arrest, confined space entry, ladder systems, tower and pole work, maintenance, construction etc.

**SPANSET 1107 ERGO****SpanSet®****Designation:** Full body harness

- Rear fall arrest D
- Front fall arrest D
- Padded waist band and side Ds
- Rear fall arrest extension strap
- Auxillary 75mm pole strap rings
- Confined space attachment loops
- Fully adjustable leg and shoulder straps
- Breathable rear mesh panel
- Hi-vis webbing
- Suspension trauma relief straps

**Suitable for:**

Fall arrest, confined space entry, roof work, ladder systems, elevated work platforms, pole work, maintenance, construction etc.

**SPANSET 1150 ERGO****SpanSet®****Designation:** Full body harness

- Rear fall arrest D
- Front fall arrest D
- 1.8m energy absorbing lanyard permanently attached
- Confined space attachment loops
- Fully adjustable leg and shoulder straps
- Breathable rear mesh panel
- Hi-vis webbing
- Suspension trauma relief straps

**Suitable for:**

Fall arrest, confined space entry, ladder systems, elevated work platforms, hire industry, maintenance, construction etc.



**SPANSET 1100 ERGO PLUS****SpanSet®****Designation:** Full body harness

- Rear fall arrest D
- Front fall arrest D
- Confined space attachment loops
- Fully adjustable leg and shoulder straps
- Fully padded leg and shoulder straps
- Suspension trauma relief straps

**Suitable for:**

Fall arrest, confined space entry, roof work, ladder systems, elevated work platforms, maintenance, construction etc.

**SPANSET 1104 ERGO PLUS****SpanSet®****Designation:** Full body harness

- Rear fall arrest D
- Front fall arrest D
- Rear fall arrest extension strap
- Confined space attachment loops
- Fully adjustable leg and shoulder straps
- Fully padded leg and shoulder straps
- Suspension trauma relief straps

**Suitable for:**

Fall arrest, confined space entry, roof work, ladder systems, elevated work platforms, maintenance, construction etc.

**SPANSET 1107 ERGO PLUS****SpanSet®****Designation:** Full body harness

- Rear fall arrest D
- Front fall arrest D
- Padded waist band and side Ds
- Rear fall arrest extension strap
- Confined space attachment loops
- Fully adjustable leg and shoulder straps
- Fully padded leg and shoulder straps
- Suspension trauma relief straps

**Suitable for:**

Fall arrest, confined space entry, roof work, ladder systems, elevated work platforms, pole work, maintenance, construction etc.



**SPANSET 1600 ERGO PLUS****SpanSet®****Designation:** Full body tower harness

- Rear fall arrest D
- Front fall arrest loops
- Padded waist band and side pole strap Ds
- Auxillary buttock pole strap Ds
- Confined space attachment loops
- Fully adjustable leg and shoulder straps
- Extra wide suspension seat
- Suspension trauma relief straps

**Suitable for:**

Fall arrest, confined space entry, ladder systems, tower and pole work, maintenance, telecoms etc.

**SPANSET 1100 HOTWORKS****SpanSet®**

The soft Heracron/Meta aramid webbing is heat resistant for welding and hotwork applications, while the padding is constructed from INDURA ultrasoft heat and molten splash resistant material.

**Designation:** Full body harness

- Rear fall arrest D
- Front fall arrest loops
- Confined space attachment loops
- Fully adjustable leg and shoulder straps

**Suitable for:**

Fall arrest, confined space entry, roof work, ladder systems, elevated work platforms, maintenance, construction etc.

**SPANSET 1100 WATERWORKS PREMIUM****SpanSet®****Designation:** Full body harness

- Stainless steel rear D
- Front fall arrest stainless steel D
- Stainless steel buckles
- Confined space loops on shoulders
- Fully adjustable padded leg straps and shoulder/back straps
- Easy-flow sweat absorbing mesh and foam composite padding
- Fitted with suspension trauma relief straps
- Fitted with corrosion-resistant stainless steel D rings and buckles

**Suitable for:**

Fall arrest, confined space entry, roof work, ladder systems, elevated work platforms, maintenance, construction in corrosive environments etc.





## SPANSET ERGO WEBBING LANYARDS

Code	Type	Material	Length	Fitted At Shock Absorber	Fitted At Free End(s)	Weight
3053	Single leg	Webbing	1.8m	H1 Snap Hook	H1 Snap Hook	1070g
3055	Single leg	Webbing	1.8m	H1 Snap Hook	H3 Scaffolding Hook	1320g
3058	Twin leg	Webbing	1.8m	H1 Snap Hook	H3 Scaffolding Hook	2035g

SpanSet®



## SPANSET ERGO ELASTIC LANYARDS

Code	Type	Material	Length	Fitted At Shock Absorber	Fitted At Free End(s)	Weight
3053E	Single leg	Webbing	1.4-1.8m	H1 Snap Hook	H1 Snap Hook	1115g
3055E	Single leg	Webbing	1.4-1.8m	H1 Snap Hook	H3 Scaffolding Hook	1310g
3058E	Twin leg	Webbing	1.4-1.8m	H1 Snap Hook	H3 Scaffolding Hook	1723g



SpanSet®



## SPANSET ERGO PLUS WEBBING LANYARDS

Code	Type	Material	Length	Fitted At Shock Absorber	Fitted At Free End(s)	Weight
3053 ERGOplus	Single leg	Webbing	1.8m	H1 Alu Snap Hook	H1 Alu Snap Hook	1070
3055 ERGOplus	Single leg	Webbing	1.8m	H1 Alu Snap Hook	H3 Alu Scaffolding Hook	1820
3058 ERGOplus	Twin leg	Webbing	1.8m	H1 Alu Snap Hook	H3 Alu Scaffolding Hook	2035



## SPANSET HOTWORKS LANYARDS

Code	Type	Material	Length	Fitted At Shock Absorber	Fitted At Free End(s)	Weight
3053 HotWorks	Single leg	Heracron/Meta Aramid	1.8m	H1 Snap Hook	H1 Snap Hook	1125g
3055 HotWorks	Single leg	Heracron/Meta Aramid	1.8m	H1 Snap Hook	H3 Scaffolding Hook	1315g
3058 HotWorks	Twin leg	Heracron/Meta Aramid	1.8m	H1 Snap Hook	H3 Scaffolding Hooks	2085g

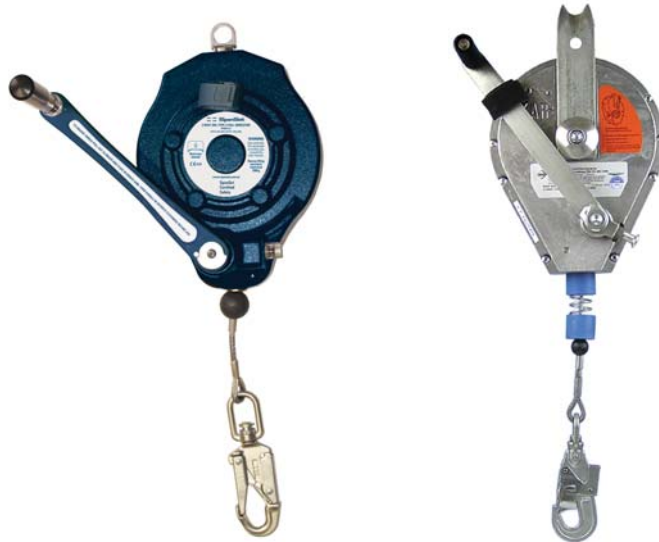


## SPANSET RETRACTING LIFELINES

### SpanSet 3 way self retracting lifelines

These self retracting lifelines offer fall protection when entering or exiting confined spaces and have the additional feature of an easy to deploy emergency winch function.

Both have aluminium casings, giving a robust yet lightweight performance. Swivel fall protector hooks are standard on all SpanSet 3 way devices.



Code	Description	Weight	Lifeline Material	Max Load
FPRB-15	15m 3 way SRL	8.9kg	Galvanised steel	150kg
IKHRA-30	30m 3 way SRL	21kg	Galvanised steel	136kg

**SpanSet®**

## SPANSET INERTIA REELS

### FAB Inertia Reels

Outstanding compliance value with these ABS plastic case FAB 3m, 10m and 18m units.

All units have load indicating hooks for ease of inspection.



Code	Length	Lifeline	Casing	Connector	Weight (with hardware)	Field Service-able	Size L x W x D mm
FAB10	10m	5mm Galvanised Cable	ABS Plastic	Swivel Triple Action Karabiner	4.1kg	No	244x183x144
FAB18	18m	5mm Galvanised Cable	ABS Plastic	Swivel Triple Action Karabiner	6.5kg	No	300x226x144

**SpanSet®**

SPANSET SAFETY LINES



**Code: 3400**

**Description:** Horizontal webbing static line, 18m, complete with ratchet tensioner and bag. Single person use.



**Code: 3400UK**

**Description:** Horizontal safety line, 18m, including connector Ds, complete with ratchet tensioner and bag. Two person use.



**Code: 3108x15**

**Description:** Rope fall arrest line, 15m with H1 snap hook on end and RF1 rope adjuster. For additional length add to code eg: 3108 x 20 = 20m etc.

**SpanSet®**

**SpanSet®**

SPANSET RETRACTING LANYARD



A lightweight 2.25m retracting lanyard which is ideal for many light duty applications such as order pickers, EWPs, static lines etc. Comes complete with triple action karabiners and integral energy absorber.

Code	Length	Lifeline	Casing	Connector	Weight (with hardware)	Field Service-able	Size L x W x D mm
3201	2.25m	50mm Webbing	Steel/ Plastic	Triple Action Karabiner	1.2kg	No	240x110x75

SpanSet®

**Gotcha** PATENT PENDING™  
RESCUE RANGE



## GOTCHA™ POST FALL RESCUE KIT

**Takes the gravity out of a fall situation.  
The easy answer to suspension trauma.**

**Work at height - is your risk assessment complete?**

As part of your commitment to Risk Assessment you are already aware that you have to protect your operative from the hazard of fall from heights. These regulations apply to all workplaces and to all employees (also to the self employed and employees of a third party). If you were to fully assess all the hazards and risks then you should also have addressed the actions you require in the event of a worker becoming suspended.

**How can I provide a rescue solution?**

Gotcha will provide rescue solutions/provisions for all your staff who wear Fall Arrest Harnesses with Shock Absorbing Lanyards as long as you are able to safely access their anchor point.

**What exactly can the Gotcha™ do?**

The idea of the Gotcha™ is to provide a rescue kit that will enable a rescuer to:

- Attach a casualty who is suspended by a fall arrest lanyard
- Raise casualty in order to release their current attachment
- Raise or lower the casualty to a point of safety

**This can all be achieved without the need to access the casualty.**

**What is suspension trauma?**

Suspension trauma or Orthostatic intolerance is a natural human reaction to being upright and immobile where blood pools in the legs leading to unconsciousness. It can be caused by suspension in a harness (deliberate or accidental), when trapped in a confined space, when secured to a vertical stretcher or litter - any situation where you are forced to stay upright without standing. If it is allowed to develop unchecked it can be fatal. In short, rescue must be made in as short a time as possible.

Kit Size	Order Codes	Capacity in High Anchor Mode	Capacity in Low Anchor Mode	Weight of Kits kgs
Gotcha 50	GOTCHA Kit 50m	Up to 17m	Up to 13m	7
Gotcha 75	GOTCHA Kit 75m	Up to 25m	Up to 19m	9
Gotcha 100	GOTCHA Kit 100m	Up to 34m	Up to 26m	11
Gotcha 150	GOTCHA Kit 150m	Up to 51m	Up to 39m	15
Gotcha 200	GOTCHA Kit 200m	Up to 68m	Up to 52m	19



**SPANSET SAFETY KITS****Basic Kit, Code: 6002****Contains:**

- 1 x 1100 harness
- 1 x 3053 lanyard
- 1 x 3501 anchor sling
- 1 x kit bag

**All Purpose Kit, Code: 6008****Contains:**

- 1 x 1104 harness
- 1 x 3055 lanyard with scaffold hook
- 1 x 3051 shock absorber
- 1 x 3501 anchor sling
- 1 x 3108 rope resistant line and adjuster
- 1 x kit bag

**Riggers Kit, Code: 6000****Contains:**

- 1 x 3400 safety line
- 2 x 3.25T safety shackles
- 1 x 1100 harness
- 1 x 3055 lanyard with scaffold hook
- 2 x E2000 round slings
- 1 x kit bag

**Roofers Kit, Code: 6001****Contains:**

- 1 x 3108 fall arrest anchor line and adjuster
- 1 x 1104 harness
- 1 x K2 karabiner
- 1 x 3053 lanyard
- 1 x 3501 anchor sling
- 1 x kit bag

## XTIRPA TOW BAR HITCH DAVIT SYSTEM

### For fall protection and retrieval versatility

The trailer hitch mount system connects to most 50mm square vehicle receiver hitches. This most popular system offers you adjustable screw pads for simple leveling of the system and is far more stable than a tripod.

#### Xtirpa Tow Bar Hitch Mount System Kit With mast and davit arm

Code: XT6

#### Trailer Hitch Mount

Code: XTIN2126

#### Xtirpa Davit Arm 16kN

Code: XTIN2210

#### Mast for 2210

Code: XTIN2003

CALL OUR SALES TEAM OR MORE DETAILED INFORMATION ABOUT THESE PRODUCTS.



**SpanSet®**

## XTIRPA PORTABLE MANHOLE GUARD SYSTEM

These portable manhole guards have an integrated mast, which in conjunction with the davit arm, transform these into confined space fall protection and retrieval systems. Ultra lightweight and portable with a rating in excess of 16kN, the assembly can be set up in less than 60 seconds.

Our Xtirpa manhole guard systems tick all the boxes of public safety, secondary fall protection, primary fall protection, rescue and retrieval, controlled ingress and egress, manual handling and worker acceptance. They are fully expandable with extension pieces to suite any size application and are far more stable than a tripod.

#### Manhole Barrier Kit

#### With davit arm and stabiliser

Code: XT3 Xtirpa



**SpanSet®**

## XTIRPA FIXED & SEMI PERMANENT DAVITS

This fall protection and davit arm with secondary block attachment will facilitate your access to underground chambers and any other confined space.

This is a semi permanent configuration with the mast adapters permanently fixed to a structure and the davit mast and arm moved around as desired.

Three models fill out the range, 600mm, 1200mm, and the jumbo 2400mm and all are fully rated to 16kN at full extension.



**SpanSet®**

## XTIRPA FIXED DAVIT MAST ADAPTERS

### Stainless Steel Floor Mount Adapter

For 600mm davit. **Code:** XTIN2005

### Stainless Steel Floor Mount Adapter

For 1200mm davit. **Code:** XTIN2238

### Stainless Steel Floor Mount Adapter

For 2400mm davit. **Code:** XTIN2201

### Sleeve Adapter

For 600mm davit. **Code:** XTIN2097

### Wall Adapter

For 600mm davit. **Code:** XTIN2013

### Flush Floor Adapter

For 600mm davit. **Code:** XTIN2006

### Barrel Adapter

For 600mm davit. **Code:** XTIN2021

### H-Beam Adapter

For 600mm davit. **Code:** XTIN2085

### Adapter Cap

**Code:** XTIN2072



**SpanSet®**

## SPANSET PERSONNEL WINCHES

**Code: FPMS-20G and FPMS-30G**

Available in 20m and 30m models, these robust personal winches are perfectly suited to the demanding requirements of the confined space environment.

Tough steel construction with sensible features allow operators to get on with the task in hand in total confidence.

Attention to detail, such as wire guide rollers and a spring loaded spool retention bar add to the workhorse nature of these winches.

**SpanSet®**



## SPANSET HEAVY DUTY TRIPOD

This aluminium tripod has been designed for tough work conditions and long term use and is particularly suitable for the hire industry. Rectangular fully adjustable legs and a one piece cast head are designed to resist damage. Integrated twin pulleys and an additional auxilliary anchorage point allow many options and combinations of access, egress and rescue equipment to be specified. Standard extended height is 2.7m.



**SpanSet®**



## KARABINERS

Karabiners act as a connection between harness and ancillary fall arrestor, or between fall arrestor and anchorage point.



### Karabiner 18mm Opening (TAK)

- Forged steel
- Captive D, triple acting.
- 30kN strength.

91326 Triple Acting  
91326-10 Triple Acting  
Pack Of 10



### Karabiner 20mm Opening (TAK)

- 35kN strength
- Triple acting mechanism
- Stainless Steel

M1030069 Triple Acting



### Karabiner 26mm Opening (TAK)

- 50kN strength
- Stainless Steel
- Triple acting mechanism.

M1030075 Triple Acting



### Karabiner 16mm Opening

- Alloy steel.
- Screwgate.
- 22kN strength.

501 Screwgate  
501-10 Screwgate  
Pack Of 10



### Karabiner 27mm Opening

- Alloy steel.
- Screwgate.
- 50kN strength.

566 Screwgate  
566-10 Screwgate  
Pack Of 10



### Karabiner 65mm Opening

- Drop forged alloy.
- Twist to open.
- 35kN strength.

502 Double Acting Twist



### Connector

- Tube nut connectors.
- Oval or tri-sided.

51528 Oval Connector  
51529 Tri-Sided Connector



### Scaffold Hook

- Double acting scaffold hook.
- Forged alloy steel.
- 56mm or 64mm opening

M1030003 64mm Scaff Hook  
M1030004 54mm Scaff Hook

## EXTENDER HOOK



- The Extender hook allows the user to attach to a secure anchorage point overhead at any height of up to 7.5m.
- Lightweight fibreglass telescopic pole (2.6m retracted).
- Aluminium hook with 63mm throat opening.

- Use in conjunction with an anchorage line as a first man up system.
- Ideal for riggers, linesmen and tower workers.

EXTEND/HK Extender Hook



by Honeywell

## MILLER HARNESSSES

**Innovative DuraFlex webbing allows the harness to flex with the body providing greater flexibility and all day comfort.**

**Harness attachment and application icons:**



## MILLER DURAFLEX MAINTENANCE HARNESS



Vest style, DuraFlex webbing harness for working at height and in confined spaces.

M1020073 Fall Arrest and CS Harness

- Frontal fall arrest attachment point, rear and extended dorsal dee.
- Easy to don with fully adjustable chest, shoulder and leg straps.
- No bunching, binding or kinking generally associated with harness wearing.
- DuraFlex webbing flexes with the body.
- Label pack with lanyard parking ring stores harness documents.
- Brightly coloured webbing to increase worker visibility.
- Confined space loops on shoulder straps.



## MILLER DURAFLEX RIGGER'S HARNESS



Vest style, DuraFlex webbing harness for working at height with pole straps or in confined space.

M1020068 Fall Arrest, CS and WP Harness

- Frontal fall arrest attachment point, rear and extended dorsal dee.
- Confined space loops and work positioning side dees.
- Easy to don with fully adjustable chest, shoulder and leg straps.
- Waist belt offering greater back support and stability.
- Label pack with lanyard parking ring stores harness documents.
- Brightly coloured webbing to increase worker visibility.



## MILLER DURAFLEX ROOF WORKER HARNESS



Cross over, DuraFlex webbing harness featuring fall arrest attachment points both front and back.

STRETCH GUARD Two Point Fall Arrest Harness

- Frontal and rear D ring for working in fall arrest.
- Label pack with lanyard parking ring stores harness documents.
- Over the head design with adjustable leg straps.
- Hybrid polyester and DuraFlex webbing provides optimum worker comfort.
- Suited to roofing, tower and ladder work, general construction, maintenance and window cleaning applications.



### MILLER DURAFLEX CONFINED SPACE HARNESS



Full body DuraFlex harness with multiple attachment points to suit various applications.

M1020004D Confined Space Harness

- 300mm extension of rear fall arrest soft-eye-dee.
- Frontal fall arrest attachment loops.
- Confined space shoulder loops.
- No bunching, binding or kinking generally associated with harness wearing.
- DuraFlex webbing flexes with the body providing optimum worker comfort.
- Label pack with lanyard parking ring stores harness documents.
- Adjustable shoulder and leg straps.
- Quick connect (QC) buckles on leg straps.



### MILLER DURAFLEX GLOVE AND BARRIER HARNESS



DuraFlex full body harness specifically designed without metal hardware above the waist.

M1020008 Glove and Barrier Harness

- 500mm extension of rear fall arrest soft-eye-dee.
- Frontal fall arrest attachment and confined space shoulder loops.
- No bunching, binding or kinking generally associated with harness wearing.
- DuraFlex webbing flexes with the body providing optimum worker comfort.
- Adjustable leg and chest straps.
- Label pack with lanyard parking ring stores harness documents.



### MILLER POLYESTER WORK/ACCESS HARNESS



Work positioning/rope access harness with padded leg straps for working in suspension, and twin rope access applications.

M1020122 Work Positioning/Rope Access Harness

- Frontal fall arrest, rear dorsal and work positioning dee rings.
- Step in harness with padded leg straps and lumbar support.
- Adjustable leg and shoulder straps.
- Excellent U.V and chemical resistance.
- Label pack with lanyard parking ring stores harness documents.
- Suited to rescue, ladder work, work positioning, window cleaning, telecom and utility applications.
- Tool loops to attach equipment temporarily when working at height.
- Quick connect buckles for easy donning.
- Extra wide back and removable shoulder pads offering greater support and comfort.



### MILLER KEVLAR® WELDER'S HARNESES



Designed for use where hot sparks or molten materials may come in contact with the harness.

M1020102 KMAX.3 Basic Vest Style

- 100% Kevlar® webbing improves strength and resistance to high temperatures.
- Frontal and rear fall arrest attachment points.
- Label pack with lanyard parking ring stores harness documents.
- Suited to welding, grinding and harsh work environments.
- Adjustable leg and shoulder straps.



## MILLER POLYESTER CONSTRUCTION HARNESS



Vest style design, polyester webbing fall arrest harness for working at height.

M1020063 Fall Arrest Harness

- Frontal fall arrest attachment point and rear dorsal dee.
- Easy to don with fully adjustable chest, shoulder and leg straps.
- Strong, durable, lightweight and comfortable polyester webbing.
- Excellent U.V. and chemical resistance.
- Label pack with lanyard parking ring stores harness documents.
- Brightly coloured webbing to increase worker visibility and easy donning.
- Suitable for a variety of applications.



M1070014 Roof Worker Back Pack Kit

KIT INCLUDES: Polyester M1020063 construction harness. Anchorage line with type 1 fall arrest device. 2m webbing energy absorbing lanyard. Webbing tie off adaptor. Durable polyester backpack.

## MILLER POLYESTER MAINTENANCE HARNESS



Vest style design, polyester webbing fall arrest harness for working at height and confined space.

M1020065 Fall Arrest and CS Harness

- Frontal fall arrest attachment point, rear and extended dorsal dee.
- Easy to don with fully adjustable chest, shoulder and leg straps.
- Strong, durable, lightweight and comfortable polyester webbing.
- Excellent U.V. and chemical resistance.
- Label pack with lanyard parking ring stores harness documents.
- Confined space loops on shoulder straps.
- Brightly coloured webbing to increase worker visibility and easy donning.



## MILLER SHARP EDGE LANYARD WITH ENERGY ABSORBER



The Sharp Edge Lanyards developed by Miller offer workers the ideal solution when working near sharp edges.

L11FEC2.0 With 6650 Hooks

L28FEC2.0 With TAK Each End

LA11FEC2.0 Adjustable With 6650 Hooks

LA28FEC2.0 Adjustable With TAK Each End

LD10FEC2.0 Double Lanyard 64mm Hooks

LAD10FEC2.0 Adjustable Double Lanyard 64mm Hooks

- Ideal solution when working near sharp edges.
- Manufactured from robust 12mm sharp edge rated Kernmantle rope.
- External energy absorber which allows for visual indication of a sustained fall.
- Available with a variety of connector options to suit different applications.
- Adjustable lanyards allows the user to minimise fall risks by adjusting the lanyard to suit the job.



**MILLER**  
by Honeywell



## MILLER POLYESTER CONFINED SPACE HARNESS



Full body polyester webbing harness with multiple attachment points to suit various applications.

M1020004 Confined Space Harness

- 300mm extension of rear fall arrest soft-eye-dee.
- Frontal fall arrest and confined space loops on shoulder straps.
- Strong, durable, lightweight and comfortable polyester webbing.
- Excellent U.V. and chemical resistance.
- Label pack with lanyard parking ring stores harness documents.
- Adjustable shoulder and padded leg straps.
- Quick connect buckles.



**MILLER**  
by Honeywell

## MILLER LINE WORKER HARNESS



Specifically designed for line and pole top workers, this harness offers many features to suit these applications.

ELITE.2 Fall Arrest, Work Positioning Harness

- Frontal fall arrest dee and extended dorsal dee.
- Work positioning side dees for work with pole straps.
- Fully adjustable waist, shoulder, leg and buttock straps.
- Label pack with lanyard parking ring stores harness documents.
- Lumbar and buttock padding offering greater comfort.
- Suited to line workers, pole top workers, tower and ladder work.



**MILLER**  
by Honeywell

## MILLER TOWER WORKER HARNESS



The ultimate tower harness with multiple attachment points for compatibility with many applications.

TOWER WORKER Tower Worker Harness

TOWER WORKER - L - Large Tower Worker Harness

- Frontal fall arrest attachment loops.
- 300mm extended dorsal dee.
- Confined space loops and work positioning side dees.
- Label pack with lanyard parking ring stores harness documents.
- Excellent U.V. and chemical resistance.
- Lumbar and buttock padding equipped with tool loops.
- Suited to electrical, ladder and tower work, tree pruning, EWP work, confined space and rescue applications.



**MILLER**  
by Honeywell

### MILLER FLAME RETARDANT LANYARD



Designed for use in applications where hot sparks or molten materials may come in contact with the lanyard.



L11KEC2.0 2m Kmax With 19mm Hooks Each End

LA11KEC2.0 2m Kmax Adjustable With 19mm Hooks Each End

LD11KEC2.0 2m Kmax Twin With 19mm Hooks Each End

- 100% Kevlar® webbing improves strength and provides resistance to high temperatures, sparks and molten material.
- Integral compact energy absorber.
- 19mm double acting hooks at each end.
- Suited to welding, grinding and harsh work environments.
- Adjustable and twin end hook versions are available to suit your specific requirements.

**MILLER**

by Honeywell

### MILLER STRETCHSTOP® LANYARD



A unique stretchable lanyard design that minimises the length of the lanyard preventing tripping or snagging.

STRETCHSTOP 2m With 19mm Hooks Each End

L11SEC1.5 1.5m With 19mm Hooks Each End

L12SEC2.0 2m With 64mm Hook One End And 19mm Other

LD18SEC2.0 2m Twin With 56mm Hooks Each End

- Elastic inner core contains the unextended length of webbing.
- Integral compact energy absorber.
- Outer load bearing tubular polyester webbing provides strength and durability.
- Reliable visual inspection if a fall has been taken.
- Available in a variety of lengths and hook options to suit your specific requirements.

**MILLER**

by Honeywell

### MILLER ADJUSTABLE LANYARD WITH ENERGY ABSORBER



Levigator adjustable lanyards offer unique versatility whilst working at height.

M1010004 2m With 19mm Hooks Each End

M1010005 2m With 19mm Hook And 55mm Hook

M1010006 2m With Triple Acting Karabiners Each End

- Patented design with printed increments every 200mm.
- Easy to adjust and see the working length of the lanyard.
- Integral compact energy absorber.
- Brightly coloured webbing which increases worker visibility.
- Available in a choice of lanyard terminations which enables greater worker flexibility.

**MILLER**

by Honeywell

### MILLER ROPE LANYARD WITH ENERGY ABSORBER



Robust rope lanyard suitable for working around slightly abrasive surfaces and heavy duty applications.

L11REC2.0 2m - 19mm Hooks At Each End

- 12mm polyester rope.
- Integral compact energy absorber
- Reliable visual inspection if a fall has been taken.
- 19mm double acting hooks at each end.
- Great in heavy duty applications.
- For use in fall arrest situations, where the free fall does not exceed 2m.
- Suitable for situations where working around slightly abrasive surfaces.

**MILLER**  
by Honeywell

### MILLER ADJUSTABLE KERNMANTLE ROPE LANYARD



The Adjustable Kernmantle Rope lanyard offers workers the flexibility to easily adjust the length of their lanyard to suit any fall arrest application.

M1010034 2m Adjustable Kernmantle Rope With TAK

M1010056 5m Adjustable Kernmantle Rope With TAK

M1010043 2m Double Adjustable Kernmantle Rope With TAK and Scaffold Hooks

- Allows the user to minimise fall risks by adjusting the lanyard to suit the job.
- Manufactured out of robust 11mm Kernmantle rope for greater abrasion resistance.
- Maximum length of adjustment is 2mtrs.
- Fully adjustable down to 850mm.
- Integral compact energy absorber smoothly expands for greater shock absorption

**MILLER**  
by Honeywell

### MILLER RETRACTABLE WEBBING LANYARD



Lightweight, easy to operate, retractable lanyard with swivel hook at the bottom to allow greater mobility whilst in use.

1010893 2.5m Retractable Lanyard

- Lightweight type 2 fall arrestor.
- 2.5m of retracting webbing.
- EN360 certified (AS/NZS 1891.3 compliant).
- Swivel hook at bottom & karabiner at top.
- High impact flexible outer casing.
- Traditional "seat belt" style unit with opening at bottom for easy retraction and operation.
- High Impact flexible PVC outer casing.
- Recommended for overhead use only.

**MILLER**  
by Honeywell

### MILLER PLASTIC COATED WIRE LANYARD



Robust wire lanyard suitable for extreme work environments especially around sharp edges or hot sparks

L11PEC2.0 2m - 19mm Hooks At Each End

- 11mm plastic coated galvanised wire.
- Integral compact energy absorber
- Reliable visual inspection if a fall has been taken.
- 19mm double acting hooks each end.
- Suitable for harsh working situations, where the lanyard length may be in contact with sharp edges or hot sparks.
- This lanyard is very robust and suits extreme working situations.

**MILLER**  
by Honeywell

### MILLER TIE-BACK LANYARD WITH ENERGY ABSORBER



Lanyard can be safely tied back onto itself over an anchorage point.

L26WEC2.0 2m Tie Back Lanyard

- A revolutionary hook allowing the lanyard to tie back onto itself.
- Tie back hooks will withstand forces of up to 22kN at any angle.
- Reliable visual inspection if a fall has been taken.
- Integral compact energy absorber
- Provides greater flexibility on site with less set up time.
- Easier and faster inspection.

**MILLER**  
by Honeywell

### MILLER QUICKPICK™ RESCUE KIT



Miller QuickPick™ Rescue Kits deliver peace of mind during unexpected, stressful peer-rescue situations. The rescuer can remotely attach the system to the suspended worker while remaining securely anchored on the working surface. All rescue components are contained in one easy-to-store kit with no assembly necessary – only requiring an overhead anchorage.

- Highly efficient hauling system with a 5:1 lifting ratio, making heavier loads easier to lift
- Quickly raise or lower a fallen worker to safety – avoid suspension trauma
- Professional rescue solution – enhances worker safety and corporate rescue plan
- 250 kg lifting capacity

#### Kit contains:

- 1 Back-up braking system
- 2 Colour-coded, high-strength aluminium pulleys for easy orientation
- 3 11mm kernmantle rope
- 4 Telescopic remote rescue connection pole (1.2 m) collapsed, (3.6 m) fully extended]

- 5 Karabiner, clip and pigtail
- 6 Pole carrying case
- 7 Hand tool strap
- 8 Cross-arm anchorage connector
- 9 Convenient backpack

**MILLER**  
by Honeywell



## MILLER TURBOLITE™ FALL ARRESTOR



Extremely compact, light and compliant retractable Fall Arrest Block designed for use as a personal fall limiter.

- Retractable technology prevents trip hazards while built in swivel prevents lifeline twisting.
- Arrests a fall within millimetres.
- Provides 2m working capacity lifeline.
- Extremely compact and lightweight with strong, impact resistant nylon housing.
- Connector bracket can be retrofitted to any TurboLite model and easily transforms two TurboLite PFLs into a complete tie-off fall protection system.
- Eliminates need for different fall protection equipment to address fall clearance.
- Can be used in horizontal and foot level applications where an overhead anchorage point is unavailable (refer to supplementary instructions on horizontal usage).

MFL-1/2M-AUS 2m Steel Twistlock Karabiner And 19mm Snap Hook

MFL-2/2M-AUS 2m Steel Twistlock Karabiner And Scaffold Hook

MFL-3/2M-AUS 2m No Top Attachment And 19mm Snap Hook

MFL-12/2M-AUS 2m Aluminium Twistlock Karabiner And Scaffold Hook

1017900 2m Twistlock Karabiner And Aluminium Snap Hook

MFLB Twin Turbolite D-Ring Connector Bracket

MFL-13/2M-AUS 2m TAK Each End



Actual size: 99.3mm high x 82.6mm wide x 61.5mm deep

**MILLER**

by Honeywell

## MILLER SCORPION™ FALL ARRESTOR



An affordable lightweight compact type 2 fall arrestor, limits free falls and offers greater mobility.

1008587 Scorpion Fall Arrestor With Swivel Hook

- Small and lightweight design.
- Visual load indicating hook shows when unit has taken a fall.
- 2.7m of webbing working capacity.
- Corrosion resistant internal components, encased in a high impact polymer cover.
- Available with triple acting karabiner terminations (TAK).
- Quick activating stainless steel braking system limiting free fall to a minimum.
- No annual factory recertification required
- Fully compliant to AS/NZS 1891.3

**MILLER**

by Honeywell

### MILLER SCORPION™ SHARP EDGE FALL ARRESTOR



Provides workers with an effective fall protection solution when working near Sharp Edges

1016840 With Steel Screwgate Karabiner And Snap Hook 2.6m

1016841 With Steel Screwgate Karabiner And Snap Hook 2.7m

- Ideal solution when working near sharp edges.
- Manufactured from 25mm Polyamide sharp edge rated webbing.
- Compact and light weight.
- No annual factory recertification required.
- Quick activating stainless steel braking system limiting free fall to a minimum.
- Corrosion resistant internal components.
- Stainless Steel / Aluminium body encased in a high impact polymer cover.

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by Honeywell

### MILLER BLACK RHINO™ FALL ARRESTOR

Lightweight but tough fall arrestor with stainless steel wire to keep you safe in the harshest working environments

CFL2.7M-7/-AUS With Swivel Hook

CFL2.7M-8/-AUS With TAK



- Quick activation high strength stainless steel braking system.
- Integral load indicator shows if a fall has been taken.
- Integral internal shock absorber limits fall forces to under 4kN.
- Corrosion resistant stainless steel and aluminium components.
- Available with triple acting karabiner terminations (TAK).
- Suits concrete construction, welding, steel erection and food processing applications.

**MILLER**  
by Honeywell

### MILLER SHARP EDGE ANCHORAGE LINE



M1070024 15m With Type 1 Fall Arrestor

- Manufactured from robust 12mm sharp edge rated kernmantle rope
- Type 1 fall arrestor moves along rope, and locks in the event of a fall.
- For applications where fall protection equipment may come into contact with a sharp edge.
- Perfect for use as a back up line when using winches or fall arrestors.

**MILLER**  
by Honeywell


**MILLER**

by Honeywell

### MILLER FALCON™ FALL ARRESTOR

Nearly indestructible. Falcon™ fall arrestors are designed to withstand the harsh rigors of the toughest applications

1011728 6m Galvanised Wire	1011742 10m Galvanised Wire
1011746 15m Galvanised Wire	1011750 20m Galvanised Wire
1028680 6.2m Stainless Steel Wire	1028681 10m Stainless Steel Wire
1028682 15m Stainless Steel Wire	1028683 20m Stainless Steel Wire
1016794 6m Webbing with Scaff Hook	1028812 Offshore Windmill Kit
1016796 6m Webbing With Snap Hook	

- Unique side pay out design reduces entry guide and cable wear.
- “No annual factory re-certification” lowers costs and downtime.
- Load indicating hook identifies unit removal from service.
- Corrosion-resistant stainless steel and aluminium internal components.
- Lightweight composite housing increases durability and ease of handling.
- Built-in, ergonomically-designed molded handle on the 15m and 20m units

### MILLER MIGHTYLITE™ FALL ARRESTOR

The MightyLite fall arrestor range offers comprehensive choices to suit many applications.

RL6MG 6m Gal Wire	RL10MG 10m Gal Wire	RL15MG 15m Gal Wire
RL20MG 20m Gal Wire	RL30MG 30m Gal Wire	RL40MG 40m Gal Wire
RL6MP 6m Webbing	RL54MG 54m Gal Wire	RL54MS 54m Stainless Steel

- Durable corrosion resistant construction.
- Stainless steel internal components.
- Swivel top and bottom attachments minimise lifeline twisting.
- Easy to carry and install, ideal for hard to mount locations.
- Integral fall indication hooks.
- Suited to construction, industrial access and warehousing.
- Fully compliant to AS/NZS 1891.3 as a type 2 fall arrest device.
- Gal wire and webbing options


**MILLER**

by Honeywell

### MILLER MIGHTEVAC™ FALL ARRESTOR

The Miller MightEvac fall arrestor includes a quick activating retrieval mechanism for emergency evacuation.

MR15MGB 15m Gal Fall Arrestor With Tripod Bracket
MR30MGB 30m Gal Fall Arrestor With Tripod Bracket
MR40MGB 40m Gal Fall Arrestor With Tripod Bracket

- Promotes quick and easy rescue with a 4:1 mechanical advantage.
- Winch for emergency evacuation use only.
- Mounts easily onto the Miller tripod leg with the bracket.
- Corrosion resistant stainless steel/ aluminium components.
- Available with galvanised wire in various lengths, and also with a mounting bracket for use with the Miller tripod.
- \* Note: not to be used for work positioning.


**MILLER**

by Honeywell



by Honeywell



## MILLER DURAHOIST CONFINED SPACE SYSTEMS

### Miller DuraHoist™ Four Piece System

The four piece DuraHoist system is designed for manhole and confined space entry/retrieval applications.

- Lightweight, easy storage, transport and set-up.
- DH-3 mast has 22kN capacity fall arrest anchor point.
- Height of mast can be adjusted according to users requirements.
- DH-4 has built-in level indicator for easy levelling.
- Quick release joins for easy collapsibility and transport.
- Three piece base features adjustable screws for easy set-up.

DH-3 - One Piece Adjustable Mast, DH-4 - Three piece portable base

### Miller DuraHoist™ Portable Anchor Post

- DuraHoist portable fall arrest anchor post provides 3 independent swivel tie-off fall arrest anchorage points.
- DH-AP-1 has three stage, four position telescoping design and aluminium construction for easy transportation and setup.
- Can be installed for vertical applications or on inclines of up to 15°.
- DH-AP-3 Rescue Davit Arm can be used with the portable fall arrest anchor post.
- Quick-attach design addresses materials handling or rescue needs.

DH-AP-1 - Portable Fall Arrest Anchor Post, DH-AP-3 - Rescue Davit Arm

### Mounting sleeves

A wide variety of mounting sleeves are available with the DuraHoist range.

- DH-7ZP is a floor mount sleeve which is suitable for mounting on horizontal structures.
- DH-8ZP is a wall mount sleeve which is suitable for mounting on vertical structures.

DH-7ZP - Floor mount sleeve, DH-8ZP - Wall Mount Sleeve

### Anchor plates

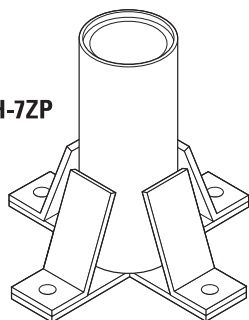
DuraHoist anchor plates are designed for welding to existing structures and locations of frequent work.

- DH-AP-4 includes a tie-off anchorage point.
- DH-AP-5 is a standard anchor plate.
- DH-AP-6 includes a tie-off anchor point for inclined surfaces.
- DH-19-MILLER adapter bracket for mounting the Miller MightyEvac and/or Miller ManHandler onto a DuraHoist System.

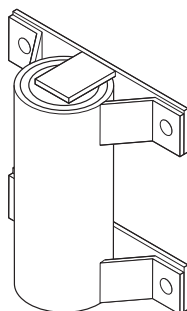
DH-AP-4 - Plate with Tie Off Anchor, DH-AP-5 - Standard plate

DH-AP-6 - Anchor plate for inclined surface, DH-19-MILLER - Adaptor bracket

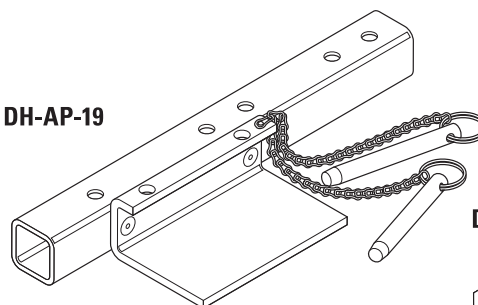
DH-7ZP



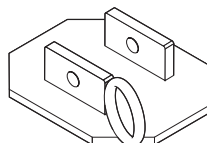
DH-8ZP



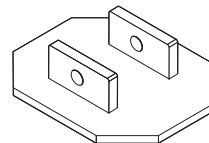
DH-AP-19



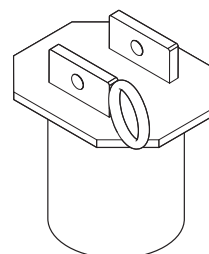
DH-AP-4



DH-AP-5



DH-AP-6





## MILLER SKYGRIP™ TEMPORARY STATIC LINE SYSTEM



Designed for easy installation on steel or concrete applications. A variety of innovative features have been engineered into these systems, making them extremely user friendly with enhanced safety considerations.

- Compact and lightweight for easier handling, installation and storage.
- Above-the-beam adjustment – patent pending design allows for easy one-person installation and dismantle, increasing safety and productivity.
- Continuous pass-through design – 100% tie-off connection with multi-span systems.
- Stanchions also serve as single-point anchorages.
- Single-span systems (no intermediate stanchions) up to 60 ft. (18.3m);
- Tension indicator ensures that system is always tensioned adequately
- Interchangeable bases between steel and concrete applications
- SkyGrip™ energy absorber engineered to keep system forces consistent during a fall.

### SKYGRIP™ SYSTEMS FOR STEEL APPLICATIONS:

Standard base to fit beam flanges 100mm to 500mm wide and up to 57.2mm thick. Complete system includes stanchions, energy absorber(s), line tension indicator, turnbuckle, cable and hardware.

**SGS18/60ft** system for steel applications for 2 workers, no intermediates. 60ft (approximately 18m) includes 2 stanchions and 1 energy absorber

**SGS18/120ft** system for steel applications for 4 workers, 1 intermediate. 120ft (approximately 36m) includes 3 stanchions, 1 pass through bracket for intermediate and 2 energy absorbers

### SKYGRIP™ SYSTEMS FOR CONCRETE APPLICATIONS:

Attach to rebar, coil inserts or concrete expansion bolts complete system includes stanchions, tie-back brackets, chain connectors, slider brackets, energy absorber(s), line tension indicator, turnbuckle, cable and hardware.

**SGC/60ft** concrete applications, system for 2 workers, no intermediates 60ft (approximately 18m) includes 2 stanchions and 1 energy absorber

**SGC/120ft** concrete applications, system for 4 workers, 1 intermediate, 120ft (approximately 36m) includes 3 stanchions, 1 pass through bracket for intermediate and 2 energy absorbers

### CABLE FOR STEEL AND CONCRETE SYSTEMS:

**SGLLK/60ft** lifeline cable 60ft (approx 18m) cable only

**SGLLK/120ft** lifeline cable 120ft (approx 36m) cable only



**MILLER**

by Honeywell

## MILLER FIXED ANCHOR POINT



Provides a safe and secure anchor point for maintenance and roof work.

M1030055 Miller Fixed Anchor Point

- Can be used as a Fall Arrest Anchor Point for 1 person.
- For Xenon and other lines it can be used as a support of intermediates (such as the Xenon (1010609).
- Each unit is fitted with a weather seal and is supplied with mounting rivets.
- Easy to install.
- Not designed for use on roofs fitted with gutters.

**MILLER**

by Honeywell

**We can also install all your anchor points:  
Please call to discuss your requirements with our staff.**

## DBI-SALA EXOFIT NEX™ FULL BODY HARNESSSES

**COMFORT. FUNCTION. DURABILITY.****The next generation full body harness**

Harnesses need to fit correctly for optimum comfort, safety and productivity. DBI-SALA harnesses are available in small, medium, large and extra-large for a perfect fit every time.

**Features**

- Stand-up dorsal D ring
- Covered labels and i-Safe™
- Impact indicator
- Revolver™ vertical torso adjusters
- Tech-Lite™ aluminium D rings
- Integrated suspension relief straps
- Reflective material
- Ultra-soft edging
- Moulded lanyard keepers
- Built-in carrying pocket
- REPEL™ technology webbing
- Hybrid comfort padding
- Rigid hip padding loops
- Duo-Lok™ quick-connect buckles

**EXOFIT NEX™ RIGGERS HARNESS**

Ideal for: use as a professional general purpose harness in rigging, ladder climbing and confined space access work.

Front and rear Tech-Lite™ aluminium D rings, Duo-Lok™ quick-connect buckles, Revolver™ vertical torso adjusters, non-slip hybrid comfort padding, suspension trauma straps, confined space loops, impact indicator, REPEL™ technology webbing.

Available in Small, Medium, Large and Extra Large:

S = 603S2018

M = 603M2018

L = 603L2018

XL = 603XL2018

**EXOFIT NEX™ TOWER WORKERS HARNESS**

Ideal for: the professional performing pole work, rigging and work positioning.

Front, rear and side Tech-Lite™ aluminium D rings, Duo-Lok™ quick-connect buckles, Revolver™ vertical torso adjusters, wide padded lower back/hip pad, work positioning/ suspension seat with tanged pole D rings (can be secured out of the way for unhindered climbing), non-slip hybrid comfort padding, suspension trauma straps, impact indicator, REPEL™ technology webbing.

Available in Small, Medium, Large and Extra Large:

S = 653S4016

M = 653M4016

L = 653L4016

XL = 653XL4016



**DBI-SALA DELTA™ FULL BODY HARNESS**

Harnesses need to fit correctly for optimum comfort, safety and productivity. DBI-SALA harnesses are available in small, medium, large and extra-large for a perfect fit every time.

**Features**

- **REPEL™ TECHNOLOGY WEBBING**  
Water repellent to reduce attraction of mould and dirt – up to 5 times more abrasion resistance.
- **QUICK CONNECT BUCKLES**  
Offers one-handed operation and smooth adjustment.
- **EASY GRIP END TABS AND KEEPERS**  
For fast, efficient and secure web adjustment.
- **STAND-UP DORSAL D-RING**  
Patented spring-loaded design automatically stands up ensuring fast, easy and safe connections to your fall arrest system.
- **IMPACT INDICATOR**  
Rip-stitch indicator allows the user to quickly and easily inspect the harness for impact loading.
- **LABEL PACK**  
Laminated PVC labels resistant to abrasion, UV, ambient heat, water and a wide range of chemicals. Features permanent indented print of critical product information ensuring it remains visible for the life of the harness.

**DELTA™ RIGGERS HARNESS**

Ideal for: use in rigging, confined space, ladder access and general height safety.

Large rear fall arrest rated stand-up D-ring, Front fall arrest rated D-ring, Confined space/retrieval attachment points, Quick connect buckles, Corrosion resistant hardware Fully adjustable, REPEL™ technology webbing.

Available in Small, Medium, Large and Extra Large

Available in Small,  
Medium, Large and  
Extra Large:

S = 803S0018  
M = 803M0018  
L = 803L0018  
XL = 803XL0018

**DELTA™ TOWER WORKERS HARNESS**

Ideal for: use by telecommunications and power industry personnel when working on towers and poles.

Large rear fall arrest rated stand-up D-ring, Frontal fall arrest/belay loops, Confined space/ retrieval attachment points, Padded waist belt with side D-rings, Pole/restraint D-rings, Quick connect buckles, Corrosion resistant hardware, Fully adjustable, REPEL™ technology webbing.

Available in Small,  
Medium, Large and  
Extra Large:

S = 853S0018  
M = 853M0018  
L = 853L0018  
XL = 853XL0018





# THE NEXT REVOLUTION IN LANYARD TECHNOLOGY

THE NEW AND IMPROVED FORCE2™  
SHOCK ABSORBING LANYARD RANGE

**LIGHTEST, STRONGEST, SMALLEST SHOCK  
ABSORBER IN THE WORLD**

**66% smaller\* & 40% lighter\***

**EXPANDED RANGE OF CONNECTORS FOR  
all industry applications and  
demands**

**lightest & strongest  
CONNECTOR COMBINATIONS ON THE  
MARKET**

\*Compared to previous FORCE2™ models



© 2013 Capital Safety

THE ULTIMATE IN FALL PROTECTION





## DBI-SALA FORCE2™ SHOCK ABSORBING LANYARDS

### THE NEXT REVOLUTION IN LANYARD TECHNOLOGY

The new and improved FORCE2™ shock absorbing lanyard range is 40% lighter, 66% smaller and even more durable than before. FORCE2™ also comes with an expanded range of connector combinations that are the lightest and strongest on the market and suitable for all industry applications and demands.

#### Features:

- Re-designed steel snap hooks for lighter weight
- Lightest, strongest, smallest shock absorber in the world
- REPEL™ webbing repels water to reduce the attraction of mould and dirt providing added abrasion resistance
- Protected labels for durability and longevity – includes DBI-SALA's i-SAFE™ identification tag
- High visibility reflective material keeps you safe in low light conditions
- Shock absorber includes Hi-10™ high tenacity energy management material

### WEBBING RANGE

#### Single tail lanyards

Available in either flat webbing (adjustable or non adjustable), or elasticated webbing variants.

**Z11200909**

#### Twin tail lanyards

Available in either flat webbing (adjustable or non adjustable), or elasticated webbing variants.

**Z12202519E**

#### WRAPBAX™ tie-back lanyards

Available in flat webbing in either single or twin tail variants.

**Z10202572WB**

### CABLE RANGE

#### Single tail lanyards

**Z10204545WR**

### ROPE RANGE

#### Single tail lanyards

**Z10200909R**

#### Twin tail lanyards

**Z12202519R**

#### Twin tail lanyards

**Z12204545WR**

#### Adjustable lanyards

Available in single or twin tail variants.

**Z13206129R**

#### Cut resistant lanyards

Available in either single or twin tail adjustable variants.

**Z11204545CR**



## DBI-SALA SELF RETRACTING LIFELINES (SRL)

### NANO-LOK™ SRL

**COMPACT:** Ergonomically designed - virtually unnoticeable on your back.

**VERSATILE:** Choose from a range of single or twin leg configurations and harness/lifeline connectors.

**SAFE:** Stops a fall within centimetres, providing greater protection at low heights.

#### Features

- Single or twin leg harness interface connector, cab mount or karabiner
- 360° swiveling anchorage loop
- Impact resistant housing
- Automatic quick activating arrestor
- Impact indicator
- Retractable lifeline
- Triple action karabiner, snap or scaffold hook with 16kN gate strength



### ULTRA-LOK™ SRL

Rugged, lightweight and superbly engineered. The professional's choice.

#### MODEL # DESCRIPTION

- |         |  |
|---------|--|
| 3103107 | 3.4m webbing lifeline. Also available: 6m  |
| 3504430 | 10m galvanised cable lifeline. Also available: 6m and 15m with either triple action Karabiners ideal for use in mining or swivel snap hook Ultra-Lok™ RSQ SRL                              |
| 3504555 | Ultra-Lok™ RSQ, 15m stainless steel cable lifeline and swivel snap hook, dual mode SRL with rescue function (assisted rescue tool and First-Man-Up™ pole available separately if required) |



3504555



3504430



8102001

### SALALIFT® II WINCH (LIGHTWEIGHT)

#### MODEL # DESCRIPTION

- |         |                           |
|---------|---------------------------|
| 8102001 | 18m, 6mm galvanised cable |
| 8102009 | 27m, 5mm galvanised cable |
| 8102005 | 36m, 5mm galvanised cable |
- Also available: stainless steel cable models

### ADVANCED DIGITAL WINCHES

#### MODEL # DESCRIPTION

- |         |                           |
|---------|---------------------------|
| 8518560 | 18m, 5mm galvanised cable |
| 8518561 | 27m, 5mm galvanised cable |
| 8518582 | 58m, 5mm galvanised cable |
- Also available: stainless steel cable and Technora rope



8518560





## DBI-SALA LAD-SAF® FLEXIBLE CABLE SYSTEM

**The Lad-Saf® Flexible Cable System provides maximum personal fall protection whilst ascending or descending a ladder.**

- Ideal for ascending and descending from all vertical applications including permanent ladders, power poles, electrical towers and chimneys.
- Designed for restrained fall arrest.
- Unique Lad-Saf® sleeve prevents falls by locking onto the cable. It is easily attached or removed anywhere along the cable using a deliberate double action locking mechanism and automatically follows as you climb or descend.
- Dual function top bracket features an elastomeric impact attenuator and a unique cable gripping device.
- Non-metallic cable guides reduce cable wear, permitting you to ascend or descend unhindered.
- Easy tensioning bottom bracket features a simple and quick to use adjusting mechanism whilst the washer system indicates that correct tension has been reached.
- Replaceable components.
- Systems available in either bolt on or weld on styles, constructed from either mild steel or stainless steel.
- Meets or exceeds all applicable industry standards.



### Lad-Saf® Flexible Cable System:

- **LS-B:** Lad-Saf® Kit - Bolt on system, steel
- **LS-B-SS:** Lad-Saf® Kit - Bolt on system, stainless steel
- **LS-W:** Lad-Saf® Kit - Weld on system, steel
- **LS-W-SS:** Lad-Saf® Kit - Weld on system, stainless steel
- **6116507:** Lad-Saf® Sleeve with shock absorber
- **6116540:** Lad-Saf® Sleeve with R-105-S karabiner

**Note:** Cable and cable guides ordered separately. Cable guides required on average every 8.0m (approx), different cable guides are available for diverse applications.



## PETZL FALL ARREST HARNESSSES



### PETZL AVAO BOD C71AAA

Leg loops equipped with self-locking DoubleBack buckles.

- X-shape construction reduces pressure points for optimal comfort in suspension.
- Widely spaced and padded shoulder straps for reduced neck-chafing.
- In case of a fall on the dorsal attachment, weight is taken up on the outer side of the leg loops leaving more time for a rescue to be effected.
- Self-locking double back buckles on each shoulder strap for a precision fit.
- Equipped with self-locking double back buckles on the waistbelt and leg loops.



### PETZL AVAO BOD FAST C71AFA

A work positioning and fall arrest full harness and for working in suspension. Quick release leg buckles.

- X-shape construction reduces pressure points for optimal comfort in suspension.
- Widely spaced and padded shoulder straps for reduced neck-chafing.
- In case of a fall on the dorsal attachment, weight is taken up on the outer side of the leg loops leaving more time for a rescue to be effected.
- Self-locking double back buckles on each shoulder strap for a precision fit.
- Equipped with FAST buckles on the leg loops.

## CORDEX LIGHTWEIGHT BELAY/RAPPEL GLOVES



S, M, L, XL, in black or beige

### Cordex

- Ergonomic cut for high dexterity without being too tight
- Made of high quality leather for the perfect balance between durability and dexterity
- Durable double layer of leather in high wear areas: fingertips, palm, between thumb and index finger
- Back made of breathable stretch nylon for excellent fit and ventilation
- Neoprene cuff with velcro closure
- Karabiner hole to attach gloves to harness



S, M, L, XL, in black or beige

### Cordex Plus

- Ergonomic cut for high dexterity
- Made of high quality leather for the perfect balance between durability and dexterity
- Palm is padded to protect from heat generated during long rappels or lowers
- Back is made of durable leather with abrasion resistant stretch nylon at key flex areas
- Durable double layer of leather in high wear areas: fingertips, palm, between thumb and index finger
- Neoprene cuff with velcro closure
- Karabiner hole to attach gloves to harness

## PETZL GRILLON

### Adjustable lanyard

Long adjustable lanyard with fine adjustment system for precise work positioning. The self locking device allows easy adjustment of length and users position. Various hook fittings available.

Longer lengths suitable for use as temporary static line.



Also available in 10m, 15m and 20m lengths.

CODE	Length	Weight
L52-2	2m	420g
L52-3	3m	530g
L52-5	5m	680g

## PETZL HANDLED ASCENDER



### Right and left versions

- Designed for ascending and occasional hauling
- Wide ergonomic moulded handle allows comfortable yet powerful grip
- Toothed cam with self cleaning slot optimises performance
- Upper connection hole for creating a pulley/rope clamp combination or for guiding rope





## PETZL ULTRA VARIO® HEADLAMP

### Ultra-powerful multi-beam headlamp with rechargeable battery

Headlamp keeps the hands free for work: may be worn on the head with the headband, or mounted on a helmet (ALVEO or VERTEX) with removable plates (included).

Constant lighting: guaranteed lighting performance that does not diminish during the entire rated battery life. Switches to reserve lighting when rechargeable high performance battery is almost discharged, lights to 43 lumens for a minimum of 1 hour.

Four modes adapt lighting to the activity: Low intensity mode, close-range work mode, movement mode and distance vision mode.

Simple and comfortable to use.

Rugged: excellent resistance to falls, to impacts and to crushing.

Waterproof (to -1 m for 30 minutes) and dustproof (IP 67).

No maintenance required after immersion.

## PETZL ASAP + ASAP'SORBER 350GM

Designed to arrest falls on single kernmantle construction ropes of 10-13mm diameter. Works on vertical or inclined rope and locks onto the rope if descent is too fast or if it is shock loaded. This device will also lock if grabbed by the user. OK Triact Karabiner included. Only supplied complete with ASAP'sorber (20cm or 40cm).



## PETZL VERTEX VENT 53-63CM 455g



Available in black, orange, white, red, yellow and blue.

A ventilated helmet for work at height and rescue.

- Chin strap designed to reduce the risk of the helmet coming off on a second impact. Breaking strength 50daN
- Vent holes that can be closed with sliding shutters.
- Meets all the optional requirements of EN 397 except those concerning electric insulation and molten splash.

Other helmets available:

- Vertex Best, Vertex ST and Alveo Vent

## PETZL MGO KARABINER



455g

60mm opening, with double safety system, for clipping to cables or metal rails.

## PETZL INDUSTRIAL DESCENDER



Self braking descender and belay device fitted with an anti-panic function that locks the I'D if the handle is pulled too hard. Available in two sizes, for ropes 11.5-13mm diameter, or 10-11.5mm diameter.

## PETZL PRO TRAXION



### Progress Capture Pulley

Efficient pulley with integrated progress capture system may be used to replace a traditional pulley/rope clamp set-up in hauling systems.



HEIGHT SAFETY SERVICING PTY LTD

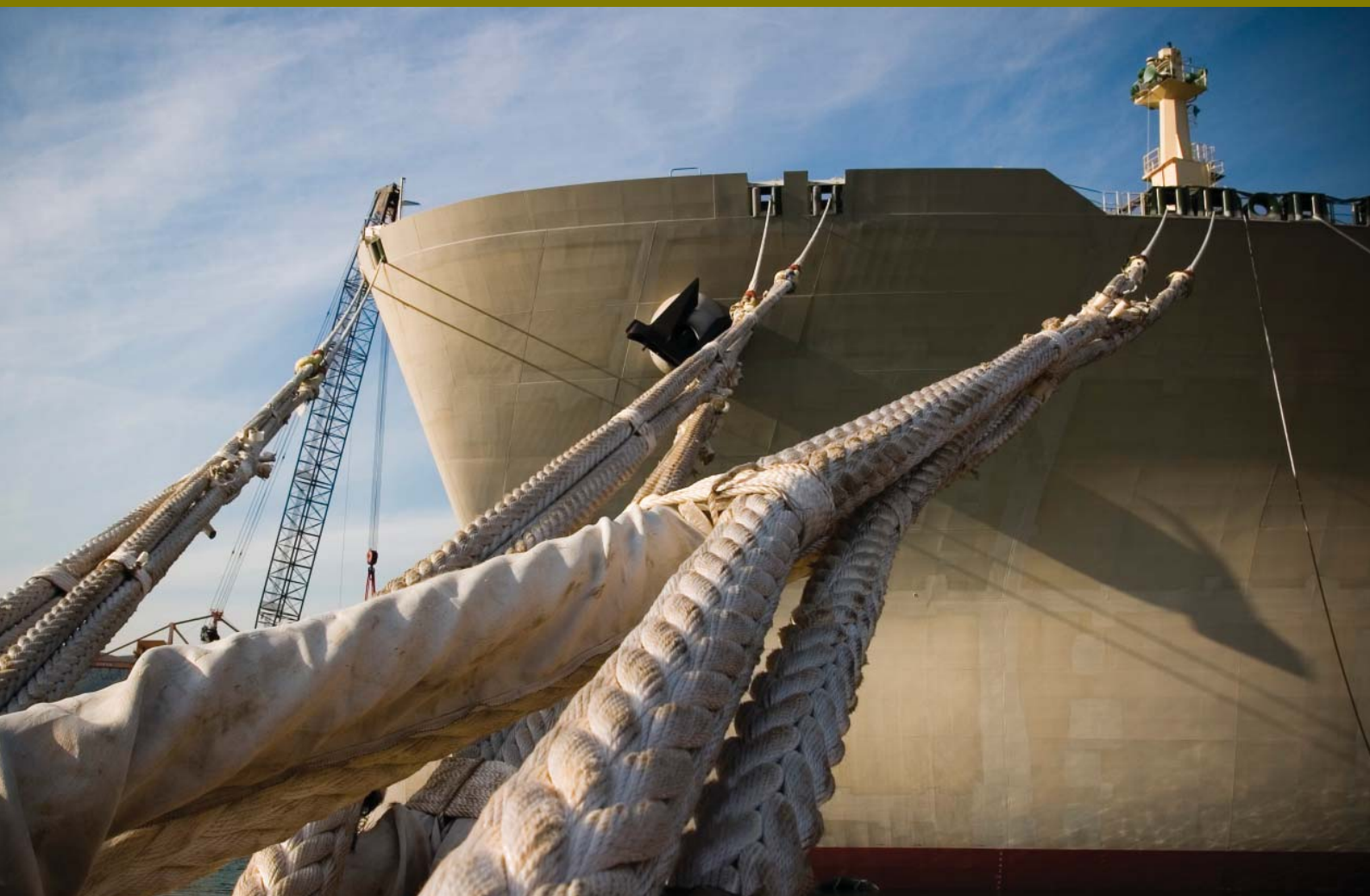


## Specialist in the inspection, servicing and repair of confined space and fall protection equipment.

- ▶ **Mandatory Servicing completed within 48 hours**
- ▶ **Live service history**
- ▶ **Standard pricing for Mandatory Servicing**
- ▶ **Access to all your Assets online**

HSS is an accredited service agent of Capital Safety, Sala, Protecta and Rebel fall prevention equipment and products. HSS is located in Yatala Queensland; however its efficient and effective service model allows HSS to be a viable option for Australian wide Distributors. HSS is committed to providing customer satisfaction, safety, transparency and quality with rapid response times decreasing the down time of necessary equipment.





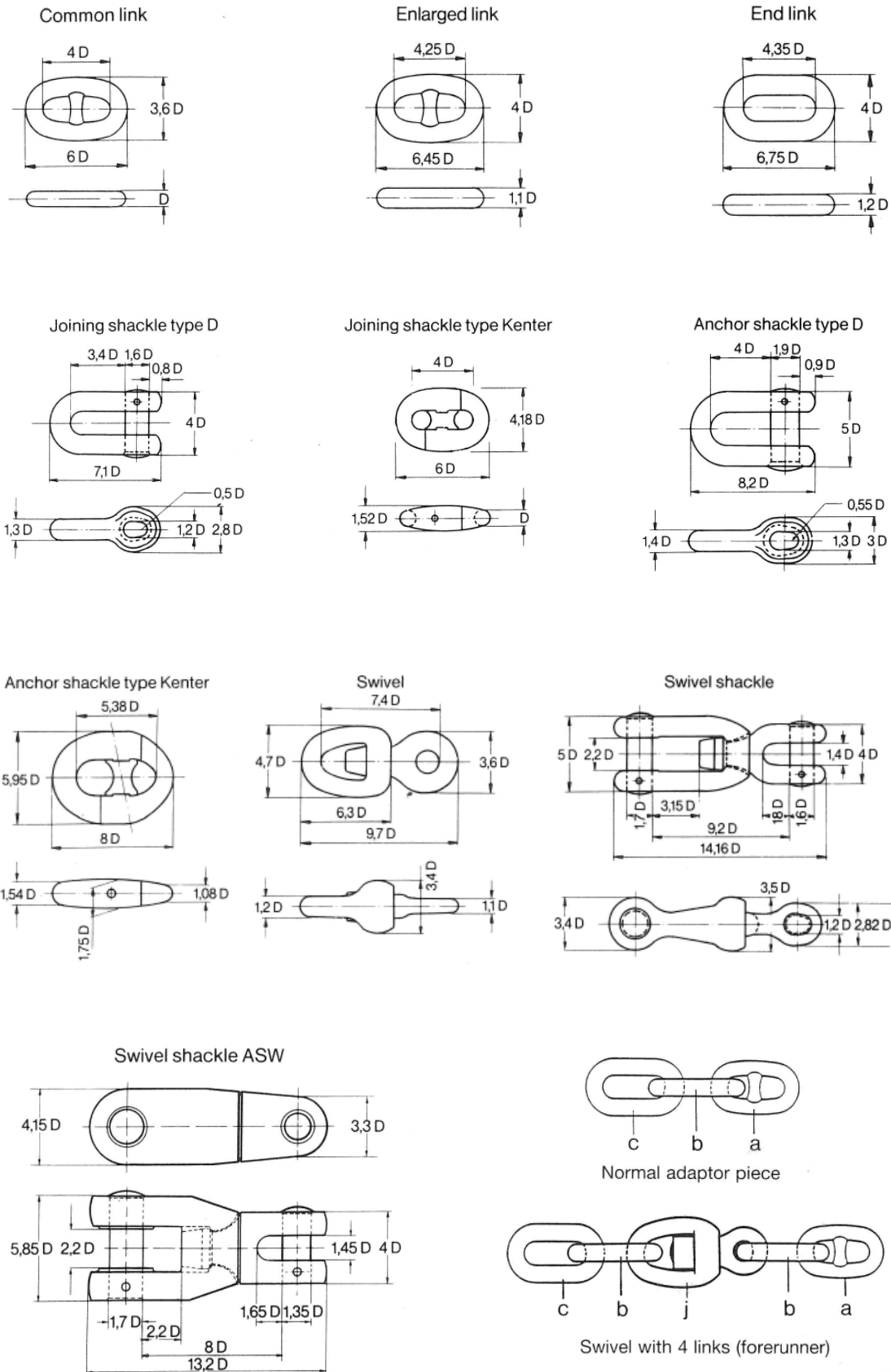
STUD LINK ANCHOR CHAIN &  
FITTINGS .....186-194  
DSR SYNTHETIC MOORING ROPES...195-208

MARINE  
& SHIPPING

## STUD LINK ANCHOR CHAIN & FITTINGS

### Approximate dimensions for chain and fittings

D = nominal diameter or chain.





# STUD LINK ANCHOR CHAIN & FITTINGS

## Approximate weights of chains and details

Diameter		Stud. Link Chain Weights		Common Link	Enlarged Link	End Link	Joining Shackle Kenter	Joining Shackle Type D	Anchor Shackle Type D	Swivel	Swivel Shackle
mm	inches	kg/m	kg/27.5m	kg	kg	kg	kg	kg	kg	kg	kg
12.5	1/2	3.5	96	0.17	0.23	0.23	0.39	0.8	1.1	0.9	—
14	9/16	4.4	121	0.24	0.32	0.36	0.51	1.1	1.3	1.3	—
16	5/8	5.8	160	0.36	0.50	0.51	0.62	1.3	1.6	1.7	—
17.5	11/16	7.0	193	0.47	0.74	0.68	0.82	1.6	2.0	2.1	—
19	3/4	8.1	223	0.60	0.88	0.89	1.00	1.8	2.5	2.5	—
20.5	13/16	10.0	275	0.75	1.10	1.13	1.35	2.1	3.3	3.1	—
22	7/8	11.1	305	0.93	1.25	1.28	1.6	2.5	4.0	3.5	10
24	15/16	13.3	366	1.21	1.70	1.77	2.0	3.5	5.0	5.0	14
26	1	15.7	432	1.55	2.15	2.20	2.7	4.3	6.0	6.0	18
28	1 1/8	18.3	503	1.9	2.8	2.9	3.3	5.0	8.0	7.5	23
30	1 3/16	21.0	578	2.4	3.2	3.3	3.9	7.0	9.5	9.0	28
32	1 1/4	23.9	657	2.9	3.9	4.0	4.6	7.5	12.0	11.0	33
34	1 5/16	27.0	743	3.4	4.7	5.0	5.8	9.5	14.0	13.5	38
36	1 7/16	30.2	831	4.0	5.5	5.9	6.6	11.0	17.0	16.0	46
38	1 1/2	33.7	927	4.7	6.1	6.8	7.8	13.0	20.0	19.0	53
40	1 9/16	37.1	1020	5.5	7.1	8.0	9.1	15.0	23.0	23.0	61
42	1 5/8	40.5	1114	6.4	8.4	9.6	10.5	17.5	26.0	27.0	69
44	1 3/4	44.3	1218	7.4	10.0	11.2	12.2	20.0	29.0	32.0	75
46	1 13/16	48.5	1334	8.5	11.5	13.0	14.0	22.5	33	37.0	82
48	1 7/8	52.8	1452	9.8	13.1	15.0	16.0	26.0	37	44.0	90
50	2	57	1568	11	15	17	18	29	41	57	97
52	2 1/16	62	1705	13	17	20	20	31	45	57	105
54	2 1/8	66	1815	14	19	22	20	34	50	67	113
56	2 3/16	71	1953	16	21	23	24	38	54	67	120
58	2 5/16	77	2118	17	23	25	28	44	65	80	129
60	2 3/8	83	2283	19	25	27	28	48	70	95	140
62	2 7/16	88	2420	21	28	30	33	52	76	95	140
64	2 1/2	94	2585	23	31	34	38	57	82	112	155
66	2 5/8	100	2750	25	34	38	38	66	94	130	180
68	2 11/16	107	2943	27	37	42	44	70	101	130	180
70	2 3/4	114	3135	30	40	45	44	75	108	152	200
73	2 7/8	124	3410	34	45	52	51	87	124	172	250
76	3	135	3713	39	50	59	58	99	141	194	315
78	3 1/16	142	3905	42	55	63	65	106	150	194	315
81	3 3/16	154	4235	46	61	70	74	119	171	220	375
84	3 5/16	166	4565	52	68	78	84	134	193	242	425
87	3 7/16	178	4895	58	75	86	94	150	218	270	475
90	3 9/16	189	5198	64	82	95	105	167	243	300	540
92	3 5/8	199	5473	68	88	100	105	175	256	325	570
95	3 3/4	211	5803	75	98	112	115	200	290	350	610
97	3 7/8	220	6060	80	102	120	135	210	305	350	610
100	3 15/16	234	6435	88	112	130	150	230	335	385	680
102	4	243	6683	93	120	138	150	243	350	420	772
107	4 1/4	266	7315	109	140	158	175	285	410	495	830
111	4 3/8	298	7893	120	160	175	200	305	445	535	860
114	4 1/2	304	8360	130	173	193	225	325	475	570	900
117	4 5/8	317	8718	142	185	210	225	345	505	610	950
122	4 3/4	345	9488	160	210	235	267	380	550	650	1000
127	5	375	10313	182	235	260	315	420	600	720	1080
132	5 1/8	400	11000	205	260	305	370	480	675	760	1150
137	5 3/8	436	11990	230	285	330	390	550	750	900	1500
142	5 5/8	467	12843	255	325	375	450	650	900	1100	1900
147	5 3/4	489	13723	280	395	410	505	720	1055	1200	2100
152	6	535	14713	310	410	460	545	810	1200	1400	2500
157	6 3/16	570	15675	345	455	510	605	900	1340	1550	2800
162	6 3/8	610	16775	375	500	560	660	980	1450	1700	3000

### Volume of Anchor Chain

The volume of anchor chain to be stored in the chain locker can be estimated at approx. 0.5m<sup>3</sup>/metric ton of chain.

## STUD LINK ANCHOR CHAIN &amp; FITTINGS

## Equipment tables

Diameter		Proof Loads						Breaking Loads					
		Grade 2		Grade 3		Grade 4		Grade 2		Grade 3		Grade 4	
mm	inches	kN	lbs	kN	lbs	kN	lbs	kN	lbs	kN	lbs	kN	lbs
12.5	1/2	66	15300	92	21400	145	33600	92	21400	132	30600	185	42800
14	9/16	82	19300	116	27000	182	42400	116	27000	165	38600	232	54000
16	5/8	107	23700	150	33200	236	52200	150	33200	216	47500	300	66400
17.5	11/16	127	28600	179	40100	282	63000	179	40100	256	57300	359	80200
19	3/4	150	34000	211	47600	331	74700	211	47600	301	68000	421	95100
20.5	13/16	175	39800	244	55700	385	87400	244	55700	349	79500	490	111000
22	7/8	200	46000	280	64400	442	10100	280	64400	401	91800	563	129000
24	15/16	237	52600	332	73700	524	116000	332	73700	476	105000	667	148000
26	1	278	59700	389	83600	612	131000	389	83600	556	119500	779	167000
28	1 1/8	321	75000	449	105000	707	165000	449	105000	642	150000	900	210000
30	1 3/16	368	83400	514	116500	809	183000	514	116500	735	167000	1030	233000
32	1 1/4	417	92200	583	129000	917	203000	583	129000	833	184000	1170	258000
34	1 5/16	468	101500	655	142000	1030	223000	655	142000	937	203000	1310	284000
36	1 7/16	523	120500	732	169000	1150	265000	732	169000	1050	241000	1460	337000
38	1 1/2	581	131500	812	183500	1280	288000	812	183500	1160	262000	1630	366000
40	1 9/16	640	142000	896	198500	1410	312000	896	198500	1280	284000	1790	397000
42	1 5/8	703	153000	981	214000	1550	336000	981	214000	1400	306000	1970	428000
44	1 3/4	769	176000	1080	247000	1690	387000	1080	247000	1540	352000	2150	492000
46	1 13/16	837	188500	1170	264000	1840	414000	1170	264000	1680	377000	2340	527000
48	1 7/8	908	201000	1280	281000	2000	442000	1280	281000	1810	402000	2550	562000
50	2	981	227000	1370	318000	2160	499000	1370	318000	1960	454000	2750	635000
52	2 1/16	1060	241000	1480	337000	2330	529000	1480	337000	2110	482000	2970	673000
54	2 1/8	1140	255000	1590	357000	2500	560000	1590	357000	2270	510000	3180	713000
56	2 3/16	1220	269000	1710	377000	2680	592000	1710	377000	2430	538000	3410	753000
58	2 5/16	1290	299000	1810	418000	2860	657000	1810	418000	2600	598000	3640	837000
60	2 3/8	1380	314000	1940	440000	3040	692000	1940	440000	2770	628000	3870	879000
62	2 7/16	1470	330000	2060	462000	3240	725000	2060	462000	2940	660000	4120	923000
64	2 1/2	1560	346000	2190	484000	3430	760000	2190	484000	3130	692000	4380	967000
66	2 5/8	1660	379000	2310	530000	3460	852000	2310	530000	3300	758000	4630	1059000
68	2 11/16	1750	396000	2450	554000	3850	870000	2450	554000	3500	792000	4900	1108000
70	2 3/4	1840	413000	2580	578000	4060	908000	2580	578000	3690	826000	5170	1156000
73	2 7/8	1990	449000	2790	628000	4390	987000	2790	628000	3990	897000	5580	1256000
76	3	2150	485000	3010	679000	4730	1066000	3010	679000	4300	970000	6010	1357000
78	3 1/16	2260	504000	3160	705000	4950	1108000	3160	705000	4500	1008000	6310	1410000
81	3 3/16	2410	542000	3380	759000	5320	1192000	3380	759000	4820	1084000	6760	1518000
84	3 5/16	2580	582000	3610	814000	5680	1278000	3610	814000	5160	1163000	7230	1628000
87	3 7/16	2750	622000	3850	871000	6050	1368000	3850	871000	5500	1244000	7700	1740000
90	3 9/16	2920	664000	4090	929000	6440	1458000	4090	929000	5840	1327000	8190	1857000
92	3 5/8	3040	685000	4260	958000	6690	1504000	4260	958000	6080	1369000	8520	1916000
95	3 3/4	3230	728000	4510	1019000	7090	1599000	4510	1019000	6440	1455000	9030	2035000
97	3 7/8	3350	772000	4680	1080000	7360	1696000	4680	1080000	6690	1543000	9370	2159000
100	3 15/16	3530	794000	4940	1111000	7770	1745000	4940	1111000	7060	1587000	9890	2220000
102	4	3660	816000	5120	1143000	8040	1795000	5120	1143000	7320	1632000	10240	2284000
105	4 1/8	3860	862000	5390	1207000	8470	1894000	5390	1207000	7700	1724000	10780	2412000
107	4 1/4	3980	908000	5570	1272000	8760	1998000	5570	1272000	7960	1817000	11140	2542000
111	4 3/8	4250	956000	5940	1338000	9340	2101000	5940	1338000	8480	1911000	11890	2674000
114	4 1/2	4440	1004000	6230	1405000	9780	2207000	6230	1405000	8890	2008000	12450	2808000
117	4 5/8	4650	1053000	6510	1474000	10230	2315000	6510	1474000	9300	2105000	13030	2945000
120	4 3/4	4860	1102000	6810	1543000	10690	2423000	6810	1543000	9720	2204000	13610	3084000
127	5	5350	1203000	7490	1685000	11780	2645000	7490	1685000	10710	2407000	14990	3366000
130	5 1/8	5570	1255000	7800	1757000	12250	2758000	7800	1757000	11140	2509000	15600	3510000
137	5 3/8	6080	1359000	8510	1903000	13390	2988000	8510	1903000	12160	2178000	17050	3802000
142	5 5/8	6450	1466000	9030	2052000	14220	3222000	9030	2052000	12910	2932000	18100	4100000
147	5 3/4	6840	1520000	9560	2128000	15050	3341000	9560	2128000	13660	3039000	19160	4251000
152	6	7220	1629000	10100	2280000	15890	3580000	10100	2280000	14430	3257000	20230	4556000
157	6 1/8	7600	1684000	10650	2357000	16740	3701000	10640	2357000	15200	3367000	21310	5710000
162	6 3/8	7990	1795000	11170	2512000	17600	3945000	11170	2512000	15970	3589000	22400	5020000

Proof and breaking loads (F) can be determined by the following formula:

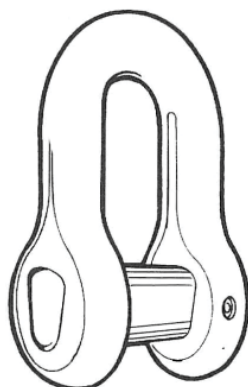
$$F = C \times d^2 (44 - 0.08 d)$$

d = nominal diam of chain

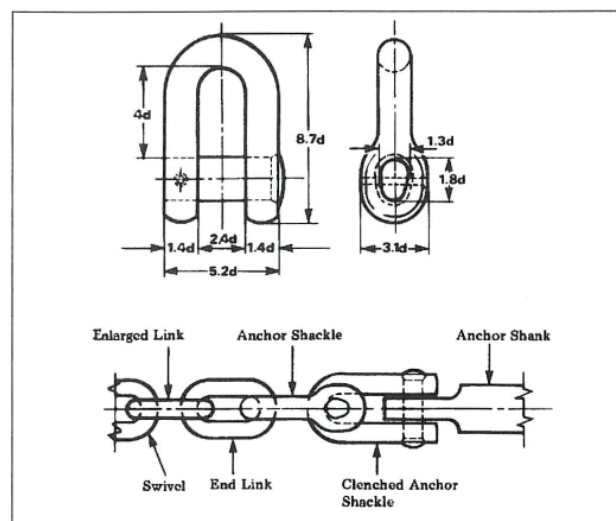
C = Constant as determined by classification Societies

## STUD LINK ANCHOR CHAIN & FITTINGS

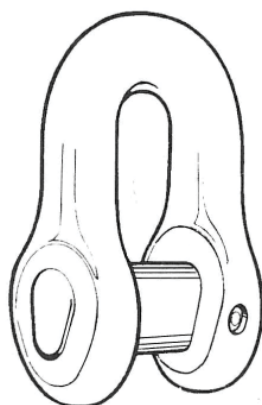
### 'D' Type anchor shackles (lugged)



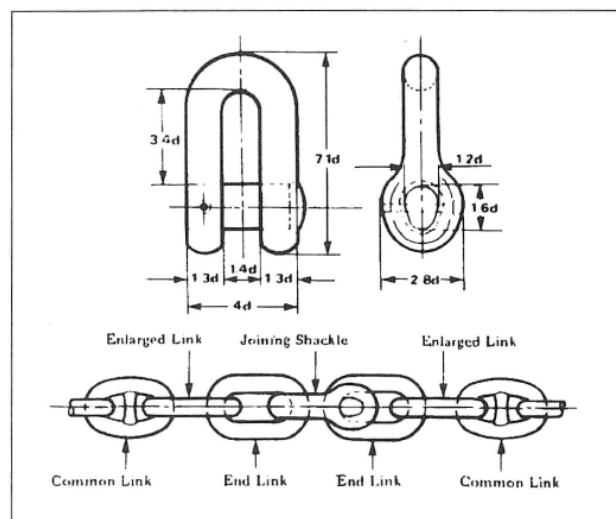
Size mm	Weight kg
19	2.5
22	3.8
25	6.0
29	8.4
32	11.3
35	15.5
38	19.8
42	26
44	32
48	39
51	48
54	57
57	67
60	80
64	93
67	106
70	121
73	141
76	159
79	182
83	203
86	230
89	255
92	281
95	310
98	345
102	378



### 'D' Type joining shackles (lugged)



Size mm	Weight kg
19	1.7
22	2.7
25	4.2
29	5.8
32	7.8
35	10.8
38	13.8
41	17.9
44	22
48	27
51	33
54	39
57	46
60	56
64	64
67	74
70	84
73	98
76	110
79	126
83	141
86	159
89	177
92	195
95	215
98	240
102	262

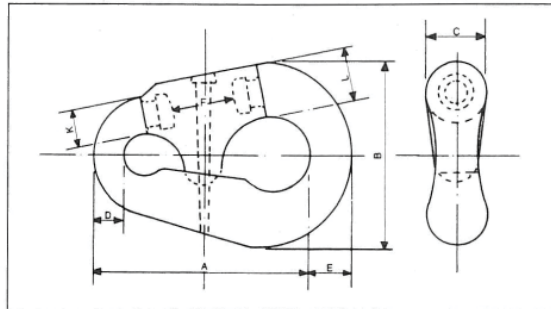
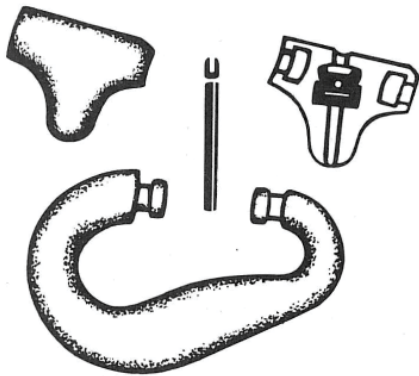




## STUD LINK ANCHOR CHAIN & FITTINGS

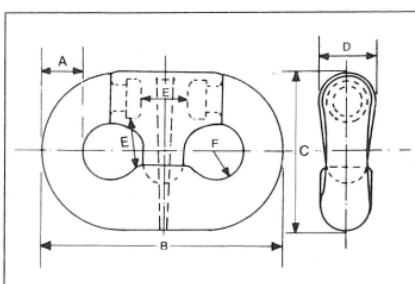
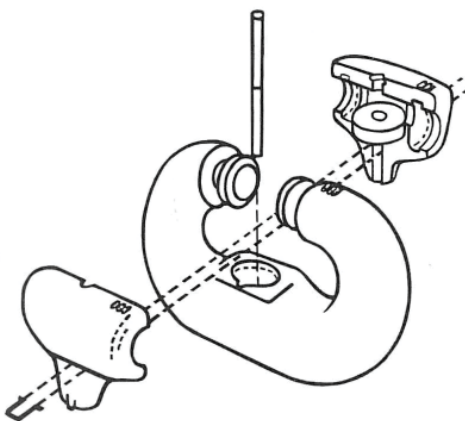
### Pear shaped shackle

The Pear Shackle is the ideal spare shackle because it replaces the Kenter joining shackle, 3-link piece and the 'D'-anchor shackle



No.	Diameter of Chain mm	A mm	B mm	C mm	D mm	E mm	F mm	K mm	L mm
2	19 - 24	194	132	40	24	32	52	24	35
3	26 - 30	238	167	46	30	38	65	32	46
4	32 - 40	298	206	59	40	48	79	39 x 44	57
5	42 - 50	381	251	76	51	64	100	52 x 64	76
6	52 - 60	454	313	92	60	76	121	62 x 73	89
7	62 - 76	559	376	117	76	95	143	79	111
8	78 - 92	651	406	140	92	124	152	111 x 122	130
9	90 - 95	692	435	146	98	130	159	124 x 137	141
10	97 - 102	889	572	190	120	165	190	121 x 148	181
11	103 - 111	940	610	203	127	172	203	147 x 155	194
12	108 - 114	990	648	216	133	184	216	165 x 172	203

### Detachable chain connecting links



Chain Size Inches	mm	A in.	B in.	C in.	D in.	E in.	F in.	Proof Test in pounds	Break Test in pounds	Wt. Lbs.
3/4	19	3/4	4 1/2	3	1 3/64	27/32	1/2	67,500	91,100	2.1
13/16 - 7/8	21-22	7/8	5 1/4	3 1/2	1 1/32	63/64	10/32	88,200	119,000	3.4
15/16 - 1	24-25	1	6	4	1 25/64	1 1/8	21/32	116,100	156,700	5.1
1 1/16 - 1 1/8	27-29	1 1/8	6 3/4	4 1/2	1 9/16	1 17/64	47/64	145,000	195,000	7.2
1 3/16 - 1 1/4	30-32	1 1/4	7 1/2	5	1 47/64	1 13/32	13/16	178,200	240,600	9.9
1 5/16 - 1 3/8	33-34	1 3/8	8 1/4	5 1/2	1 22/32	1 35/64	29/32	211,500	285,500	13.3
1 7/16 - 1 1/2	36-38	1 1/2	9	8	2 5/64	1 11/16	63/64	252,000	340,200	17.3
1 9/16 - 1 5/8	40-42	1 5/8	9 3/4	6 1/2	2 1/4	1 53/64	1 1/16	292,500	395,000	22
1 11/16 - 1 3/4	43-44	1 3/4	10 1/2	7	2 7/16	1 31/32	1 3/16	352,000	476,000	27.5
1 13/16 - 1 7/8	46-48	1 7/8	11 1/4	7 1/4	2 11/32	2 3/32	1 15/64	285,000	432,000	32
1 15/16 - 2	50-51	2	12	7 3/4	2 1/2	2 5/16	1 5/16	322,000	488,000	36
2 1/16 - 2 1/8	52-54	2 1/8	12 3/4	8 1/4	2 21/32	2 1/2	1 13/32	362,000	584,000	44
2 3/16 - 2 1/4	56-58	2 1/4	13 1/2	8 23/32	2 13/16	2 5/8	1 1/2	403,000	610,000	52
2 5/16 - 2 3/8	59-60	2 3/8	14 1/4	9 7/32	2 31/32	2 3/4	1 8/16	447,000	675,000	61
2 7/16 - 2 1/2	62-64	2 1/2	15	9 11/16	3 1/8	2 1/8	1 21/32	492,000	744,000	71
2 9/16 - 2 5/8	66-67	2 5/8	15 3/4	10 3/16	3 1/4	3 1/16	1 3/4	540,000	813,000	82
2 11/16 - 2 3/4	68-70	2 7/8	16 1/2	10 13/16	3 11/16	3 1/4	1 13/16	649,000	981,000	100
2 13/16 - 2 7/8	71-73	2 7/8	17 1/4	11 1/8	3 19/32	3 11/32	1 29/32	640,000	965,000	107
2 15/16 - 3	75-76	3 3/16	18	11 7/8	4 3/32	3 3/8	1 29/32	762,000	1,150,000	145
3 1/16 - 3 1/8	78-79	3 1/8	18 3/4	12 1/8	3 29/32	3 5/8	2 3/64	748,000	1,128,000	138
3 3/16 - 3 1/4	81-83	3 1/4	19 1/2	12 5/8	4 1/16	3 3/8	2 5/32	805,000	1,250,000	161
3 5/16 - 3 3/8	84-86	3 3/8	20 1/4	13 3/32	4 7/32	3 15/16	2 1/4	862,000	1,304,000	177
3 7/16 - 3 1/2	87-89	3 3/4	21 1/8	13 23/32	4 13/16	4 1/8	2 13/32	1,080,000	1,700,000	205
3 11/16 - 3 3/4	94-95	3 3/4	22 1/2	14 1/2	4 11/16	4 11/16	2 7/16	1,045,000	1,575,000	255
4 3/4	120	4 3/4	28 1/2	18 7/16	5 15/16	5 1/2	3 3/8	1,700,000	2,550,000	590

Military Specification MIL-L-2710

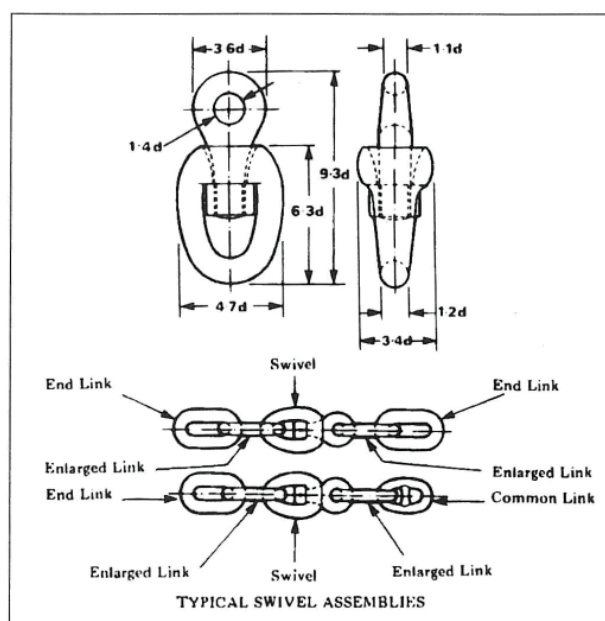


## STUD LINK ANCHOR CHAIN & FITTINGS

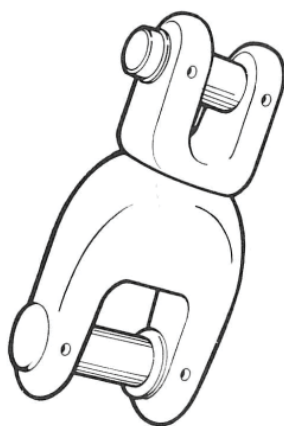
### Bow and eye swivels



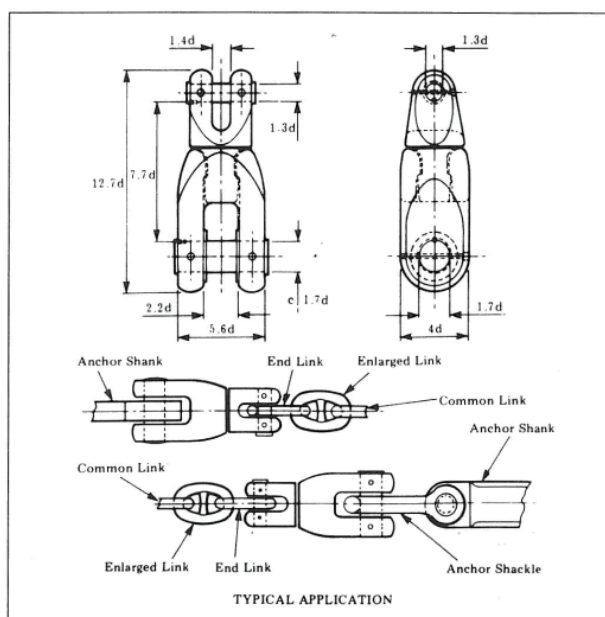
Size mm	Weight kg
19	2.8
22	4.4
25	6.8
29	9.4
32	12.7
35	17.5
38	22
41	29
44	36
48	43
51	54
54	64
57	75
60	90
64	104
67	120
70	137
73	159
76	179
79	205
83	229
86	259
89	287
92	317
95	349
98	389
102	426



### Jaw and jaw swivels

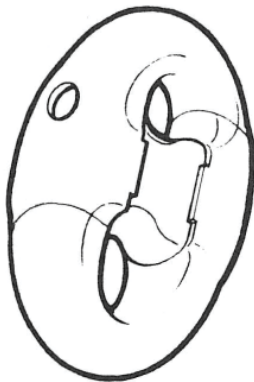


Size mm	Weight kg
51	90
54	100
57	128
60	140
64	155
67	180
70	200
73	250
76	299
83	399
89	539
95	610
102	772

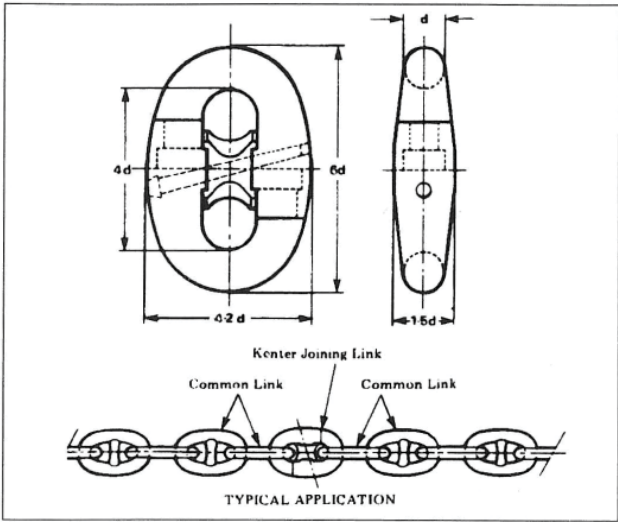


**STUD LINK ANCHOR CHAIN & FITTINGS**

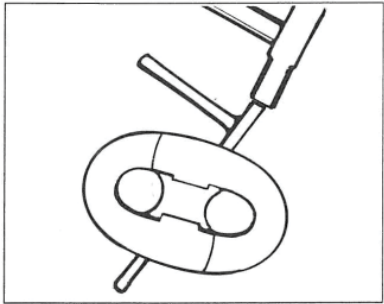
**Kenter joining shackles (lugless)**



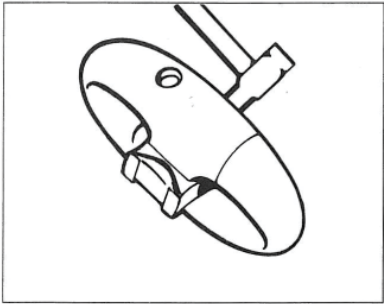
Size mm	Weight kg
19	1.0
22	1.6
25	2.6
29	3.5
32	4.8
35	6.5
38	8.4
41	11.0
44	13.5
48	16.5
51	20
54	24
57	28
60	32
64	39
67	45
70	52
73	60
76	67
79	77
83	86
86	97
89	108
92	119
95	131
98	147
102	161



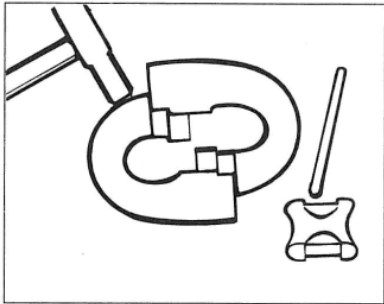
**The dismantling of a Kenter shackle**



The taper pin is driven cut with a punch from its narrow end. The lead pellet (for the securing of the taper pin) is displaced and the taper pin can be removed.



The centre chock is knocked straight out.



The shackle halves are separated.

## STUD LINK ANCHOR CHAIN &amp; FITTINGS

## Proof and breaking loads - stud link anchor chain

In accordance with the requirements of the Classification Societies.

Equipment Number		Equipment Letter					Stud Link Chain Cables for Bower Anchor				Stockless Bower Anchor	
Exceed- ing	Not Exceed- ing	USSR BV	LR	AB	NV	GL	Total Length Length mm	Diameter mm			Number	Weight per Anchor kg
								Grade 1	Grade 2	Grade 3		
50	70	-	A	U1	a		220	14	12.5	-	2	180
70	90	-	B	U2	b		220	16	14	-	2	240
90	110	-	C	U3	c		247.5	17.5	16	-	2	300
110	130	-	D	U4	d		247.5	19	17.5	-	2	360
130	150	-	E	U5	e		275	20.5	17.5	-	2	420
150	175	-	F	U6	f		275	22	19	-	2	480
175	205	-	G	U7	g		302.5	24	20.5	-	2	570
205	240	-	H	U8	h	109	302.5	26	22	20.5	3	660
240	280	-	I	U9	i	110	330	28	24	22	3	780
280	320	-	J	U10	j	111	357.5	30	26	24	3	900
320	360	-	K	U11	k	112	357.5	32	28	24	3	1020
360	400	-	L	U12	l	113	385	34	30	26	3	1140
400	450	-	M	U13	m	114	385.0	36	32	28	3	1290
450	500	-	N	U14	n	115	412.5	38	34	30	3	1440
500	550	-	O	U15	o	116	412.5	40	34	30	3	1590
550	600	-	P	U16	p	117	440	42	36	32	3	1740
600	660	-	Q	U17	q	118	440	44	38	34	3	1920
660	720	-	R	U18	r	119	440	46	40	36	3	2100
720	780	-	S	U19	s	120	467.5	48	42	36	3	2280
780	840	-	T	U20	t	121	467.5	50	44	38	3	2460
840	910	-	U	U21	u	122	467.5	52	46	40	3	2640
910	980	-	V	U22	v	123	495	54	48	42	3	2850
980	1060	-	W	U23	w	124	495	56	50	44	3	3060
1060	1140	-	X	U24	x	125	495	58	50	46	3	3300
1140	1220	-	Y	U25	y	126	522.5	60	52	46	3	3540
1220	1300	-	Z	U26	z	127	522.5	62	54	48	3	3780
1300	1390	-	A+	U27	A	128	522.5	64	56	50	3	4050
1390	1480	-	B+	U28	B	129	550	66	58	50	3	4320
1480	1570	-	C+	U29	C	130	550	68	60	52	3	4590
1570	1670	-	D+	U30	D	131	550	70	62	54	3	4890
1670	1790	-	E+	U31	E	132	577.5	73	64	56	3	5250
1790	1930	-	F+	U32	F	133	577.5	76	66	58	3	5610
1930	2080	-	G+	U33	G	134	577.5	78	68	60	3	6000
2080	2230	-	H+	U34	H	135	605	81	70	62	3	6450
2230	2380	-	I+	U35	I	136	605	84	73	64	3	6900
2380	2530	-	J+	U36	J	137	605	87	76	66	3	7350
2530	2700	-	K+	U37	K	138	632.5	90	78	68	3	7800
2700	2870	-	L+	U38	L	139	632.5	92	81	70	3	8300
2870	3040	-	M+	U39	M	140	632.5	95	84	73	3	8700
3040	3210	-	N+	U40	N	141	660	97	84	76	3	9300
3210	3400	-	O+	U41	O	142	660	100	87	78	3	9900
3400	3600	-	P+	U42	P	143	660	102	90	78	3	10500
3600	3800	-	Q+	U43	Q	144	687.5	105	92	81	3	11100
3800	4000	-	R+	U44	R	145	687.5	107	95	84	3	11700
4000	4200	-	S+	U45	S	146	687.5	111	97	87	3	12300
4200	4400	-	T+	U46	T	147	715	114	100	87	3	12900
4400	4600	-	U+	U47	U	148	715	117	102	90	3	13500
4600	4800	-	V+	U48	V	149	715	120	105	92	3	14100
4800	5000	-	W+	U49	W	150	742.5	122	107	95	3	14700
5000	5200	-	X+	U50	X	151	742.5	124	111	97	3	15400
5200	5500	-	Y+	Y51	Y	152	742.5	127	111	97	3	16100
5500	5800	-	Z+	U52	Z	153	742.5	130	114	100	3	16900
5800	6100	-	A*	U53	A*	154	742.5	132	117	102	3	17800
6100	6500	-	B*	U54	B*	155	742.5	137	120	107	3	18800
6500	6900	-	C*	U55	C*	156	770	-	124	111	3	20000
6900	7400	-	D*	U56	D*	157	770	-	127	114	3	21500
7400	7900	-	E*	U57	E*	157	770	-	132	117	3	23000
7900	8400	-	F*	U58	F*	159	770	-	137	122	3	24500
8400	8900	-	G*	U59	G*	160	770	-	142	127	3	26000
8900	9400	-	H*	U60	H*	161	770	-	147	132	3	27500
9400	10000	-	I*	U61	I*	162	770	-	152	132	3	29000
10000	10700	-	J*	U62	J*		770	-	157	137	3	31000
10700	11500	-	K*	U63	K*		770	-	157	142	3	33000
11500	12400	-	L*	U64	L*		770	-	162	147	3	35500
12400	13400	-	M*	U65	M*		770	-	-	152	3	38500
13400	14600	-	N*	U66	N*		770	-	-	157	3	42000
14600	16000	-	O*	U67	O*		770	-	-	162	3	46000

AB = American Bureau  
NV = Det Norske Veritas  
GL = Germanischer Lloyd

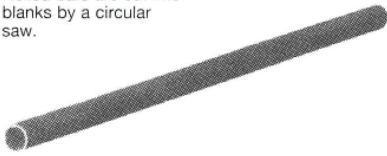
USSR = USSR Register of Shipping  
BV = Bureau Veritas  
LR = Lloyd's Register of Shipping

## STUD LINK ANCHOR CHAIN & FITTINGS

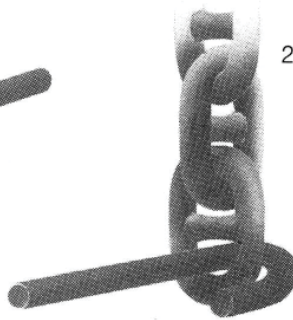
### Processes of manufacture

Inserted stud, link chain. For shipping and general mooring.

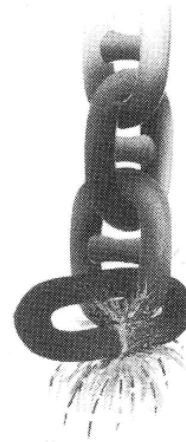
1. Rolled bars are cut into blanks by a circular saw.



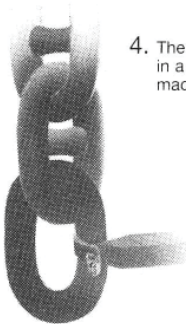
2. The heated blank is bent into the chain.



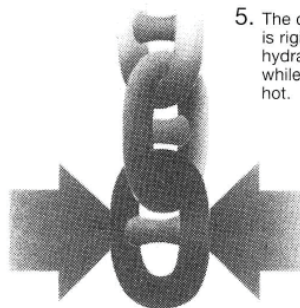
3. The link is welded in a flash welding machine.



4. The burr is removed in a trimming machine.



5. The drop forged stud is rigidly fixed by hydraulic pressure while the link is still hot.



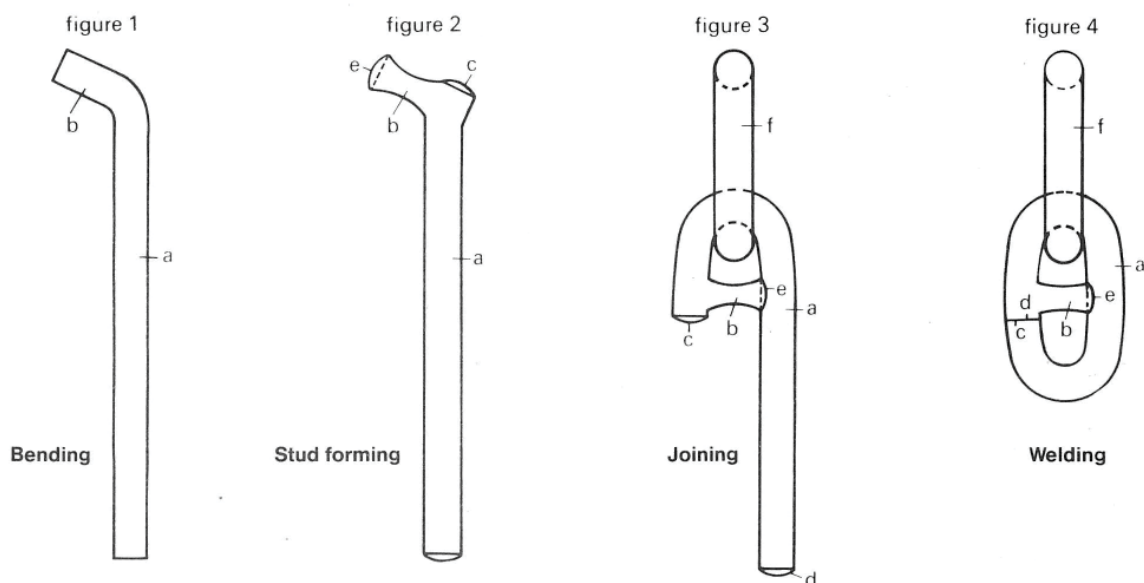
6. After fixing, the studs are welded with semi-automatic welding machines.



7. The chains are heat treated in a continuous electrically heated furnace.

### GWEC integral stud link chain

Specially manufactured for permanent moorings and offshore supply vessels.





## DSR MOORING ROPES

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# SuperMax<sup>®</sup> Rope

*Maximum strength to weight ratio,  
and strength comparable to steel wire rope*

SuperMax<sup>®</sup> is the latest development of Ultra High Molecular Weight Polyethylene(UHMWPE) fiber braided rope utilizing DSR's own rope design and manufacturing know-how's.

SuperMax<sup>®</sup> has the strongest tensile strength per weight.

SuperMax<sup>®</sup> is stronger than the wire rope of same diameter, and it weighs 1/8 of wire rope.

SuperMax<sup>®</sup> is treated with DSR's unique coating process and special heat treatment process to enhance its anti-abrasion characteristics.

- Melting point : 150°C
- Specific gravity : 0.97 (Float)
- Elongation at break : 4 ~ 5%
- Water absorption : None
- UV resistance : Good

## Characteristics

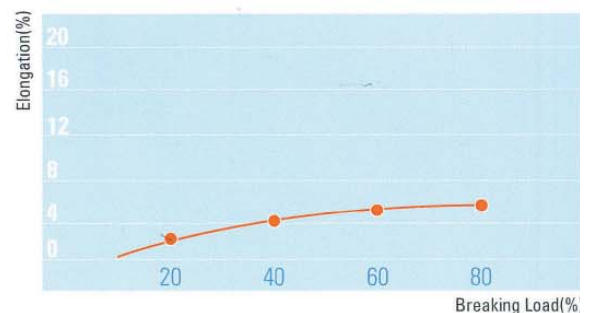
- Maximum strength to weight ratio, and strength comparable to steel wire rope
- Lowest elongation
- Longer life, and easy handling
- Superior abrasion resistance
- Non-kinking, and non-rotating
- Easy to splice

## Applications

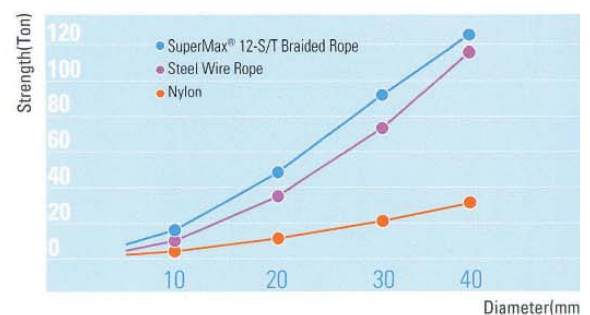
- Mooring Lines
- Anchor Lines
- Lifting Sling & Nets
- Towing Rope
- Heaving Rope
- Tug Rope

## Strong, Light, Flexible

### Elongation Table



### Breaking Strength



## DSR MOORING ROPES

# DSR

## SuperMax<sup>®</sup> 12-Strand Braided Rope

DIA		CIR	Weight			Breaking Strength	
MM	INCH	INCH	KGS/100M	LBS/100FT	LBS/100FM	Ton	kN
6	1/4	3/4	2.3	1.55	9.30	4.2	41.2
8	5/16	1	3.9	2.62	15.72	6.7	65.7
10	13/32	1-1/8	5.9	3.96	23.76	10.8	105.9
12	15/32	1-1/2	9.5	6.38	38.28	16.5	161.9
14	9/16	1-3/4	12.8	8.60	51.60	22.0	215.8
16	5/8	2	16.0	10.75	64.50	27.5	269.8
18	23/32	2-1/4	20.8	13.98	83.88	35.0	343.3
20	13/16	2-1/2	25.5	17.14	102.84	41.5	407.1
22	7/8	2-3/4	30.5	20.50	123.00	50.0	490.5
24	15/16	3	35.8	24.06	144.36	58.0	569.0
26	1-1/32	3-1/4	41.0	27.55	165.30	66.0	647.4
28	1-1/8	3-1/2	46.5	31.25	187.50	74.0	725.9
30	1-3/16	3-3/4	52.0	34.94	209.64	81.5	799.5
32	1-1/4	4	57.0	39.30	235.80	88.5	868.2
34	1-11/32	4-1/4	62.5	42.00	252.00	96.0	941.7
36	1-7/16	4-1/2	68.0	45.69	274.14	104.0	1020.2
38	1-1/2	4-3/4	74.0	49.73	298.38	112.0	1098.7
40	1-19/32	5	84.0	56.45	338.70	127.0	1245.8
42	1-21/32	5-1/4	93.0	62.49	374.94	140.0	1373.4
44	1-3/4	5-1/2	102.0	68.54	411.24	152.0	1491.1
46	1-13/16	5-5/8	111.0	74.59	447.54	165.0	1618.6
48	1-7/8	6	121.0	81.31	487.86	179.0	1755.9
50	2	6-1/4	131.0	88.03	528.18	193.0	1893.3
52	2-1/16	6-1/2	141.0	94.75	568.50	206.0	2020.8
56	2-1/4	7	163.0	109.53	657.18	236.0	2315.1
60	2-3/8	7-1/2	175.0	117.59	705.54	252.0	2472.0
64	2-1/2	8	200.0	134.39	806.34	282.0	2766.3
68	2-11/16	8-1/2	226.0	151.86	911.16	316.0	3099.9
72	2-7/8	9	254.0	170.68	1024.08	348.0	3413.8
80	3-5/32	10	313.0	210.32	1261.92	422.0	4139.7
88	3-7/16	11	379.0	254.74	1528.44	503.0	4934.3
96	3-13/16	12	451.0	303.05	1818.30	588.0	5768.1

● Manufactured and tested according to ISO and BS standards

● Warning : The minimum breaking strength should never be considered as the safe working load of the rope



## DSR MOORING ROPES

D | S | R



# SuperMax<sup>®</sup> Plus Rope

Mooring Lines, Anchor Lines,  
Towing Rope, Tug Rope

## SuperMax<sup>®</sup> Plus Rope

- Material : Inside - UHMWPE Outside - Polyester fiber
- Melting point : 150°C/265°C
- Elongation at break : 4 ~ 5%
- High strength
- Lowest elongation
- Dry & wet conditions : Wet strength equals dry strength
- Abrasion resistance : Very Good
- UV resistance : Good
- Non-rotating and anti-kinking
- Longer life and easy handling

DIA		CIR	Weight			Breaking Strength	
MM	INCH	INCH	KGS/100M	LBS/100FT	LBS/100FM	Ton	kN
26	1-1/32	3-1/4	43.50	29.23	175.4	54.0	530.3
28	1-1/8	3-1/2	50.00	33.60	201.6	63.0	618.6
30	1-3/16	3-3/4	54.20	36.42	218.5	68.0	667.7
32	1-1/4	4	64.00	43.01	258.0	74.0	726.6
34	1-11/32	4-1/4	71.80	48.25	289.5	84.0	824.8
36	1-7/16	4-1/2	78.90	53.02	318.1	93.0	913.2
38	1-1/2	4-3/4	86.10	57.86	347.1	102.0	1,002
40	1-19/32	5	94.80	63.70	382.2	114.0	1,119
42	1-21/32	5-1/4	104.6	70.29	421.7	127.0	1,247
44	1-3/4	5-1/2	111.0	74.60	447.5	135.0	1,326
48	1-7/8	6	137.0	92.06	552.3	165.0	1,620
52	2-1/16	6-1/2	150.0	107.5	645.1	195.0	1,915
56	2-1/4	7	183.0	123.0	737.8	230.0	2,258
60	2-3/8	7-1/2	205.0	137.8	826.5	263.0	2,583
64	2-1/2	8	236.0	158.6	951.5	308.0	3,024
68	2-11/16	8-1/2	264.0	177.4	1,064	345.0	3,388
72	2-7/8	9	295.0	198.2	1,189	380.0	3,731
76	3	9-3/8	331.0	222.4	1,335	429.0	4,213
80	3-5/32	10	359.0	241.2	1,447	458.0	4,497
88	3-7/16	11	421.0	282.9	1,697	540.0	5,303
96	3-13/16	12	511.0	343.4	2,060	626.0	6,147
104	4-1/8	13	598.0	401.8	2,411	745.0	7,316
112	4-7/16	14	694.0	466.3	2,798	833.0	8,180
120	4-3/4	15	786.0	528.2	3,169	955.0	9,378

● Manufactured and tested according to ISO and BS standards

● Warning : The minimum breaking strength should never be considered as the safe working load of the rope

## DSR MOORING ROPES

# DSR



## SuperMax-Flex 8-Strand Rope

DIA		CIR	Weight			Breaking Strength	
MM	INCH	INCH	KGS/100M	LBS/100FT	LBS/100FM	Ton	kN
1-5/8	40	5	90.8	61.0	366.1	65.4	641.2
1-3/4	44	5-1/2	110.0	73.9	443.5	88.0	863.3
2	48	6	133.9	90.0	539.9	110.8	1086.6
2-1/8	52	6-1/2	149.3	100.3	602.0	129.4	1269.0
2-1/4	56	7	165.0	110.9	665.3	147.6	1447.9
2-1/2	60	7-1/2	203.9	137.0	822.1	184.2	1806.6
2-5/8	64	8	225.0	151.2	907.2	203.4	1995.2

• Manufactured and tested according to ISO and BS standards

• Warning : The minimum breaking strength should never be considered as the safe working load of the rope





## DSR MOORING ROPES

D | S | R

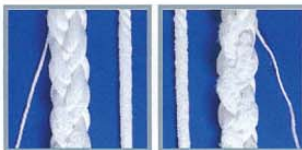


# SuperFlex® Rope

Due to a technically reinforced composition of high tenacity Superdan and polyester yarns, Superflex has retained its superior strength, when combined with DSR's unique double construction cover yarns, this composition provides superior abrasion resistance comparing to conventional constructed ropes. This has been verified through frequent and repeated uses in mooring applications.

- This unique composition and construction produces a rope with extreme low elongation whilst maintaining stability and safety when the rope is overloaded. In addition, Superflex retains its properties even after long periods below sea level.
- Excellent ultra - violet stabilization.
- Popular applications are mooring, towing and anchor lines

### Better Abrasion Construction



DSR

Others

### [Superflex 8 S/T]

- Fiber Content: Superdan and Polyester fiber
- Specific gravity: 0.99(Float)
- Melting Point: 165°C/265°C
- Elongation at break: 18-20%
- Water absorption: 0-1%

### SuperFlex® 8-Strand Rope

DIA		CIR	Weight			Breaking Strength	
MM	INCH	INCH	KGS/100M	LBS/100FT	LBS/100FM	Ton	kN
24	15/16	3	33.5	22.5	135.1	12,500	122.6
28	1-1/8	3-1/2	46.0	30.9	185.5	16,600	162.8
32	1-1/4	4	59.5	40.0	239.9	21,300	208.9
36	1-7/16	4-1/2	74.2	49.9	299.2	26,500	260.0
40	1-9/16	5	91.5	61.5	368.9	32,000	313.9
44	1-3/4	5-1/2	109.0	73.2	439.5	38,000	372.8
45	1-25/32	5-5/8	114.0	76.6	459.6	40,000	392.4
48	1-7/8	6	132.0	88.7	532.2	44,000	431.6
50	2	6-1/4	143.0	96.1	576.6	48,000	470.9
52	2-1/16	6-1/2	150.0	100.8	604.8	51,000	500.3
55	2-5/32	6-7/8	172.5	115.9	695.5	57,000	559.2
56	2-1/4	7	179.0	120.3	721.7	59,000	578.8
60	2-3/8	7-1/2	200.5	134.7	808.4	67,000	657.2
64	2-1/2	8	226.0	151.9	911.2	75,000	735.7
65	2-9/16	8-1/16	233.0	156.6	939.4	77,000	755.3
68	2-11/16	8-1/2	254.0	170.7	1,024.1	84,000	824.0
70	2-3/4	8-11/16	269.0	180.8	1,084.6	89,000	873.1
72	2-7/8	9	284.0	190.8	1,145.0	94,000	922.1
75	3	9-1/4	308.0	207.0	1,241.8	102,000	1,000.6
80	3-5/32	10	349.0	234.5	1,407.1	114,000	1,118.3
85	3-3/8	10-1/2	394.0	264.8	1,588.5	129,000	1,265.5
88	3-7/16	11	420.0	282.2	1,693.4	138,000	1,353.7
90	3-9/16	11-1/8	439.5	295.3	1,772.0	144,000	1,412.6
95	3-3/4	11-3/4	490.0	329.3	1,975.6	161,000	1,579.4
96	3-13/16	12	500.0	336.0	2,015.9	163,000	1,599.0
100	3-15/16	12-3/8	539.0	362.2	2,173.2	177,000	1,736.3
104	4-1/8	13	586.0	393.8	2,362.7	192,000	1,883.5
112	4-7/16	14	674.0	452.9	2,717.5	221,000	2,167.9
120	4-3/4	15	774.0	520.1	3,120.6	253,000	2,481.9

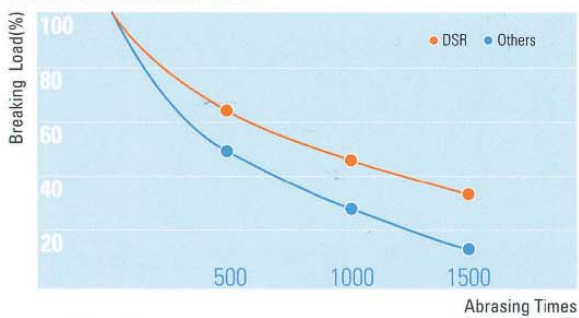
● Manufactured and tested according to ISO and BS standards

● Warning : The minimum breaking strength should never be considered as the safe working load of the rope

## DSR MOORING ROPES

D | S | R

## Load-Abrasion Test



## [Superflex 12 S/T]

- Fiber Content: Superdan and Polyester fiber
- Specific gravity: 0.99(Float)
- Melting Point: 165°C/265°C
- Elongation at break: 18-20%
- Water absorption: 0-1%



## SuperFlex® 12-Strand Rope

DIA		CIR	Weight			Breaking Strength	
MM	INCH	INCH	KGS/100M	LBS/100FT	LBS/100FM	Ton	kN
36	1-7/16	4-1/2	74.2	49.9	299.2	27,800	272.7
40	1-9/16	5	91.5	61.5	368.9	33,600	329.6
44	1-3/4	5-1/2	109.0	73.2	439.5	40,000	392.4
48	1-7/8	6	132.0	88.7	532.2	46,200	453.2
52	2-1/16	6-1/2	150.0	100.8	604.8	53,600	525.8
56	2-1/4	7	179.0	120.3	721.7	62,000	608.2
60	2-3/8	7-1/2	200.5	134.7	808.4	70,500	691.6
64	2-1/2	8	226.0	151.9	911.2	79,000	775.0
68	2-11/16	8-1/2	254.0	170.7	1,024.1	88,500	868.2
72	2-7/8	9	284.0	190.8	1,145.0	99,000	971.2
80	3-5/32	10	349.0	234.5	1,407.1	120,000	1,177.2
88	3-7/16	11	420.0	282.2	1,693.4	145,000	1,422.4
96	3-13/16	12	500.0	336.0	2,015.9	172,000	1,687.3

● Manufactured and tested according to ISO and BS standards

● Warning : The minimum breaking strength should never be considered as the safe working load of the rope



## DSR MOORING ROPES

D | S | R



# Superdan® Rope

**Stronger than PP**  
**Cost Effective Super Strength Rope**  
**Good Anti-abrasion**  
**U.V Resistant**

## Superdan 8-Strand Rope

Material : High tenacity polyolefin fiber  
 Specific Gravity : 0,94 (Float)  
 Melting Point : 165°C  
 Water Absorption : None  
 UV Light resistance : Good  
 Abrasion Resistance : Good  
 Eye Splice : Good

### Applications

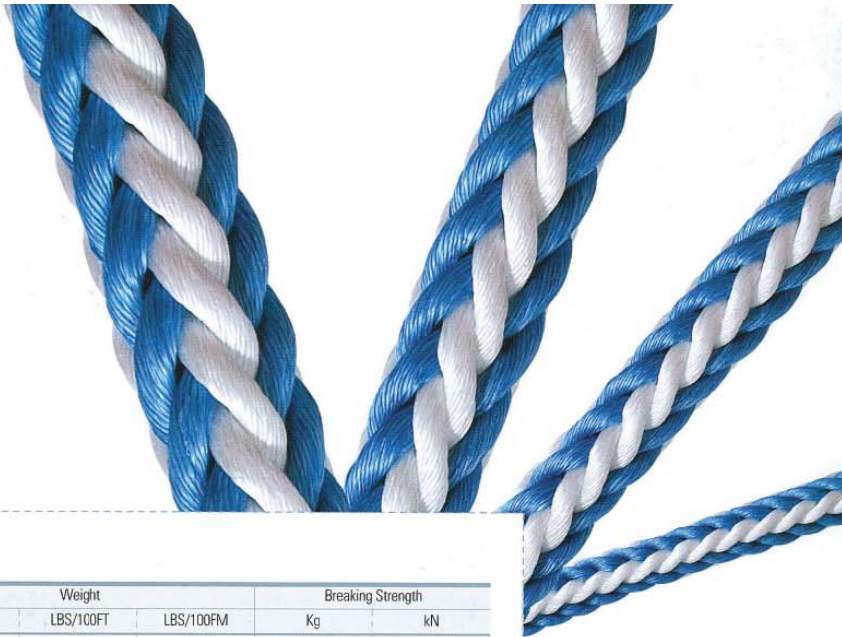
Mooring Lines, Towing Lines,  
 Anchor Lines

DIA		CIR	Weight			Breaking Strength	
MM	INCH	INCH	KGS/100M	LBS/100FT	LBS/100FM	Kg	kN
24	15/16	3	28.8	19.4	116.1	10,900	106.9
28	1-1/8	3-1/2	39.4	26.5	158.9	14,500	142.2
32	1-1/4	4	51.1	34.3	206.0	18,500	181.5
36	1-7/16	4-1/2	64.1	43.1	258.4	23,000	225.6
40	1-9/16	5	79.1	53.2	318.9	28,400	278.6
44	1-3/4	5-1/2	97.7	65.7	393.9	33,900	332.5
45	1-25/32	5-5/8	102.0	68.5	411.2	35,400	347.3
48	1-7/8	6	114.5	76.9	461.6	39,800	390.4
50	2	6-1/4	124.5	83.7	502.0	42,500	416.9
52	2-1/16	6-1/2	134.0	90.0	540.3	46,000	451.2
55	2-5/32	6-7/8	150.5	101.1	606.8	50,900	499.3
56	2-1/4	7	156.0	104.8	629.0	52,800	518.0
60	2-3/8	7-1/2	179.0	120.3	721.7	60,500	593.5
64	2-1/2	8	203.6	136.8	820.9	68,200	669.0
65	2-9/16	8-1/16	210.0	141.1	846.7	70,400	690.6
68	2-11/16	8-1/2	230.0	154.6	927.3	77,600	761.2
70	2-3/4	8-11/16	243.5	163.6	981.8	82,200	806.4
72	2-7/8	9	258.0	173.4	1,040.2	85,800	841.7
75	3	9-1/4	279.5	187.8	1,126.9	93,100	913.3
80	3-5/32	10	319.0	214.4	1,286.2	105,600	1,035.9
85	3-3/8	10-1/2	360.5	242.2	1,453.5	118,800	1,165.4
88	3-7/16	11	386.0	259.4	1,556.3	127,600	1,251.7
90	3-9/16	11-1/8	403.5	271.1	1,626.8	133,400	1,308.6
95	3-3/4	11-3/4	449.5	302.1	1,812.3	146,500	1,437.1
96	3-13/16	12	459.0	308.4	1,850.6	149,600	1,467.5
100	3-15/16	12-3/8	498.0	334.6	2,007.9	162,400	1,593.1
104	4-1/8	13	536.0	360.2	2,161.1	175,600	1,722.6
112	4-7/16	14	623.0	418.6	2,511.8	203,700	1,998.2
120	4-3/4	15	718.0	482.5	2,894.9	233,800	2,293.5

• Manufactured and tested according to ISO and BS standards

• Warning : The minimum breaking strength should never be considered as the safe working load of the rope

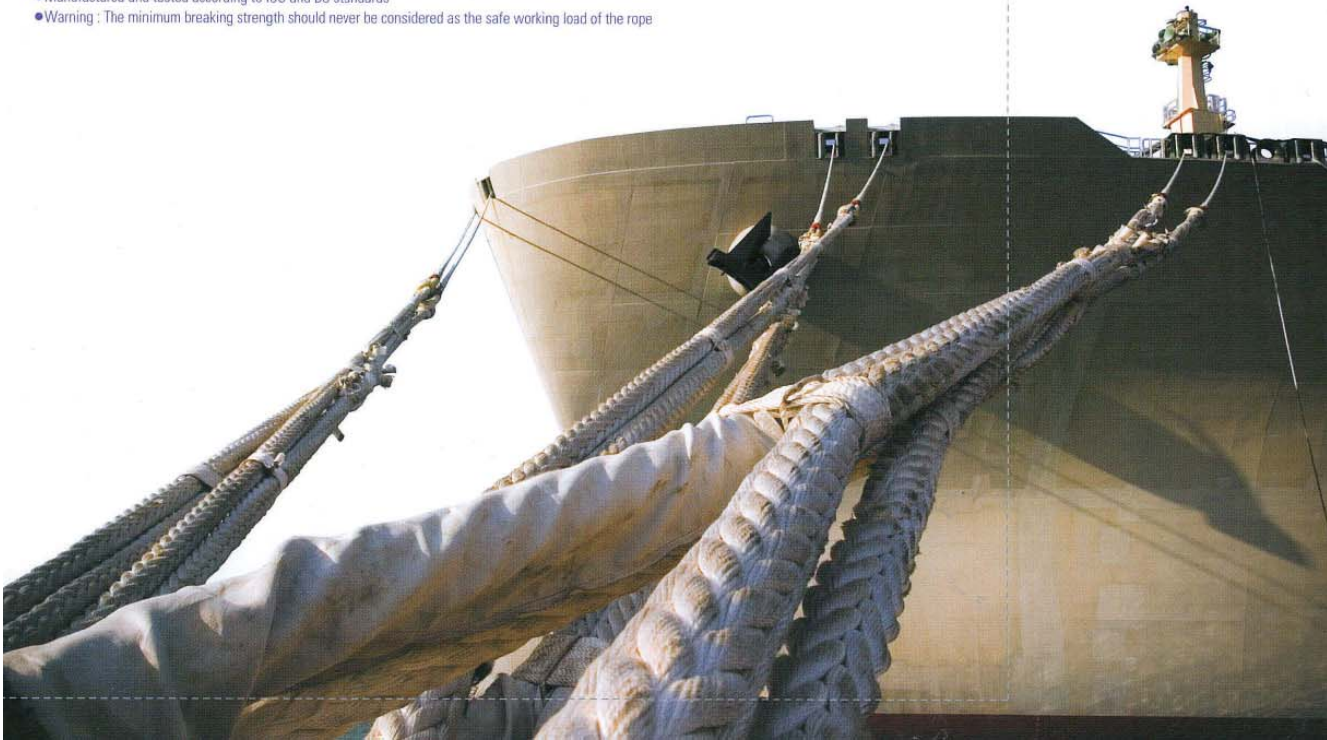
DSR MOORING ROPES



Superdan 12-Strand Rope

DIA		CIR	Weight			Breaking Strength	
MM	INCH	INCH	KGS/100M	LBS/100FT	LBS/100FM	Kg	kN
36	1-7/16	4-1/2	64.1	43.1	258.4	24,100	236.4
40	1-9/16	5	79.1	53.2	318.9	29,600	292.3
44	1-3/4	5-1/2	97.7	65.7	393.9	35,600	349.2
48	1-7/8	6	114.5	76.9	461.6	42,000	412.0
52	2-1/16	6-1/2	134.0	90.0	540.3	48,500	475.8
56	2-1/4	7	156.0	104.8	629.0	55,400	543.5
60	2-3/8	7-1/2	179.0	120.3	721.7	64,000	627.8
64	2-1/2	8	203.6	136.8	820.9	72,000	706.3
68	2-11/16	8-1/2	230.0	154.6	927.3	82,000	804.4
72	2-7/8	9	258.0	173.4	1,040.2	90,500	887.8
80	3-5/32	10	319.0	214.4	1,286.2	111,000	1,088.9
88	3-7/16	11	386.0	259.4	1,556.3	134,000	1,314.5
96	3-13/16	12	459.0	308.4	1,850.6	158,000	1,549.9

- Manufactured and tested according to ISO and BS standards
- Warning : The minimum breaking strength should never be considered as the safe working load of the rope





## DSR MOORING ROPES

D | S | R



# SuperTec® Rope

**Excellent Anti-abrasion**  
**Longer Service Life**  
**High-Strength, Low-Elongation**

Material : High tenacity polyolefin fiber  
 Specific Gravity : 0,94 (Float)  
 Melting Point : 165°C  
 Water Absorption : None  
 UV Light resistance : Good  
 Abrasion Resistance : Good  
 Eye Splice : Good

### Applications

Mooring Lines, Towing Lines,  
 Anchor Lines

### SuperTec 8-Strand Rope

DIA		CIR	Weight			Breaking Strength	
MM	INCH	INCH	KGS/100M	LBS/100FT	LBS/100FM	Kg	kN
24	15/16	3	28.8	19.4	116.1	12,000	117.7
28	1-1/8	3-1/2	39.4	26.5	158.9	16,000	157.0
32	1-1/4	4	51.1	34.3	206.0	20,300	199.1
36	1-7/16	4-1/2	64.1	43.1	258.4	25,300	248.2
40	1-9/16	5	79.1	53.2	318.9	31,200	306.1
44	1-3/4	5-1/2	97.7	65.7	393.9	37,800	370.8
45	1-25/32	5-5/8	102.0	68.5	411.2	39,400	386.5
48	1-7/8	6	114.5	76.9	461.6	43,800	429.7
50	2	6-1/4	124.5	83.7	502.0	47,600	466.9
52	2-1/16	6-1/2	134.0	90.0	540.3	50,800	498.3
55	2-5/32	6-7/8	150.5	101.1	606.8	57,000	559.2
56	2-1/4	7	156.0	104.8	629.0	58,500	573.9
60	2-3/8	7-1/2	179.0	120.3	721.7	66,600	653.3
64	2-1/2	8	203.6	136.8	820.9	74,800	733.8
65	2-9/16	8-1/16	210.0	141.1	846.7	77,000	755.3
68	2-11/16	8-1/2	230.0	154.6	927.3	83,800	822.1
70	2-3/4	8-11/16	243.5	163.6	981.8	88,700	870.1
72	2-7/8	9	258.0	173.4	1,040.2	94,000	922.1
75	3	9-1/4	279.5	187.8	1,126.9	101,800	998.6
80	3-5/32	10	319.0	214.4	1,286.2	116,000	1,137.9
85	3-3/8	10-1/2	360.5	242.2	1,453.5	131,000	1,285.1
88	3-7/16	11	386.0	259.4	1,556.3	138,000	1,353.7
90	3-9/16	11-1/8	403.5	271.1	1,626.8	144,000	1,412.6
95	3-3/4	11-3/4	449.5	302.1	1,812.3	160,000	1,569.6
96	3-13/16	12	459.0	308.4	1,850.6	163,000	1,599.0
100	3-15/16	12-3/8	498.0	334.6	2,007.9	176,000	1,726.5
104	4-1/8	13	536.0	360.2	2,161.1	187,000	1,834.4
112	4-7/16	14	623.0	418.6	2,511.8	215,000	2,109.1
120	4-3/4	15	718.0	482.5	2,894.9	246,000	2,413.2

• Manufactured and tested according to ISO and BS standards

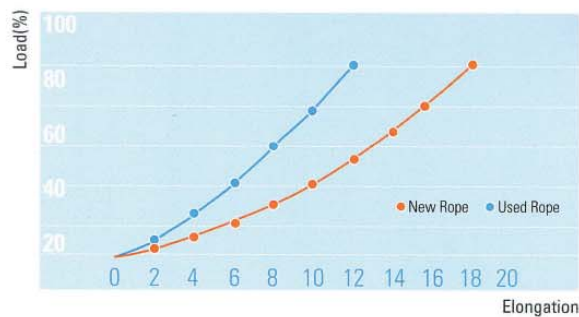
• Warning : The minimum breaking strength should never be considered as the safe working load of the rope

## DSR MOORING ROPES

# DSR



## Load-Elongation



## SuperTec 12-Strand Rope

DIA		CIR	Weight			Breaking Strength	
MM	INCH	INCH	KGS/100M	LBS/100FT	LBS/100FM	Kg	kN
36	1-7/16	4-1/2	64.1	43.1	258.4	26,600	260.9
40	1-9/16	5	79.1	53.2	318.9	32,700	320.8
44	1-3/4	5-1/2	97.7	65.7	393.9	39,700	389.4
48	1-7/8	6	114.5	76.9	461.6	46,000	451.2
52	2-1/16	6-1/2	134.0	90.0	540.3	53,300	522.9
56	2-1/4	7	156.0	104.8	629.0	61,500	603.3
60	2-3/8	7-1/2	179.0	120.3	721.7	70,000	686.7
64	2-1/2	8	203.6	136.8	820.9	78,600	771.0
68	2-11/16	8-1/2	230.0	154.6	927.3	88,000	863.3
72	2-7/8	9	258.0	173.4	1,040.2	98,700	968.2
80	3-5/32	10	319.0	214.4	1,286.2	121,800	1,194.8
88	3-7/16	11	386.0	259.4	1,556.3	144,900	1,421.4
96	3-13/16	12	459.0	308.4	1,850.6	171,000	1,677.5

• Manufactured and tested according to ISO and BS standards

• Warning : The minimum breaking strength should never be considered as the safe working load of the rope





## DSR MOORING ROPES

D | S | R

# Nylon Mooring Plus Rope

Material : High tenacity Nylon  
multifilament

Melting point : 220°C

Specific Gravity : 1.14

Elongation at break : 30%

Water Absorption : 2-5%

## Applications

Mooring Lines, Towing Lines,  
Anchor Lines

DIA		CIR	Weight			Breaking Strength	
MM	INCH	INCH	KGS/100M	LBS/100FT	LBS/100FM	Kg	kN
40	1-9/16	5	103.0	69.2	415.3	46.5	456.2
44	1-3/4	5-1/2	121.0	81.3	487.9	54.5	534.6
48	1-7/8	6	143.0	96.1	576.6	64.0	627.8
50	2	6-1/4	151.0	101.5	608.8	68.0	667.1
52	2-1/16	6-1/2	164.0	110.2	661.2	73.5	721.0
55	2-5/32	6-7/8	183.0	123.0	737.8	82.0	804.4
60	2-3/8	7-1/2	220.0	147.8	887.0	98.0	961.3
65	2-9/16	8-1/16	256.0	172.0	1,032.1	112.0	1098.7
70	2-3/4	8-11/16	298.0	200.2	1,201.5	128.0	1255.6
75	3	9-1/4	342.0	229.8	1,378.9	145.0	1422.4
80	3-5/32	10	388.5	261.1	1,566.4	164.0	1608.8
85	3-3/8	10-1/2	437.0	293.7	1,761.9	180.0	1765.7
90	3-9/16	11-1/8	490.0	329.3	1,975.6	200.0	1961.9
95	3-3/4	11-3/4	540.0	362.9	2,177.2	220.0	2158.1
100	3-15/16	12-3/8	600.0	403.2	2,419.1	245.0	2403.4

• Manufactured and tested according to ISO and BS standards

• Warning : The minimum breaking strength should never be considered as the safe working load of the rope





## DSR MOORING ROPES

D | S | R

Nylon  
Rope

## Nylon 8-Strand Rope

DIA		CIR	Weight			Breaking Strength	
MM	INCH	INCH	KGS/100M	LBS/100FT	LBS/100FM	Kg	kN
24	15/16	3	35.5	23.9	143.1	13,400	131.4
28	1-1/8	3-1/2	48.5	32.6	195.5	17,800	174.6
32	1-1/4	4	63.0	42.3	254.0	22,500	220.7
36	1-7/16	4-1/2	80.0	53.8	322.5	28,200	276.6
40	1-9/16	5	99.0	66.5	399.2	34,000	333.5
44	1-3/4	5-1/2	120.0	80.6	483.8	40,500	397.3
45	1-25/32	5-5/8	124.8	83.9	503.2	42,100	413.0
48	1-7/8	6	142.0	95.4	572.5	47,500	466.0
50	2	6-1/4	153.5	103.1	618.9	51,300	503.2
52	2-1/16	6-1/2	166.0	111.5	669.3	55,000	539.5
55	2-5/32	6-7/8	186.2	125.1	750.7	61,000	598.4
56	2-1/4	7	193.0	129.7	778.1	62,500	613.1
60	2-3/8	7-1/2	221.0	148.5	891.0	70,500	691.6
64	2-1/2	8	252.0	169.3	1,016.0	80,000	784.8
65	2-9/16	8-1/16	260.0	174.7	1,048.3	82,000	804.4
68	2-11/16	8-1/2	285.0	191.5	1,149.1	90,000	882.9
70	2-3/4	8-11/16	302.0	202.9	1,217.6	95,000	931.9
72	2-7/8	9	319.0	214.4	1,286.2	100,000	981.0
75	3	9-1/4	346.0	232.5	1,395.0	108,000	1,059.4
80	3-5/32	10	394.0	264.8	1,588.5	123,000	1,206.6
85	3-3/8	10-1/2	445.0	299.0	1,794.2	138,000	1,353.7
88	3-7/16	11	477.0	320.5	1,923.2	145,000	1,422.4
90	3-9/16	11-1/8	499.0	335.3	2,011.9	151,000	1,481.3
95	3-3/4	11-3/4	556.0	373.6	2,241.7	168,000	1,648.0
96	3-13/16	12	568.0	381.7	2,290.1	170,000	1,667.6
100	3-15/16	12-3/8	616.0	413.9	2,483.6	184,000	1,805.0
104	4-1/8	13	666.0	447.5	2,685.2	200,000	1,961.9
112	4-7/16	14	772.0	518.8	3,112.6	210,000	2,060.0
120	4-3/4	15	887.0	596.0	3,576.2	255,000	2,501.5

• Manufactured and tested according to ISO and BS standards

• Warning : The minimum breaking strength should never be considered as the safe working load of the rope

## Nylon 12-Strand Rope

DIA		CIR	Weight			Breaking Strength	
MM	INCH	INCH	KGS/100M	LBS/100FT	LBS/100FM	Kg	kN
36	1-7/16	4-1/2	83.0	55.8	334.6	29,800	292.3
40	1-9/16	5	100.0	67.2	403.2	35,000	343.3
44	1-3/4	5-1/2	121.0	81.3	487.9	42,300	414.9
48	1-7/8	6	143.0	96.1	576.6	49,500	485.6
52	2-1/16	6-1/2	168.0	112.9	677.3	58,700	575.8
56	2-1/4	7	201.0	135.1	810.4	69,600	682.8
60	2-3/8	7-1/2	226.0	151.9	911.2	77,900	764.2
64	2-1/2	8	252.0	169.3	1,016.0	86,600	849.5
68	2-11/16	8-1/2	286.0	192.2	1,153.1	98,000	961.3
72	2-7/8	9	330.0	221.8	1,330.5	112,000	1,098.7
80	3-5/32	10	403.0	270.8	1,624.8	133,000	1,304.7
88	3-7/16	11	478.0	321.2	1,927.2	157,000	1,540.1
96	3-13/16	12	569.0	382.4	2,294.1	187,000	1,834.4

• Manufactured and tested according to ISO and BS standards

• Warning : The minimum breaking strength should never be considered as the safe working load of the rope

## Nylon 8-Strand Rope

Fiber Content : Nylon fiber

Specific gravity : 1.14

Melting point : 220°C

Elongation at break : 45%

Water absorption : 2-5%



## Nylon 12-Strand Rope

Fiber Content : Nylon fiber

Specific gravity : 1.14

Melting point : 220°C

Elongation at break : 30%

Water absorption : 2-5%

## DSR MOORING ROPES

D | S | R

# Double Braid Rope

## Nylon Double Braid Rope

Fiber Content : Nylon fiber  
 Specific gravity : 1.14  
 Melting point : 220°C  
 Elongation at break : 45%  
 Water absorption : 2-5%



## Polyester Double Braid Rope

Fiber Content : Polyester fiber  
 Specific gravity : 1.38  
 Melting point : 265°C

## Nylon Double Braid Rope

DIA		CIR	Weight			BreakingStrength	
MM	INCH	INCH	KGS/100M	LBS/100FT	LBS/100FM	Kg	kN
40	1-9/16	5	110.1	74.0	443.9	40,800	400.2
44	1-3/4	5-1/2	132.6	89.1	534.6	48,900	479.7
48	1-7/8	6	157.8	106.0	636.2	57,500	564.1
52	2-1/16	6-1/2	184.8	124.2	745.1	66,500	652.3
56	2-1/4	7	214.3	144.0	864.0	76,000	745.5
60	2-3/8	7-1/2	246.0	165.3	991.8	86,500	848.5
64	2-1/2	8	279.8	188.0	1,128.1	97,600	957.4
68	2-11/16	8-1/2	316.0	212.3	1,274.1	109,600	1,075.1
72	2-7/8	9	354.2	238.0	1,428.1	122,200	1,198.7
80	3-5/32	10	437.5	294.0	1,763.9	149,600	1,467.5
84	3-1/2	10-1/2	482.8	324.4	1,946.6	164,500	1,613.7
88	3-7/16	11	529.8	356.0	2,136.1	179,900	1,764.8
96	3-13/16	12	629.5	423.0	2,538.0	209,800	2,058.1

● Manufactured and tested according to ISO and BS standards

● Warning : The minimum breaking strength should never be considered as the safe working load of the rope

## Polyester Double Braid Rope

DIA		CIR	Weight			BreakingStrength	
MM	INCH	INCH	KGS/100M	LBS/100FT	LBS/100FM	Kg	kN
40	1-9/16	5	127.8	85.9	515.3	34,400	337.5
44	1-3/4	5-1/2	155.0	104.2	624.9	41,000	402.2
48	1-7/8	6	184.5	124.0	743.9	46,200	453.2
52	2-1/16	6-1/2	222.0	149.2	895.1	55,600	545.4
56	2-1/4	7	257.5	173.0	1,036.2	64,200	629.8
60	2-3/8	7-1/2	394.3	265.0	1,589.8	73,000	716.1
64	2-1/2	8	334.8	225.0	1,348.9	82,200	806.4
68	2-11/16	8-1/2	398.3	267.6	1,605.9	97,300	954.5
72	2-7/8	9	446.5	300.0	1,800.2	107,200	1,051.6
80	3-5/32	10	558.1	375.0	2,250.2	129,000	1,265.5
84	3-1/2	10-1/2	610.2	410.0	2,460.2	140,600	1,379.2
88	3-7/16	11	669.7	450.0	2,700.1	154,100	1,511.7
96	3-13/16	12	781.3	525.0	3,150.1	178,100	1,747.1

● Manufactured and tested according to ISO and BS standards

● Warning : The minimum breaking strength should never be considered as the safe working load of the rope



## FIBRE & SYNTHETIC ROPES

We carry an extensive range of rope types in both reels and coils to suit all types of applications.



### Rope Examples



Sisal rope



Polyethylene mono rope



Sure knot poly rope



Polyethylene Silver rope



Polypropylene film rope



Cotton rope



Poly anchor rope



Polyethylene ski braid

### 3 Strand Fibre Rope

- Available in sisal or manila, as well as synthetic fibres including polypropylene, nylon, polyester and polyethylene.
- For rigging, lashing and lifting applications.
- Available in many sizes.

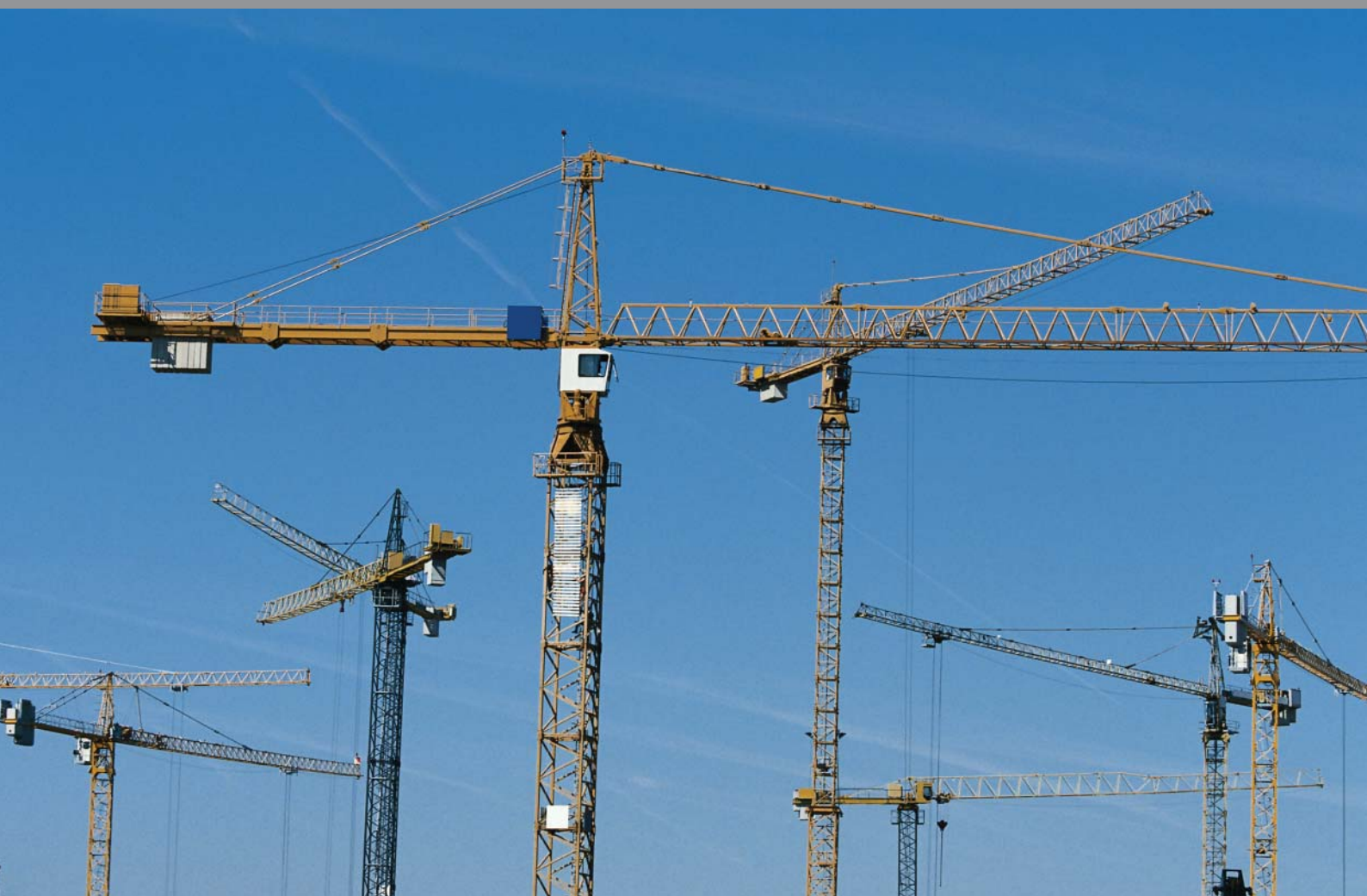
Material	Factor
Nylon	2.25
Polyvinyl	1.25
Polyethylene	1.45
Manila	1.0
Polypropylene	1.6
Polyester	2
Silver	1.16
Sisal	1.0

Rope Dia. mm	Silver MBF kN	Sisal MBF kN	Manila MBS kN
6	3.69	2.55	2.55
8	6.10	4.73	4.73
10	9.26	6.22	6.22
12	12.4	9.36	9.36
16	20.8	17.7	17.7
20	31.0	27.9	27.9

Other sizes available on application.







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# GENERAL

## HYDRAULIC RAMS

## POWER TEAM

## C Series Single Acting



Force tons	Stroke mm	Code No.
5	25	C51C
	83	C53C
	133	C55C
	184	C57C
	235	C59C
10	25	C101C
	54	C102C
	105	C104C
	156	C106C
	206	C108C
	257	C1010C
	308	C1012C
	359	C1014C
15	25	C151C
	54	C152C
	105	C154C
	156	C156C
	206	C158C
	257	C1510C
	308	C1512C
	359	C1514C
25	406	C1516C
	25	C251C
	51	C252C
	102	C254C
	159	C256C
	210	C258C
	260	C2510C
	311	C2512C
55	362	C2514C
	51	C552C
	108	C554C
	159	C556C
	152	R556L*
	260	C5510C
75	337	C5513C
	156	C756C
	333	C7513C
100	51	C1002C
	168	C1006C
	159	R1006L*
	260	C10010C
150	152	R1506L*

\* Steel ram with locking collar.

## RSS Series Shorty



Force tons	Stroke mm	Code No.
10	38	RSS101
20	44	RSS202
30	62	RSS302
50	60	RSS502
100	57	RSS1002
100	38	RSS1002D*
250	76	RSS2503

\* Double acting ram.

## RD Series Double Acting



Force push	Tons pull	Stroke mm	Code No.
10	4	159	RD106
		254	RD1010
25	8	159	RD256
		362	RD2514
55	28	159	RD556
		333	RD5513
		460	RD5518
80	44	333	RD8013
		168	RD1006
		333	RD10013
100	44	511	RD10020
		168	RD1506
		333	RD15013
150	73	460	RD15018
		168	RD2006
		333	RD20013
200	113	460	RD20018
		152	RD3006
		330	RD30013
300	147	152	RD4006
		330	RD40013
400	186	152	RD5006
		330	RD50013
500	245	152	RD5006
		330	RD50013

## RLS Series Low Profile



Force tons	Stroke mm	Code No.
5	14	RLS50
10	11	RLS100
20	11	RLS200
30	13	RLS300
50	16	RLS500S*
75	16	RLS750S*
100	16	RLS1000S*
150	14	RLS1500S*

\* S denotes swivel saddle.

## RA Series Aluminium



Force tons	Stroke mm	Code No.
20	54	RA202
	105	RA204
	156	RA206
30	54	RA302
	105	RA304
	156	RA306
55	54	RA552
	105	RA554
	156	RA556**
	156	RA556L*
	254	RA5510**
100	54	RA1002
	159	RA1006**
	159	RA1006L*

\* Aluminium ram with threaded pistons and locking collar.

\*\* Rams equipped with carrying handles.

## RH Series Centre Hole



## Single Acting

Force tons	Stroke mm	Code No.
10	64	RH102
	203	RH108
12	8	RH120
	41	RH121
	41	RH121T
	76	RH123
20	51	RH202
	76	RH203
	152	RH206
30	64	RH302
	149	RHA306*
	152	RH306
50	76	RH503
60	76	RH603+
	152	RH606+
100	76	RH1003+

## Double Acting

Force push	Tons pull	Stroke mm	Code No.
30	15	76	RH303
	15	152	RH306D
	20	257	RH3010
60	25	102	RHA604D*+
	25	127	RH605+
	40	257	RH6010+
100	45	38	RH1001+
	50	152	RH1006+
	45	257	RH10010+
150	70	127	RH1505+
	75	203	RH1508+
200	75	203	RH2008+

\* RHA Aluminium.

+ Rams equipped with carrying handles

## MAX PRESSURE

10,000psi/700bar

## HYDRAULIC PUMPS

## Hand Pumps



Code No.	Type	Tank cap litres	vol/stroke cc 1st stage	2nd stage
P12 *		0.148	*	1.1
P19		0.329	5	1.2
P19L		0.443	4.1	0.9
P55 *		0.738	*	2.6
P59	single acting rams	0.738	11	2.6
P59L		1.082	12	2.6
P157		2.245	11	2.6
P159		2.245	42	2.6
P300		5.08	42	2.6
P460		7.54	120	4.6
P157D	double	2.245	11	2.6
P159D	acting	2.245	42	2.6
P300D	rams	5.08	42	2.6
P460D		7.54	120	4.6

\* Single speed pumps.

## Foot Pumps



Code No.	Type	Tank cap litres	oil delivery cc/m 0 bar	700 bar
PA9		0.549	1000	147
PA9H		0.549	1000	148
PA6/PA6M		1.6	1200	98
PA6R (remote)	single acting	1.6	1200	98
PA6M-1		3.0	1200	98
PA6-2/PA6M-2	rams	7.3	1200	98
PA172/PA172M		4.7	4600	300
PA462		9.4	7400	700
PA6D/PA6DM		1.6	1200	98
PA6DM-1		3.0	1200	98
PA6D-2	double acting	7.3	1200	98
PA6DM-2		9.1	1200	98
PA174	rams	4.7	4600	300
PA464R (remote)		9.4	7400	700
PA554		8.4	7400	900

## Electric Pumps

Available with Manual or Solenoid valves and remote controls



Code No.	Type	Tank cap litres	Oil delivery l/m 0 bar	700 bar
PR102 12VDC		1	1.9	0.164
PE102-50-220		1	1.9	0.164
PE172-50-220		4.72	3.9	0.28
PE172M-50-220	single acting rams	6	3.9	0.28
PE462-50-220		9.4	6.7	0.6
PE553-50-220		8.4	11.3	0.9
PQ603-50-220		20	9.7	0.8
PQ1203-50-380		20	9.7	1.6
PR104 12VDC		1	1.9	0.164
PE104-50-220		1	1.9	0.164
PE174-50-220		4.72	3.9	0.28
PE174M-50-220	double acting rams	6	3.9	0.28
PE464-50-220		9.4	6.7	0.6
PE554-50-220		8.4	11.3	0.9
PQ604-50-220		20	9.7	0.8
PQ1204-50-380		20	9.7	1.6
PE4004-50-380		63	16.0	5.6

## MAX PRESSURE

10,000psi/700bar

## POWER TEAM

## Gasoline Pumps

120 and 400 Series available with solenoid valves

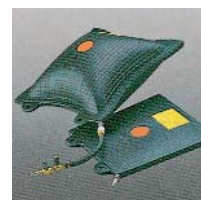


Code No.	Type	Tank cap litres	vol/stroke cc 1st stage	2nd stage
PG553	single acting rams	20	7.7	0.9
PG1203		20	7.7	2.1
PG554	double acting rams	20	7.7	0.9
PG1204		20	7.7	2.1
PG4004		62	17.9	6.4

Quarter Horse Hydraulic Pump and Spreader



Inflatable Jacks



Gas Engine Hydraulic Pump



Super Grip-O-Matic® Pullers





# WORLD LEADING INDUSTRIAL HYDRAULICS & CUTTING EQUIPMENT



# LUKAS

INDUSTRIAL CUTTERS



# POWER TEAM<sup>®</sup>

HYDRAULIC PUMPS ■ CYLINDERS ■ JACKS ■ PULLERS ■ TOOLS



# DYNEX

High Pressure Hydraulics



# GLOBE

AIR MOTORS



# STANLEY<sup>®</sup>

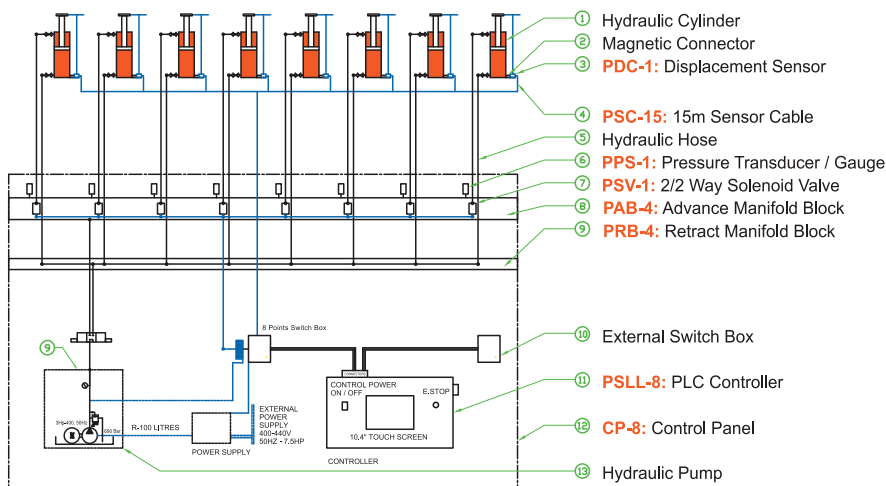
TRACK JACKS

## POWER TEAM PLC SYNCHRONOUS LIFT SYSTEMS

# POWER TEAM

## PLC Synchronous Lift and Lowering System

- For precise controlled hydraulic movement and weighing of oil rig platforms, heavy structures, vessels and machineries etc.
- It uses feedback from multiple sensors to control lifting, lowering and positioning of any large, heavy or complex structure regardless of weight distribution.
- Synchronous lifting reduces the risk of bending, twisting or tilting due to uneven weight distribution or load-shifts between the lift points.
- Programmable, failsafe monitoring and safety alarms of system include operating parameters, such as displacement accuracy, lifting velocity, valve response errors.  
(Optional: Data logging, load tilting, remote/online system troubleshooting)



### Features:

- Computerized plc system c/w touch screen panel
- Control from 4 to 60 jacking points
- 10 to 1000 ton on each jacking point
- Precision accuracy at +/- 1mm full scale
- Pressure / load display on control panel
- Displacement display on control panel

- Linkage to data logger and printer
- Standard hydraulic components
- System incorporates emergency alarms with auto-stop features

### Option

- Basic system with analogue gauge
- Heat exchanger for continuous operation
- Available up to 80 jacking points on request

## LUKAS CUTTERS

# LUKAS

The ideal cutters for mobile use at reclamation facilities, scrap yards, in buildings or on building sites. Also suitable for cutting work underwater.

### Features:

- Optimal operation due to low weight
- Precise thumb control in any work situation using LUKAS star grip valve
- Regrindable blades
- Many blade forms are available, providing the optimal geometry in every situation
- Durable sliding plates
- Pivot bolts with lubrication fitting

### Recommended applications:

With curved blades:

- Automobile recycling
- Cable recycling
- Demolition of heating systems
- Cutting operations in production facilities

With straight blades or combi blades:

- Recycling household goods
- Recycling electronic waste
- Cutting flat materials

### Recommended hydraulic power unit:

- PO6 LSI-10-50



## DILLON FORCE MEASUREMENT EQUIPMENT

## DILLON

Force Measurement Equipment

## Protecting your people. Improving your efficiency.

When dealing with massive loads, reliability is essential. Faulty equipment can result in costly delays and errors, or even injuries. Dillon's top of the line equipment offers reliability and durability to protect your people, and enhance your efficiency.

All equipment comes pre-calibrated and ready to work, right out of the box. Since 1937, our force measurement equipment has proven itself in construction, manufacturing, mining, oil drilling, cable installation and in countless other industries.

Our customers rely on Dillon's overload protection and overhead weighing equipment to ensure the safety of their people and their products.



## EDXtreme Crane Scale

Our high-end crane scale is built with premium materials and has cutting edge features. The optional radio remote provides convenience and helps to ensure user safety.

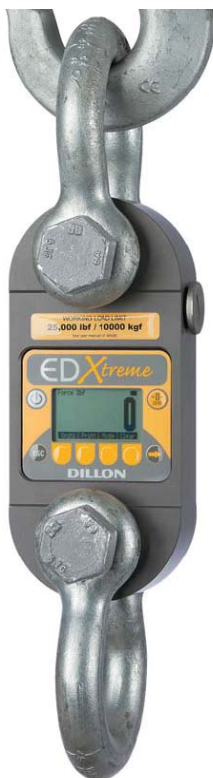
## Features:

- **Hardware choices:** Select the shackle and hook that best fits your application
- **Accuracy and Repeatability**
- **Optional Radio Interface:** Safely monitor the scale from a distance
- **Easy to use:** SOFTKEY interface eliminates confusing menus
- **Eliminate data entry:** Send data to a PC or printer

## EDXtreme Communicator

Wirelessly monitor all of your EDXtreme dynamometers in real-time, and send captured data to a PC, printer or remote display.

Multiple Communicators can operate independently in the same workspace.



## EDXtreme Dynamometer

The EDXtreme offers trademark Dillon resolution, application versatility and options. This flexible dynamometer can serve as a simple hanging scale or be part of a sophisticated weighing system.

## Features:

- **Full capacity range:** 2500 to 550,000 lbf (1000 to 250,000 kgf)
- **Reliable accuracy:** 0.1% capacity up to EDX-50T 0.3% of capacity for EDX-75T and above
- **Rugged:** High grade materials and outdoor use design
- **Industry leading radio option:** Safely monitor the load on a handheld remote. No site license required



## SAFE-T-WEIGH PORTABLE LOAD INDICATOR



- Push-button tare
- Peak hold
- Push button unit conversion

Quick and simple load checking, testing, measurement and weighing

Totally portable operation

Standard range 2 tonnes to 120 tonnes  
(Units available with 2t, 6.5t, 12t, 25t, 55t or 120t load capacity)

Lightweight and high strength aluminium link body

2.4GHz operating frequency

### Uses

Mobile and tower cranes

Check weighing

Tension measurement

Construction operations

Testing

### Features

- Lightweight aluminium body for ease of transportation and installation.
- Battery life: Active - not less than 70 hours.  
Battery type: Link - 2 x type AA, Handheld - 4 x type AA.
- POWER-ON system test and calibration check.
- Illuminated 15mm digits.
- Proof load: 200% working load limit (150% for 55t and above).
- Ultimate load: 7 x working load limit.
- Ambient temp: -10° to +40°C.
- Accuracy: within 1% of actual reading.
- Range: Not less than 100m under normal conditions.
- Link unit: Waterproofed to IP65.





# GLOBAL LIFTING

## GROUP

**IF YOU CAN'T FIND WHAT YOU'RE LOOKING  
FOR, CALL OUR SALES TEAM & IF WE  
DON'T HAVE IT, WE'LL GET IT FOR YOU!**

## EILON CRANE SCALES



## Dynamometers



RON 2501 Shackle Type - Dynamometer with wireless remote display

RON 2000 Shackle Type - Dynamometer with remote display



RON 2125 Shackle Type - Dynamometer with 1"/25mm removable display



RON 2150 Shackle Type - Dynamometer with 2"/50mm removable display

## Crane Scales



RON 3025 Crane Scale with 1"/25mm display

RON 3050 Crane Scale with large 2"/50mm display



RON 2501 Hook Type - Crane Scale with wireless remote display

RON 2000 Hook Type - Crane Scale with remote display



RON 2125 Hook Type - Crane Scale with 1"/25mm removable display



RON 2150 Hook Type - Crane Scale with 2"/50mm removable display

For more detailed information about this product please call our sales staff.



# Leica DISTO™

The original laser distance meter

20  
YEARS

Leica DISTO™

Pioneering the future  
by tradition.



- when it has to be **right**

**Leica**  
Geosystems

## LEICA DISTO



## Laser measures: when it has to be right!

We are a leading supplier of Leica DISTO products. The innovative hand-held laser meters feature Swiss technology at the push of a button. Laser distance measure can calculate length, squares and volume.

Leica Geosystems products and services are trusted by professionals worldwide to help them capture, analyze, and present spatial information. Those who use Leica products every day trust them for their dependability.



Technical data	D210	X310	D3a BT	D510	D8
Typ. measuring accuracy	± 1.0 mm	± 1.0 mm	± 1.0 mm	± 1.0 mm	± 1.0 mm
Range	0.05 up to 80 m	0.05 up to 80 m	0.05 up to 100 m	0.05 up to 200 m	0.05 up to 200 m
Measuring units	m, ft, in	m, ft, in	m, ft, in	m, ft, in, yd	m, ft, in, yd
Power Range Technology™	•	•	•	•	•
Distance in m	10, 50, 100 m	10, 50, 100 m	10, 50, 100 m	10, 50, 100 m	10, 50, 100 m
Diam. of the laser dot in mm	6, 30, 60 mm	6, 30, 60 mm	6, 30, 60 mm	6, 30, 60 mm	6, 30, 60 mm
Tilt sensor measuring range	—	360°	± 45°	± 360°	360°
Accuracy to the laser beam	—	± 0,2°	± 0,3°	± 0,2°	± 0,1°
Accuracy to the housing	—	± 0,2°	± 0,3°	± 0,2°	± 0,1°
Units in the tilt sensor	—	0.0°, 0.0%	0.0°, 0.0%	0.0°, 0.00%, mm/m, in/ft	0.0°, 0.00%, mm/m, in/ft
Pointfinder with 4x zoom	—	—	—	•	•
Store constant values	—	—	1	—	1
Memory	10 results	20 displays	20 displays	30 displays	30 displays
Time delay release (timer)	—	•	•	•	•
Display illumination	•	•	•	•	•
Free software for Windows	—	—	•	—	•
Free App	—	—	•	—	•
Data interface*	—	—	Bluetooth® 2.1	Bluetooth® Smart	Bluetooth® 2.1
Measurements per set of batteries	up to 5000	up to 5000	up to 5000**	up to 5000	up to 5000**
Multifunctional end-piece	•	•	•	•	•
Tripod thread	—	•	•	•	•
Batteries	type AAA 2 × 1.5V	type AAA 2 × 1.5V	type AAA 2 × 1.5V	type AA 2 × 1.5V	type AA 2 × 1.5V
Protection class	IP54	IP65	IP54	IP65	IP54
Dimensions	114 × 50 × 27 mm	122 × 55 × 31 mm	127 × 49 × 27.3 mm	143 × 58 × 29 mm	143.5 × 55 × 30 mm
Weight with batteries	126 g	155 g	150 g	198 g	205 g

\* System requirements and other details can be found at [www.disto.com](http://www.disto.com)

\*\* Reduced in Bluetooth® mode





## WIRE ROPE LADDERS

### For inspection, exploration, rescue or escape applications

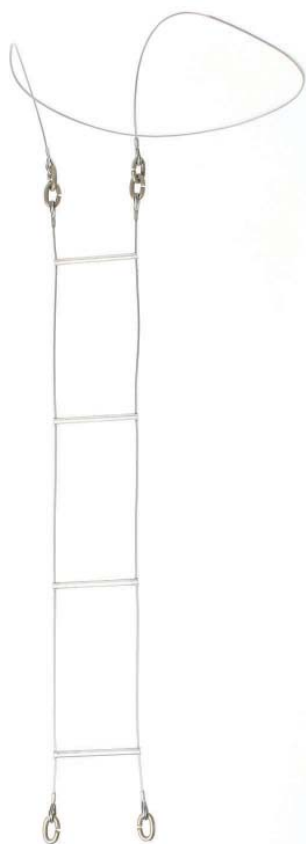
These ladders are designed for use in difficult places when a rigid ladder would be impractical. Where access has been by means of a rope or free climbing, the use of a wire rope ladder will greatly increase safety. Safety can be increased further by use of a safety line and / or a karabiner (snap hook) with which the climber can attach himself to the ladder when resting.

They come in standard lengths of 6m, 9m and 15m. Both ends of the ladders are fitted with "C" clips so that they can be easily joined to make any required length. Each ladder is normally supplied with a "trace". This is 2.5m length of wire also fitted with "C" clips and may be used for attaching the ladder to a tree, post or whatever.

The wire rope is galvanised therefore corrosion is not a problem in normal environments. Occasional wetting with fresh water will do no harm. For harsh environments such as marine usage, special materials can be used.

The narrow width of the ladder of 150mm is far from being a disadvantage and actually makes it easier to climb. It enables the climber to keep their body close to the ladder in a near upright position, thus minimising strain on the arms.

The rungs are swaged directly to the wire. This provides a very reliable fastening. For example even after a rung is forced down the wire by a sudden overload (say a falling rock) it will still hold a man's weight.



#### Lightweight Model

These ladders are so light and compact that one man could easily carry 60 mtr. or more in a pack. The wire rope is galvanised and rungs are of aluminium alloy.

##### Specifications:

- Rungs: 12mm dia. aluminium alloy 150mm wide
- Rung Spacing: 305mm (1 ft)
- Wire Rope: 3.5mm dia. 6 x 19 galvanised 0.5 tonne breaking strain.
- Weight: 256g/m (0.17 lb/ft Load required to force rung down wires 500kg approx.
- "C" clips begin to open at 400kg approx
- "C" clips fail completely at 650kg approx
- 6m Ladder with Trace, 2.04kg
- 9m Ladder with Trace, 2.78kg
- 15m Ladder with Trace 4.31kg

Non standard lengths can be supplied to order.



#### Heavy Duty Model

They are extremely rugged and will stand up to most of the abuse and indifference of daily usage. The sort of damage that would make them unsafe would be obvious even to the untrained eye. The wire rope is galvanised and the rungs are galvanised steel. The stability and ease of climbing can be greatly improved by tensioning the ladder. This can be done by attaching a weight to the bottom or straining it to some fixed object

##### Specifications:

- Rungs: 25mmx 1.6mm x 315mm wide Galv. R.H.S.
- Rung Spacing: 305mm (1 ft)
- Wire Rope: 12mm dia. 6 x 24 galvanised 6.1 tonne breaking strain.
- Weight: 2.0kg/m (1.5 lbs/ft Load required to force rung down wires 500kg approx.
- Length made to order



## INSPECTIONS - REPAIRS - TESTING - TRAINING



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# INSPECTIONS REPAIRS TESTING TRAINING

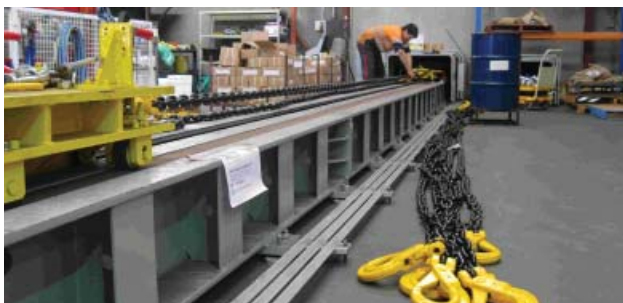
## INSPECTION, REPAIRS &amp; TESTING SERVICES



We offer a comprehensive inspection service covering all lifting and rigging equipment. Inspections and repairs are conducted by our qualified inspectors and provide reports detailing current status of all equipment. Our qualified staff will program regular inspections to suit your requirements. Visual inspections of wire rope slings, chain slings, webbing and round slings and spreader bars can be performed as required.

We offer a comprehensive testing service on all lifting and rigging equipment. Tests are performed in accordance with relevant Australian and International Standards, with test facilities of up to 200 tonne available. We offer a complete testing/certification service for the following items, (but not limited to) :

- Wire Rope Slings
- Chain Slings
- Flat Webbing and Round Slings
- Fibre Rope Slings
- Winches
- Shackles
- Chain and Lever Hoists
- Electric and Pneumatic Hoists
- General Hardware



## ANCHOR POINTS



Our experienced team of trained professionals can supply, install, test and certify concrete safety anchor points for individual attachment points or safety static lines to suit your requirements. Inspection and testing of anchor points should be carried out at least every 12 months. All equipment, installation and testing is carried out in accordance to comply with AS/NZS 1891 and AS/NZS 4488. Our staff use only specialised calibrated testing equipment ensuring your anchor points meet certification and safety requirements. Call us today to discuss how we can assist with all your height safety requirements.



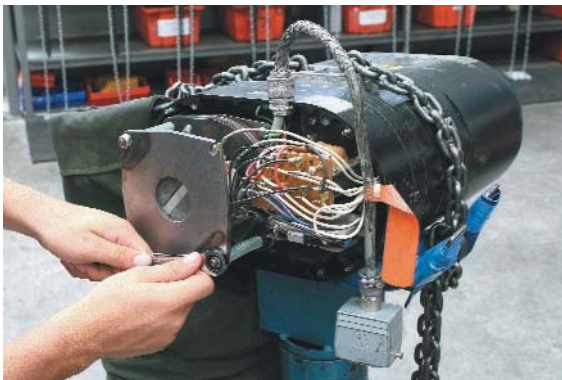
## SERVICE & REPAIRS

We offer fully equipped repair workshops in which our staff can inspect and repair a comprehensive range of lifting and rigging gear.

A complete selection of spare parts for most items is kept in stock, enabling efficient and effective repairs to be made to the following items.

- Chain Blocks
- Lever Blocks
- Electric and Manual Winches
- Hydraulic Pumps and Rams
- Chain Slings
- Plate Clamps
- Wire Rope Pullers
- Electric and Pneumatic Hoists

We recommend that all OzBlok products be serviced or repaired at one of our fully equipped service facilities . All service work is carried out by fully trained and qualified technicians and tested to meet Australian Standard requirements. Mobile on site inspection and repair service also available.







## CRANE COMPLIANCE

### Is your crane fully compliant?

It is vital to your business that down time is kept to an absolute minimum through regular servicing. We achieve this by supplying and installing superior equipment backed by our extensive and responsive electric hoist service and workshop-crane repair capabilities.

We manage all your ongoing needs and take the worry out of crane servicing and repairs. We maintain the equipment we sell as well as other makes and models.

We take care of critical 10 and 25 year upgrades, refurbishments and local testing. (As stated in Work Cover recommendations).

All our technicians are fully trained and accredited. We also offer an extensive range of replacement parts and routine annual inspections.