

# 2020 Product Catalogue Directory

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## INTRODUCTION


This catalogue contains a comprehensive range of quality commercial grade stainless steel components for virtually all rigging and architectural requirements.

Throughout this catalogue some products may have a published B.L (nominal Breaking Load). This is the load the manufacturer has provided and is at which the product should break. This is in no way a load rating for the product. If you require load rated stainless steel products, please refer to Sections 3 and 4 of this catalogue.

Due to the low yield strength of stainless steel, deformation will often occur at much lower loads than the breaking strength, depending on the product. e.g. a forged 10mm stainless steel shackle has a breaking load of approximately 5500kg, with deformation of the shackle beginning at 1600kg, whereas a grade "S" steel shackle in the same physical size might have the same breaking load, but the deformation load could be as high as 4000kg.

*Commercial stainless steel components cannot be compared with Bridco LR or cromox rated lifting components and should not be proof tested under the same guidelines.*

**BRIDCO RANGE:**

Quality fittings that are extremely well priced. Regular batch tests are conducted for chemical analysis, breaking loads and sizing tolerances. Many of the Bridco products have been specially marked to identify sizing. Many of these items are marked "BRIDCO" or with a  image to ensure you have genuine BRIDCO products.

**BRIDCO LR STAINLESS STEEL LIFTING COMPONENTS:**

High quality grade Stainless Steel products, rated specifically for the lifting industry. Please refer to section 4.

**cromox G60 LIFTING CHAINS AND FITTINGS:**

Large range of Lifting Chains and Accessories as well as pump chains, chain blocks, push trolleys and anchor chain produced by Ketten Waelder GMBH of Germany. Refer to section 3.

**TALURIT FERRULES & SWAGERS:**

EN standard aluminium clamps for wire rope swaging. Hydraulic clamps in copper and stainless steel. Talurit Group also have a large range of swagers, cutting machines and other wire rope handling equipment. Refer to section 2.

**WIRETEKNIK ROLL SWAGERS:**

Roll swage machines for terminal swaging. Variety of sizes available, top quality. Lloyd's approved. Refer to section 2.

**CLAMP PRODUCTS HAND SWAGING:**

Wide range of quality hand swage ferrules and tools manufactured in New Zealand. Refer to section 2.

**STAINLESS HANDRAIL FITTINGS:**

A full range of Stainless steel modular railing systems and glass clamps. Minimal welding required. Light and Heavy duty tubing and fittings make our modular range perfect for light commercial and domestic applications. Refer to section 6.

**BRIDCO IN HOUSE SERVICES**

Bridco cater for all types wire rope swaging and terminations from simple hand crimping to hydraulic pressing and roll swaging.

Sizing and tooling are as follows:

40t Talurit press - pressing 3 & 4mm terminal ends specifically for balustrading.

130t Talurit press - pressing up to Code 20 ferrules.

A350 WireTeknik Roll Swaging - For terminal swaging up to 16mm.

A400 WireTeknik Roll Swaging - For terminal swaging up to 22mm.

Bridco have a full workshop where we can pre-cut and drill our Stainless Steel Modular Railings to suit any job.

*Prices are subject to change without prior notice, however every effort will be made to ensure our customers are informed of any increases. Therefore Bridco will not be held responsible for under quoting due to price increases.*

Product updates and new products can be viewed on our website at:  
[www.bridco.com.au](http://www.bridco.com.au)

## FACTS

**GRADES:**

There are many grades of stainless steel. The majority of stainless steel items in the catalogue are either grade 304, 316 or 316L, which are members of the Austenitic family.

**GRADE 304:**

Has good corrosion resistance and is one of the most commonly used grades of stainless steel.

**GRADE 316:**

Has a higher level of corrosion resistance. The grade 316 is often referred to as "marine grade". Typical applications are boat fittings and architectural components for exposed coastal applications. The majority of products in this catalogue are grade 316.

**GRADE 316L:**

Has similar properties to grade 316. The "L" stands for lower carbon content. Highly recommended for applications where welding is required such as Stainless Steel Chain or Handrail Systems.

**WHAT IS TEA STAINING?**

Tea staining can be defined as; discolouration of the surface of stainless steel that does not affect the structural integrity of the longevity of the material.

**Contributing factors... And what can be done about them**

The relationships between the contributing factors are complex, but generally become increasingly critical closer to marine water.

**Environmental factors**

Tea staining occurs most commonly within about 5 kilometres from the surf and becomes progressively worse closer to the marine source. However, wind exposure, pollution levels and higher temperatures can create environments where tea staining might occur 20 kilometres or more from the sea water. These same factors also increase corrosion rates of alternative materials.

**Surface finish**

Rough surface finishes promote tea staining; The smoother the surface finish, the better. A surface roughness (Ra) of less than 0.5 micrometres is strongly recommended, a No. 4 finish is inadequate. Typically the products in this catalogue are 320 grit or higher which achieves a finish better than 0.5 micrometres Ra.

**Maintain regularly**

Stainless steel is not maintenance free but maintenance friendly. When using stainless steel material outdoors you need to clean periodically, especially in aggressive environments like coastal areas or swimming pools. Washing regularly will reduce the risk of tea staining. For best results wash with soap or mild detergent and warm water, followed by rinsing with cold water. The appearance of the surface can be improved further if the washed surface is wiped dry. There are a few products in this catalogue we recommend for maintenance and cleaning.

**Installation and inspection**

After installation the completed structure should be washed and inspected for imperfections or contaminants caused by the installation process. If discovered, imperfections should be cleaned off and polished with a suitable stainless polish. Hydrochloric acid, sometimes used to clean cement or mortar residues, should NOT be used on stainless steel as it will stain the surface and may start more serious corrosion.

The above notes have been researched by the Australian Stainless Steel Development Association (ASSDA) of which BRIDCO is a member.

**Mechanical properties**

It should be noted that although the ultimate strength of stainless steel, compared to mild steel, is relatively high, the yield factor of stainless steel is much lower, i.e. yield strength can be as low as 40 – 50% of the ultimate break load. (mild steel by comparison has a yield strength of about 65 – 70%).

***N.B.** It is important to make allowances for the low yield factor when designing structures that require safe working load. The usual proof tests of 50% of MBL cannot always be applied to stainless steel products. We advise consultation with your supplier for advice before conducting proof tests. It has not been feasible to include yield strengths in our Bridco catalogue as they can vary from item to item and application.*

**Returns and credit**

No merchandise will be accepted for return after 30 days or without prior authorisation from Bridco. Merchandise returned for any reason other than when supplied in error must have freight charges pre-paid to our warehouse. Goods returned 'freight-on' without prior approval will be returned to sender without notice at the senders cost. Invoice or delivery docket, along with return authorisation number must accompany returned goods. Claims for short or incorrect deliveries must be advised within 72 hours after receipt of goods. Goods must be returned in new condition.

**Warranty and guarantee**

All items stocked at Bridco are guaranteed to be free from defect at the time of shipment. Any item considered by Bridco to be defective will be replaced or adjusted, provided we are notified promptly, within 7 days, upon receipt and if requested returned to Bridco for examination. This guarantee becomes void if repairs are attempted by any other parties other than the supplier. Bridco will not be responsible for any labour costs, charges or penalties incurred in replacement of any item. Bridco will not be liable for defects in any item, which exceeds its replacement cost to Bridco.

*Bridco will not be held responsible for any replacement of products proof tested without prior consultation. Bridco recommend checking dimensions & B.L details with our sales staff or our website before purchasing Bridco products. Bridco will not be held responsible for any errors or changes to Dimensions, or Break Loads.*

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SECTION ONE

# Stainless Steel Hardware and Wire Rope Fittings

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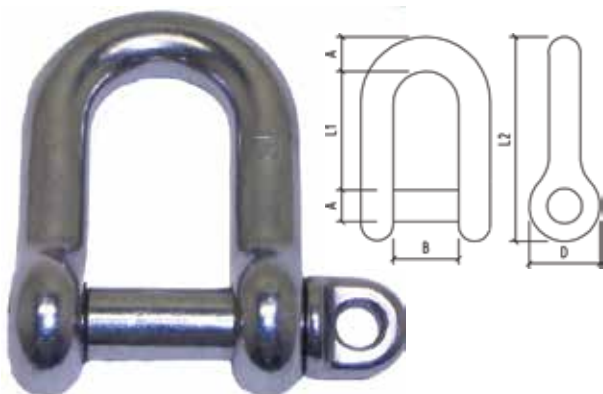
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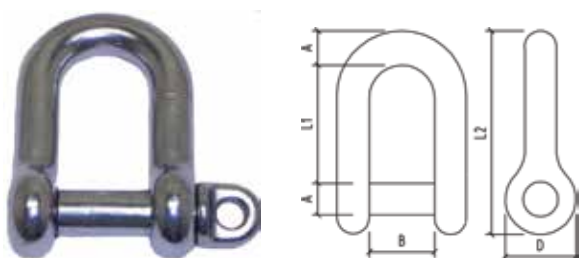
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ABOVE ITEM IS AVAILABLE IN THE BRIDCO LOAD RATED RANGE OF COMPONENTS.  
SEE PAGE 48 FOR FURTHER DETAILS.  
F = FORGED

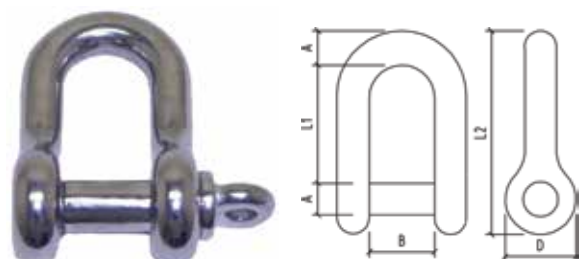
## STANDARD DEE SHACKLE

Code	A	B	D	L1	L2	B.L (kg)
SS-360F-05	4.8	10.8	9.8	18	30	1000
SS-360F-06	5.8	13.5	12	21	36	1700
SS-360-07	6.8	14.5	13.5	24.2	41.3	2000
SS-360F-08	7.6	17.3	15.9	29.7	48.2	2500
SS-360F-10	9.7	22.5	20	35.7	60	4100
SS-360F-12	11.6	27	23.7	43.1	70	5400
SS-360-16	16	32	31.8	56	95	10000
SS-360-19	19	38	37.6	66	110	15000
SS-360-25	24.7	50.4	49.7	87	148.7	23000
SS-360-32	31.2	64.4	64.6	110.1	190	26000



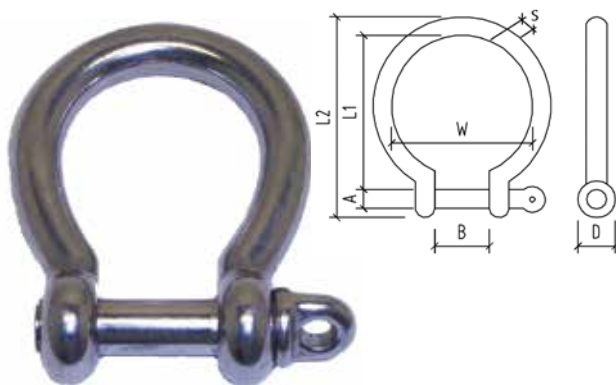
## CAPTIVE PIN DEE SHACKLE

Code	A	B	D	L1	L2	B.L (kg)
SS-360LK-06	5.2	13.2	11.3	22.2	36	1700
SS-360LK-08	8.2	15.8	15.7	28	48	2500
SS-360LK-10	9.9	19.8	19.2	35	58.2	4100



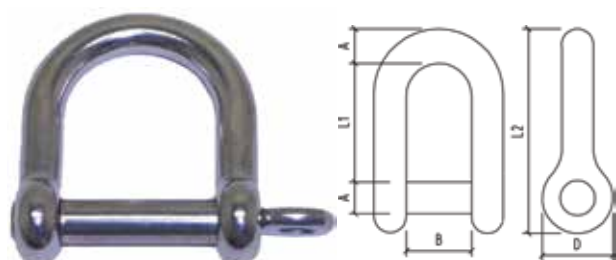
## OVERSIZE PIN DEE SHACKLE

Code	PIN	BODY	L1	B	D	L2	B.L (kg)
SS-3611-103	11.00	3/8"	31.9	15.9	23.5	57.5	4900
SS-3611-1035	12.5	7/16"	38	20.6	28	70	7300
SS-3611-104	15.7	1/2"	42.5	20.6	31.3	78	9900
SS-3611-105	19.0	5/8"	49.7	27.0	39.2	95.5	13000



## BOW SHACKLE

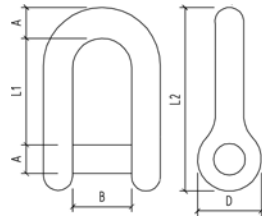
Code	S	B	D	W	L1	L2	B.L (kg)
SS-370F-03	2.9	6.3	7	9.1	13	19.3	400
SS-370F-05	5	11	10	18	27	40	1200
SS-370F-06	5.8	13.6	11.9	20.6	31	46	1700
SS-370F-08	7.8	17.9	16	25.5	36.7	57	2500
SS-370F-10	9.7	20.8	20	34.1	46.75	70.7	4300
SS-370F-12	11.8	25.8	23.9	41.9	58.3	86.5	6200
SS-370-16	15.6	31.8	31.9	56	74.8	115.5	10000
SS-370-22	21.6	43.7	44	75	98	150	19000



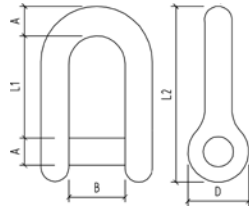
## WIDE DEE SHACKLE

Code	A	B	D	L1	L2	B.L (kg)
SS-360W-08	8	28.3	15.5	31	50	2500
SS-360W-12	11.5	49.2	23.3	64.4	92	4000

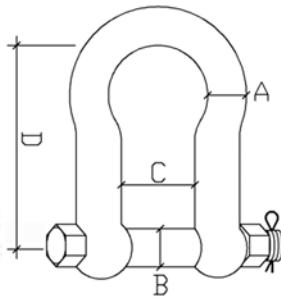
F = FORGED  
B.L = NOMINAL BREAKING LOAD

**SEMI ROUND DEE SHACKLE**

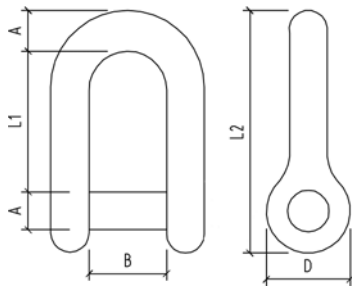
Code	A	B	D	L1	L2
SS-3611-05	4.8	11.9	12	19.5	31.6
SS-3611-06	6.4	12.9	13.7	22	36.9
SS-3611-08	7.8	18	18	27.2	46.6

**TWISTED SHACKLE**

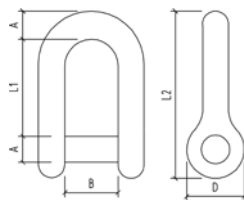
Code	A	B	D	L1	L2	B.L(kg)
SS-380-06	5.1	13.4	11	33	46.5	1600
SS-380-08	7.7	17.4	15.4	40	59.5	2800
SS-380-10	10	20	19.7	46.8	70	4600

**ANCHOR SHACKLE**

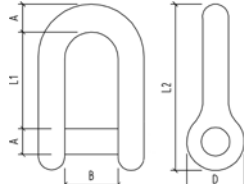
Code	A	B	C	D	B.L (kg)
SS-2711BB-516	5/16"	9.40	13.5	32.5	3000
SS-2711BB-38	3/8"	11.0	15.9	36.4	4800
SS-2711BB-716	7/16"	12.5	20.5	43.8	7000
SS-2711BB-58	5/8"	19.0	27.0	68.3	12000
SS-2711BB-34	3/4"	22.20	30.2	73.7	16000

**SLOTTED HEAD DEE SHACKLE**

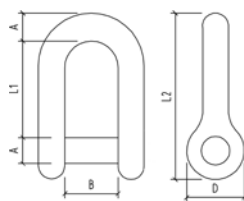
Code	A	B	D	L1	L2	B.L (kg)
SS-360C-04	4	8	7.9	14	24	550
SS-360C-06	6	12	12	21	35	1700
SS-360C-07	7	14	14	25	42	2000
SS-360C-08	8	17	15.9	28.6	48	2800
SS-360C-10	10	20	20	35	59	4500

**SEMI ROUND D SLOT HEAD SHACKLE - 304 GRADE**

Code	A	B	D	L1	L2	B.L (kg)
SS-361-05	5	12	12.5	19.4	30	950
SS-361-06	6	13	14	22	36	1500
SS-361-08	8	17.6	18	27	47	2600

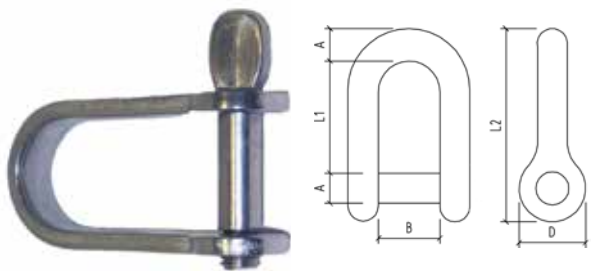
**SQUARE HEAD DEE SHACKLE**

Code	A	B	D	L1	L2	B.L (kg)
SS-360B-10	10	21.3	20	35	59	4500
SS-360B-12	12	24.3	23.4	42.4	71	6000

**LONG DEE SHACKLE**

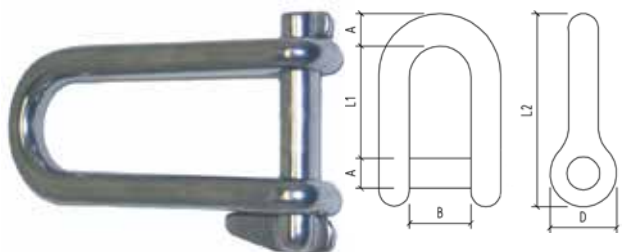
Code	A	B	D	L1	L2	B.L (kg)
SS-362-04	4.4	8.20	9.8	31.50	40.8	700
SS-362LK-06	5.25	11.6	12	37.5	59.2	1800
SS-362LK-08	7.1	16.0	15.9	60	80	2750
SS-362-10	10	20.0	20	74.5	99	3250
SS-362-12	12	26.60	23.7	89	118	6400

B.L = NOMINAL BREAKING LOAD



LIGHT WEIGHT STRIP SHACKLE - 304 GRADE

Code	A	B	D	L1	L2
SS-162-04	4	10	10	17	25



HEAD BOARD SHACKLE CAPTIVE PIN

Code	A	B	D	L1	L2	B.L (kg)
SS-3651-05	5	13	11	39	50	1000
SS-3651-06	6	16	12.5	43.9	57.3	1600
SS-3651-08	8	22	16.4	60	78.8	2250



SWIVEL EYE SNAP SHACKLE

Code	L	A	B	B.L (kg)
SS-2482-01	67.9	16	13	1100
SS-2482-02	89	24	17	2000
SS-2482-03	126	31	23	3500



FIXED EYE SNAP SHACKLE

Code	L	A	B	B.L (kg)
SS-2481-01	55	15	13	1100
SS-2481-02	70	22	13	2000
SS-2481-03	101	27	17	3500



CLEW SNAP SHACKLE

Code	A	C	L	B.L (kg)
SS-2464-02	15	18	65	1850

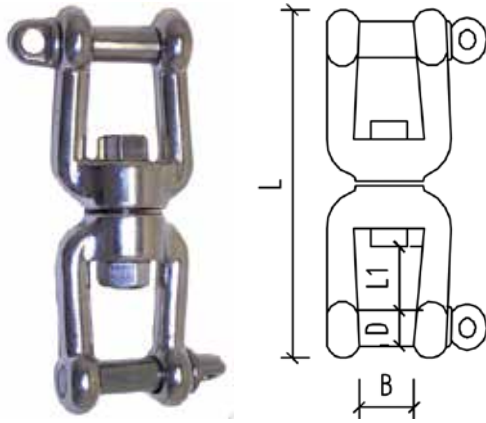
LARGER SIZE SHACKLES AVAILABLE IN SOME STYLES. PRICE AND AVAILABILITY ON REQUEST.





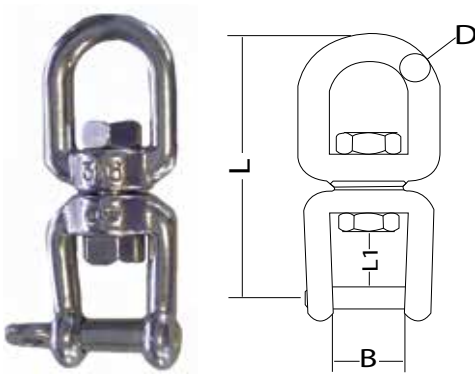
SWIVEL EYE AND EYE

Code	D	L	B	L1	B.L (kg)
SS-018-06	6	65	15	13	1200
SS-018-08	8	95	20.7	20	1900
SS-018-10	10	115	24	26	3500
SS-018-13	13	150	31	32	5000



SWIVEL JAW AND JAW

Code	D	L	B	L1	B.L (kg)
SS-0182-06	6	66	11	11.5	1200
SS-0182-08	8	94	16	16	1900
SS-0182-10	10	118	22	22	3500
SS-0182-13	13	154	27	22	5000
SS-0182-16	16	189	32	36	8500
SS-0182-19	19	221	38	41	10000



SWIVEL JAW AND EYE

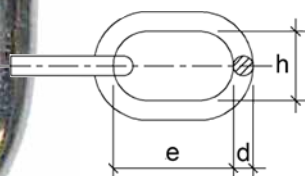
Code	D	L	B	L1	B.L (kg)
SS-0181-06	6	60	12	11	1200
SS-0181-08	8	80	16	15	1900

## STAINLESS STEEL CLEANING AND MAINTENANCE SCHEDULE

ENVIRONMENT	DISTANCE FROM SALT SPRAY, BEACHFRONT	CLEANING INTERVAL
MILD	15KM+	EVERY 12 MONTHS
MODERATE	1 – 15KM	EVERY 4 – 6 MONTHS
MARINE/INDUSTRIAL / URBAN	500M – SALT SPRAY / BEACHFRONT 100M – 1KM – SHELTERED BAY	EVERY 3 MONTHS
SEVERE MARINE / INDUSTRIAL / BUSY URBAN	500M – SALT SPRAY / BEACHFRONT 100M – SHELTERED BAY	WEEKLY

## STAINLESS STEEL CLEANER AND POLISH





NOT SUITABLE FOR LIFTING PURPOSES

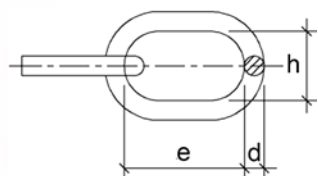
#### GRADE 316 SHORT LINK CHAIN

Code	d mm	e mm	h mm	Weight (kg)/m	B.L (kg)
SS-CH316-06S	6	18.6	9	0.87	2400
SS-CH316-06SDIN	6	18.5	7.2	0.8	2400
SS-CH316-08S	8	24	11.5	1.4	3260
SS-CH316-10S	10	30	14.2	2.2	5100
SS-CH316-12S	12	36.5	15.5	3.15	7500

RATED LIFTING CHAIN AVAILABLE, SEE SECTION 3 OF THIS CATALOGUE

#### GRADE 304 SHORT LINK CHAIN

Code	d mm	e mm	h mm	Weight (kg)/m	B.L (kg)
SS-CH304-08S	8	24	11.5	1.4	3260
SS-CH304-10S	10	30	14.2	2.2	5100



#### GRADE 316 MEDIUM LINK CHAIN

Code	d mm	e mm	h mm	Weight (kg)/m	B.L (kg)
SS-CH316-02M	2	14.8	4.25	0.075	350
SS-CH316-03M	3	15.6	6.6	0.2	700
SS-CH316-04M	4	19.7	7.2	0.3	850
SS-CH316-05M	5	22	9.5	0.5	1300
SS-CH316-06M	6	27.3	9.75	0.77	1850
SS-CH316-08M	8	31.7	13.8	1.3	3250
SS-CH316-10M	10	38.9	14.05	2.05	5100
SS-CH316-12M	12	47.2	18.5	2.95	7300
SS-CH316-16M	16	59	24.5	5.0	13300

SELECTED SIZES AVAILABLE AS PROOF COIL.  
SEE NEXT PAGE

#### GRADE 304 MEDIUM LINK CHAIN

Code	d mm	e mm	h mm	Weight (kg)/m	B.L (kg)
SS-CH304-03M	3	15.6	6.6	0.2	700
SS-CH304-04M	3.9	19.7	7.2	0.3	850
SS-CH304-06M	6	27.3	9.75	0.77	1850
SS-CH304-08M	8	31.7	13.8	1.3	3250
SS-CH304-10M	9.9	38.9	14.05	2.05	5100
SS-CH304-12M	11.8	46.5	18.5	2.95	7300

NOT SUITABLE FOR LIFTING PURPOSES

\* Chains are batch tested per consignment for breaking loads.

Please consult our sales department for current information.

#### PLEASE NOTE:

BREAKING STAINS ARE NOMINAL AND SHOULD BE USED AS A GUIDE ONLY.

THERE ARE SOME VARIANCES IN THE DIMENSIONS OF OUR SMALLER SIZES OF STAINLESS CHAIN. PLEASE CHECK WITH OUR SALES TEAM FOR ACCURATE DIMENSIONS.

STAINLESS STEEL LOAD RATED CHAIN IS AVAILABLE FROM OUR CROMOX RANGE OF LIFTING GEAR (SEE SECTION 3).

# PROOF COIL CHAIN



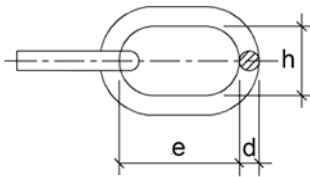
## Features:

Manufactured from AISI 316 Stainless Steel. Bridco PC chain is up to 50% stronger than Commercial Stainless Steel Chain.

Chain has been subjected to a Proof Load half of the B.L

Sizes 1/4" to 1 1/2"

Chain stamped with batch number & test certificates are available for traceability & conformance purposes.



## PROOF COIL CHAIN

Code	Proof Load (kN)	D (mm)	e (mm)	h (mm)	Drum Size
SS-CHPC-07	19.2	7	30.3	11.8	200M
SS-CHPC-08	25	8	31.9	13.9	200M
SS-CHPC-10	39.2	10	41.2	18.1	100M
SS-CHPC-13	66.3	13	50.1	20	50M

## SHACKLES TO SUIT

Chain	Dee Shackle	Bow Shackle
SS-CHPC-07	SS-360F-10LR	SS-370F-10LR
SS-CHPC-08	SS-360F-10LR	SS-370F-10LR
SS-CHPC-10	SS-360F-12LR	SS-370F-12LR
SS-CHPC-13	SS-360F-16LR	SS-370F-16LR

## Suggested applications:

Static lashing chain

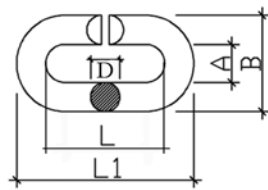
Shade Sails

Dragging chains

Other applications where commercial chain is not suitable.

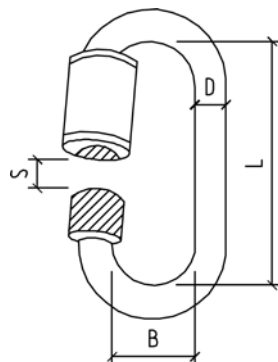
Note: Chain not rated for overhead lifting applications and is not suitable for permanent immersion.

## C LINK



CODE	A	B	D	L	L1	B.L (kg)
SS-10C-10	16	35	9	40	60	550
SS-10C-11	17	39	10	45	66	950
SS-10C-13	20	48	11.4	51.5	78	1300
SS-10C-16	23	60	18	62	98	1700

## QUICK LINKS

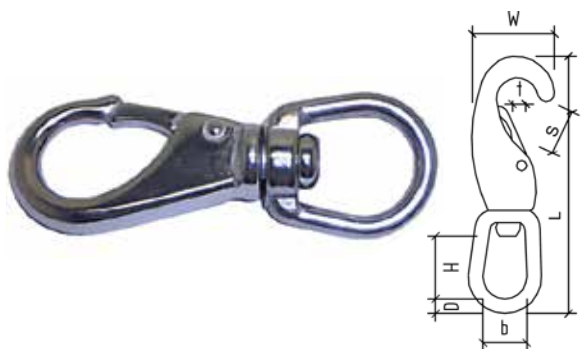


CODE	SIZE	B	D	L	S	B.L (kg)
SS-7350-04	4	12	4	33	6.8	280
SS-7350-06	6	14	6	47	8.16	550
SS-7350-08	8	18	8	59	9	1120
SS-7350-10	10	21	10	71	13	1600
SS-7350-12	12	24	12	84	15	2300
SS-7350-14	14	27	14	95	18	4300
SS-7350-16	16	30	16	110	18	5200



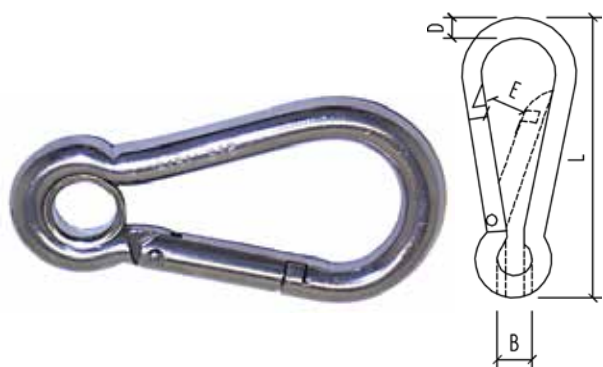
## SWIVEL EYE BOLT

CODE	L	H	S	W	t	d	D	B.L (kg)
SS-225	92	19	9.7	23.6	6.5	20	5	650



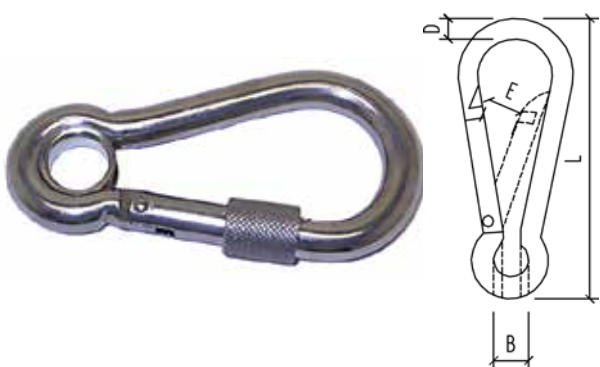
## SWIVEL EYE BOLT SNAP

CODE	L	d	S	H	W	D	T	B.L (kg)
SS-251-01	86	20	13	18	30	5	17	150
SS-251-02	100	21	14	20	36	5	22	150



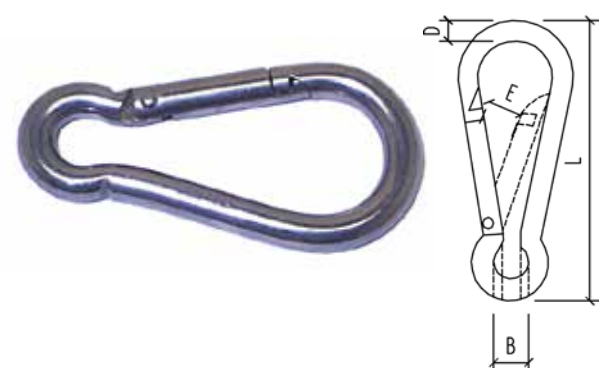
## SPRING HOOK WITH EYE

CODE	D	L	B	E	B.L (kg)
SS-2450-05	5	50	7	8	220
SS-2450-06	6	60	7	9	270
SS-2450-08	8	80	10	9	500
SS-2450-10	10	100	13.5	14	725
SS-2450-11	11	120	17	18	815
SS-2450-12	12	140	20	21	900



## SPRING HOOK WITH SCREW NUT AND EYE

CODE	D	L	B	E	B.L (kg)
SS-2450NX-06	6	60	7.8	6.5	450
SS-2450NX-08	8	80	10	10	725
SS-2450NX-10	10	100	13	11	1050



## SPRING HOOK WITHOUT EYE

CODE	D	L	B	E	B.L (kg)
SS-2450X-05	5	50	8	8	200
SS-2450X-06	6	60	8	9	270
SS-2450X-08	8	80	12	9	500
SS-2450X-10	10	100	15	14	725
SS-2450X-11	11	120	18	18	900

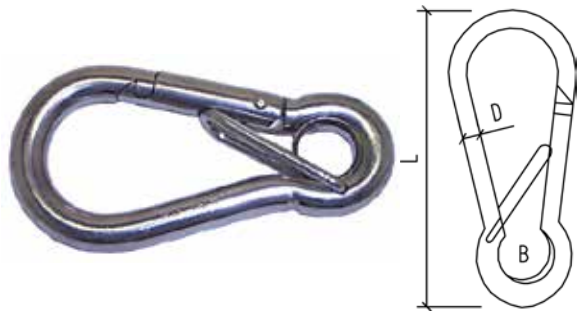
B.L = NOMINAL BREAKING LOAD





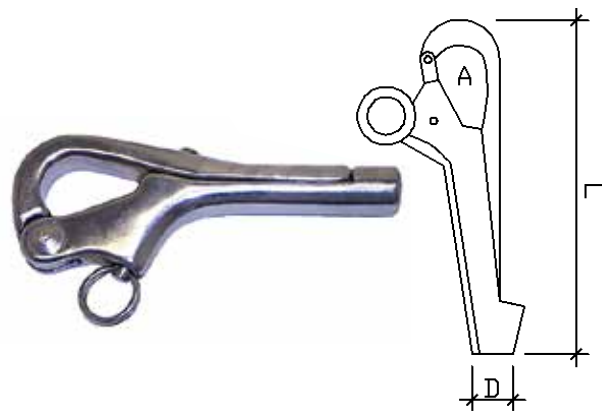
## ASYMMETRIC SPRING HOOK

CODE	D	L	A	W	C	B.L (kg)
SS-2430-06	6	62	9	34	14	750
SS-2430-08	8	81	11	42	20	1750
SS-2430-10	10	101	16	56	25	2250
SS-2430-12	12	122.5	18	72	34	3650



## SPRING HOOK WITH SAFETY BAR

CODE	D	L	B	B.L (kg)
SS-2451-08	8	80	10	400
SS-2451-10	10	100	14	950
SS-2451-11	11	120	19	1100



## PELICAN HOOKS BODY ONLY

CODE	L	A	D	THREAD
SS-2831-13	75	13	11	M6
SS-2831-14	103	15	14	M8

## THREADED TERMINALS SUIT SS-2831-13

SS-7801-02M	3/32" WIRE	M6 THREAD
SS-7801-03M	1/8" WIRE	M6 THREAD
SS-7801-046	5/32" WIRE	M6 THREAD

## THREADED TERMINALS SUIT SS-2831-14

SS-7801-04M	5/32" WIRE	M8 THREAD
SS-7801-05M	3/16" WIRE	M8 THREAD



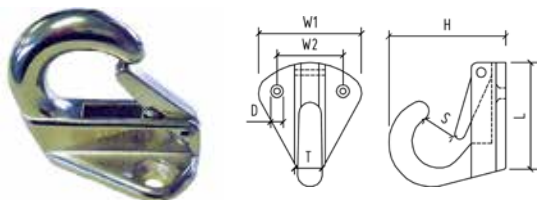
## CAST SNAP HOOK

CODE	L	S	D	W	B.L (kg)
SS-2470-05	50	10	6	23	220
SS-2470-07	70	12	10	30	500
SS-2470-10	100	20	14	46	900



## SAIL HANK - 304 GRADE

Code	L	A	B	B.L (kg)
SS-471-50	50	12	8	250
SS-471-65	65	18	8	350
SS-471-90	90	23	11	700

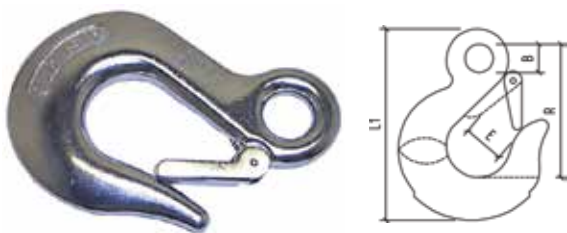


## STAINLESS STEEL SNAP HOOK

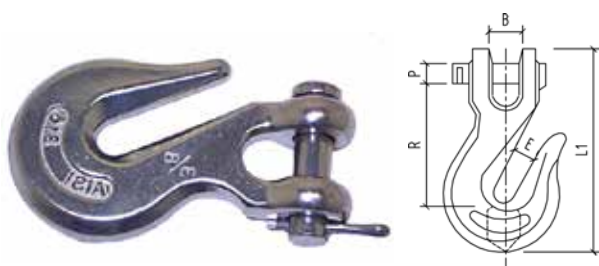
CODE	L	H	W1	W2	S	D	T
SS-5359-05	33	36	33	21	6	4.5	4.8
SS-5359-10	33	39.5	33	21	8.6	4.5	7.8

**CARGO HOOK**

CODE	A	B	L	B.L (kg)
SS-2311-100	18.9	25	100	750
SS-2311-125	28	25	117	1000

**EYE SLIP HOOK WITH SAFETY CATCH**

CODE	B	E	R	L1	B.L (kg)
SS-325X-06	13	14	63	91	1500
SS-325X-08	16	17	73	108	2900
SS-325X-10	18	17	84	124.5	3200
SS-325X-12	24	25	105	161	5400

**CLEVIS GRAB HOOK**

CODE	CHAIN SIZE	B	P	R	E	L1	B.L (kg)
SS-330-102	1/4"	11	9	45	9	79	2100
SS-330-1025	5/16"	13	11	55	10	95	3100
SS-330-103	3/8"	15	12	63	12	106	4000
SS-330-104	1/2"	19	16	80	15	140	7350

**S HOOK - 304 GRADE**

CODE	DIA	L	A	B	C	B.L (kg)
SS-866-TH	6	60	12	10	5	200
SS-866-THK	6	56	11.3	12	6	200
SS-870-TH	8	75	18	16	5	400
SS-985-TH	9	80	19	17	9	420

**BUCKLE - 304 GRADE**

CODE	L	B	C
SS-3181-505	63.7	50.3	6.4

**SLIDE BUCKLE - 304 GRADE**

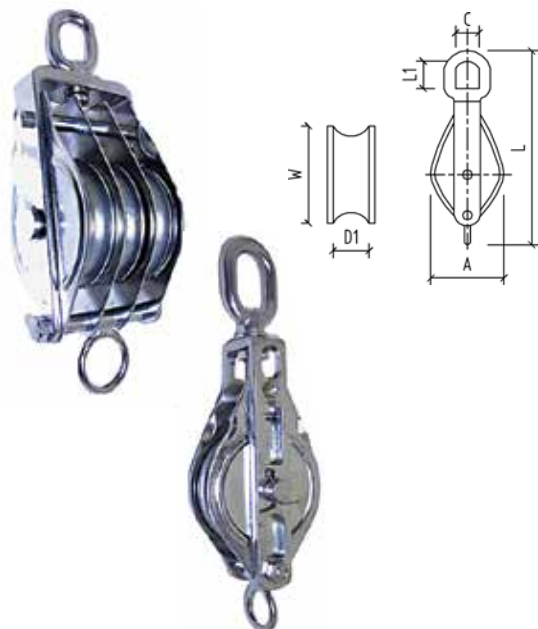
CODE	L	A	B	C
SS-363-50	55.6	57.1	50.9	19.8

B.L = NOMINAL BREAKING LOAD



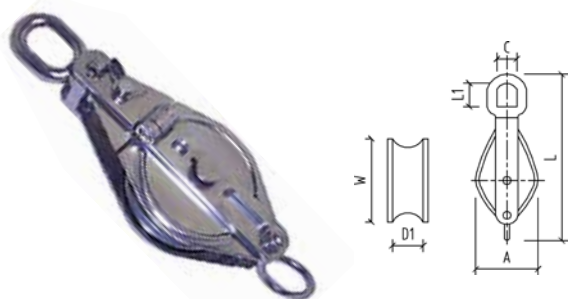
Bridco stock a large range of quality Stainless Steel Load Rated products, branded BRIDCO LR, such as Dee Shackles, Bow Shackles, Eye Bolts, Eye Nuts, Quick Links and Snap Hooks. Please refer to section 4 of this catalogue for more information.





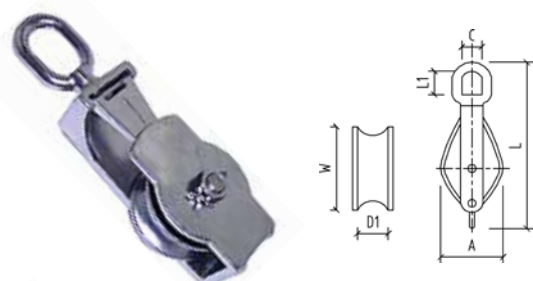
## TRAWL BLOCKS - 304 GRADE

CODE	HEAD	TYPE	W		D1	A
			IMP	MET		
SS-210-75	EYE	SINGLE	3"	75	15	83
SS-210-75H	HOOK	SINGLE	3"	75	15	83
SS-210-75D	EYE	DOUBLE	3"	75	15	83
SS-210-75DH	HOOK	DOUBLE	3"	75	15	83
SS-210-100	EYE	SINGLE	4"	100	17.5	112
SS-210-100H	HOOK	SINGLE	4"	100	17.5	112
SS-210-100D	EYE	DOUBLE	4"	100	17.5	112
SS-210-100T	EYE	TRIPLE	4"	100	17.5	112
SS-210-10028	EYE	SINGLE	4"	100	28	112
SS-210-125	EYE	SINGLE	4 1/2"	125	19	139
SS-210-125D	EYE	DOUBLE	4 1/2"	125	19	139



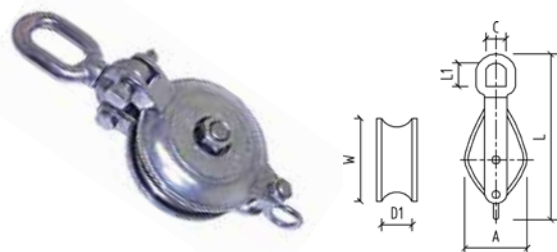
## SNATCH BLOCK - 304 GRADE

CODE	HEAD	TYPE	W		D1	A
			IMP	MET		
SS-211-75	EYE	SINGLE	3"	75	15	83
SS-211-75H	HOOK	SINGLE	3"	75	15	83
SS-211-100	EYE	SINGLE	4"	100	17.5	112
SS-211-100H	HOOK	SINGLE	4"	100	17.5	112



## SEINE BLOCK - 304 GRADE

CODE	HEAD	TYPE	W		D1	A
			IMP	MET		
SS-212-75	EYE	TYPE	3"	75	15	75
SS-212-75L	EYE	TYPE	3"	75	22	75
SS-212-75LH	HOOK	TYPE	3"	75	22	75



## DARUMA BLOCK

CODE	HEAD	TYPE	SHEAVE	ROPE DIA	B.L (kg)
SS-217-75	EYE	SINGLE	75	13	4000
SS-217-100	EYE	SINGLE	100	16	5000
SS-217-150	EYE	SINGLE	150	18	7000

Note: Bearings are mild steel



## SHEAVES WITH BRONZE BUSHES - 304 GRADE

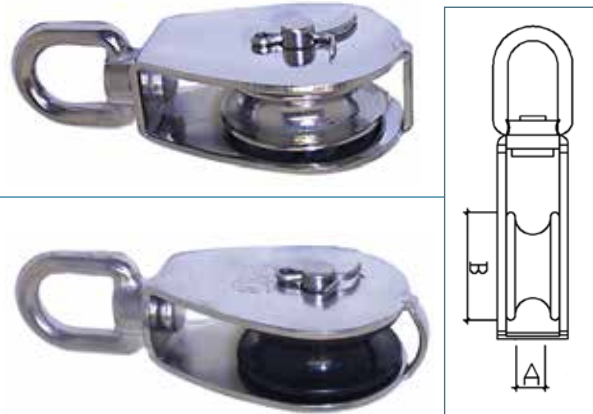
CODE	Diameter	Width	BORE	Groove
SS-3130-25	25	17.2	8.3	11
SS-3130-32	32	17	8.3	12
SS-3130-50	50	20	10.4	13
SS-3130-75	75	19.7	13.2	15
SS-3130-100	100	24.5	17.2	17





MAME BLOCK WITH BECKET - 304 GRADE

CODE	TYPE	SHEAVE DIA & TYPE	ROPE DIA	C	B	A	B.L (kg)
SS-314ANL-32	SINGLE	32 NYLON	10	95	14	6	1500
SS-315ANL-32	DOUBLE	32 NYLON	10	95	14	6	1500
SS-314ANL-50	SINGLE	50 NYLON	13	125	20	8	2500
SS-315ANL-50	DOUBLE	50 NYLON	13	125	20	8	2500
SS-314AS-32	SINGLE	32 S/S	10	95	14	6	1500
SS-315AS-50	DOUBLE	50 S/S	13	125	20	8	2500



SMALL SWIVEL HEAD BLOCK WITH STAINLESS STEEL SHEAVE

CODE	TYPE	B	A	B.L (kg)
SS-3141S-32	SINGLE	32	9	1500
SS-3141S-50	SINGLE	50	12	2500



SMALL SWIVEL HEAD BLOCK WITH NYLON SHEAVE

CODE	TYPE	B	A	B.L (kg)
SS-3141-32	SINGLE	32	9	1500
SS-3151-32	DOUBLE	32	9	1500
SS-3141-50	SINGLE	50	12	2500
SS-3151-50	DOUBLE	50	12	2500



MINI BLOCK - REMOVABLE PIN - NYLON SHEAVE - 304 GRADE

CODE	TYPE	S	D	B.L (kg)
SS-3252-25	SINGLE	25	6	350



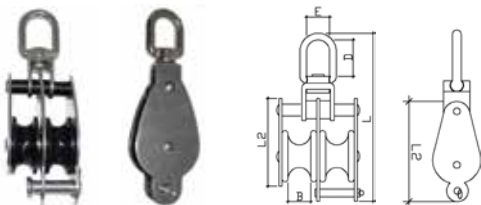
MINI BLOCK WITH BECKET - NYLON SHEAVE - 304 GRADE

CODE	W	SUIT ROPE	D	L	B.L (kg)
SS-8257-25	25	25	6	59	350



MINI BLOCK SINGLE NYLON SHEAVE - 304 GRADE

CODE	W	SUIT ROPE	D	L	B.L (kg)
SS-8258-25	25	25	8	45	350



MAME BLOCK DOUBLE NYLON / EYE PLATE - 304 GRADE

CODE	B	D	E	L	L2	B.L (kg)
SS-3151NL/B50	21	26.75	20	162	104.75	2800



MAME BLOCK DOUBLE NYLON / EYE PLATE - 304 GRADE

CODE	B	D	E	L	L2	B.L (kg)
SS-3141NL/B50	21	26.23	20	162	104.75	2800



## STAINLESS STEEL NUT &amp; ROD

SIZE	LEFT HAND NUT	RIGHT HAND NUT	ROD
M5	SS-NUT-05L	SS-NUT-05	SS-ROD-05M
M6	SS-NUT-06L	SS-NUT-06	SS-ROD-06M
M8	SS-NUT-08L	SS-NUT-08	SS-ROD-08M
M10	SS-NUT-10L	SS-NUT-10	SS-ROD-10M
M12	SS-NUT-12L	SS-NUT-12	SS-ROD-12M
M16	SS-NUT-16L	SS-NUT-16	SS-ROD-16M
M20	SS-NUT-20L	SS-NUT-20	SS-ROD-20M
M24	SS-NUT-24L	SS-NUT-24	SS-ROD-24M



## STAINLESS STEEL NYLOC NUT / RHT

SIZE	CODE	SIZE	CODE
M5	SS-NUT-05NYL	M10	SS-NUT-10NYL
M6	SS-NUT-06NYL	M12	SS-NUT-12NYL
M8	SS-NUT-08NYL	M16	SS-NUT-16NYL



## STAINLESS STEEL DOME NUT / RHT

SIZE	CODE
M5	SS-DNUT-05
M6	SS-DNUT-06
M8	SS-DNUT-08
M10	SS-DNUT-10
M12	SS-DNUT-12



## STAINLESS STEEL WASHER

SIZE	CODE	SIZE	CODE
M5	SS-WASH-05	M12	SS-WASH-12
M6	SS-WASH-06	M16	SS-WASH-16
M8	SS-WASH-08	M20	SS-WASH-20
M10	SS-WASH-10	M24	SS-WASH-24



## STAINLESS STEEL HAMMER PINS

CODE	SIZE	LENGTH	TO SUIT
SS-HP-05	M5	11	SS-7803-305, SS-312T-503
SS-HP-06	M6	13	SS-7803-03, SS-312T-604

Stainless steel is not maintenance free, but maintenance friendly. When using stainless steel products outdoors periodic cleaning, especially in aggressive environments

such as coastal areas or swimming pools, is essential. Washing regularly will reduce the risk of tea staining. (See introduction).

## STAINLESS STEEL CLEANING AND MAINTENANCE SCHEDULE RECOMMENDED BY BRIDCO

ENVIRONMENT	DISTANCE FROM SALT SPRAY, BEACHFRONT	CLEANING INTERVAL
MILD	15KM+	EVERY 12 MONTHS
MODERATE	1 – 15KM	EVERY 4 – 6 MONTHS
MARINE/INDUSTRIAL / URBAN	500M – SALT SPRAY / BEACHFRONT 100M – 1KM – SHELTERED BAY	EVERY 3 MONTHS
SEVERE MARINE / INDUSTRIAL / BUSY URBAN	500M – SALT SPRAY / BEACHFRONT 100M – SHELTERED BAY	WEEKLY



## COUNTER SUNK PHILLIPS HEAD SELF TAPPERS - 304 GRADE

CODE	GAUGE	LENGTH
SS-ST-6030	6	3/4"
SS-ST-6032	6	1"
SS-ST-6036	6	1 1/4"
SS-ST-6048	6	1 1/2"
SS-ST-8032	8	1"
SS-ST-8056	8	1 3/4"
SS-ST-1064	10	2"
SS-ST-1250	12	2"



## PAN HEAD PHILLIPS HEAD SCREWS

CODE	HEAD DIA	LENGTH	THREAD
SS-98-0550	9	50	M5
SS-98-0650	10	50	M6



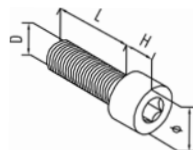
## BUTTON HEAD SOCKET SCREWS

CODE	HEAD DIA	LENGTH	THREAD
SS-98-515	9	15	M5
SS-98-05	9	30	M5
SS-98-06	10	40	M6



## STAINLESS STEEL ANCHOR BOLTS

CODE	THREAD SIZE	LENGTH
SS-ANCHOR-640	M5	35
SS-ANCHOR-840	M6	40
SS-ANCHOR-1060	M8	60
SS-ANCHOR-1280	M10	80
SS-ANCHOR-1410	M12	100



## CAP HEAD SOCKET SCREWS

CODE	H	D	L	d
SS-SOCM820	8	13	20	M8



## COUNTER SUNK SOCKET SCREWS

CODE	HEAD DIA	LENGTH	THREAD
SS-CSS6010	12	10	M6
SS-CSS6016	12	16	M6
SS-CSS6035	12	35	M6
SS-CSS8020	16	20	M8
SS-CSS8030	16	30	M8
SS-CSS8040	16	30	M8



## STAINLESS STEEL POP RIVETS

CODE	SIZE	LENGTH
SS-POP-54	5/32"	10.3
SS-POP-64	3/16"	10.9

**BLIND RIVET NUT - 304 GRADE**

CODE	THREAD	D	x	L	S	DRILL BIT
SS-BRN05	M5	8	7	11.6	0.5	7.5
SS-BRN06	M6	10.5	9	13.8	0.5	9.5
SS-BRN08	M8	11.3	10	15.8	0.5	10.5
SS-BRN10	M10	14.1	13	18.9	0.5	13.5

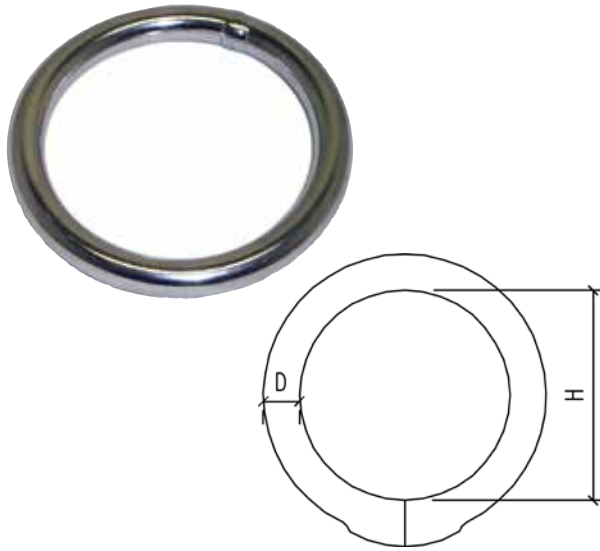
**LOCKING WIRE (TIE WIRE) STAINLESS STEEL - 304 GRADE**

CODE	SIZE	APPROX LENGTH
WR-234664	0.020" (0.5mm)	283m
WR-234699	0.025" (0.64mm)	181m
WR-469602	0.032" (0.8mm)	110m
WR-234737	0.041" (1.1mm)	67m
WR-234761	0.051" (1.26mm)	43.7m
WR-234762	0.062" (1.57mm)	29.5m





## ROUND RING - 304 GRADE



CODE	D	H	B.L (kg)
SS-1717-04	4	25	1,000
SS-1717-05	5	35	2,000
SS-1717-54	5	40	2,000
SS-1717-565	5	65	2,000
SS-1717-06	6	40	2,700
SS-1717-650	6	50	2,700
SS-1717-08	8	55	5,000
SS-1717-875	8	75	5,000
SS-1717-1075	10	75	8,500
SS-1717-10100	10	100	8,500
SS-1717-12120	12	120	10,000



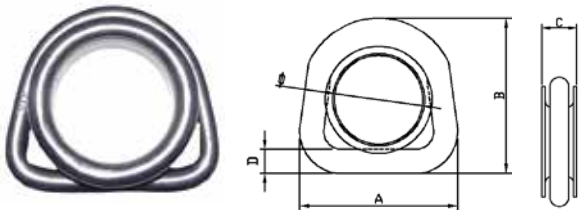
## STAINLESS STEEL TRIANGLE - 304 GRADE

CODE	D	L	B.L (kg)
SS-325T-650	6	50	2,000
SS-325T-850	8	50	2,800



## STAINLESS STEEL DEE RING - 304 GRADE

CODE	D	L	B.L (kg)
SS-325-320	3	20	600
SS-325-425	4	25	800
SS-325-638	6	38	1,800
SS-325-64	6	40	1,800
SS-325-65	6	50	1,800
SS-325-85	8	50	2,800



## STAINLESS STEEL DEE WITH THIMBLE

CODE	Ø	A	B	C	D
SS-3254-06	24	42	43	11	6
SS-3254-08	35	66.5	59	19	8
SS-3254-10	41	82	74	20	10



## LIGHT WEIGHT WIRE ROPE THIMBLE

CODE	ROPE SIZE	C	D	A	E	B
SS-234-02	2MM	23	5	8	3	16
SS-234-03	3MM	25	5.5	10	4.5	18
SS-234-04	4MM	27	6.5	11	5	19
SS-234-05	5MM	32.5	7	14	6	22
SS-234-06	6MM	36	9.5	17	7	27
SS-234-08	8MM	50	12	20	9	35
SS-234-10	10MM	60	15	25	11	40
SS-234-12	12MM	68	18	30	14	47
SS-234-14	14MM	71	19	34.5	16	51
SS-234-16	16MM	82	22	36	18	61
SS-234-18	18MM	92	25	41	20	65
SS-234-20	20MM	100	26.5	43	22	75
SS-234-22	22MM	107	30.5	46	26	79
SS-234-25	25MM	111	35	48.5	30	78



## HEAVY DUTY WIRE ROPE THIMBLE

CODE	ROPE SIZE	C	D	A	E	B
SS-414-1/4	6MM / 1/4"	56	10	23.5	7	43
SS-414-5/16	8MM	63	12.5	28	9	49
SS-414-3/8	3/8" / 10MM	73	15	29	10.5	55
SS-414-1/2	12MM / 1/2"	92	20	38	13	65
SS-414-5/8	16MM	106	23.5	45	17	83
SS-414-3/4	3/4" / 20MM	125	31	51	23	95
SS-414-1	1"	157.5	37.5	65.5	25.4	118



## HEAVY DUTY CLOSED WIRE ROPE THIMBLE

CODE	ROPE SIZE	C	D	A	E	B
SS-2344-10	10MM	67	13.5	28.5	10	51
SS-2344-12	12MM	86	16.3	36.5	11	62
SS-2344-16	16MM	109.5	22.5	47	14	82



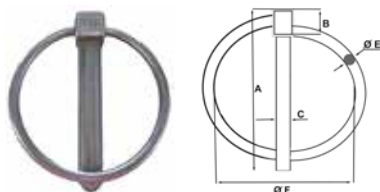
## STAINLESS STEEL MOORING CLEAT

CODE	L	B	P	P1	H
SS-508-06	6" 150MM	45	56	27	31.5
SS-508-08	8" 200MM	54	75	34	38
SS-508-10	10" 250MM	69	93	46.7	48.5



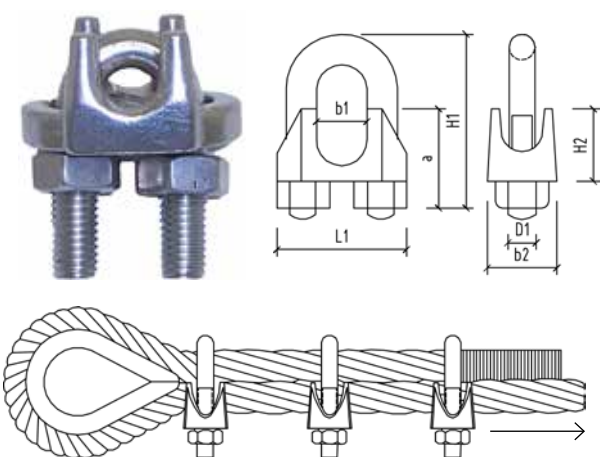
## STAINLESS STEEL ROPE CLEAT

CODE	L	H1	H	T	H2
SS-4015-01	68	21	4	4	12
SS-4015-02	113	35	5.8	6	20
SS-4015-03	150	37	6.8	8	29



## LINCH PIN

CODE	A	B	C	E	F
SS-3193-04	47	7.4	4.4	2.6	37.8
SS-3193-06	55	7.8	6	3.2	44
SS-3193-08	56	8.3	7.4	3.2	44



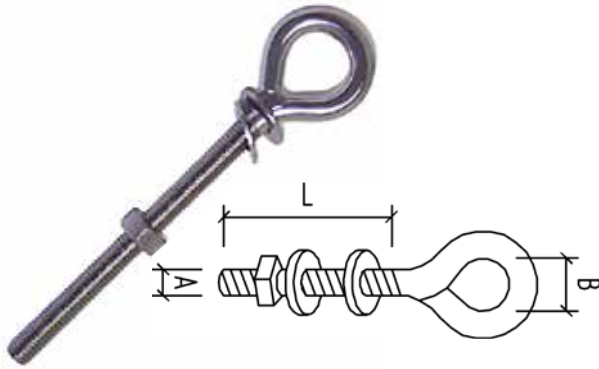
## WIRE ROPE GRIP

CODE	ROPE SIZE	B	B1	B2	D1	H1	H2	L1
SS-260-02	2MM	12	4	14	3	18	10	13
SS-260-03	3MM	14	5.5	16	3	22	11	16
SS-260-03/HD	3MM	12	4	14	4	18	10	13
SS-260-04	4MM	16	6	18	4	23	13	18
SS-260-05	5MM	19	7	21	5	27	15	21
SS-260-06	6MM	22	9	22	5	32	17	27
SS-260-08	8MM	27	11	28	8	40	20	34
SS-260-10	10MM	32	12	35	10	50	24	45
SS-260-12	12MM	37	15	38	12	62	28	50
SS-260-14	14MM	40	18	44	13	65	32	52
SS-260-16	16MM	47	20	47	13	78	34	59
SS-260-19	19MM	51	22	53	13	82	39	62
SS-260-25	25MM	65	28	62	16	105	53	76

Attach Wire Rope Grips as shown in the above diagram.  
Note: Pulling wire sits on the base of the grip.

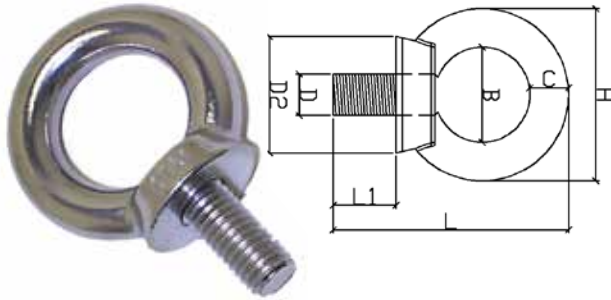
## WELDED EYE BOLTS

CODE	A	L	B	B.L (kg)
SS-3191-64	M6	35	13	1000
SS-3191-655	M6	50	13	1000
SS-3191-68	M6	75	13	1000
SS-3191-88	M8	75	17	1800
SS-3191-810	M8	95	17	1800
SS-3191-112	M10	115	21	2400
SS-3191-1015	M10	150	21	2400



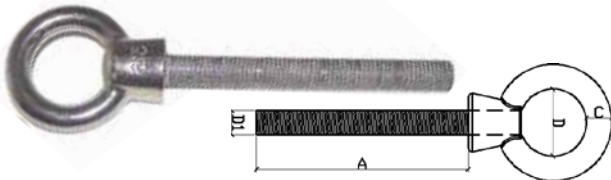
## COLLARED EYE BOLTS

CODE	D	C	B	H	L	L1	D2	B.L (kg)
SS-580-06	M6	6	15	24	41	10	17	1300
SS-580-08	M8	8	20	36	48	13	20	2000
SS-580-10	M10	10	25	45	62	17	25	2600
SS-580-12	M12	12	30	54	75	21	30	4500
SS-580-16	M16	16	35	63	90	27	35	7000
SS-580-20	M20	20	40	72	102	30	40	10000
SS-580-24	M24	24	50	90	126	36	50	12000



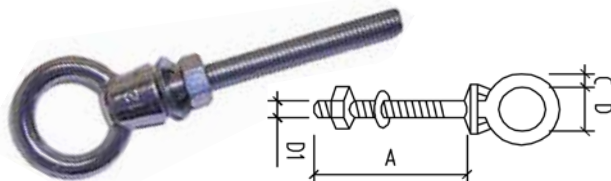
## HIGH COLLARED EYE BOLTS WITH LONGER THREAD

CODE	D1	A	D	C	B.L(kg)
SS-580-16100	M16	100	35	16	8000



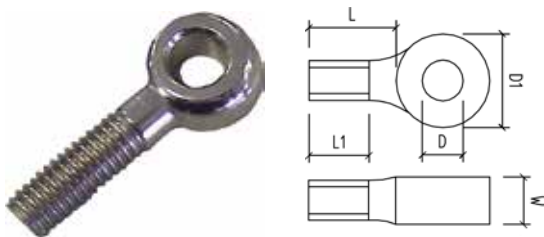
## HIGH COLLARED EYE BOLTS WITH NUT AND WASHER

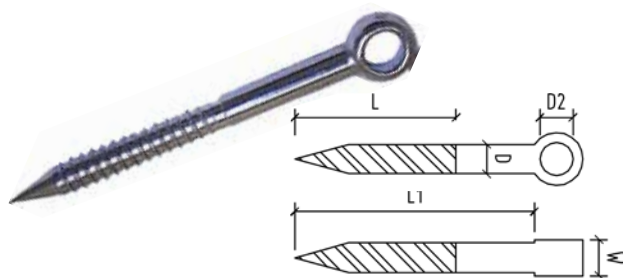
CODE	D1	A	D	C	B.L (kg)
SS-307-1012	M10	120	25	8	2600
SS-307-12	M12	100	30	10	3500
SS-307-12120	M12	120	30	10	3500
SS-580-16130	M16	130	35	16	8000



## EYE BOLT

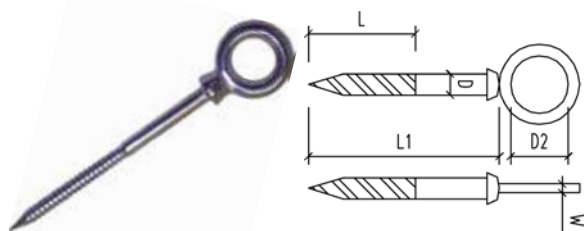
CODE	THREAD	L	L1	D	D1	W
SS-444-612	M6	12	10	6	14	6
SS-444-625	M6	20	15	6	14	6
SS-444-840	M8	32	30	8	17	9
SS-444-1020	M10	23	20	12	20	12





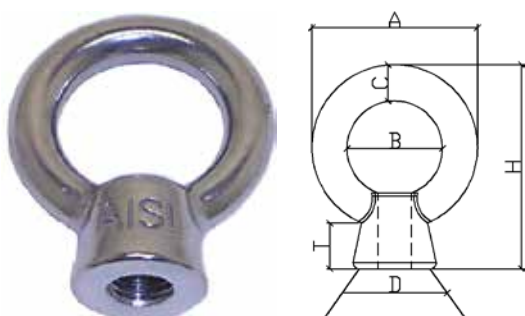
## SCREW EYE

CODE	W	D	L1	L	D2
SS-3182-0660Y	5.2	6	57	35	6.2
SS-3182-0660	6	6	60	40	6.3
SS-3182-0860	9	8	59.5	40	8.4
SS-3182-1080	12	10	80	55	10.2
SS-3182-12100	14	12	100	64	12.1



## SCREW EYE WITH COLLARED HEAD

CODE	W	D	L1	L	D2
SS-3291-05060	5	5	70	33	11
SS-3291-06080	6	6	87	47	14
SS-3291-08080	8	8	90	47	18
SS-3291-12120	12	12	130	72	27



## EYE NUTS HIGH COLLAR

CODE	A	D	H	T	B	C	B.L (kg)
SS-3061-06	26	M6	31	11	16	5	1100
SS-3061-08	32	M8	40	14	20.5	6	1300
SS-3061-10	40	M10	49	17	25	8	2600
SS-3061-12	49	M12	61	20	30	10	3400
SS-3061-16	59	M16	72	26.5	35	12	8000
SS-3061-20	72	M20	86	33	40	16	10500



## EYE NUTS LOW COLLAR

CODE	A	D	H	T	B	C	B.L (kg)
SS-582-20	72	M20	70.5	12.5	40	16	10000
SS-582-24	90	M24	86.9	15.4	50	20	18000
SS-582-30	103	M30	104	22	59	23	22000



## LIGHT WEIGHT SADDLES

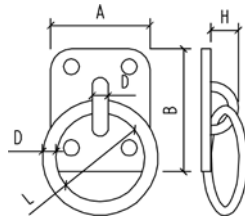
CODE	WIDTH	L	W	D	H
SS-324-36	11	42	11	1.2	9
SS-324-50	12.5	42	12.5	1.4	13



## MEDIUM WEIGHT SADDLES

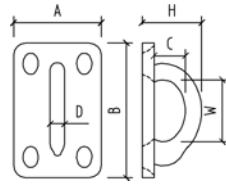
CODE	D	L	W	H	FASTENER GAUGE
SS-322-05	5	54	20	13	5
SS-322-06	6	62	21	15	6
SS-322-08	8	65	21	16	8





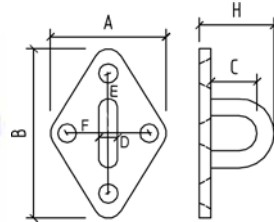
EYE PLATE WITH RING - 304 GRADE

CODE	D	L	B	A	H
SS-320-06	6	40	40	34	26
SS-320-08	8	45	50	40	31



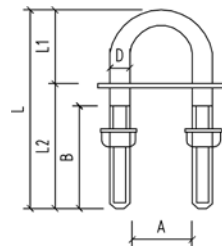
EYE PLATE - 304 GRADE

CODE	D	B	A	C	H	C
SS-321-06	6	40	34	18.6	25	16
SS-321-08	8	50	38.7	21	33	23



DIAMOND PAD EYE - 304 GRADE

CODE	A	B	C	D	E	F	H
SS-3213-60	38	67	10	8	51	23	21
SS-3213-70	50	80	15	8	57	27	28
SS-3213-90	57	89	16	8	67	34	29
SS-3213-100	60	100	20	10	81	40	35



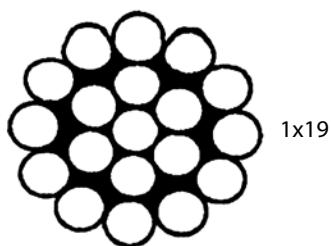
U BOLT - 304 GRADE

CODE	A	B	D	L	L1	L2
SS-413-88	28	40	7	80	30	42
SS-413-810	28	50	7	100	33	60
SS-413-1013	39.8	55	9	130	45	75
SS-413-1215	47.8	65	11	150	55	90

## 316 Grade Stainless Steel Wire Rope

Bridco stock a large range of quality Korean made stainless steel rope. When accompanied with our stainless steel wire rope fittings or Talurit ferrules, wire rope applications are endless.

1 x 19 Least flexible, most common for balustrades will not bend around corners or angles.



1x19

### GRADE 316 1X19 WIRE ROPE

CODE	DIA inch	DIA mm	WEIGHT (kg)/m	B.L (kg)
WR-116119316	1/16"	1.6	0.013	215
WR-2M119316		2	0.198	336
WR-332119316	3/32"	2.4	0.029	372
WR-3M119316		3	0.045	757
WR-18119316	1/8"	3.2	0.051	847
WR-4M119316		4	0.080	1340
WR-5M119316		5	0.124	2101
WR-6M119316		6	0.178	3059
WR-8M119316		8	0.243	5380
WR-10M119316		10	0.495	8413
WR-12M119316		12	0.806	13555
WR-14M119316		14	1.021	16189
WR-16M119316		16	1.306	20386

OTHER SIZES AVAILABLE ON REQUEST

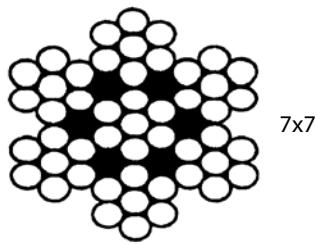


LARGER SIZES AVAILABLE ON REQUEST

316 Grade Stainless Steel Wire Rope

7x7 semi flexible, common for balustrades where a slight angle is required.

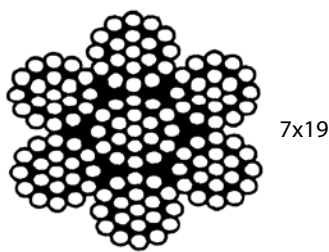
Can be wrapped around a thimble in smaller sizes.



GRADE 316 7X7 WIRE ROPE

CODE	DIA inch	DIA mm	WEIGHT (kg)/m	B.L (kg)
WR-36477316	3/64"	1.2	0.006	108
WR-11677316	1/16"	1.6	0.010	190
WR-2M77316		2	0.017	248
WR-33277316	3/32"	2.4	0.023	371
WR-1877316	1/8"	3.2	0.042	708
WR-4M77316		4	0.066	994
WR-5M77316		5	0.095	1549
WR-6M77316		6	0.169	2233
WR-8M77316		8	0.271	3681

7x19 most flexible. Common where a thimble and swage is used.



GRADE 316 7X19 WIRE ROPE

CODE	DIA inch	DIA mm	WEIGHT (kg)/m	B.L (kg)
WR-116719316	1/16"	1.6	0.010	153
WR-2M719316		2	0.016	231
WR-332719316	3/32"	2.4	0.024	371
WR-18719316	1/8"	3.2	0.043	707
WR-4M719316		4	0.061	926
WR-5M719316		5	0.095	1448
WR-6M719316		6	0.138	2090
WR-8M719316		8	0.243	3711
WR-10M719316		10	0.381	5792
WR-12M719316		12	0.548	8341
WR-14M719316		14	0.746	11359
WR-16M719316		16	0.974	14836

Bridco can supply wire rope in Grade 304 and PVC coated wire rope in white, black and clear on request. Please consult our sales department for size and pricing.

OTHER SIZES AVAILABLE ON REQUEST



WIRE ROPE



## Common Balustrade styles

Grade 316 stainless steel wire rope fittings.

## Traditional Open Body Turnbuckle with Hand Swage Eyes



Wire Size	Wire Type	Saddle	Turnbuckle	Thimble	Hand Swage Ferrule	Swaging Tool
5/64" (2.0mm)	7X7 or 7X19	SS-322-05	SS-311E-04	SS-234-02	CP-120NP	CP-731
3/32" (2.4mm)	7X7 or 7X19	SS-322-05	SS-311E-04	SS-234-03	CP-125NP	CP-731
1/8" (3.2mm)	7X7 or 7X19	SS-322-05	SS-311E-05	SS-234-03	CP-130NP	CP-763
5/32" (4.0mm)	7X7 or 7X19	SS-322-06	SS-311E-06	SS-234-04	CP-140NP	CP-774
3/16" (4.8mm)	7X7 or 7X19	SS-322-08	SS-311E-08	SS-234-05	CP-150NP	CP-775

## Closed Body Rigging Screw with Hand Swage Eyes



Wire Size	Wire Type	Saddle	Turnbuckle	Thimble	Hand Swage Ferrule	Swaging Tool
5/64" (2.0mm)	7X7 or 7X19	SS-322-05	SS-312J-05	SS-234-02	CP-120NP	CP-731
3/32" (2.4mm)	7X7 or 7X19	SS-322-05	SS-312J-05	SS-234-03	CP-125NP	CP-731
1/8" (3.2mm)	7X7 or 7X19	SS-322-05	SS-312J-05	SS-234-03	CP-130NP	CP-763
5/32" (4.0mm)	7X7 or 7X19	SS-322-06	SS-312J-06	SS-234-04	CP-140NP	CP-774
3/16" (4.8mm)	7X7 or 7X19	SS-322-08	SS-312J-08	SS-234-05	CP-150NP	CP-775



## Common Balustrade styles

Grade 316 stainless steel wire rope fittings.

### Jaw/Swage Rigging Screw and Fork Terminal



#### Screw Eye - to suit timber post

Wire Size	Wire Type	Screw Eye	Rigging Screw	Fork Terminal	Hex Die	Swaging Tool
3/32" (2.4mm)	1X19	SS-3182-0660	SS-312T-525	SS-7803-225	HEX 2.5	GPP20T
1/8" (3.2mm)	1X19	SS-3182-0660	SS-312T-503	SS-7803-305	HEX 3	GPP20T
5/32" (4.0mm)	1X19	SS-3182-0660	SS-312T-604	SS-7803-406	HEX 4	GPP40T
3/16" (4.8mm)	1X19	SS-3182-0860	SS-312T-805	SS-7803-05	HEX 5	GPP40T

#### Saddle - to suit timber or metal post

Wire Size	Wire Type	Saddle	Rigging Screw	Fork Terminal	Hex Die	Swaging Tool
3/32" (2.4mm)	1X19	SS-322-05	SS-312T-525	SS-7803-225	HEX 2.5	GPP20T
1/8" (3.2mm)	1X19	SS-322-05	SS-312T-503	SS-7803-305	HEX 3	GPP20T
5/32" (4.0mm)	1X19	SS-322-06	SS-312T-604	SS-7803-406	HEX 4	GPP40T
3/16" (4.8mm)	1X19	SS-322-08	SS-312T-805	SS-7803-05	HEX 5	GPP40T

#### Eye Bolt - to suit blind rivet nut or tapped metal post

Wire Size	Wire Type	Eye Bolt	Rigging Screw	Fork Terminal	Hex Die	Swaging Tool
3/32" (2.4mm)	1X19	SS-444-612	SS-312T-525	SS-7803-225	HEX 2.5	GPP20T
1/8" (3.2mm)	1X19	SS-444-612	SS-312T-503	SS-7803-305	HEX 3	GPP20T
5/32" (4.0mm)	1X19	SS-444-612	SS-312T-604	SS-7803-406	HEX 4	GPP40T
3/16" (4.8mm)	1X19	SS-444-840	SS-312T-805	SS-7803-05	HEX 5	GPP40T

## Common Balustrade styles

Grade 316 stainless steel wire rope fittings.

### Modern Allen Key Head Tensioner-Stage Stud with Flat Head Terminal



Wire Size	Wire Type	Tensioner	Swage Stud	Flat Head Terminal	Die	Swaging Tool
1/8" (3.2mm)	1X19	SS-7500-06	SS-7801-03M	SS-7840-03Z	HEX 3	GPP20T
5/32" (4.0mm)	1X19	SS-7500-06	SS-7801-046	SS-7840-04	HEX 4	GPP40T

### Modern Allen Key Head Tensioner-Stage Stud



Wire Size	Wire Type	Tensioner	Swage Stud	Die	Swaging Tool
3/32" (2.4mm)	1X19	SS-7500-05	SS-7801-225	HEX 3	GPP20T
1/8" (3.2mm)	1X19	SS-7500-06	SS-7801-03M	HEX 3	GPP20T
5/32" (4.0mm)	1X19	SS-7500-06	SS-7801-046	HEX 4	GPP40T
3/16" (4.8mm)	1X19	SS-7500-08	SS-7801-05M	HEX 5	GPP40T

## Common Balustrade styles

Grade 316 stainless steel wire rope fittings.

### Slimline Internal Threaded Swage Stud with Pan Head Screw



Wire Size	Wire Type	Screw	Swage Stud	Die	Swaging Tool
1/8" (3.2mm)	1X19	SS-98-05	SS-7811-503	HEX 3	GPP20T
5/32" (4.0mm)	1X19	SS-98-06	SS-7811-604	HEX 4	GPP40T

### Slimline Lag Screw Swage Stud



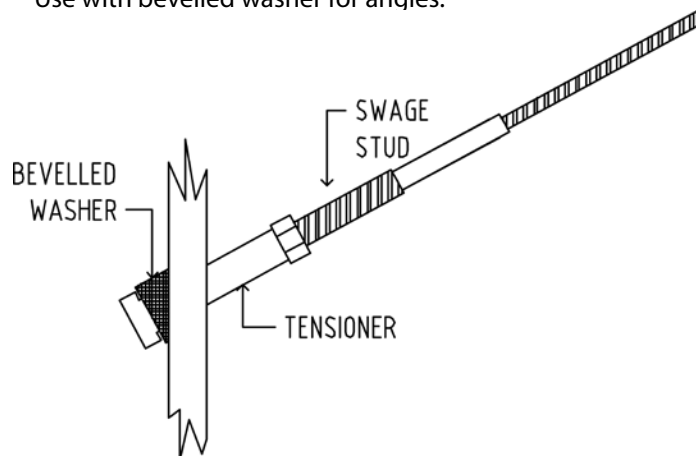
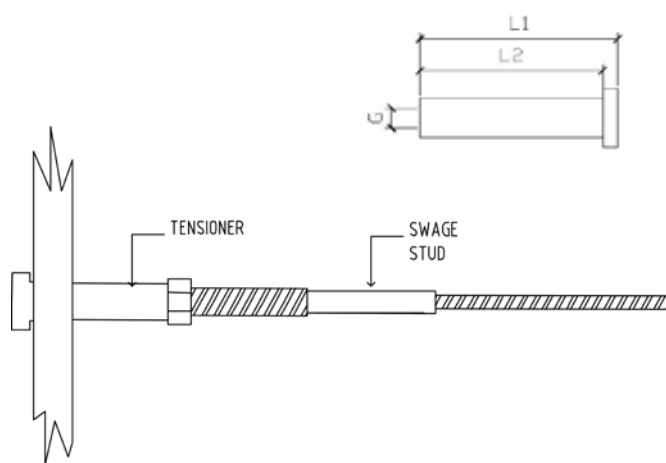
Wire Size	Wire Type	Lag Screw LHT	Lag Screw RHT	Die	Swaging Tool
1/8" (3.2mm)	1X19	SS-7831L-06	SS-7831R-06	HEX 3	GPP20T



TENSIONER ALLEN KEY HEAD

CODE	D1	D2	L1	L2	G
SS-7500-05	8	12	33	30	M5
SS-7500-06	8	12	40	35	M6
SS-7500-08	10	14	45	40	M8
SS-7500-10	13	17	50	45	M10

Use with bevelled washer for angles.

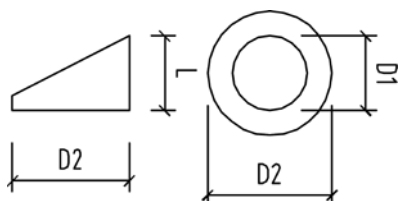


STAINLESS STEEL BEVELED WASHERS

CODE	D1	D2	L1	G
SS-7702-01	6	13	35 DEGREES	11
SS-7702-02	8.2	13	35 DEGREES	11
SS-7702-01R	6	13	35 DEGREES	11
SS-7702-02R	8.2	13	35 DEGREES	11

For use on stairways where a through post fitting such as a tensioner is being used.

SS-7702-02 can be used with Bridco Tensioner SS-7500.



NYLON WASHER TO SUIT TENSIONERS

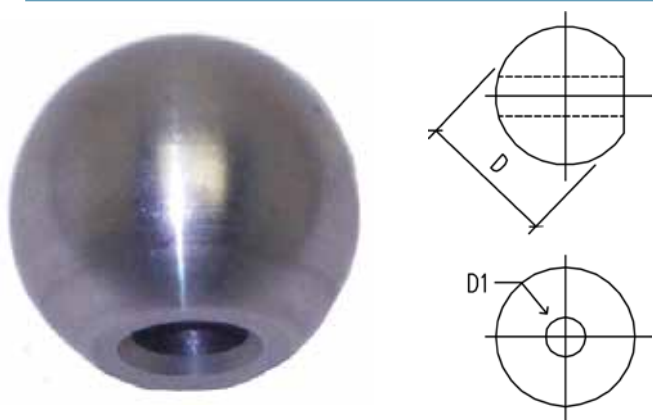
CODE	TO SUIT
NR-WASH-08NYL	SS-7500-05 SS-7500-06



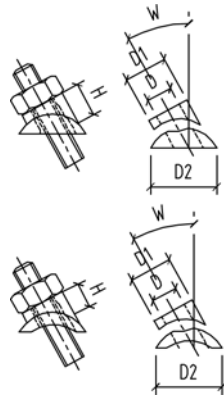
ARCHITECTURAL BALL

CODE	D	D1	D2
SS-7701-503	15	5.3	10
SS-7701-604	20	6.3	11

Architectural Balls or Bevelled Washers can be used with internal threaded terminals or tensioners for angles, e.g. stairs etc.

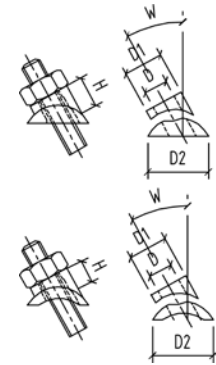






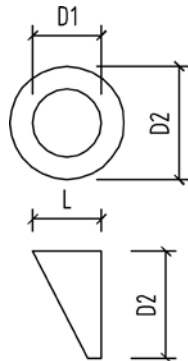
STAINLESS STEEL ADJUSTABLE ANGLES  
FOR SQUARE POSTS

CODE	NOMINAL SIZE	SUIT THREAD SIZE	D mm	D1 mm	D2 mm	FROM W	TO W	FROM H	TO H
SS-7703-06	6	5.3	6.4	13	20	25deg	45deg	9.5	10.5



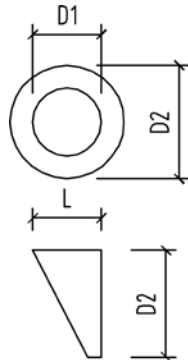
STAINLESS STEEL ADJUSTABLE ANGLES  
FOR ROUND POSTS

CODE	NOMINAL SIZE	SUIT THREAD SIZE	D mm	D1 mm	D2 mm	FROM W	TO W	FROM H	TO H
SS-7704-06	6	M4-M6	6.4	13	20	25deg	45deg	12	13



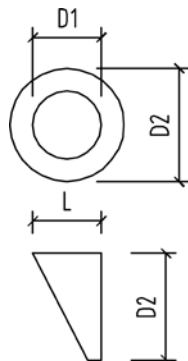
BEVELED ANGLED WASHER NYLON  
(To suit 2" tube)

CODE	L	D1 mm	D2 mm	COLOUR	ANGLE
NR-168187BW	12	6.7	15	WHITE	37 degree
NR-168187BG	12	6.7	15	GREY	37 degree
NR-168187BB	12	6.7	15	BLACK	37 degree



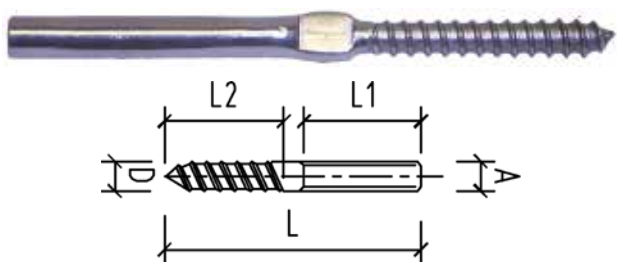
BEVELED ANGLED WASHERS MINI (Suit threaded studs)

CODE	L	D1 mm	D2 mm	COLOUR	ANGLE
NR-165148BG	12	6.5	14.8	GREY	37 degree



BEVELED ANGLED WASHERS MINI (Suit tensioners)

CODE	L	D1 mm	D2 mm	COLOUR	ANGLE
NR-185148BG	12	8.7	14.8	GREY	37 degree
NR-185148BB	12	8.7	14.8	BLACK	37 degree



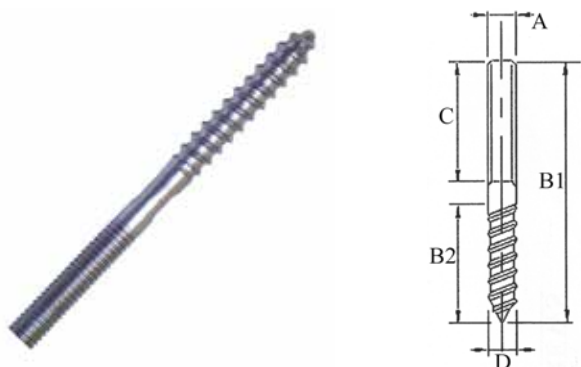
SWAGE STUD WITH LAG SCREW

CODE	A	D	L	L1	L2
SS-7831R-06	1/8"	6mm Right	90	40	40
SS-7831L-06	1/8"	6mm Left	90	40	40

R = Right hand thread

L = Left hand thread

Bridco swage lag screws use left hand thread one end and right hand the other, tension is gained while screwing in.

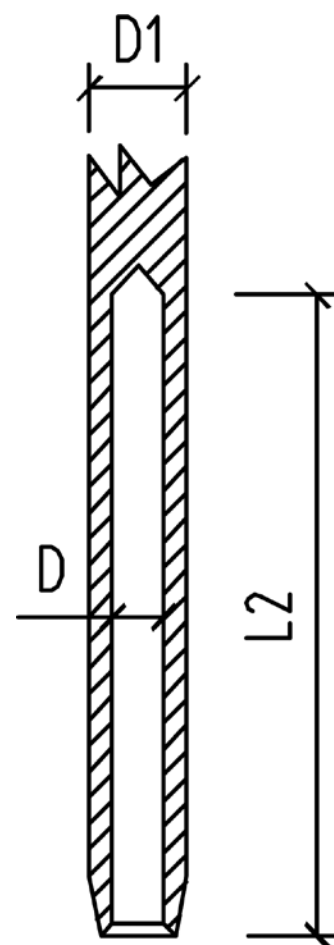


DOUBLE THREADED COACH (LAG) SCREW

CODE RHT	A	L1	L2	C	D
SS-78311-08	M8	100	47	40	8
SS-78311-10	M10	100	57	30	10

The following chart is a guide to terminal sizes after swaging.

WIRE SIZE		DIAMETER BEFORE SWAGING	DIAMETER AFTER ROLL SWAGING	KEY WIDTH AFTER HEX SWAGING
mm	/ inch	mm	mm	mm
1.6	1/16"	4.06 / 3.94	3.5 / 3.40	-
2.5	3/32"	5.53 / 5.41	4.82 / 4.7	4.9
3	1/8"	6.35 / 6.22	5.56 / 5.44	5.6
4	5/32"	7.54 / 7.42	6.35 / 6.23	6.6
5	3/16"	9.12 / 9.00	7.95 / 7.83	8.0
5.5	7/32"	10.84 / 10.72	9.50 / 9.35	-
6	1/4"	2.54 / 12.42	11.12 / 10.95	10.9
7	9/32"	14.30 / 14.18	12.70 / 12.50	12.1
8	5/16"	16.13 / 16.01	14.30 / 14.07	13.6
9-10	3/8"	17.85 / 17.73	15.90 / 15.70	14.8
11	7/16"	19.83 / 19.63	17.47 / 17.27	-
12	1/2"	21.44 / 21.32	19.05 / 18.82	16.8
12E	-	20.08 / 20.00	17.80 / 17.60	-
14	9/16"	25.00 / 24.88	22.23 / 22.00	21.0
16	5/8"	28.17 / 28.05	25.40 / 25.15	23.4
19	3/4"	34.52 / 34.40	31.75 / 31.44	-
22	7/8"	40.46 / 40.21	36.50 / 36.20	-
25	1"	46.02 / 45.77	41.28 / 40.97	-
28	1 1/8"	50	44 / 44.5	-
32	1 1/4"	58	51.0 / 51.5	-
36	1 3/8"	65	57.0 / 57.8	-
38-40	1 1/2"	72	63.2 / 64.0	-
42-44	1 3/4"	75	66.0 / 67.0	-



WIRE ROPE FITTINGS

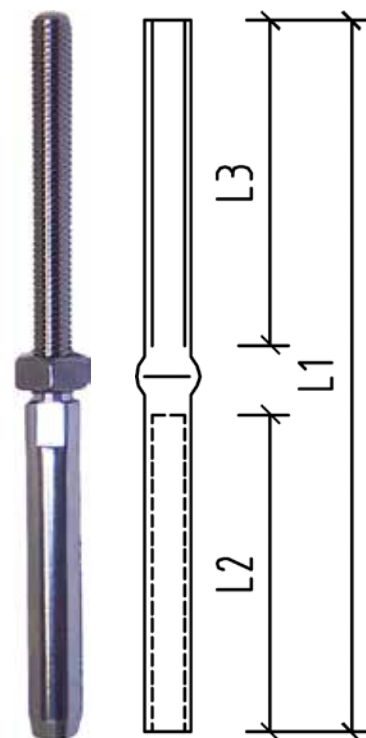
The following chart is a guide to terminal sizing.

Wire Size	D	D1
	0.2	-0.05
3/32"	2.8	5.5
3mm	3.3	6.35
1/8"	3.5	6.35
4mm	4.4	7.5
3/16"	5.1	9
5mm	5.3	9
7/32"	5.8	10.8
6mm	6.5	12.5
1/4"	6.8	12.5
8mm	8.4	16
3/8"	10	17.8
10mm	10.5	17.8
12mm	12.5	21.4
1/2"	13.5	21.4
14mm	14.8	25
16mm	16.5	28

All care is taken to ensure measurements are correct at time of printing. However changes may occur so it is advised to confirm sizes if dimensions are critical.

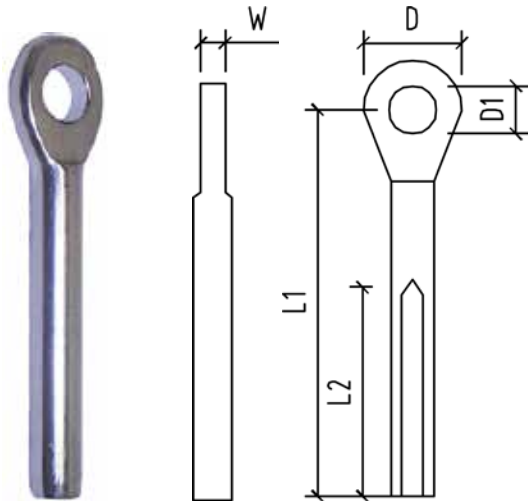
## SWAGE STUD (THREADED TERMINAL)

CODE	WIRE DIAMETER METRIC	WIRE DIAMETER IMPERIAL	THREAD	L1	L2	L3 THREAD
SS-7801-225	2.4	3/32"	M5	81	30	40
SS-7801-225L	2.4	3/32"	M5 Left	81	30	40
SS-7801-02M	2.4	3/32"	M6	86	32	40
SS-7801-03L		1/8"	M6 Left	91	40	40
SS-7801-03M		1/8"	M6	91	40	40
SS-7801M-03M	3		M6	97	40	40
SS-7801M-03ML	3		M6 Long	118	40	75
SS-7801-03ML		1/8"	M6 Long	118	40	75
SS-7801-03MY		1/8"	M6	100	52	42
SS-7801-305		1/8"	M5	91	40	40
SS-7801-020		1/8"	M5	59	33	22.5
SS-7801M-020	3		M5	58.7	34	22.5
SS-7801M-305M	3		M5	91	40	40
SS-7801-305L		1/8"	M5 Left	90	40	40
SS-7801-04L	4		M8 Left	118	43	57
SS-7801-04M	4		M8	120	47	60
SS-7801-04ML	4		M8 Long	143	47	90
SS-7801-046	4		M6	116	46	50
SS-7801-046L	4		M6 Left	116	46	50
SS-7801-05L		3/16"	M8Left	121	58	57
SS-7801-05M		3/16"	M8	121	53	60
SS-7801-510		3/16"	M10	129	56	60
SS-7801-05ML		3/16"	M10 Long	177	58	115
SS-7801M-05	5		M8	121	58	60
SS-7801M-610	6		M10	164	67	85
SS-7801M-06M	6		M12	162	67	78
SS-7801-610		1/4"	M10	164	67	85
SS-7801-06M		1/4"	M12	162	67	78
SS-7801-06ML		1/4"	M12 Long	222	67	143
SS-7801-128	8		M12	180	85	83
SS-7801-08M	8		M16	215	80	112
SS-7801-1638		3/8"	M16	215	90	105
SS-7801-2038		3/8"	M20	215	90	105
SS-7801M-1610	10		M16			
SS-7801M-2010	10		M20	215	91	106
SS-7801M-2012	12		M20	245	120	118
SS-7801-2012		1/2"	M20	245	120	118
SS-7801M-2414	14		M24	335	165	125
SS-7801M-2416	16		M24	355	160	170



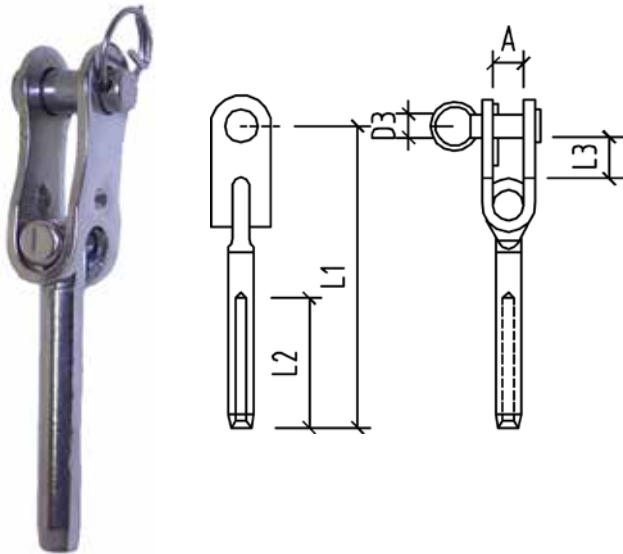
Wire Size	D	D1
	0.2	-0.05
3/32"	2.8	5.5
3mm	3.3	6.35
1/8"	3.5	6.35
4mm	4.4	7.5
3/16"	5.1	9
5mm	5.3	9
7/32"	5.8	10.8
6mm	6.5	12.5
1/4"	6.8	12.5
8mm	8.4	16
3/8"	10	17.8
10mm	10.5	17.8
12mm	12.5	21.4
1/2"	13.5	21.4
14mm	14.8	25
16mm	16.5	28





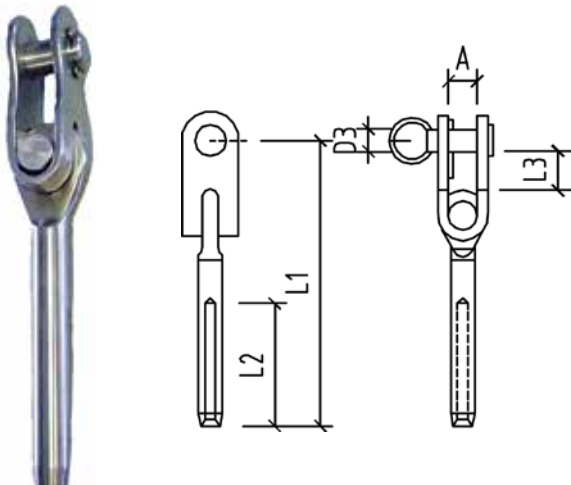
EYE TERMINAL

CODE	WIRE MET	DIA IMP	L1	L2	D1	D	W
SS-7802-025	2.5	3/32"	49	32	5.5	12.5	2.5
SS-7802M-03	3		54.5	40	6-5	14	4
SS-7802-03		1/8"	54.5	40	6.5	14	4
SS-7802-04	4		68	48	8.5	17	4.5
SS-7802-05		3/16"	74.25	54	10.5	22	5.7
SS-7802M-05	5		74.25	54	10.5	22	5.7
SS-7802-06	6		94	64	12.2	25	8
SS-7802-06		1/4"	94	64	13.2	25	8
SS-7802-08	8		118	85	14.7	32	10
SS-7802-10		3/8"	140	93	16.3	36	10.5
SS-7802M-10	10		140	93	16.3	36	10.5
SS-7802M-12	12		182	107	19.3	41	15
SS-7802-12		1/2"	182	110	19.3	41	15



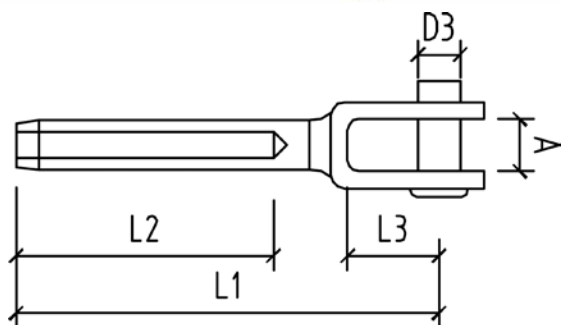
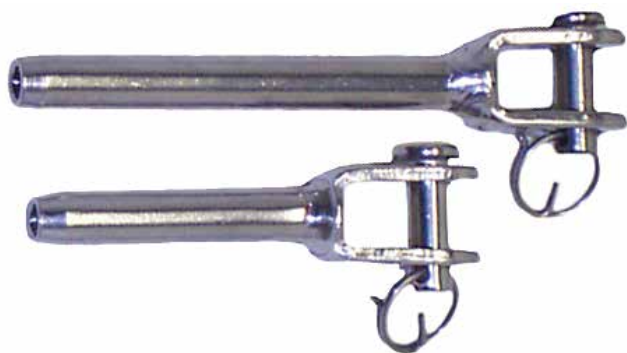
TOGGLE TERMINAL - T STYLE

CODE	WIRE MET	DIA IMP	A	D3	L1	L2	L3
SS-7805-05		3/16"	12.5	9	92	51	15
SS-7805-064		1/4"	14.3	12	85	51	14
SS-7805-10		3/8"	20.5	19	163	90	26.5

**NEW:** TOGGLE TERMINAL - EYE STYLE

CODE	WIRE MET	DIA IMP	A	L1	L2	L3	D3
SS-7805-08E	8		13	164	80	20.5	14
SS-7805-10E		3/8"	18	204	91	37.5	16
SS-7805M-10E	10		22	231	91	37.5	16
SS-7805M-12E	12		22.5	231	110	50	19
SS-7805-16E	16	5/8"	28.5	325	165	65	25



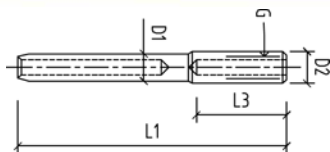


\* Available in economy range of fittings.  
Please consult our sales department for pricing.

# Indicates mini forks, both mini forks are pressed with HEX3 dies.

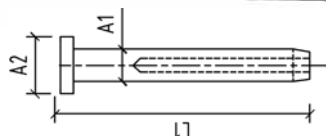
## FORK TERMINAL

CODE	WIRE MET	DIA IMP	D3	L1	L2	L3	A
#SS-7803X-025	2.5	3/32"	5	45	28	11.5	7
#SS-7803-225	2.5	3/32"	5	67	40	11.5	7
#SS-7803-905		1/8"	5	45	28	11.5	7
*SS-7803-305		1/8"	5	67	40	11.5	7
*SS-7803M-305	3		5	67	40	12	7
SS-7803-03		1/8"	6	65	32	13	8
SS-7803M-03	3		6	65	32	13	8
SS-7803-406	4		6	73	45	15	8
SS-7803-04	4		8	77	46	15	11
SS-7803-05		3/16"	9	87	51	15	11
SS-7803M-05	5		9	87	51	18	11
SS-7803M-06	6		12	106	63	27	15
SS-7803-06		1/4"	12	106	63	27	15
SS-7803-08	8		14	145	82.5	29	15
SS-7803-0812	8		12	148	80.7	27.7	15
SS-7803-10		3/8"	16	150	91	37	20
SS-7803M-10	10		16	150	91	37	20
SS-7803M-12	12		19	175	106.5	37	20
SS-7803-12		1/2"	19	175	106.5	37	20
SS-7803M-14	14		25	285	165	52	30
SS-7803M-16	16		25	285	165	52	30



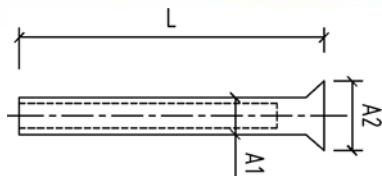
## INTERNAL THREAD TERMINALS

CODE	WIRE DIA	L1	D1	D2	L3	G
SS-7811-503	1/8"	88	6.35	8	35	M5
SS-7811-604	5/32"	95	7.5	8	35	M6



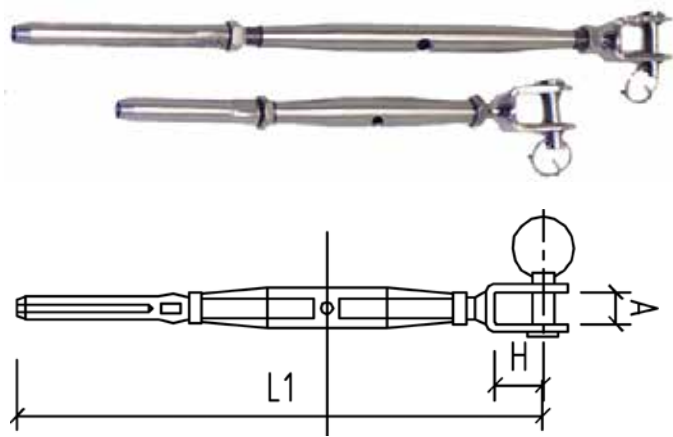
## FLAT HEAD TERMINALS

CODE	WIRE SIZE	L1	A2	A1
SS-7840-03Z	1/8"	48.5	10	6.35
SS-7840-04	5/32"	59	12	7.5



## CONE HEAD TERMINALS - 304 GRADE

CODE	WIRE SIZE	L	A2	A1
SS-7841-03	1/8"	48.5	10	6.35



# Indicates mini fittings, both mini bottlescrews are pressed with HEX3 dies.

\* Available in economy range of fittings.  
Please consult our sales department for pricing.

BOTTLESCREW JAW AND SWAGE STUD

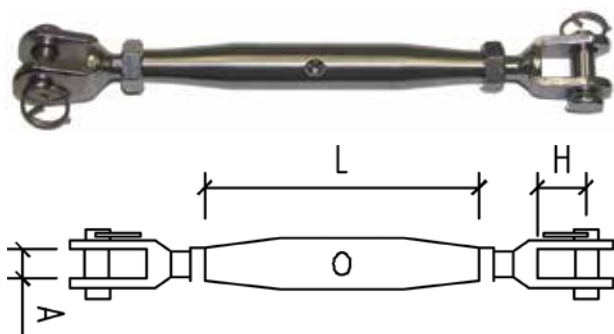
CODE	THREAD SIZE	TO SUIT WIRE SIZE	L1 MIN	L1 MAX	H	A	PIN DIA	B.L (kg)
#SS-312TX-025	M5	3/32"	109	149	11.5	6	5	600
#SS-312T-020	M5	1/8"	109	149	11.5	6	5	600
*SS-312T-503	M5	1/8"	153	193	11.5	7	5	600
*SS-312T-503M	M5	3mm	153	193	11.5	7	5	600
SS-312T-604	M6	5/32"	177	225	12.5	8	6	1000
SS-312T-635	M6	1/8"	167	207	12.5	8	6	1000
SS-312T-603M	M6	3mm	167	207	12.5	8	6	1000
SS-312T-845	M8	4mm	200	260	15.5	11	8	1400
SS-312T-805	M8	3/16"	205	265	15.5	11	8	1400
SS-312T-805M	M8	5mm	205	265	15.5	11	8	1400
SS-312T-948	M10	3/16"	235	295	17.5	13	9	2200
SS-312T-906M	M10	6mm	235	295	17.5	13	9	2200
SS-312T-906	M10	1/4"	250	340	17.5	12.5	9	2200
SS-312T-126M	M12	6mm	290	380	28	14	12	4000
SS-312T-126	M12	1/4"	290	380	28	14	12	4000
SS-312T-128	M12	8mm	310	390	28	13	12	4000
SS-312T-168	M16	8mm	360	495	25	17	16	6500
SS-312T-1638	M16	3/8"	360	495	25	17	16	6500
SS-312T-1610	M16	10mm	360	495	25	17	16	6500
SS-312T-2038	M20	3/8"	425	560	28	20	20	850
SS-312T-2010	M20	10mm	425	560	28	20	20	8500
SS-312T-2012M	M20	12mm	435	600	28	20	20	8500
SS-312T-2012M	M20	1/2"	435	560	28	20	20	8500
SS-312T-2414	M24	14mm	531	760	55	30	25	15000
SS-312T-2416	M24	16mm	551	780	55	30	25	15000



Bridco have a large range of stainless steel rope fittings and connectors for an unlimited range of applications.



B.L = NOMINAL BREAKING LOAD



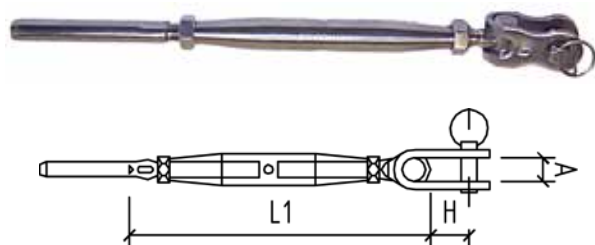
Proof Loading of this product available on request.

\* Premium range of bottlescrews show NOMINAL BREAKING LOAD. Lubricant needed to reduce possibility of thread binding.

#### BOTTLESCREW JAW & JAW WITH LOCK NUTS

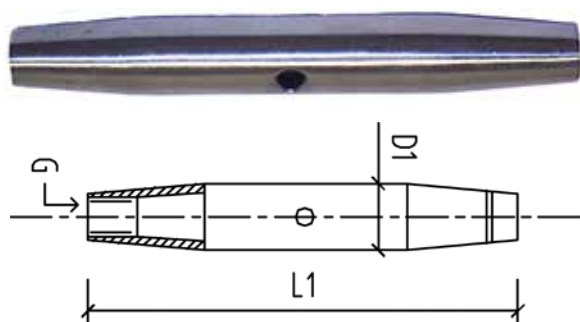
CODE	DIA	LENGTH MIN	LENGTH MAX	L	H	A	B.L (kg)
*SS-312J-05	M5	125	185	80	11.5	7.5	750
SS-312J-06	M6	140	215	90	12.5	8.3	1400
SS-312J-08	M8	165	250	105	15.5	11.8	2200
SS-312J-10	M10	200	300	120	17.5	12.5	3450
SS-312J-12	M12	245	380	151	28	15	5000
SS-312J-14	M14	280	395	165	21	16	6400
SS-312J-16	M16	304	440	190	25	17	8000
SS-312J-20	M20	390	550	210	28	20	10500
SS-312J-24	M24	430	570	252	55	30	14500

\* Available in economy range.



#### BOTTLE SCREW TOGGLE AND SWAGE STUD

CODE	THREAD SIZE	TO SUIT WIRE SIZE	L1 MIN	L1 MAX	H	A	PIN DIA
SS-3121T-63	M6	1/8"	142	215	12	8	6
SS-3121T-64	M6	4mm	142	215	12	8	6
SS-3121T-84	M8	4mm	180	260	17	11.5	8
SS-3121T-85	M8	3/16"	180	260	17	11.5	8
SS-3121T-105	M10	3/16"	215	310	20	10	9
SS-3121T-106	M10	1/4"	215	310	20	14	9
SS-3121T-126	M12	1/4"	250	370	25	14	12
SS-3121T-128	M12	8mm	250	370	25	14	12
SS-3121T-168	M16	8mm	295	410	25	18	16
SS-3121T-1638	M16	3/8"	295	410	25	18	16
SS-3121T-1610	M16	10mm	295	410	25	18	16
SS-3121T-2010	M20	10mm	325	475	30	20	19
SS-3121T-2012	M20	1/2"	325	475	30	20	19
SS-3121T-2012M	M20	12mm	325	475	30	20	19
SS-3121T-2038	M20	3/8"	325	475	30	20	19

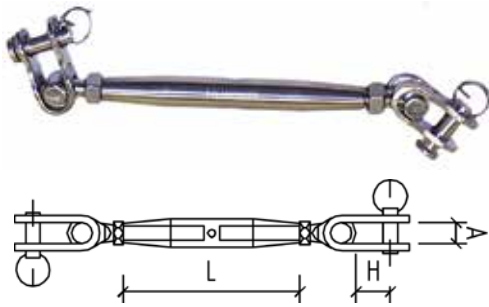


#### BOTTLE SCREW BODY

CODE	L1	D1	G
SS-312B-05	80	8.2	M5
SS-312B-06	88	12	M6
SS-312B-08	105	13.5	M8
SS-312B-10	125	17.3	M10
SS-312B-12	150	20.2	M12
SS-312B-16	190	27.15	M20
SS-312B-20	210	33.5	M20
SS-312B-24	250	45	M24

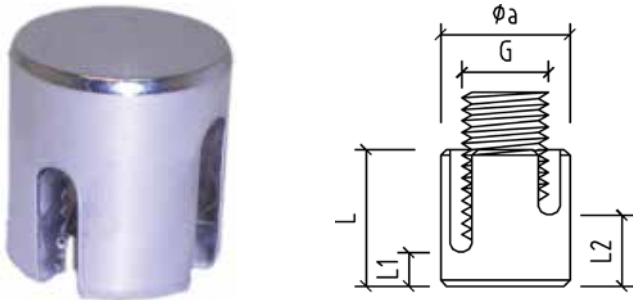
B.L = NOMINAL BREAKING LOAD





BOTTLESCREW TOGGLE &amp; TOGGLE

CODE	DIA	LENGTH MIN	LENGTH MAX	A	H	L	B.L (kg)
SS-3125-06	M6	150	200	7.8	12	90	900
SS-3125-08	M8	185	260	11	17	104	1650
SS-3125-10	M10	260	315	14	20	124	2500
SS-3125-12	M12	260	375	14	25	150	3700
SS-3125-16	M16	325	450	17	25	190	6950
SS-3125-20	M20	380	515	20	30	212	9600



STAINLESS STEEL NET CLIP

CODE	WIRE DIA	G	L	L1	L2	L3	a
SS-266	1/8"	M10	19	5	8	3.5	20

This item is for 90 degrees applications only.



ADJUSTABLE STOP

CODE	NOMINAL SIZE	ROPE Ø mm	M mm	d1 mm	d2 mm	L mm
SS-2111-034	4	3 & 4	4.3	12	m8	12



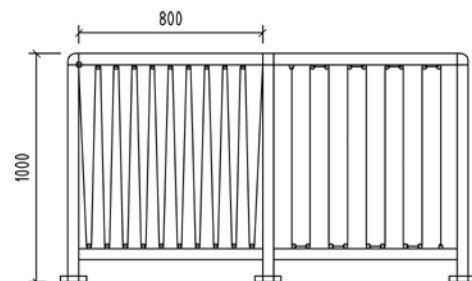
PULLEYS FOR CONTINUOUS CABLES

CODE	Suitable for
SS-8240-00	Flat surfaces
SS-8240-50	Round surfaces 50mm Diameter

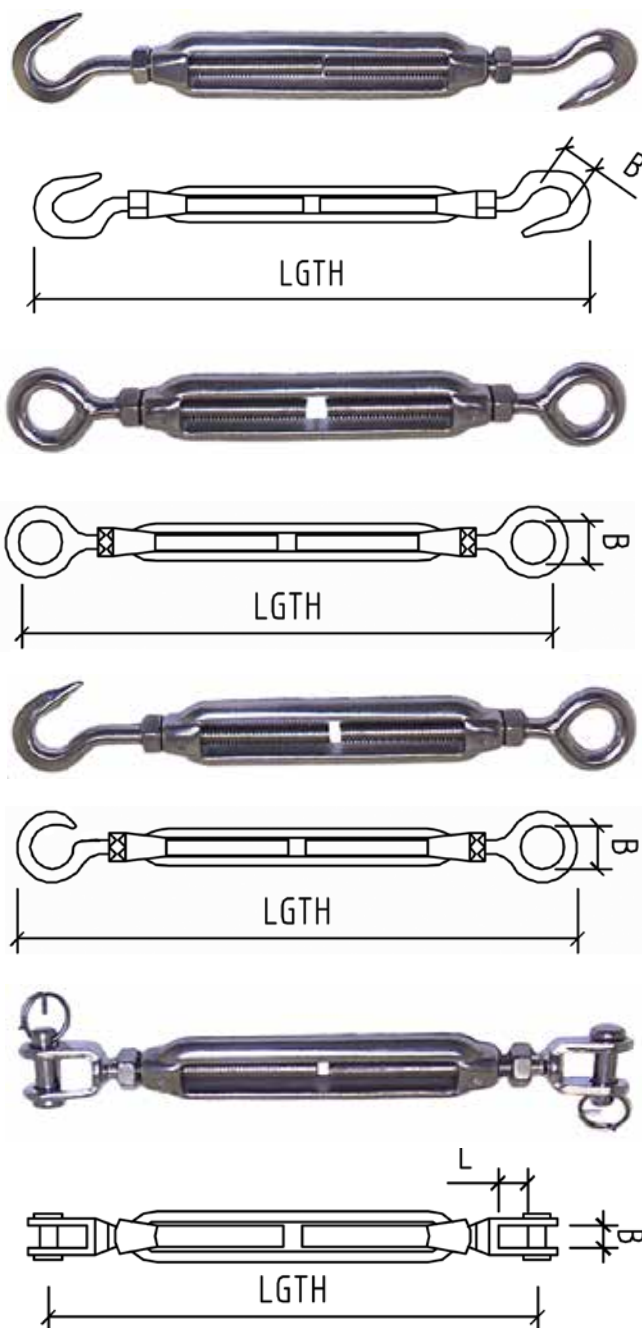
This item is recommended for interior applications only.



Use Bridco mini fittings for 2.5mm wire for end terminations.



Post Distance	800mm max.
Height	1000mm max.
Pulley Centre	80mm max.
Tension Required	32.3(kg) min.
Wire Size	2.5mm
Construction	7 x7 or 7 x 19



A lubricant is recommended when using all stainless steel turnbuckles to help prevent binding.

STAINLESS STEEL TURNBUCKLES WITH LOCK NUTS

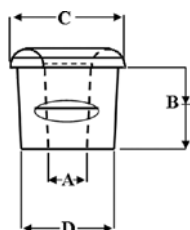
CODE	DIA MM	STYLE	LENGTH MIN	LENGTH MAX	B	L	B.L (kg)
SS-311E-04	4	E & E	98	135	8		475
SS-311H-04	4	H & H	98	135	7		100
SS-311HE-04	4	H & E	98	135	8		100
SS-311E-05	5	E & E	120	170	8		680
SS-311H-05	5	H & H	120	170	7		130
SS-311HE-05	5	H & E	120	170	7		130
SS-311J-05	5	J & J	120	170	6	10	680
*SS-311E-06	6	E & E	150	220	10		1500
SS-311H-06	6	H & H	120	220	9		350
SS-311HE-06	6	H & E	155	220	9		350
SS-311J-06	6	J & J	150	220	7	9	1500
SS-311E-08	8	E & E	200	280	12		2300
SS-311H-08	8	H & H	225	280	10		650
SS-311HE-08	8	H & E	225	280	9		650
SS-311J-08	8	J & J	195	265	10	10	2300
SS-311E-10	10	E & E	245	350	15		3100
*SS-311H-10	10	H & H	255	350	13		800
SS-311HE-10	10	H & E	255	350	13		800
SS-311J-10	10	J & J	235	350	10	10	3100
SS-311E-12	12	E & E	315	460	20		4400
SS-311H-12	12	H & H	320	460	15		1400
SS-311HE-12	12	H & E	320	460	14		1400
*SS-311J-12	12	J & J	320	455	13	20	4400
*SS-311J-14	14	J & J	315	445	16	21	6400
SS-311E-16	16	E & E	400	610	25		8100
*SS-311J-16	16	J & J	340	470	18	18	8100
SS-311E-19	19	E & E	500	710	30		11000

Legend: E = Eye  
H = Hook  
J = Jaw

\* Available in economy range of fittings.

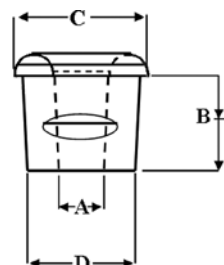
Please consult our sales department for pricing

B.L = NOMINAL BREAKING LOAD



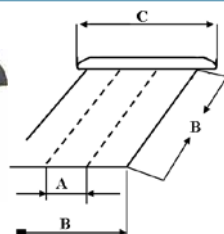
NYLON GROMMET - FLAT

CODE	A mm	B mm	C mm	D mm	COLOUR	DRILL SIZE
NR-106874FB	6.2	10	12	9	BLACK	9mm
NR-106874FS	6.2	10	12	9	SILVER	9mm
NR-106874FC	6.2	10	12	9	CLEAR	9mm



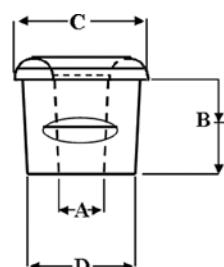
NYLON GROMMET - TO SUIT CURVED SURFACES

CODE	A mm	B mm	C mm	D mm	COLOUR	DRILL SIZE
NR-107090CW	7	7.8	13.4	9	WHITE	9mm
NR-107090CG	7	7.8	13.4	9	GREY	9mm
NR-107090CB	7	7.8	13.4	9	BLACK	9mm



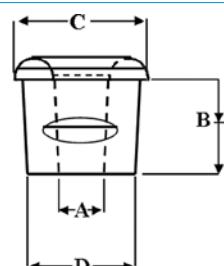
NYLON GROMMET - 37 DEGREE (SPLIT) FOR FLAT SURFACES

CODE	A mm	B mm	C mm	D mm	COLOUR	DRILL SIZE
NR-104090AW	4.2	8	15	9	WHITE	9mm
NR-104090AG	4.2	8	15	9	GREY	9mm
NR-104090AB	4.2	8	15	9	BLACK	9mm



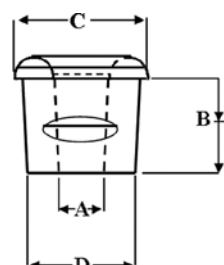
NYLON GROMMET - SPLIT FOR FLAT SURFACES

CODE	A mm	B mm	C mm	D mm	COLOUR	DRILL SIZE
NR-104290FB	4.2	8	13	9	BLACK	9mm
NR-104290FG	4.2	8	13	9	GREY	9mm



NYLON GROMMET - TO SUIT CURVED SURFACES

CODE	A mm	B mm	C mm	D mm	COLOUR	DRILL SIZE
NR-104080CW	4.5	6	12	8	WHITE	8mm
NR-104080CG	4.5	6	12	8	GREY	8mm
NR-104080CB	4.5	6	12	8	BLACK	8mm



NYLON GROMMET - TO SUIT FLAT SURFACES

CODE	A mm	B mm	C mm	D mm	COLOUR	DRILL SIZE
NR-108127FW	8.6	8.2	15.8	12.8	WHITE	1/2"
NR-108127FG	8.6	8.2	15.8	12.8	GREY	1/2"
NR-108127FB	8.6	8.2	15.8	12.8	BLACK	1/2"

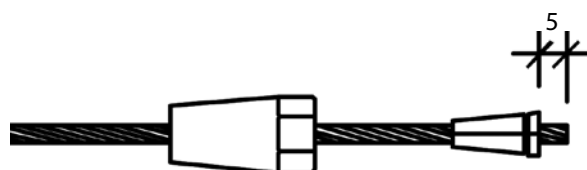
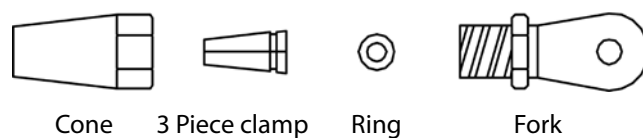
**GROMMETS**

Used when passing wire rope through steel, aluminium or even timber posts. These UV stabilised, high density polythene grommets give a neat appearance as well as protection from chafe and electrolysis.

### BRIDCO SWAGELESS

Bridco Swageless terminals are suitable for balustrading and static loads.

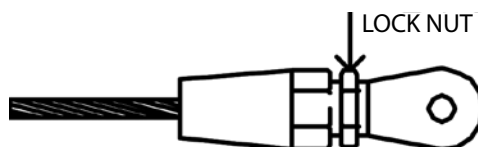
For use with wire rope of 7x7, 7x19 or 1x19 construction.



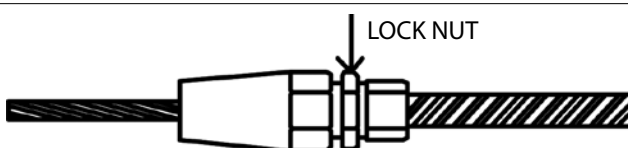
1. Feed wire through cone and spread 3 piece clamp around wire, leaving 5mm of excess.



2. Push 3 piece clamp into cone and slide the ring over the excess wire. Screw the head on firmly with spanners to hold assembly together.

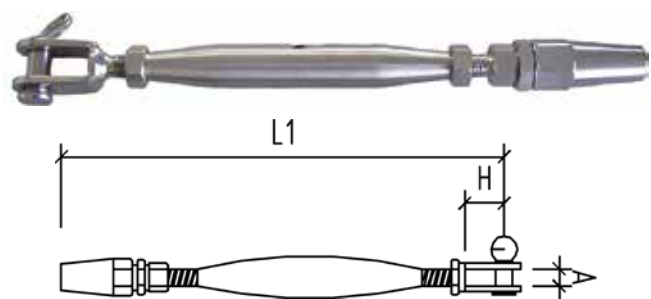


3. Screw lock nut to secure assembly.



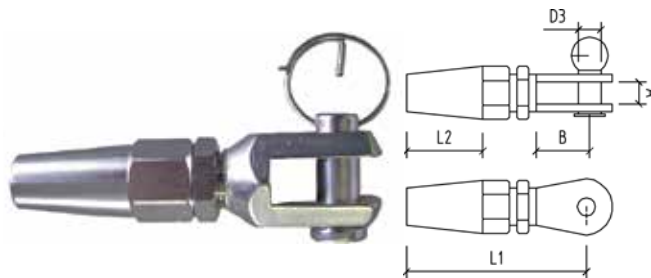
4. Repeat process for threaded part in Bottlescrew.





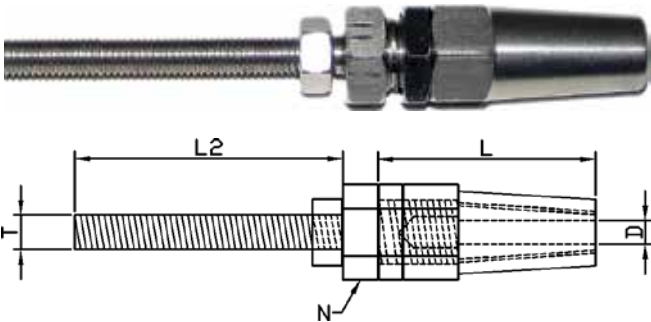
BRIDCO BOTTLESCREW JAW-SWAGELESS

CODE	THREAD SIZE	L1 MIN	L1 MAX	TO SUIT WIRE SIZE	H	A	PIN DIA
SS-8014-603	M6	163	245	1/8"	13	8	6
SS-8014-106	M10	230	335	1/4"	17	12	9



BRIDCO SWAGELESS FORK TERMINAL

CODE	WIRE DIA	D3	L1	L2	B	A
SS-8012-06	1/4"	9	83	32	21	13
SS-8012-08	8mm	14	105	40	35	13.7



BRIDCO SWAGELESS TERMINAL

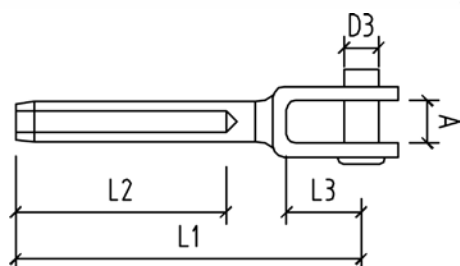
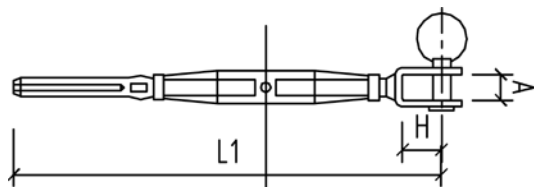
CODE	WIRE DIA	D	T	L	L2	N
SS-7812-03	1/8"	3	6	58	50	12
SS-7812-06	1/4"	6	10	97	85	19
SS-7812-08	8mm	8	12	60	80	24
SS-7812-08L	8mm	8	12	60	80	24

L = LEFT HAND THREAD



## BRIDCO HAVE A RANGE OF SPECIALISED FITTINGS, COMMONLY USED IN HEIGHT SAFETY INDUSTRIES

Rigging screws and fork terminals to suit 8mm (5/16") wire rope.



### Standard

Standard *Bridco M12* rigging screws with swage terminal and fork terminal to suit 8mm wire rope, (requires standard 8mm die). These items are batch tested and Test Certificates are available on request.

### Battery Swage style

*Bridco M12* rigging screw with swage terminal to suit 8mm wire rope, but can be pressed with special battery swagers. (Can use hex 6 or 6mm roll die). Due to the nature of battery terminal swages, Test Certificates are not available for this method.

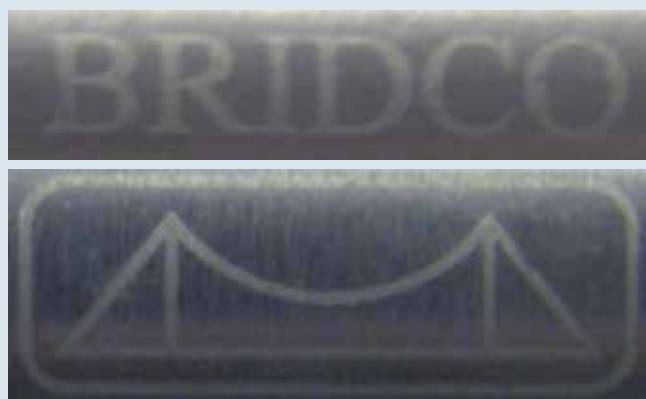
*When pressed correctly the above fittings have exceeded the breaking strain of 8mm, 7x7 stainless steel wire rope.*

### BOTTLESCREW JAW AND SWAGE STUD

CODE	A	H	L1	L2	B
STANDARD ROLL SWAGE					
SS-312T-128	15	28	220	300	16.2
BATTERY SWAGE STYLE					
SS-312T-128SL	15	28	241	321	12.5

### FORK TERMINAL

CODE	A	D3	L1	L2	L3
STANDARD ROLL SWAGE					
SS-7803-0812	14.5	12	146	81	28
BATTERY SWAGE STYLE					
SS-7803-8SL	14.5	12	150	81	28



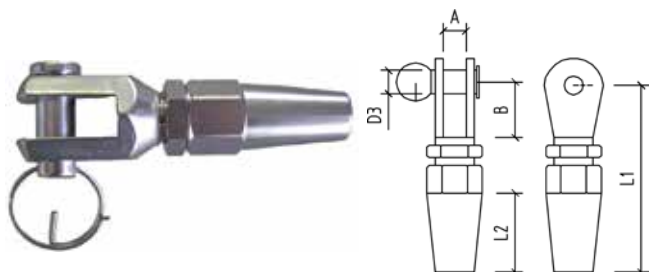
Bridco Stainless Steel Fittings may be lasered with a bridge image BRIDCO as shown in the images above. This ensures Bridco quality.

## RIGGING SCREWS AND FORK TERMINALS TO SUIT 8MM (5/16") WIRE ROPE



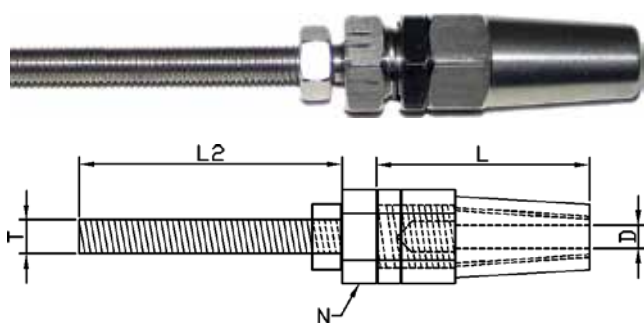
BRIDCO BOTTLESCREW JAW-SWAGELESS

CODE	A	H	LENGTH MIN	LENGTH MAX
SS-8014-128	15	28	270	35



BRIDCO BOTTLESCREW FORK TERMINAL

CODE	D3	L1	L2	B	A
SS-8012-08	14	105	40	35	13.7



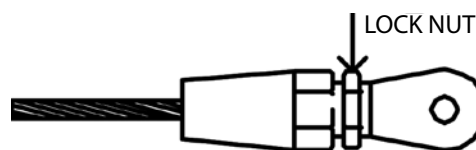
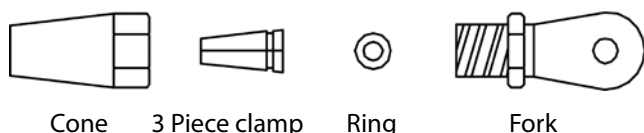
BRIDCO SWAGELESS TERMINAL

CODE	WIRE	D	T	L	L2	N
SS-7812-08	8mm	8	12	60	80	24
SS-7812-08L	8mm	8	12	60	80	24

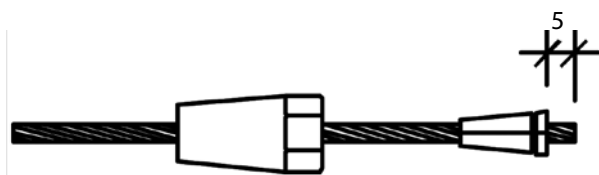
L = LEFT HAND THREAD

### BRIDCO SWAGELESS

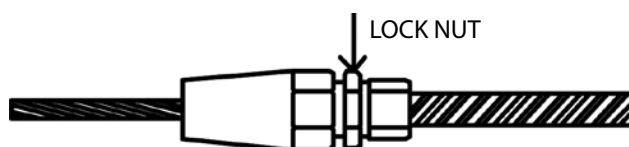
For use with 8mm 7x7, 7x19 or 1x19 construction.



3. Screw lock nut to secure assembly.



1. Feed wire through cone and spread 3 piece clamp around wire, leaving 5mm of excess.



4. Repeat process for threaded part in Bottlescrew.



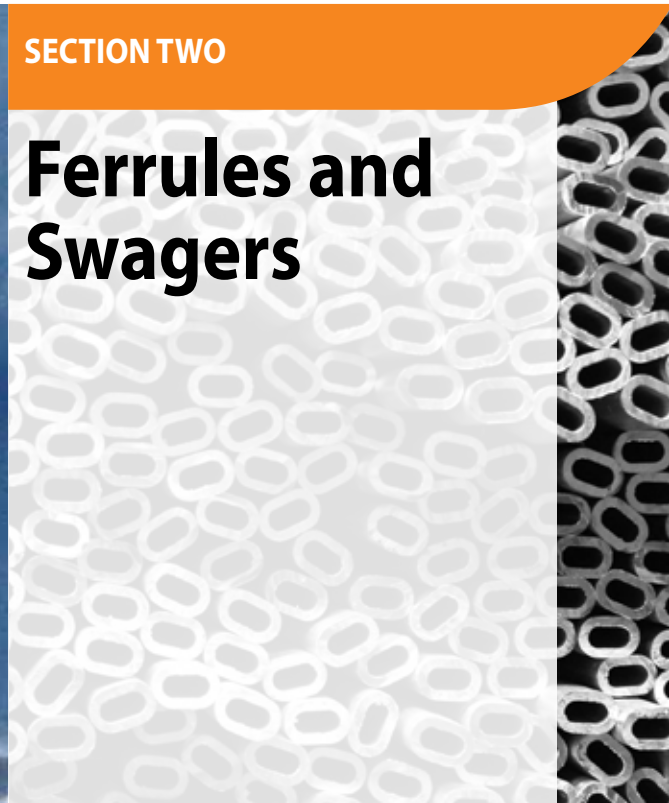
2. Push 3 piece clamp into cone and slide the ring over the excess wire. Screw the head on firmly with spanners to hold assembly together.





SECTION TWO

# Ferrules and Swagers



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	TALURIT AB information	50 – 52	
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**The original  
mechanical  
splicing systems**

Bridco is the Australian and New Zealand distributor for Talurit AB, a prestigious and renowned Swedish company specialising in mechanical splicing systems since 1948.





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## FERRULE SECURING INSTRUCTION - TALURIT™ Rev. 2009-04-16

Please note these instructions are only applicable to products produced and supplied by Talurit AB, Sweden and Gerro GmbH, Germany!

### Checking of the wire rope:

Begin by checking the diameter of the wire rope.  
The measured diameter is applicable.

Check rope type, rope grade, type of rope lay and fill factor (f) or metallic cross-sectional area factor (C). Make sure the wire rope corresponds to requirements in the tables for each ferrule type.

Fill factor (f): The ratio between the sum of the nominal metallic cross-sectional areas of all the wires in the rope (A) and the circumscribed area (A<sub>u</sub>) of the rope based on its nominal diameter (D).

$$f = \frac{A}{A_u} \quad C = f \cdot \frac{\pi}{4}$$

Ensure that the cut ends of pre-formed wire rope do not unlay. If a served rope end is to be pressed within the ferrule the serving shall consist only of a strand or wire. The serving material shall be of aluminium or annealed steel and shall have a tensile strength no greater than 400 N/mm<sup>2</sup>. The diameter of the serving shall be no greater than 5% of the nominal rope diameter. Any serving within the ferrule before pressing shall be no longer than 0,5 x nominal rope diameter and the overall length of serving shall extend no further than 1 x rope diameter from the rope end.

Annealed ends must not be pressed inside the ferrule and annealed ends should not be longer than 0,5 x the wire rope diameter. Please also see our separate instructions for annealing machines type AV. Please note that our ferrules should only be used on new wire ropes.

### Types of ferrules and their use:

T-ferrules (T), T-Konit™ (TK), T-Konit™ with inspection hole (TKH), Ultragrip™ Metal (UM), Konit™ (K), Steel (ST), Slimsteel™ (SLST), Steel (STD) and Round (R) are intended for use on steel wire ropes made from carbon steel. The Copper ferrule (TCU), Round copper ferrule (RCU), stainless steel ferrule (INOX) and stainless steel terminals are intended for use with stainless steel wire ropes.

Note! Only ferrules type T, TKH and UM correspond to the European standard EN 13411-3.

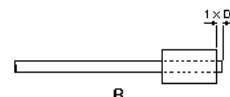
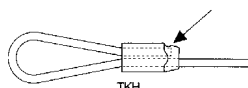
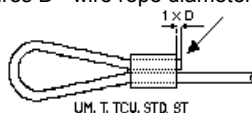
### Select correct ferrule size:

The correct size of ferrule is selected from the applicable table for each type of ferrules. Note applicable rope types in each table. All our aluminium ferrules comply with this quality specification and to other material specifications stated in the ruling standards. All our ferrules are seamlessly extruded over mandrel.

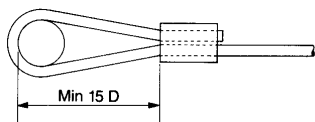
Ferrule selection is based on the following criteria: the rope grade, the diameter of the wire rope, the fill factor or metallic cross-sectional area factor, the wire rope core i.e. fibre core (FC) or steel core (IWRC= independent wire rope core).

### Assembly of the wire rope in the ferrule:

Enter the wire rope into the ferrule. When the loop is formed the end of the wire rope is returned into the ferrule according to type as indicated in the figures D= wire rope diameter.



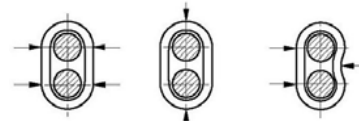
Before pressing conical ferrules with inspection hole, make sure that the short end of the wire rope is entered all the way to the back edge of the inspection hole!



If a thimble is not used, the distance from the unpressed ferrule to the bearing point of the soft eye must be at least 15 x the wire rope diameter (D), as per the figure. In some cases the sling eye should be even larger. Using a pin or a hook calculate 3 x pin diameter or the hook width to verify 15 x D or more.

The width of the eye without load shall be approximately half its length.

If the end of the wire rope is fixed in the ferrule before pressing then this should be done with care and preferably with controlled pressure, e.g. with our pre-pressing machines. Avoid faulty or unnecessary deformation of the ferrule. Do not clench or hammer in the middle of the long side of the ferrule. See figure.



CORRECT

WRONG

### Press dies:

Check that the ferrule type and code number corresponds with the details stamped on the die. However our dies are not stamped with R and TCU-types; for these ferrule types use the type markings for T ferrules. Before pressing the dies should be carefully cleaned and the bore of the dies should be lightly lubricated. This will aid material flow and lengthen die life.

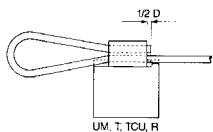


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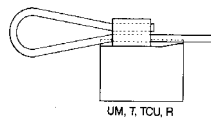
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### Positioning of the ferrule in the dies before pressing:

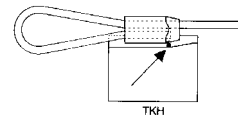
The following figures show how the ferrule should be positioned before pressing when using press dies with rounding or taper. In straight cylindrical dies the ferrule is placed in the middle of the cylindrical bore.



(Die with one-sided rounding)  
Place the ferrule about half a wire rope diameter away from the die rounding.



(Conical die)  
Place the ferrule centered in the straight cylindrical section of the die.

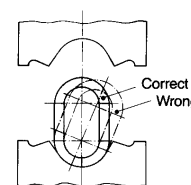


(Conical die)  
Place the ferrule with the short wire rope end downwards and make sure the tap is in the inspection hole.

### Pressing:

Make sure the dies are set up correctly and aligned. Lubricate the bore of the press dies. Press the ferrule, holding the wire rope with your two hands, one at each side of the dies. Attention! The closing dies imply a risk of crushing! The major axis of the oval ferrule cross-section must align with the direction of pressing. Use the regulating valve on the press to find the correct pressure in addition with an oil drop test\*. On completion of the pressing operation the dies shall meet and pressing must stop! Do not overload the dies. The ferrule shall be pressed in one direction, without being turned. Fins or flash material shall be removed by a grinding method without damaging or reducing the round diameter of the ferrule. Any flash material shall not be pressed back into the ferrule.

\* Oil drop test: place an oil drop on the supporting edge of the lower die. Use the regulating valve to close the dies. When the oil drop is pressed out of the closing dies the accurate pressure is achieved!



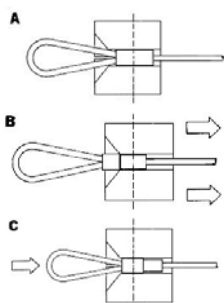
### Multi bite pressing:

There are two types of dies for multi-bite pressing, a full length and a short type. **IMPORTANT!** Lubricate the bore of the press dies in every step!

This procedure is for the full-length type. The press dies are first fixed in the swager as usual (Fig. A) using the centre fixing position, and pressing takes place as per standard procedure utilizing full pressure. The pressing is completed when the dies fully touch. If the press dies do not touch fully they must be moved to the second fixing position and pressing of half the ferrule carried out with reduced pressure as per Fig. B. NOTE! The pressure must be decreased to almost half not to overload the dies.

This method also ensures the load remains over the centre of the piston. The remaining half ferrule length is pressed as per Fig. C.

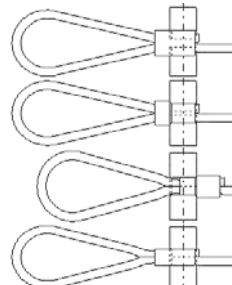
The procedure employing the short type dies involves moving the ferrule with the die remaining static in its fixed position see figure below. The pressure must be decreased to almost half the necessary pressure for full-length pressing.



Lubricate. Ferrule in middle of the die.

Lower the pressure. Move the die to its second fixing position. Lubricate. Press half the ferrule until the dies meet.

Lubricate. Press the remaining ferrule half.



Lubricate. Place the ferrule as shown in the picture. Reduce the pressure to half the value compared to full length.

Press the ferrule just about half the required distance.

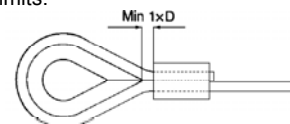
Lubricate. Now press the other side of the ferrule until the dies meet.

Lubricate. Press the first side of the ferrule once again, this time until the dies meet.

### Checking and marking after pressing:

Check that the ferrule has been properly pressed and the wire rope is correct in alignment. Each ferrule shall be visually examined, free from flaws and defects. Any flash produced on the ferrules should be removed without damage to the ferrule or the rope. At each set-up the pressed ferrule shall be dimensionally checked to verify that it is within the diameter and when applicable length limits specified in the tables for ferrules. Each pressed ferrule after the set-up shall be checked for diameter to verify that it is within the diameter limits.

If a thimble is incorporated the point of the thimble should be at least  $1 \times D$  (the diameter of the wire rope) away from the ferrule after pressing. See figure. When using a thimble without a point the distance shall be  $1,5 \times D$ . Thimbles shall be according to EN 13411-1.



Make sure the dead end of the wire rope protrudes from the ferrule after pressing. Our recommendation is approx.  $0,5 \times D$  (the diameter of the wire rope), to exceed this can cause injury. In case of conical ferrule make sure the dead end is visible in the inspection hole. Marking of pressed ferrules should be carried out according to ruling standards. Use a steel stamp or our marking machines. The following maximum letter sizes and maximum depth of impression are valid:

For ferrule No.	Max. letter Size	Max. impression depth
8-24	3 mm	0,5 mm
24-110	5 mm	1,0 mm

### Usage and scrapping:

Ferrule terminations of aluminium or copper shall not be exposed to temperatures outside the range  $-40^{\circ}\text{C}$  to  $100^{\circ}\text{C}$  or to long-term submersion in seawater. Slings shall be taken out of use if their ferrules have been exposed to deformation or when the outer diameter has been reduced to less than 95% of the original diameter.

If you have wire ropes not covered by this instruction or have any technical questions, please contact our Technical Department for advice.





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## FERRULE SELECTION CHART BASED ON EN13411-3



T ferrule (T)  
(aluminium)



T Konit with inspection hole  
(TKH) (aluminium)

Matching wire rope to ferrule

Selection of the correct ferrule is to take account of:

- the measured rope diameter
- the rope type (and core)
- the nominal fill factor,  $f$  (or metallic cross-sectional area factor,  $C$ ) of the rope. Very important for fibre core ropes.

### Case 1

For **single layer** round strand ropes with **fibre core and cable-laid** ropes having a fill factor of at least 0,36 ( $C \geq 0,283$ ) and max 0,45 ( $C \leq 0,353$ ), a ferrule having a size / Code number equivalent to the measured rope diameter is to be selected from the table on page 53.

### Case 2

For **single layer** round strand ropes with fibre core and cable laid ropes having a fill factor greater than 0,45 ( $C > 0,353$ ) and for **single layer** round strand ropes with **metallic core and for rotation-resistant** round strand ropes having a fill factor up to 0,62 ( $C \leq 0,487$ ), a ferrule having the next larger size / Code number than the measured rope diameter is to be selected from table on page 53.

### Case 3

For **single layer** round strand ropes with **metallic core and for rotation-resistant** round strand ropes and parallel-closed round strand ropes having a **fill factor greater than 0,62 and up to 0,78** ( $0,487 < C \leq 0,613$ ) the ferrule is to be selected from table on page 53.

### Case 4

For **spiral strand** having a **fill factor of not greater than 0,78**, ferrules are to be selected having two size/code numbers larger than the actual rope diameter from table on page 1. Two ferrules spaced two rope diameters apart are to be used per termination. After pressing a space is to be maintained between ferrules. Please contact us for the table containing Case 4.

Application rope types and grade

Single layer, rotation resistant and parallel-closed stranded ropes conforming to EN 12385-4, stranded ropes conforming to EN 12385-5, spiral strand ropes conforming to EN 12385-10 and cable-laid ropes as specified in EN 13414-3. The maximum rope grade is to be 1960. The types of rope lay shall be Ordinary or Lang lay.

**f** = Fill Factor, is the ratio between the sum of the nominal metallic cross-sectional areas of all the wires in the rope and the circumscribed area of the rope based on its nominal diameter.

**C** = Nominal metallic cross-sectional area factor of the rope.

$$C = \frac{f \cdot \pi}{4}$$

Please note that these instructions are only applicable to products produced and supplied by Talurit AB, Sweden and Gerro GmbH, Germany.



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## TALURIT™ SPLICING SYSTEM

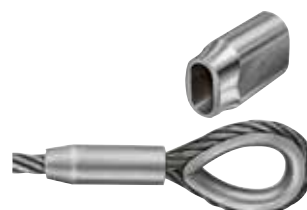
### Tables of sizes for Aluminium T, TK and TKH ferrules

Ferrule No.	Wire rope Capacity Diameter (mm)						Die identification			
	Case 1 Fill factor 0,36≤f≤0,45 0,283≤C≤0,353		Case 2 Fill factor f≤0,62 C≤0,487		Case 3 Fill factor 0,62<f≤0,78 0,487<C≤0,613		Dies marked	Diameter after pressing	Length after pressing approx.	Required pressure approx.
T	Min	Max	Min	Max	Min	Max	T/TK/TKH	mm / Tol	mm	kN
*GTA015	1,2	1,6	1,1	1,4			1,5	3,8 +0,2	8	10
GTA02	1,7	2,1	1,5	1,9			2	4 +0,2	9	20
GTA025	2,5	2,7	2,0	2,4			2,5	5	12	30
GTA03	2,8	3,2	2,5	2,7			3	6	14	45
GTA035	3,3	3,7	2,8	3,2			3,5	7	16	60
GTA04	3,8	4,3	3,3	3,7			4	8	18	80
GTA045	4,4	4,8	3,8	4,3			4,5	9	20	100
GTA05	4,9	5,4	4,4	4,8			5	10	23	125
GTA06	5,5	6,4	4,9	5,4			6	12 +0,3	27	180
GTA065	6,5	6,9	5,5	6,4			6,5	13	29	210
GTA07	7,0	7,4	6,5	6,9	6,0	6,4	7	14	32	250
GTA08	7,5	8,4	7,0	7,4	6,5	6,9	8	16	36	320
GTA09	8,5	9,5	7,5	8,4	7,0	7,9	9	18	40	410
GTA10	9,6	10,5	8,5	9,5	8,0	8,9	10	20 +0,4	45	500
GTA11	10,6	11,6	9,6	10,5	9,0	9,9	11	22	50	600
GTA12	11,7	12,6	10,6	11,6	10,0	10,9	12	24	54	720
GTA13	12,7	13,7	11,7	12,6	11,0	11,9	13	26	59	850
GTA14	13,8	14,7	12,7	13,7	12,0	12,9	14	28 +0,7	63	1 000
GTA16	14,8	16,8	13,7	14,7	13,0	13,9	16	32	72	1 300
GTA18	16,9	18,9	14,8	16,8	14,0	15,9	18	36 +0,9	81	1 600
GTA20	19,0	21,0	16,9	18,9	16,0	17,9	20	40	90	2 000
GTA22	21,1	23,1	19,0	21,0	18,0	19,9	22	44	99	2 400
GTA24	23,2	25,2	21,1	23,1	20,0	21,9	24	48 +1,1	108	2 900
GTA26	25,3	27,3	23,2	25,2	22,0	23,9	26	52	117	3 400
GTA28	27,4	29,4	25,3	27,3	24,0	25,9	28	56	126	3 900
GTA30	29,5	31,5	27,4	29,4	26,0	27,9	30	60 +1,4	135	4 500
GTA32	31,6	33,6	29,5	31,5	28,0	29,9	32	64	144	5 100
GTA34	33,7	35,7	31,6	33,6	30,0	31,9	34	68	153	5 800
GTA36	35,8	37,8	33,7	35,7	32,0	33,9	36	72 +1,6	162	6 500
GTA38	37,9	39,9	35,8	37,8	34,0	35,9	38	76	171	7 200
GTA40	40,0	42,0	37,9	39,9	36,0	37,9	40	80	180	8 000
*GTA42	42,1	44,1	38,4	40,3	37,0	38,9	42	84 +1,9	191	8 800
GTA44	42,1	46,2	40,0	42,0	38,0	39,9	44	88	198	9 700
*GTA46	46,3	48,3	42,1	44,1	39,0	40,9	46	92	209	10 600
GTA48	46,3	50,4	42,1	46,2	40,0	43,9	48	96	216	11 500
GTA52	50,5	54,6	46,3	47,9	44,0	47,9	52	104 +2,1	234	13 500
*GTA54	52,6	56,7	48,0	51,7	46,0	49,9	54	108	246	14 600
GTA56	54,7	58,8	54,6	51,9	48,0	51,9	56	112 +2,3	252	15 700
GTA60	58,9	63,0	54,7	58,8	52,0	54,6	60	120 +2,4	270	18 000

Please note that these instructions are only applicable to products produced and supplied by Talurit AB, Sweden and Gerro GmbH, Germany!



T ferrule (T)  
(aluminium)



T Konit (TK)  
(aluminium)



T Konit H (TKH)  
(aluminium)

\*These sizes are not included in the EN 13411-3 standard.

Table based on EN 13411-3:2004 + A1:2008

TK & TKH ferrules available on request.

T ferrules sized 62-152 available on request.

**Ferrules:** T and TKH have been validated according to EN 13411-3 regarding Ferrule Secured Eye terminations and Ferrule Secured Endless slings.  
TK-ferrules have been validated according to TALURIT™ splicing system.

**Wire rope:** Above table applies to bright or galvanized single layer steel wire ropes with round strands and rope grade 1 570 – 1 960. Wire ropes shall conform to EN 12385-4 and 5. The types of rope shall be Ordinary or Lang lay.  
For higher tensile grade we have an approved system called T-LOC. For higher and lower filling factor, please contact our Technical Department.  
Note! Please refer to the TALURIT™ Ferrule Securing Instructions for further information.

f = Fill factor, is the ratio between the sum of the nominal metallic cross-sectional areas of all the wires in the rope and the circumscribed area of the rope based on its nominal diameter.

C = Nominal metallic cross-sectional area factor of the rope.

$$C = \frac{f \cdot \pi}{4}$$



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## TALURIT™ SPLICING SYSTEM

### Table of sizes for Copper TCU ferrules

	Wire Rope Capacity Diameter (mm)				Die Identification			
	Fill factor (f=0,40-0,50) Fibre Core		Fill factor (f=0,50-0,60) Steel Core		Dies marked	Diameter after pressing		Required pressure approx.
TCU	Min	Max	Min	Max	T	(mm) / Tol.		(kN)
GTC015	1,1	1,5	1,0	1,4	1,5	3,8	+0,2	20
GTC02	1,6	2,0	1,5	1,9	2	4	+0,2	30
GTC025	2,1	2,6	2,0	2,4	2,5	5		45
GTC03	2,7	3,1	2,5	2,8	3	6		60
GTC035	3,2	3,6	2,9	3,3	3,5	7		80
GTC04	3,7	4,1	3,4	3,8	4	8		100
GTC045	4,2	4,6	3,9	4,2	4,5	9		125
GTC05	4,7	5,1	4,3	4,7	5	10		180
GTC06	5,2	6,1	4,8	5,6	6	12	+0,4	210
GTC065	6,2	6,6	5,7	6,1	6,5	13		250
GTC07	6,7	7,1	6,2	6,6	7	14		320
GTC08	7,2	8,2	6,7	7,5	8	16		410
GTC09	8,3	9,0	7,6	8,2	9	18		500
GTC10	9,1	10,1	8,3	9,2	10	20	+0,5	600
GTC11	10,2	11,2	9,3	10,2	11	22		720
GTC12	11,3	12,3	10,3	11,2	12	24		850
GTC13	12,4	13,4	11,3	12,2	13	26		1 000
GTC14	13,5	14,5	12,3	13,2	14	28	+0,7	1 300
GTC16	14,6	16,1	13,3	14,7	16	32		1 600
GTC18	16,2	18,2	14,8	16,6	18	36	+0,9	2 000
GTC20	18,3	20,2	16,7	18,4	20	40		2 400
GTC22	20,3	22,4	18,5	20,4	22	44		2 900
*GTC24	22,5	24,6	20,5	22,5	24	48	+1,1	3 400
*GTC28	27,0	28,6	24,7	26,1	28	56		4 500
*GTC30	28,7	30,8	26,2	28,1	30	60	+1,4	5 100

\*Not stocked. Available on request.

**Note!** Ferrules made of copper (RCU, TCU and TCUK) have many application areas. One of them being the use together with wire ropes made of stainless steel. This is specially advantageous to avoid galvanic corrosion problems.

**TCU and TCUK:** The TCU and TCUK ferrules have been validated according to TALURIT™ splicing system, which is within the frames of EN 13411-3. Copper as material is not accepted in this standard. We do not guarantee strength of slings for lifting activities made of Copper turnback ferrules. A termination performed according to our instructions will normally withstand a tensile strength of 90% of minimum breaking load (MBL) of the wire rope. Verifying tests must be done in order to find out the strength. Please read our TALURIT™ Splicing Instructions carefully to secure a safe and correct swaging operation.

**Wire rope:** Above table applies to wire ropes made of stainless steel, bright or galvanized single layer steel wire ropes with round strands and rope grade 1 570 – 1 960. Wire ropes shall conform to EN 12385-4 and 5. The types of rope shall be Ordinary or Lang lay. For higher tensile grade and higher Fill factor, please contact our Technical Department. Note! Stainless steel as a material is not included in the EN standard for wire ropes.

Please refer to TALURIT™ Ferrule Securing Instruction for further information.

Please note that these instructions are only applicable to products produced and supplied by Talurit AB, Sweden and Gerro GmbH, Germany!



Copper ferrule (TCU) (copper)

**f** = Fill factor, is the ratio between the sum of the nominal metallic cross-sectional areas of all the wires in the rope and the circumscribed area of the rope based on its nominal diameter.

**C** = Nominal metallic cross-sectional area factor of the rope.

$$C = \frac{f \cdot \pi}{4}$$



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## TALURIT™ SPLICING SYSTEM

### Table of sizes for Stainless Steel INOX ferrules

	Wire Rope Capacity Diameter (mm)				Die Identification			
	Fill factor (f=0,42-0,52) Fibre Core		Fill factor (f=0,53-0,58) Steel Core		Dies marked	Diameter after pressing		Required pressure approx.
Code	Min	Max	Min	Max	INOX	(mm) / Tol.		(kN)
GTS015	1,2	1,6	1,1	1,4	1,5	3,9	+0,15	100
GTS02	1,7	2,2	1,5	2,0	2	4,5	0	160
GTS025	2,3	2,7	2,1	2,6	2,5	5		200
GTS03	2,8	3,2	2,7	3,0	3	6		250
GTS035	3,3	3,7	3,1	3,5	3,5	7,8		300
GTS04	3,8	4,2	3,6	4,0	4	8		350
GTS045	4,3	4,7	4,1	4,5	4,5	9,8		400
GTS05	4,8	5,4	4,6	5,0	5	10,8	+0,3	500
GTS06	5,5	6,4	5,1	6,1	6	12	0	600
GTS07	6,5	7,4	6,2	7,1	7	14		700
GTS08	7,5	8,4	7,2	8,1	8	16		850
GTS09	8,5	9,5	8,2	9,1	9	18		1 000
GTS10	9,6	10,5	9,2	10,1	10	20	+0,4	1 100
*GTS11	10,6	11,5	10,2	11,1	11	21,3	0	1 350
GTS12	11,6	12,6	11,2	12,2	12	24		1 500
GTS13	12,7	13,6	12,3	13,2	13	26		1 750
*GTS14	13,7	14,6	13,3	14,2	14	28	+0,5	2 000
GTS16	14,7	16,7	14,3	16,2	16	32	0	2 500
GTS18	16,8	19,0	16,3	18,2	18	36	+0,6	3 100
*GTS20	19,1	21,0	18,3	20,2	20	40	0	3 400
GTS22	21,1	23,1	20,3	22,2	22	44		3 900
*GTS24	23,2	25,2	22,3	24,2	24	48	+0,8	4 500
*GTS26	25,3	27,3	24,3	26,4	26	52	0	5 000
*GTS28	27,4	29,4	26,5	28,4	28	56		5 600
*GTS30	29,5	31,5	28,5	30,3	30	60		6 000

\*Not stocked. Available on request.

Ferrules have been validated according to TALURIT™ splicing system.

**Note!** We do not guarantee strength of slings for lifting activities made of INOX-ferrules. A termination performed according to our instructions will normally withstand a tensile strength of 90% of the minimum-breaking load (MBL) of the wire rope. Verifying tests must be done in order to find out the strength.

**Wire rope:** Above table applies to stainless steel single layer wire ropes with round strands and rope grade 1570.

For higher tensile grade and higher Fill factor, please contact our Technical Department.

Please refer to TALURIT™ "Ferrule Securing Instructions" for further information.

Please note that these instructions are only applicable to products produced and supplied by Talurit AB, Sweden and Gerro GmbH, Germany!



f = Fill factor, is the ratio between the sum of the nominal metallic cross-sectional areas of all the wires in the rope and the circumscribed area of the rope based on its nominal diameter.

C = Nominal metallic cross-sectional area factor of the rope.

$$C = \frac{f \cdot \pi}{4}$$



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## TALURIT™ SPLICING SYSTEM

### Table of sizes for Round Aluminium R ferrules

Wire Rope Capacity Diameter (mm)					Die Identification				
		Fill factor (f=0,40-0,50) Fibre Core		Fill factor (f=0,50-0,60) Steel Core		Dies marked	Diameter after pressing		Required pressure approx.
Code	Min	Max	Min	Max	T	(mm) /	Tol.	(kN)	
GTR03A	2,7	3,1	2,5	2,8	3	6	+0,1	60	
GTR04A	3,7	4,1	3,4	3,8	4	8	0	100	
GTR05A	4,7	5,1	4,3	4,7	5	10		180	
GTR06A	5,2	6,1	4,8	5,6	6	12	+0,3	210	
GTR08A	7,2	8,2	6,7	7,5	8	16	0	410	
GTR10A	9,1	10,1	8,3	9,2	10	20	+0,4	600	
GTR12A	11,3	12,3	10,3	11,2	12	24	0	850	
GTR13A	12,4	13,4	11,3	12,2	13	26		1 000	
GTR14A	13,5	14,5	12,3	13,2	14	28	+0,5	1 300	
GTR16A	14,6	16,1	13,3	14,7	16	32	0	1 600	
GTR18A	16,2	18,2	14,8	16,6	18	36	+0,6	2 000	
GTR20A	18,3	20,2	16,7	18,4	20	40	0	2 400	
GTR24A	22,5	24,6	20,5	22,5	24	48	+0,8	3 400	
GTR28A	27,0	28,6	24,7	26,1	28	56	0	4 500	

Please note that these instructions are only applicable to products produced and supplied by Talurit AB, Sweden and Gerro GmbH, Germany!



Round ferrule (R)  
(aluminium)

**Note!** Ends stops (R and RCU) are not allowed to use for lifting applications. The expected strength regarding this end-termination is approximately 50% of the MBL of the wire rope (informative only). Accordingly, verifying tests must be performed to secure the strength of the application.

**Wire rope:** Above table applies to wire ropes made of stainless steel, bright or galvanized single layer steel wire ropes with round strands and rope grade 1 570 – 1 960. Wire ropes shall conform to EN 12385-4 and 5. The types of rope shall be Ordinary or Lang lay. For higher tensile grade and higher Fill factor, please contact our Technical Department.

Please refer to TALURIT™ Ferrule Securing Instruction for further information.

f = Fill factor, is the ratio between the sum of the nominal metallic cross-sectional areas of all the wires in the rope and the circumscribed area of the rope based on its nominal diameter.

C = Nominal metallic cross-sectional area factor of the rope.

$$C = \frac{f \cdot \pi}{4}$$





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## 20 TON 1-PILLAR SWAGER TALURIT™

TALURIT™ – here with a small  
Swager with high capacity



Economically priced  
Robust design  
Total reliability  
Easy to place  
Easy to carry  
Easy to use

The 20-ton Swager has a single pillar open throat design and the built in pump is very efficient. Less than 20 strokes close the dies!

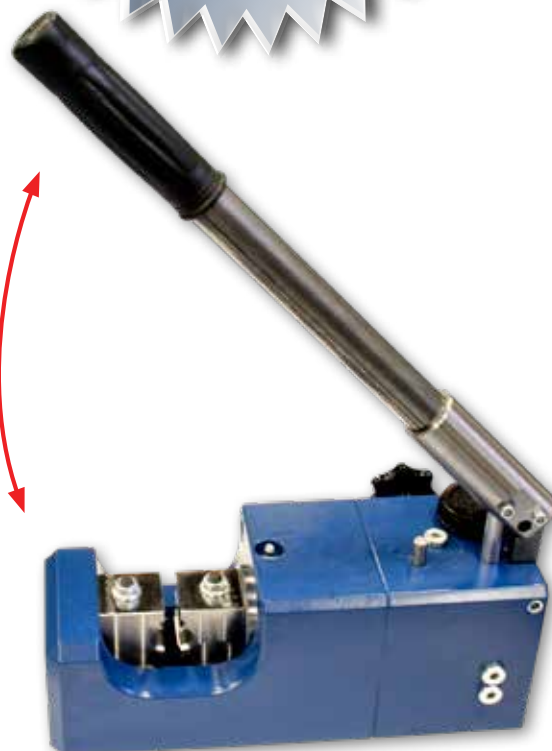
Due to lightweight and easy operation it is suitable to use in the field.

The pump handle is also used as a carrying handle in its locked position.

In a single stage swage T-ferrules up to No. 6,5 can be swaged. Multi stage swaging makes it possible to swage T-ferrules up to No. 9.

Note! All our dies are manufactured from hardened and tempered die steel for long life and durability.

Operating the pump: Close the relief valve on the pump and start pumping the handle to close the dies. Open the relief valve to open the dies.



### TECHNICAL DATA

#### Part Number: GPP20T

Max. swaging force (kN)	200	Type of die	A
Max fluid pressure (bar) approx.	630	Max. die length (mm)	39
Length of stroke (mm)	13	Dimensions L x W x H (mm)	400 x 150 x 160
Capacity - Single stage (T) - Multi stage (T/UM)	6,5 9/10	Weight (kg)	18,7



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## 40T 1-PILLAR SWAGER

### GENERAL DESCRIPTION

The 40 ton Swager has a single pillar open design and can be used either vertically, horizontally and upside down. Options such as a stabilizing plate or a tilted adjustable stand are available. The 40 ton Swager offers total flexibility and is easy to use in the field due to its light weight and easy operation.

The 40 ton Swager is available in many designs: Horizontal, vertical, upside down, free standing or mounted on a bench, etc.

## OPERATIONAL INFORMATION

The new 40 ton swager is both efficient and safe! It has the capacity to press T-ferrules up to size No. 9 in single stage swaging, and T-ferrules up to size No. 13 in multi stage swaging. The swager can be used with A and A1 TALURIT™ dies. All dies are manufactured from hardened and tempered die steel for a long service life, durability and excellent swaging results.

The swager can be fitted with two different models of electrical hydraulic units. The basic electrical hydraulic unit (HAGG 1,5/700-X-V1) comes with the standard up/down function. Whereas the multifunctional electrical hydraulic unit (HAGG 1,5/700-X-V2) comes with both up/down function and "hold position" to facilitate rope/eye adjustment and to make tool set-up quicker. To minimize cycle time when pressing, the HAGG 1,5/700-X-V2 is also equipped with a stroke limiter that allows control of the retraction stroke length of the piston when operating the swager.

Both hydraulic units are operated by an electrical foot pedal, allowing the operator to use both hands when swaging. Pressure is set by a pressure valve. When the swager is left unused, the automatic shutdown feature will turn the the swager off. The swager is easily restarted by pressing the electrical foot pedal.

Another option is the MA 800 pressure gauge which can be fitted to the swager or the electrical hydraulic unit. By setting the required pressure on MA 800, the piston returns automatically once the preset pressure is reached. This saves time and unnecessary movements for the operator and prolongs the service time for the dies. The new 40 ton swager can also be fitted with a manual hydraulic unit, P59L-40, for operating the swager. All hydraulic hoses come with quick couplings for easy handling and quick setup of the swager.

swager		TECHNICAL DATA	
Part Number: GPP40T	Value		Unit
Max. Swaging force	400		kN
Max. oil pressure	700		bar
Length of stroke	22		mm
Dimensions (L x W x H)	146 x 146 x 340		mm
Weight	37		kg
TYPE OF DIES:	A (38x42)	A1 (38x50)	-
- Capacity single stage	8 (T-ferrule)	9 (T-ferrule)	-
- Capacity multi stage	10 (T-ferrule)	13 (T-ferrule)	-
OPTIONS:			
Handle	Art No: 40T HANDLE		-
Stabilizing plate	Art No: 40T STAB PLATE		-
Adjustable stand	Art No: 40T ADJ STAND		-
MA 800 - Pressure Gauge	Art No: MA 800		-

hydraulic units TECHNICAL DATA						
Art No: HAGG 1,5/700-(1-5)	V1	V2	Value	Unit		
Power supply and Nominal current at:	1	3x 220-240/380-415V (50 Hz)	✓	✓	6,1/3,5	A
	2	3x 250-280/440-480V (60 Hz)	✓	✓	6,2/3,6	A
	3	3x 190-200V (50 Hz)	✓	✓	7,2	A
	4	3x 360-415V (60 Hz)	✓	✓	3,6	A
	5	3x 200-250V (60 Hz)	✓	✓	7,2	A
Power			✓	✓	1,5	kW
Cycle time (Single stage, full stroke)			✓	✓	8	s
Reservoir volume			✓	✓	3,7	l
Inlet/Outlet threads on couplings			✓	✓	1/4" BSPP	inch
Noise level			✓	✓	65	dB (A)
Dimensions (L x W x H)			✓	✓	650 x 215 x 310	mm
Weight			✓	✓	42,5	kg
Foot pedal			✓	✓	-	-
Hold position			na	✓	-	-
Stroke limiter			na	✓	-	-



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## For our environment:



- automatic power shut down
- efficient swage cycle time
- water-based paint

## The compact and powerful swager!

- Economically priced
- Robust design
- Total reliability
- User friendly
- Automatic power shut down
- Variable speed (GREEN OPTION)

# 130T SWAGER - TYPE 1S TALURIT™ SYSTEM

## GENERAL DESCRIPTION

The 130-ton Swager has a single pillar open throat design. It can be mounted either in upright position or upside down in a flat or tilted position (the different mounting positions is shown on the next page). This swager is easy to use and the open design allows comfortable access to the swaging area. An efficient 4 kW hydraulic unit (HAGG 130T) completes the swager system.

In single stage this 130T swager has a capacity to swage T and UM ferrules up to size 16. Size 20 is maximum for these ferrules using multi stage swaging.

The swaging operation is controlled by an electric twin pedal, i.e. a foot control and is permitting the operator using both hands to handle the rope assembly.

FERRULES/FITTINGS	CAPACITY
T (aluminum)	can be swaged up to size 16 in single stage (up to size 20 multi stage).
UM (aluminum)	can be swaged up to size 16 in single stage (up to size 22 multi stage).
STT Sockets/Terminals (carbon steel)	1/4"
TAL-X Flemish Eye Sleeves (carbon steel)	5/8"

*Note! Values above are approximate guidelines*



In addition to the standard up/down function, the foot control can activate a "hold position" to facilitate rope or sling eye adjustment making tool set-up quicker.

The retraction length of the stroke can be adjusted by the stroke limiter. The hydraulic unit shuts down after an adjustable idle time, and can be started again by just pressing the control pedal. This energy saving feature is also in addition reducing the already low noise level.

## Pressure gauge

With the pressure gauge, MA 130T, it is possible to pre-set the required pressure and get the die set to open automatically once this pre-set pressure is reached. Saving production cycle time and reducing operator movements and wear of the dies.

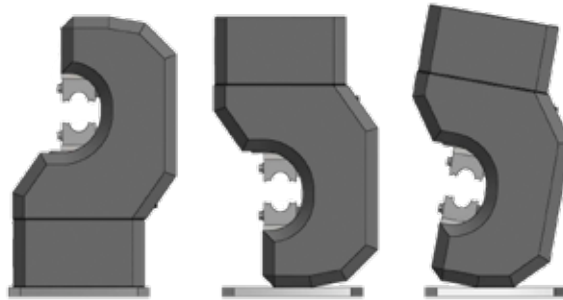
EQUIPMENT	STANDARD	OPTIONS
Die holder	FIX B1	-
Dies	B1 and B2	-
Power	4 kW	-
Electrical pressure gauge	MA 130T	-
Fastening nut for eccentric load (for example TAL-X and swaged terminals)	-	B1 ECC
Different mounting positions for press head (with reference to next page)	A	B or C
Variable Speed (more info on next page)	-	VS



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B1 ECC - Spring loaded fastening nut



A

B

C

Mounting positions



Variable Speed

## OPTIONAL EQUIPMENT

### Die holder

The base die holder for the 130T swager is FIX B1/B2. Add the spring loaded fastening nut B1 ECC to convert the die holder into a system suitable for swaging flemish eye sleeves and terminals. B1 ECC will make the dies float.

### Dies

Die sizes B1 (48x70 mm) and B2 (50,2x70 mm) are standard.

*Note! All our dies are manufactured from high quality, hardened, and tempered steel for long life time and durability.*

### Variable speed

This is the more environmental friendly choice. When adding the variable speed (VS) option the speed of the piston can be customized. By turning up the speed adjustment to maximum the piston will move with 9,6mm/s up to a force of 30 ton. It will then slow down until maximum force is reached and the piston is moving with 1,8mm/s. The speed adjustment can be set at any speed between 1,8-9,6mm/s.

CAPACITY					
STANDARD	Max swaging force		1300 kN		
	Max. fluid pressure		Approx. 313 bar		
	Working pressure		0-313		
	Length of stroke		45 mm		
	Die block sizes		B1 and B2		
	Inlet/outlet threads on couplings		3/8"		
	Amount of oil		30 l (oil is not delivered with the swager)		
	Noise level		less than 70 (dB (A))		
	Dimensions L x W x H		350x720x1425 mm		
	Height of table		845 mm		
	Working height (centre line where dies are closed)		1197 mm		
	Weight		460 kg (without oil)		
	Rated current at	240/400V 50Hz		14/8,5A	
		230V 60Hz		20A	
1S	Piston velocity	pressing speed	50Hz - 4mm/s	60Hz - 5mm/s	
		return speed	50Hz - 5,7mm/s	60Hz - 6,8mm/s	
	Power	50Hz	4,0kW		
		60Hz	5,5kW		
VS	Piston velocity	speed depending on pressure	9,6mm/s up to a pressure of 30T		
			1,8mm/s at maximum pressure		
	Power		4,0kW		



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## For our environment:



- automatic power shut down
- efficient swage cycle time
- water-based paint

## P 250T 1S

- **Powerful**
- **Versatile**
- **Reliable**
- **User friendly**
- **Automatic shut down**
- **Short process cycle time**
- **Environmentally friendly**
- **Compatible with several types of dies**

# 250T SWAGER - TYPE 1S TALURIT™ SYSTEM

## GENERAL DESCRIPTION

The 250-ton swager has a single pillar open throat design. It offers total flexibility. This swager is easy to use and the open design allows easy access to the dies. The swager is fitted with a hydraulic unit.

The swager body is manufactured from one single block construction that ensures strength, long service life and a minimum of maintenance. All swagers are thoroughly test run.

The 250T swager has a capacity to swage T, TS and UM ferrules up to approximate no. 22 in single stage. Multi stage swaging makes it possible to swage T and UM ferrules up to No. 30.

The swaging operation is controlled by an electric foot pedal permitting the operator to use both hands to handle the rope assembly when swaging.



In addition to the standard up/down function, the foot pedal has a "hold" position toggle to facilitate rope/eye adjustment and to make tool set-up quicker.

By setting the required pressure on the pressure gauge MA 250T-1S, the piston returns automatically once the pressure is reached. This saves time and unnecessary movements for the operator. When left un-used the resource saving automatic shut down will turn off the machine, but is easy to start again by pressing down the foot pedal.

An oil cooler is built into the swager to cool down the hydraulic oil.

Note! All our dies are manufactured from hardened and tempered die steel for long life and durability.

FERRULES/FITTINGS	CAPACITY
T (aluminum)	can be swaged up to size 22 in single stage (up to size 30 multi stage).
UM (aluminum)	can be swaged up to size 22 in single stage (up to size 30 multi stage).
STT Sockets/Terminals (carbon steel)	can be swaged up to size 5/8".
TAL-X Flemish Eye Sleeves (carbon steel)	can be swaged up to size 1".

*Note! Values above are approximate guidelines*

EQUIPMENT	STANDARD	OPTIONS
Die holder	• FIX C1 250T	• FIX 2,5"x5"
Insert die holders	• VIN C/C1	• VIN B1/C1 • VIN 2"x3,5"/2,5"x5"
Power	Power Pack 4 kW	-
Electrical pressure gauge	MA 250T -1S	-
Oil Cooler	Oil Cooler 250T	-
Noise Level	approx. 70 dB(A)	Silencer 250T (approx. 68 dB(A))





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## OPTIONAL EQUIPMENT

### Dies and insert die holders

Die size C, C1 are standard. With the die holder FIX 2,5"x5" dies size 2,5"x5" can be used. Dies C1 is for swaging with several stage. With optional insert die holders smaller dies can be used:

- VIN B1/C1 for dies size B1
- VIN 2"x3,5"/2,5"x5 for dies size 2"x3,5"

### Die holders

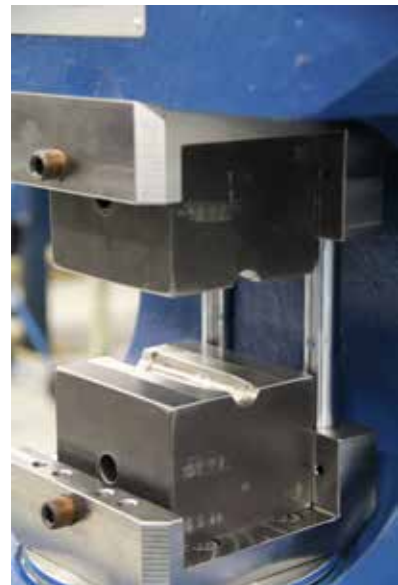
FIX C1 250T Standard die holder with pillar guide. Dies are locked with bolts.  
FIX 2,5"x5" Optional die holder with pillar guide. Dies are locked with bolts.

### Noise level (SILENCER 250T)

Optional SILENCER 250T with extra insulation can reduce the noise level to less than 68 dB(A).

## TECHNICAL DATA

Art No. P 0250T 1S	
Max swaging force (kN)	2500
Max. fluid pressure (bar)	Approx. 313
Power (kW)	4
Rated current at 240/400 V (A)	17/8,5
Length of stroke (mm)	55
Piston velocity	
- high pressure (mm/s)	2,07 (2,48 at 60 Hz)
- low pressure (mm/s)	10,09 (12,1 at 60 Hz)
Amount of oil (l)	30 (oil is not delivered with the machine)
Dimensions L x W x H (mm)	1050x 670 x 1450
Standard working height (mm)	1065
Weight without oil (kg)	approx. 1050



FIX C1 250T



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## TALURIT™ SWAGERS

In addition to the swagers listed in this catalogue, Talurit AB offers a range of larger swagers all the way up to 4200ton, making it possible to swage aluminium ferrules for nominal wire rope up to 160mm diameter.

The machines are designed to achieve safe and efficient mechanical splicing of steel wire ropes with many types of end fittings. The company uses the very latest techniques in engineering to ensure our manufacturing processes are to the highest quality standard while maintaining cost effectiveness as well as highest possible safety level. Key components are fully traceable with material certificates and quality inspections. All our swagers are manufactured in our work shop in Gothenburg, Sweden.



1000t swager



4200t swager with RBS 130

## TALURIT™ CUTTING MACHINES

Talurit Group has developed a broad range of wire rope cutting and annealing machines over the years. The cutting machines include basic hand cutters, manually operated hydraulic shears, annealing and tapering machines, and many different fully automatic cutting machines.

The annealing machines also include manual and fully automatic machines. The automatic cutting machines with shears are very efficient and proven to have short pay back time. The machines are manufactured with safety and environmental concerns in mind.

Cutting machines are mainly intended for cutting preformed wire rope. We have a wide range of manual and automatic machines to choose from. The ideal machine can be chosen depending on the volumes of cutting required and the wire rope diameter range.

Our annealing machines do not use shears, the wire rope is twisted off by annealing. Current is applied to heat the wire when the rope is clamped. When the rope is red hot, it is twisted and pulled. After twisting, the rope is slightly rounded and the wires will not unwind. By increasing the distance between the clamping chucks the wire end becomes more pointed, e.g. ideal for excavating machines etc.



LK45 1S on stand



AV30 Annealing machine



Annealed end



Square cut end



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## DIE SETS FOR ALUMINIUM AND COPPER FERRULES

### TYPES OF DIES



K,  
Conical Press Dies



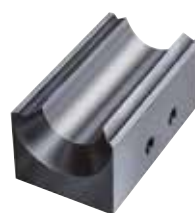
KH,  
Conical Press Dies  
with inspection hole



R,  
Cylindrical Press Dies  
(straight)



A,  
Cylindrical Press Dies  
(one sided rounding)



FR,  
Cylindrical Several  
Stage Press Dies



FRK,  
Cylindrical short  
Several Stage Press  
Dies

### MARKING AND IDENTIFICATION OF DIE SETS

The set of dies to the right is identified as B1 R 12/13, explaining block size, type of bore and ferrule to be used.

- Block size  
B1 in the picture to the right, is standard for a 150T swager. The standard block sizes for different swagers are shown in the table of page 2.
- Type of die  
R in the picture, means that the bore is straight.  
Different types of dies are shown on top of the page.
- Size of ferrule to be swaged.  
12/13 in the picture, means that both  
T 12 and UM 13 can be swaged.

#### Conical Press Dies

Marked K and KH (also T, TK / UM, K for ferrules)

Used for pressing of conical ferrules type TK and K and also straight cylindrical ferrules as T, TS, TCU, UM and R.

#### Marked K and KH (also TKH for ferrules)

Used for pressing of TKH ferrules with inspection holes. With blind taps they can also be used as the above mentioned conical dies for other ferrules. Patented solution and required in most standards for conical pressed ferrules.

#### Cylindrical Press Dies, straight or one sided rounding

Marked A (also T / UM for ferrules)

Usually provided with completely straight form but may also be delivered in one-sided rounding on request.

#### Combined Cylindrical Press Dies

Marked R (also T for ferrules)

Supplied in the following combinations:

BLOCK SIZE	Nos.				
B and B1	1+1,5	2+2,5	3+3,5		
C	1+1,5	2+2,5	3+3,5	4+4,5	5+6

#### Cylindrical Several Stage Press Dies

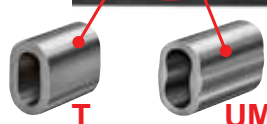
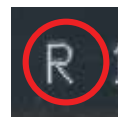
Marked FR and FRK (also T / UM for ferrules)

For pressing in several stages of cylindrical ferrules.

Supplied in straight form and in two types, long and short.



The other markings are explained on page 2





## WHICH WIRE ROPE TERMINATION

There are many different combinations and uses for Bridco stainless steel fittings and wire rope terminations.

The information shown in the centre spread of the catalogue is intended as a guide to help select the combination or system most suited for your application.

For further dimensions including dimensions and maximum loads on these and many other Bridco stainless steel products, refer to appropriate page in our catalogue or consult your Bridco stockist.

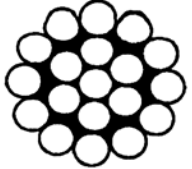

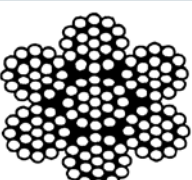
## SWAGE EYES

It is recommended for the eye to be formed around the thimble.

Swage ferrules (crimps) on stainless steel wire should always be copper or stainless steel (inox).

Aluminium ferrules are not suitable and should only be used on galvanised wire.

## THE MOST COMMON STYLES OF STAINLESS STEEL ROPE

	<b>1 X 19</b>	<b>STIFF</b> COMMONLY USED FOR STANDARD RIGGING, MAST STAYS, ETC. HAS A SMOOTH FINISH AND LOOKS GOOD WITH SWAGE TERMINALS.
	<b>7 X 7</b>	<b>SEMI FLEXIBLE</b> EASY TO HAND CRIMP AND CAPABLE OF LIMITED ANGLES. COMMONLY USED ON BALUSTRADING AND SAFETY RAILS.
	<b>7 X 19</b>	<b>VERY FLEXIBLE</b> EASIEST TO HAND CRIMP. USED FOR RUNNING RIGGING OR WHERE SHARP TURNS ARE REQUIRED.

#316 offers the highest resistance to corrosion and is often regarded as the premium grade. It is recommended to use #316 if materials are exposed to a heavy salt environment.

**COPPER SLEEVE (NP = NICKEL PLATED)**

CODE	FOR WIRE SIZE MM	FOR WIRE SIZE IMP	BORE *1	LENGTH BEFORE SWAGING	BITES PER SLEEVE (MIN) *2
CP-105	1.5	1/16"	4.9	8	2
CP-115NP	1.6	1/16"	4.9	8	2
CP-120	2	5/64"	4.9	9	2
CP-120NP	2	5/64"	4.9	9	2
CP-125	2.5	3/32"	6	10	2
CP-125NP	2.5	3/32"	6	10	2
CP-130	3	1/8"	7.3	13	2 – 3
CP-130NP	3	1/8"	7.3	13	2 – 3
CP-140	4	5/32"	9.1	16	2 – 3
CP-140NP	4	5/32"	9.1	16	2 – 3
CP-150	5	3/16"	10.9	18	2 – 3
CP-150NP	5	3/16"	10.9	18	2 – 3
CP-160	6		12.7	20	3
CP-164		1/4"	12.7	20	3
CP-164NP		1/4"	12.7	20	3
CP-180	8	5/16"	17	25	3
CP-180NP	8	5/16"	17	25	3
CP-199	10	3/8"	19	27	3

• 1 BORE = Dia of cavity in the pressing tool or die used for pressing.

\* 2 = When using CP hand tool

**ALUMINIUM SLEEVES**

CODE	FOR WIRE ROPE	BORE	LENGTH BEFORE SWAGING	BITES PER SLEEVE
CP-105A	1.5	4.9	8	2
CP-125A	2.5	6	10	2
CP-132A	3.2 (1/8")	7.3	13	2 – 3
CP-132AS	3.2 (1/8")	7.3	13	2 – 3
CP-135A	3.5 (1/8")	7.3	13	2 – 3
CP-140A	4	9	16	2 – 3
CP-150A	5	10.9	18	2 – 3
CP-160A	6	12.7	20	3

**COPPER SLEEVES FOR FIBRE ROPE**

CODE	USE TOOL	FOR ROPE	BORE	LTH BEFORE SWAGING	BITES PER SLEEVE
CP-140R	CP-763	4mm	6.9	6	1
CP-160R	CP-775	6mm	9.1	8	1
CP-180R	CP-775	8mm	10.9	8	1
CP-110R	CP-778	10mm	12.8	10	2

NOTE: For best results 2 sleeves should be used for each eye swage when using fibre rope.





## BRIDCO HAND SWAGES

The CP range of copper and aluminium sleeves (ferrules) are specifically designed for use with hand crimping tools. The results, when used with the correct tools, properly adjusted, are extremely strong with an even structure of metal surrounding the wire. Copper sleeves are recommended for use on stainless steel wire ropes. For galvanised wire ropes, aluminium sleeves can be used.

Please note that although hand crimping can give excellent results it should not be used on wire used for lifting purposes. Use approved methods only.

## STOPPERS

CODE	SUIT WIRE	BEFORE SWAGE DIA	AFTER SWAGE DIA	STARTS SLIPPING (KG)
CP-115S	1.5MM	5.1	3.5	195
CP-130S	3.2MM	6.35	5	340
CP-140S	4.0MM	10.5	6.8	545
CP-150S	5.0MM	10.9	7.5	725

Use normal hand swage tool for crimping stoppers, use the hole one size below the wire size ie: 3mm wire rope use 2mm hole on the tool.

## PRESSING PROCEDURE

1. Feed the wire through the ferrule to leave at least one wire diameter in length protruding from ferrule.
2. Beginning at the tail end of the ferrule press along the length of the ferrule using the full width of the plier jaw.
3. Rotate the ferrule 90 degrees and repeat, pressing surplus metal back into the ferrule.
4. Rotate back 90 degrees and repeat the process.



MADE IN NEW ZEALAND  
– PROFESSIONAL QUALITY



Jaws are made from alloy steel, hardened and tempered.  
Good quality tools with easy re-adjustments.

CODE	TO PRESS SLEEVES	OVERALL LENGTH	WEIGHT KG
CP-731	1.5mm (1/16"), 2.5mm (3/32")	320mm	.85
CP-763	2mm (5/64"), 2.5mm (3/32"), 3mm (1/8")	630mm	2.75
CP-774	3mm (1/8"), 4mm (5/32")	780mm	4.0
CP-775	4mm (5/32"), 5mm (3/16"), 6mm & 8mm fibre rope sleeves	780mm	4.0
CP-776	6mm (1/4")	780mm	4.0
CP-778	8mm (5/16")	780mm	4.0
CP-799	10mm (3/8")	900mm	6.5



CODE	HEX SWAGE PLIERS	OVERALL LENGTH	WEIGHT KG
CP-793H	3mm HEX SWAGE PLIERS	900mm	6
CP-794H	4mm HEX SWAGE PLIERS	900mm	6

#### REPLACEMENT JAWS

CODE	TO SUIT
CP-703	CP-763
CP-704	CP-774
CP-705	CP-775
CP-706	CP-776
CP-708	CP-778
CP-793HJ	CP-793H

#### BENCH MOUNT - NO JAWS INCLUDED

CP700 Designed to suit the jaws above, this device enables pressing of swages with one hand. Ideal for repetitive workshop operations.



#### WIRE ROPE CUTTERS

CODE	BRAND	MAX WIRE SIZE	OVERALL LENGTH	WEIGHT KG
CP-FELC07	FELCO	7mm	190mm	0.27
CP-FELC09	FELCO	9mm	325mm	0.75
CP-FELC12	FELCO	12mm	500mm	1.50
CP-FELC16	FELCO	16mm	590mm	2.30

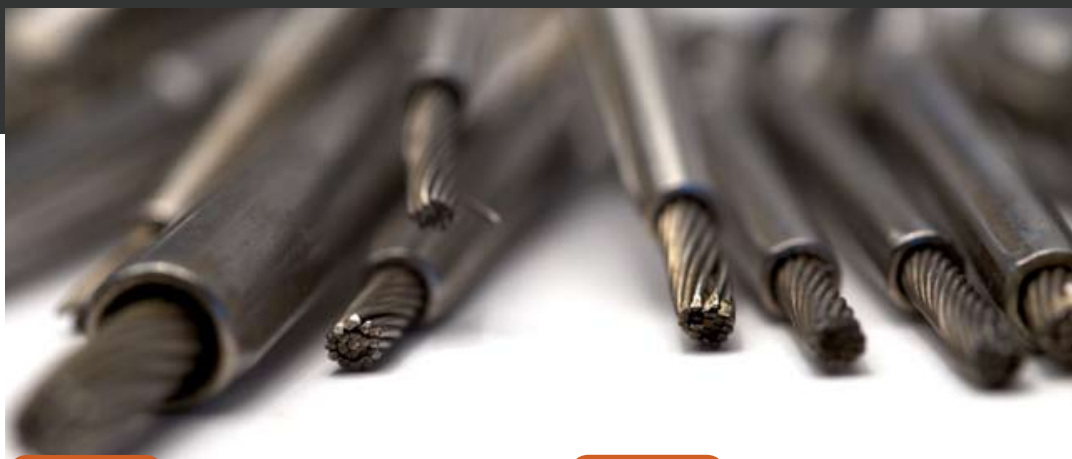
#### BRIDCO ECONOMY ROPE CUTTERS

CODE	MAX WIRE	OVERALL	WEIGHT KG
CP-WRC04	4mm	200mm	0.31



## Dimensions

WORLD STANDARD OF SWAGING



### mm

WIRESIZE BEFORE SWAGING	DIAMETER BEFORE SWAGING	DIAMETER AFTER SWAGING
1.6	4.06/3.94	3.50/3.40
2.5	5.53/5.41	4.82/4.7
3	6.35/6.22	5.56/5.44
4	7.54/7.42	6.35/6.23
5	9.12/9.00	7.95/7.83
5.5	10.84/10.72	9.50/9.35
6	12.54/12.42	11.12/10.95
7	14.30/14.18	12.70/12.50
8	16.13/16.01	14.30/14.07
9-10	17.85/17.73	15.90/15.70
11	19.83/19.63	17.47/17.27
12	21.44/21.32	19.05/18.82
12E	20.08/20.00	17.80/17.60
14	25.00/24.88	22.23/22.00
16	28.17/28.05	25.40/25.15
19	34.52/34.40	31.75/31.44
22	40.46/40.21	36.50/36.20
25	46.02/45.77	41.28/40.97
28	50.0	44/44.5
32	58.0	51.0/51.5
36	65.0	57.0/57.8
38~40	72.0	63.2/64.0

### inch

WIRESIZE BEFORE SWAGING	DIAMETER BEFORE SWAGING	DIAMETER AFTER SWAGING
1/16	.160/.155	.138/.133
3/32	.218/.213	.190/.185
1/8	.250/.245	.219/.214
5/32	.297/.292	.250/.245
3/16	.359/.354	.313/.308
7/32	.427/.422	.375/.368
1/4	.494/.489	.438/.431
9/32	.563/.558	.500/.492
5/16	.635/.630	.563/.554
3/8	.703/.698	.625/.618
7/16	.781/.773	.688/.680
1/2	.844/.839	.750/.741
9/16	.984/.979	.875/.866
5/8	1.109/1.104	1.000/.990
3/4	1.359/1.354	1.250/1.238
7/8	1.593/1.583	1.437/1.425
1	1.812/1.802	1.625/1.613
1 1/8	1.968	1.732/1.751
1 1/4	2.284	2.007/2.028
1 3/8	2.559	2.244/2.275
1 1/2	2.835	2.488/2.519
1 3/4	2.952	2.598/2.640

## Note

The swager is designed to reduce the terminal shank to required diameter in one pass. However dimension variations of terminals, cables or material hardness could make it necessary to pass the terminal twice.

**Note:** When swaging solid rods, a special swaging compound must be used. After swaging wipe off the roller dies and swaging machine, and apply a corrosion preventative.



WWW.WIRETEKNIK.SE



# OUR SMALLEST MACHINE.

## A100



*Hand pump P19L is standard equipment.*



*Without Handpump, 13 kg (29 lbs)  
with Handpump P19L.*

*Dimensions:*  
*L=440 mm (17 1/2")*  
*W=300 mm (11 3/4")*  
*H=135 mm (5 1/4")*  
*Weight: 11 kg (24 lbs)*

## The Bantam Machine.

A perfect machine for swaging on-site. Low weight and small outer dimensions makes it extremely portable.

**Swaging Range: 1,6-5 mm wire. ( 1/16"-3/16" )**

### Typical applications:

- Architectural, like balustrades and railing.
- Scenographic use at theaters for hanging and supporting set pieces.
- Onboard joining of towing lines for NATO's aviation practice targets.
- Shop fitters use it to make spectacular product displays for their customers.
- Standing rigging for sailing dinghies and lifelines on yachts.
- Structural rigging for hang-gliders and ultra-light airplanes.



[www.wireteknik.se](http://www.wireteknik.se)



# OUR MOST SOLD MACHINE.

**A200**



## Powerful Portability.

A perfect machine for swaging on-site. Low weight and small outer dimensions makes it extremely portable.

**Swaging Range: 1,6-8 mm wire. ( 1/16"-5/16" )**

### Typical applications:

- Standing rigging and lifelines for sailboats.  
The Swedish Navy uses it for making railing.
- Architectural, like balustrades and railing.
- Scenographic use at theaters for hanging and supporting set pieces.
- Extensively used for on-site swaging of wire fall protection systems on roofs and buildings.
- Structural rigging for hang gliders and ultra-light airplanes.
- Anchoring of weather balloons.
- Oceanographers uses it for swaging winch wire ropes for their surveying instruments.
- Lifting strops for fuel rods at nuclear power plants.
- Structural rigging for sail-roofs and sail-shades.



*An example of A200 fitted with Hydraulic pump unit PHU1.*

#### Dimensions:

*L=500 mm (19 3/4")*

*W=300 mm (11 3/4")*

*H=140 mm (5 1/2")*

*Weight: 19,5 kg (42 lbs)*



[www.wireteknik.se](http://www.wireteknik.se)





# BIG JOB. SMALL MACHINE.

**A 270**



## Big Job. Small Machine.

A perfect machine for swaging on-site. Low weight and small outer dimensions makes it extremely portable. Rigging screws can be swaged assembled.

**Swaging Range: 2,5-12 mm wire. ( 3/32" - 1/2" )**

### Typical applications:

- Standing rigging and lifelines for sailboats.
- Architectural, like balustrades and railing.
- Often used to build support structures for membrane roofs and tents.
- Structural rigging for sail-roofs and sail-shades.



www.wireteknik.se



**A350**

# THE PRODUCTION LINE MACHINE.



WIRETEKNIK



*An example of A350 fitted with Hydraulic pump unit PHU1.*



*Dimensions:*  
*L= 1117 mm (44")*  
*W=370 mm (14 3/4")*  
*H=210 mm (8 1/4")*  
*Weight: 66 kg (146 lbs)*

## Production Line Machine.

A perfect machine for line production, the low weight and small outer dimensions still makes it extremely portable.

Rigging screws can be swaged assembled.

**Swaging Range: 2,5-16 mm wire. ( 3/32"-5/8" )**

### Typical applications:

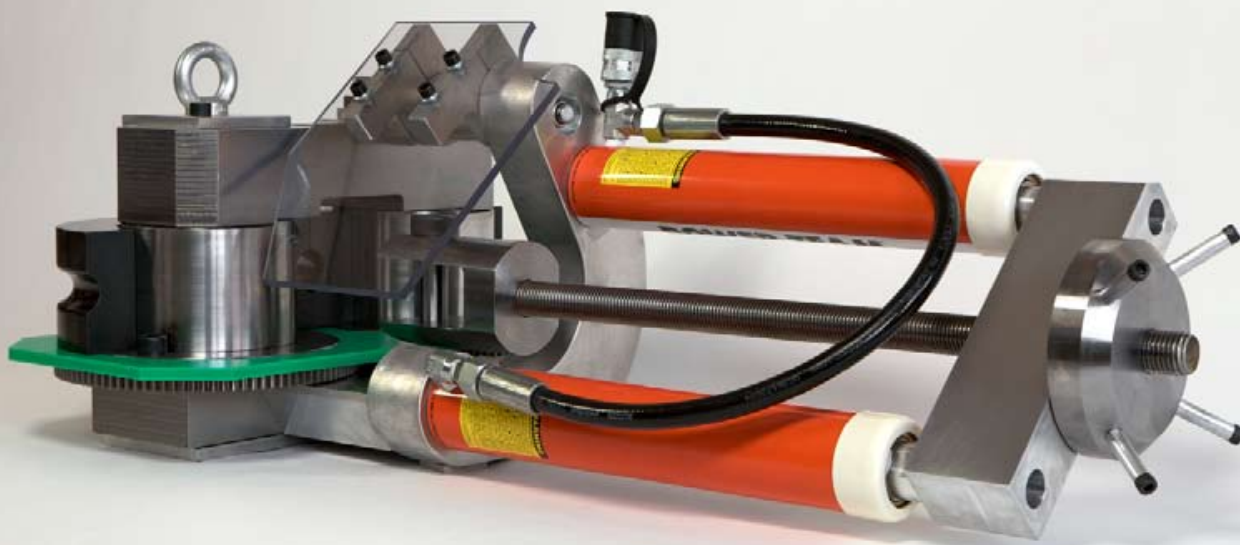
- Standing rigging and lifelines for sailboats.
- Architectural, like balustrades and railing.
- Good for medium size glass facade projects.
- Often used to build support structures for membrane roofs and tents.
- Structural rigging for sail-roofs and sail-shades.



www.wiretechnik.se



# THE ULTRA COMPACT MACHINE.

**A 400**


\*Also available optimised for road safety barriers.



*Dimensions:*  
*L=990 mm (39")*  
*W=530 mm (20 7/8")*  
*H=370 mm (14 1/2")*  
*Weight: 142 kg (313 lbs)*

## The Ultra Compact Machine.

**The Ultra Compact Machine for up to 28 mm Wire Rope.**

A perfect machine for swaging on-site. Low weight and small outer dimensions makes it extremely portable. Rigging screws can be swaged assembled.

**Swaging Range: 8-28 mm wire. ( 5/16"-1 1/8" )**

### Typical applications:

- Standing rigging and lifelines for larger sailboats and yachts.
- Used for on-site production of road safety barrier systems.
- Architectural, like balustrades, railing and hanging bridges.
- Good for big size glass facade projects.
- Often used to build support structures for membrane roofs and tents.
- Structural rigging for sail-roofs and sail-shades.



[www.wireteknik.se](http://www.wireteknik.se)



**A500**

## "THE BRONTO" OUR LARGEST MACHINE.



*Dimensions:*

*L=1380 mm (54 1/4")*

*W=780 mm (30 3/4")*

*H=490 mm (19 1/4")*

*Weight: 392 kg (864 lbs)*

### Extremely Powerful.

A500 is a perfect machine for swaging on-site. Low weight and small outer dimensions makes it extremely

**Swaging Range: 16-40 mm wire. ( 5/8"-1 1/2")**

#### Typical applications:

- Architectural, like balustrades, railing and hanging brid ges.
- Often used to build support structures for membrane roofs and tents.
- Good for big size glass facade projects.
- Structural rigging for sail-roofs and sail-shades.
- Standing rigging and lifelines for larger sailboats and yachts.



[www.wireteknik.se](http://www.wireteknik.se)









SECTION THREE

# cromox Stainless Steel Chains and Components



PAGE

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Email: [bridge@bridco.com.au](mailto:bridge@bridco.com.au)  
[www.bridco.com.au](http://www.bridco.com.au)





**cromox®**

THE NEW DIMENSION OF STAINLESS



## QUALITY MADE IN GERMANY

### Ketten Wälder CHAIN-TECHNOLOGY

We are a since generations family owned company.  
Customer based and solution oriented production  
reflects our philosophy.  
Through delivery of top notch products and customized  
solutions for widely varying requirements, straight forward  
order processing and a reliable after sales service,  
we create a pleasant business atmosphere.



**cromox®**



## New products for 2020

**NEW**

**cromox Self Locking  
Hooks  
Clevis CGSL  
Eye COSL  
Page 86**



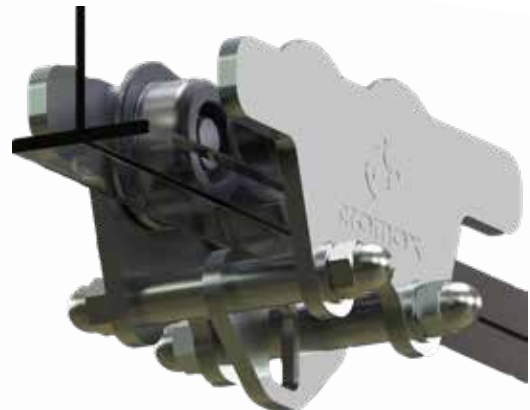
**NEW**

**cromox Shortener  
CVE  
Page 86**



**NEW**

**cromox Chain Hoists  
CCH  
cromox Hoist  
Trolleys  
CHT**



**NEW**

**cromox nautic  
Anchor Chain CXP  
to AS 2321  
Page 100**



**NEW**

**cromox Kenter  
Shackle CKS  
cromox Quick  
Connection Shackle  
CSVs  
Page 101**





## cromox Chain Slings and Components. Stainless Grade 60

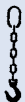
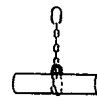


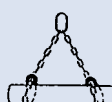
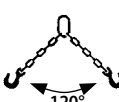
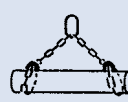
cromox Chain Slings and  
Accessories

cromox Chain Slings and  
Accessories from Ketten Wälder  
provide safety for demanding  
lifting and heavy-duty transports  
with superior protection against  
corrosion in harsh environments  
and increased longevity. Designed  
by our engineers with the utmost  
safety and durability  
in mind.



## Load Capacity Table for Chain Slings

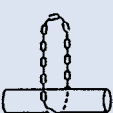
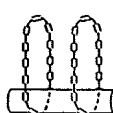
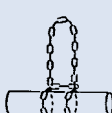
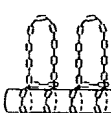
### Ring- and hook-ended Slings similar DIN 5688 – 1 Grade 60

Method of lifting Angle of inclination	W.L.L. in t						
	1-leg		2-leg, 3-leg & 4-leg				
	Direct	Tied	Direct 60°	Direct 90°	Tied 90°	Direct 120°	Tied 120°
Nominal chain thickness acc. to DIN5687							
4	0.40	0.30	0.65	0.55	0.45	0.40	0.30
5	0.63	0.50	1.05	0.85	0.70	0.63	0.50
6	0.90	0.70	1.55	1.25	1.00	0.90	0.70
7	1.25	1.00	2.15	1.75	1.40	1.25	1.00
8	1.55	1.20	2.65	2.15	1.70	1.55	1.20
10	2.45	1.95	4.20	3.45	2.70	2.45	1.95
13	3.85	3.05	6.65	5.40	4.30	3.85	3.05
16	6.00	4.80	10.35	8.40	6.70	6.00	4.80
18	8.00	6.40	13.80	11.20	8.95	8.00	6.40
The above-mentioned working load limits correspond approximately to the following load factors:							
	1.00	0.80	1.73	1.40	1.12	1.00	0.80
The strain must be reduced to 50 % of the W.L.L. for unbalanced lifting.							





Dependent on chain type and method of lifting.

Note: Slings may need to be de-rated to Grade 50 in some cases.

### Loop chains vertically hanging

Method of lifting Angle of inclination	W.L.L. in t			
	Direct 0°	Direct 0°	Tied 0°	Tied 0°
Nominal chain thickness acc. to DIN5687				
4	0.80	1.60	0.60	1.25
5	1.26	2.50	1.00	2.00
6	1.80	3.60	1.45	2.85
7	2.50	5.00	2.00	4.00
8	3.10	6.20	2.45	4.95
10	4.90	9.80	3.90	7.80
13	7.70	15.40	6.20	12.30
16	12.00	24.00	9.60	19.20
18	16.00	32.00	12.80	25.60

### Basket chain with Master Link

*W.L.L. in t			
90°	120°	90°	120°
			
0.45	0.30	0.65	0.45
0.70	0.50	1.05	0.75
1.00	0.70	1.50	1.05
1.40	1.00	2.10	1.50
1.70	1.20	2.60	1.85
2.70	1.95	4.15	2.90
4.30	3.05	6.50	4.60
6.70	4.80	10.20	7.20
8.95	6.40	13.60	9.60

The above-mentioned working load limits correspond approximately to the following load factors:

2.00	2x2	1.60	3.20	1.12	0.80	1.70	1.20
------	-----	------	------	------	------	------	------

The strain must be reduced to 50 % of the W.L.L. for unbalanced lifting.

\*Dependent on chain type and method of lifting.

## Chains



### cromox Chain CK Grade 60 similar DIN 5688-1. sand blasted. AISI 316L

Type	W.L.L.	Dimensions mm				Weight
	t	d	t	b <sub>1</sub> min	b <sub>2</sub> max	kg
*CK 4	0.40	4.0	12.0	5.0	13.7	0.350
*CK 5	0.63	5.0	15.0	6.5	18.5	0.540
KW-CK6	0.90	6.0	18.0	7.8	22.2	0.800
KW-CK7	1.25	7.0	21.0	9.1	25.9	1.100
KW-CK8	1.55	8.0	24.0	10.4	29.6	1.400
KW-CK10	2.45	10.0	30.0	13.0	37.0	2.200
KW-CK13	3.85	13.0	39.0	16.9	48.1	3.800
KW-CK16	6.00	16.0	48.0	20.8	59.2	5.700
<b>NEW</b> *#CX 18	8.00	18.0	54.0	24.3	64.8	7.300

\*Not stocked. Available on Request.

#Duplex AISI 318LN (2205 Duplex)



#### Advantages of electropolishing

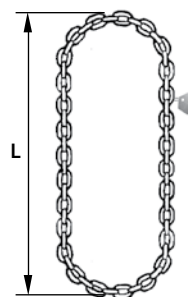
Electrolytic polishing is an electro-chemical process for surface treatment which causes ferritic ions to leave the material surface. The intended purpose is to reduce the microroughness. Therefore dirt or product remains are much more unlikely to stick to the chain. The cleanability is improved. Electrolytic polishing is also used for deburring, buffing or passivating.

The process effects a metallurgical clean surface without defects. The material's corrosion resistance is fully exploited.

### cromox Loop Chains CELK. Grade 60 bright polished. AISI 316L

This section on Request.

Type	W.L.L. vertical t	W.L.L. t 90°	W.L.L. t 120°
CELK 4	0.80	0.45	0.30
CELK 5	1.26	0.70	0.50
CELK 6	1.80	1.00	0.70
CELK 7	2.50	1.40	1.00
CELK 8	3.10	1.70	1.20
CELK 10	4.90	2.70	1.95
CELK 13	7.70	4.30	3.05
CELK 16	12.00	6.60	4.80



L = Length 1000 mm Circumference 2000 mm

Note:  
Custom sizes and finishes upon request

#### Working Load Limit (AISI 316L) dependent on chain temperature

	-40°C to +250°C	over 250°C to 350°C*	over 350°C to 450°C
W.L.L.	100%	75%	50%

\*1.4462 (AISI 318LN) max 350°C allowed





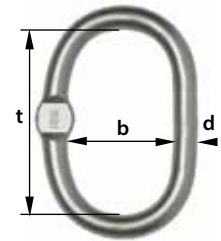
## Oblong Master Links and Multi Master Link with Flattened Section

**cromox Oblong Master Link CAGF. Grade 60**  
for 1- and 2-leg chain slings. sand blasted. AISI 318LN (2205 Duplex)

These master links have a flattened section to allow the use of connectors (e.g. clevis shackles type CGS) and wire rope thimbles.

Type	W.L.L.	for Chain		Dimensions mm			Weight kg
	t	1 – leg	2 – leg 90°	d	t	b	
KW-CAGF10	0.63	5	4	10	80	50	0.150
KW-CAGF13	1.55	6/7/8	5/6	13	110	60	0.340
KW-CAGF16	2.45	10	7/8	16	110	60	0.530
KW-CAGF18	3.55	–	10	18	135	75	0.800
KW-CAGF22	6.00	13/16	13	22	160	90	1.500
KW-CAGF26	8.00	18	16	26	180	100	2.300
KW-CAGF32	12.00	20	18	32	200	110	3.900
*KW-CAGF36	16.00	–	20	36	260	140	6.350

\*Not stocked. Available on Request.

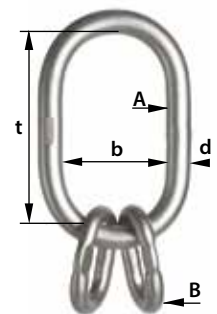


**cromox Multi Master Link CAKF. Grade 60**  
for 3- and 4-leg chain slings. sand blasted. AISI 318LN (2205 Duplex)

These master links have a flattened section to allow the use of connectors (e.g. clevis shackles type CGS) and wire rope thimbles.

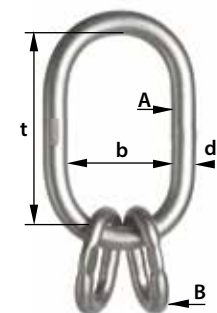
Type	W.L.L.		for Chain	Dimensions mm			Weight kg
	90°	120°		d	t	b	
*CAKF13/10	1.30	0.90	5	A 13 B 10	110 44	60 25	0.520
KW-CAKF16/13	2.65	1.85	6	A 16 B 13	110 54	60 25	0.970
KW-CAKF18/16	3.25	2.30	7/8	A 18 B 16	135 70	75 34	1.600
KW-CAKF22/16	5.15	3.65	10	A 22 B 18	160 85	90 40	2.760
*CAKF26/22	8.15	5.75	13	A 26 B 22	180 115	100 50	4.450
*CAKF32/26	12.60	9.00	16	A 32 B 26	200 140	110 65	7.550

\*Not stocked. Available on request.



**cromox Multi Master Link NAKF. Grade 50**  
for 3- and 4-leg chain slings. sand blasted

Type	W.L.L.		for Chain	Dimensions mm			Weight kg
	90°	120°		d	t	b	
KW-178622BK	1.70	1.25	8	A 22 B 16	160 70	90 34	2.300
KW-178626BK	2.80	2.00	10	A 26 B 18	180 85	100 40	3.560

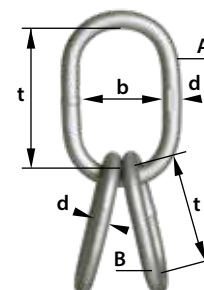


## Oblong Master Links and Multi Master Link without Flattened Section

cromox Multi Master Link for Ropes  
CAKS. Grade 60 blasted. AISI 318LN (2205 Duplex)

Type	W.L.L. t		Dimensions mm			Weight ca.kg
	45°	60°	d	t	b	
CAKS16/13	1.80	1.25	A 16 B 13	110 110	60 60	1.210
CAKS16/16	2.40	1.70	A 16 B 16	110 110	60 60	1.590
CAKS18/16	3.25	2.25	A 18 B 16	135 110	75 60	1.860
CAKS22/18	5.00	3.50	A 22 B 18	160 135	90 75	3.100
CAKS26/22	8.50	5.95	A 26 B 22	180 160	100 90	5.400
CAKS32/26	10.75	7.50	A 32 B 26	200 180	110 100	8.500
CAKS36/32	13.60	9.50	A 36 B 32	260 200	140 110	14.150

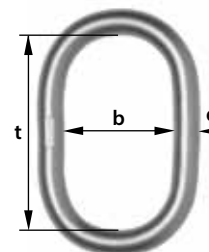
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cromox Oblong Master Link CAG. Grade 60  
1- and 2-leg. sand blasted. AISI 318LN (2205 Duplex)

Type	W.L.L.	for Chain		Dimensions mm			Weight kg
	t	1 - leg	2 - leg	d	t	b	
<b>NEW</b> *CAG 6	0.23			6	60	25	0.043
*CAG 8	0.40	4	–	8	54	30	0.070
KW-CAG10	0.63	5	4	10	80	50	0.150
KW-CAG13	1.55	6/7/8	5/6	13	110	60	0.340
KW-CAG 16	2.45	10	7/8	16	110	60	0.530
*CAG 18	3.55	–	10	18	135	75	0.800
*CAG 22	6.00	13/16	13	22	160	90	1.500
*CAG 26	8.00	18	16	26	180	100	2.300
*CAG 32	12.00	20	18	32	200	110	2.900
*CAG 36	16.00	–	20	36	260	140	6.350

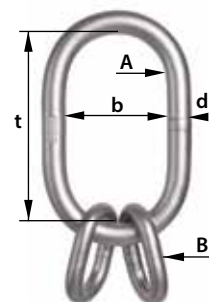
\*Not stocked. Available on request.



cromox Multi Master Link CAK. Grade 60  
3- and 4-leg. sand blasted. AISI 318LN (2205 Duplex)

Type	W.L.L. t		for Chain	Dimensions mm			Weight kg
	90°	120°		d	t	b	
*CAK 10/ 8	0.80	0.60	4	A10 B 8	80 35	50 19	0.240
*CAK 13/10	1.30	0.90	5	A13 B10	110 44	60 25	0.520
KW-CAK16/13	2.65	1.85	6/7	A16 B13	110 54	60 25	0.970
*CAK 18/16	3.25	2.30	8	A18 B16	135 70	75 34	1.600
*CAK 22/18	5.15	3.65	10	A22 B18	160 85	90 40	2.760
*CAK 26/22	8.15	5.75	13	A26 B22	180 115	100 50	4.450
*CAK 32/26	12.60	9.00	16	A32 B26	200 140	110 65	7.550

\*Not stocked. Available on request.

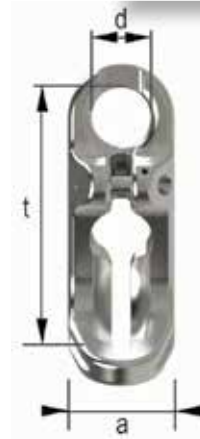




## Shorteners

**NEW**
**cromox Shortener CVE. Grade 60**  
 tested. sand blasted

Type	W.L.L.	Dimensions mm			Weight kg
	t	d	t	a	
CVE 04	0.40	17	74	32	0.170
CVE 05	0.63	24	93	40	0.280
CVE 06	0.90	25	112	45	0.455
CVE 07	1.25	27	131	53	0.750
CVE 08	1.55	28	148	56	1.000
CVE 10	2.45	38	187	70	2.000
CVE 13	3.85	48	243	91	4.500
CVE 16	6.00	56	299	108	7.600
CVE 18	8.00	67	336	122	9.500

**Product Benefits:**

- Simple Handling.
- Safety of use through special design.
- Repositioned flat section usable in welded and modular systems.
- Weight optimised design.
- Grade 60, 4-fold safety.

Part	Material
Body	AISI 318LN
Bolt	AISI 318LN
Safety Pin	AISI 301


**cromox Shortener CVED. Grade 60**  
 tested. sand blasted

Type	W.L.L.	Dimensions mm			Weight kg
	t	d	t	a	
KW-CVED06	0.90	25	92.00	40.00	0.37
KW-CVED07	1.20	32	113.00	50.50	0.70
KW-CVED08	1.50	32	119.80	50.50	0.77
KW-CVED10	2.40	38	149.00	61.00	1.39



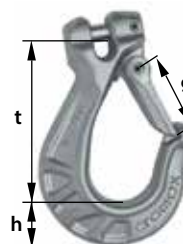
These shorteners are discontinued and are run out stock

## Hooks. Self Locking and Safety Sling.

**cromox Clevis Hooks CGHF. Grade 60**  
with safety latch. sand blasted

Type	W.L.L.	Dimensions mm			Weight
	t	t	g	h	kg
KW-CGHF 05	0.63	78	25	22	0.400
KW-CGHF 06	0.90	78	25	22	0.400
KW-CGHF07/08	1.55	97	32	28	0.760
KW-CGHF10	2.45	121	40	34	1.440
*KW-176613GB	3.20	143	48	47	2.600
*KW-176616GB	5.00	180	69	57	4.900

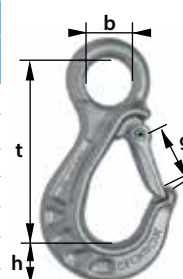
\*Discontinued Lines



**cromox Eye Hooks COHF. Grade 60**  
with safety latch. sand blasted

Type	W.L.L.	Dimensions mm				Weight
	t	t	g	b	h	kg
KW-COHF 04	0.40	75	20	17	17	0.185
KW-COHF05/06	0.90	100	25	25	22	0.350
KW-COHF07/08	1.55	126	32	27	28	0.790
KW-COHF10	2.45	160	40	37	34	1.370
KW-COHF13	3.85	190	51	48	45	3.000
*COHF 16	6.00	230	66	55	51	4.800
*COHF 18	8.00	255	70	65	56	6.400

\*Not stocked. Available on Request.



**NEW**

**cromox Self Locking Clevis Hooks CGSL. Grade 60**  
similar to DIN EN 1677-3. sand blasted

Type	W.L.L.	Dimensions mm			Weight
	t	t	g	h	kg
KW-CGSL05	0.63	83	28	19	0.280
KW-CGSL06	0.90	96	33	22	0.440
*CGSL07	1.25	109	37	25	0.640
KW-CGSL08	1.55	122	41	28	0.880
KW-CGSL10	2.45	148	50	34	1.600

\*Not stocked. Available on Request.



**NEW**

**cromox Self Locking Eye Hooks COSL. Grade 60**  
similar to DIN EN 1677-3. sand blasted

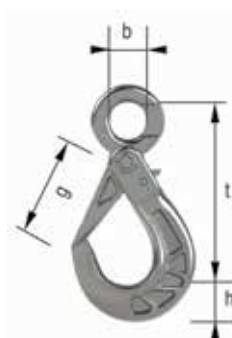
Type	W.L.L.	Dimensions mm				Weight
	t	t	g	b	h	kg
KW-COSL05	0.63	93	28	24	19	0.270
KW-COSL06	0.90	108	33	25	22	0.410
KW-COSL07	1.25	122	37	27	25	0.600
KW-COSL08	1.55	137	41	28	28	0.850
KW-COSL10	2.45	166	50	38	34	1.500
KW-COSL13	3.85	220	66	48	45	3.500
*COSL16	6.00	250	75	56	51	5.100

\*Not stocked. Available on Request.

Part	Material
Body	AISI 318LN
Safety Latch	AISI 318LN
Spring	AISI 301
Bolt	AISI 318LN
Safety Pin	AISI 301

### Advantages:

- Bionic Design - high WLL at favourable piece weight.
- Exchangeable safety mechanism.
- Best corrosion resistance through offshore approved materials entirely in stainless steel.

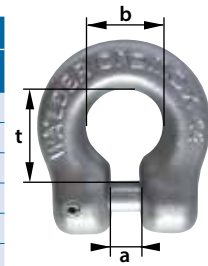


## Connectors & Shackles

### cromox Clevis Shackles CGS. Grade 60 tested. sand blasted

Type	W.L.L.	Dimensions mm				Weight
	t	t	b	a		kg
<b>NEW</b> KW-CGS04	0.40	19.0	15	6.5		0.060
<b>NEW</b> KW-CGS05	0.63	21.0	17	7.0		0.072
KW-CGS06	0.90	26.0	20	7.0		0.160
KW-CGS08	1.55	30.0	23	9.0		0.230
KW-CGS10	2.45	40.0	28	11.0		0.460
KW-CGS13	3.85	48.0	38	14.0		0.675
KW-CGS16	6.00	53.0	42	17.0		1.200
<b>NEW</b> *CGS18	8.00	61.5	48	19.5		1.850

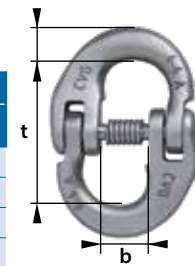
\*Not stocked. Available on Request.



### cromox Connecting Links. CVG. Grade 60 tested. sand blasted

Type	W.L.L.	Dimensions mm				Weight
	t	t	b	d		kg
KW-CVG06	0.90	42	15	7.5		0.085
*CVG07	1.25	42	15	9.5		0.090
KW-CVG08	1.55	55	18	11.5		0.150
KW-CVG10	2.45	69	22	14.50		0.310
<b>NEW</b> KW-CVG13	3.85	75	29	15.0		0.515
<b>NEW</b> KW-CVG16	6.00	92	36	18.5		0.980

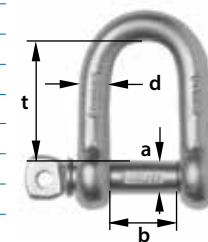
\*Not stocked.



Part	Material
Body & Bolt	AISI 318LN
Safety Pin & Spring	AISI 301

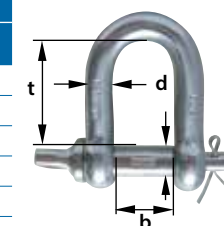
### cromox D-Shackles CSA. Grade 60 tested. bright polished. AISI 316

Type	W.L.L.	Dimensions mm					Weight
	t	a	d	t	b		kg
KW-CSA04	0.40	7	6	23	12		0.035
KW-CSA05	0.63	9	8	24	17		0.070
KW-CSA06	0.90	11	10	35	20		0.135
KW-CSA08	1.55	13	12	42	25		0.220
KW-CSA10	2.45	18	16	64	32		0.510
KW-CSA13	3.45	21	19	76	38		0.910
PE-PH5TA	5.00	19	16	64	32		0.550
PE-PH7TA	7.00	22	19	76	38		1.000
PE-PH9TA	9.00	26	22	88	44		1.900
PE-PH11TA	11.00	29	25	102	51		2.900
PE-PH13TA	13.00	32	29	114	57		3.100



### cromox Safety D-Shackles CSS. Grade 60 tested. bright polished

Type	W.L.L.	Dimensions mm					Weight
	t	a	d	t	b		kg
KW-CSS04	0.40	7	6	23	12		0.035
KW-CSS05	0.63	9	8	24	17		0.070
KW-CSS06	0.90	11	10	35	20		0.135
KW-CSS08	1.55	13	12	42	25		0.225
KW-CSS10	2.45	18	16	64	32		0.540
KW-CSS13	3.85	21	19	76	38		0.945





## Swivel Load Hooks and Spare Parts

**NEW**

### cromox Swivel Load Hooks with eyelet CWHB. Grade 60 blasted

Type	W.L.L.	Dimensions mm				Weight
	t	t	g	b	h	kg
CWHB 4/5	0.63	120	20	40	16.0	0.650
CWHB 6/7	1.25	165	25	49	21.0	0.988
CWHB 8/10	2.50	235	40	64	33.0	2.710



#### Advantages:

- Duplex material 1.4462 (AISI 318LN) ensures superior corrosion resistance
- Ball bearings allow easy rotation even under full load
- Large eyelet dimensions for multiple applications
- Bionic design guarantees high admissible loads
- Flattened section on the eyelet enables combination with cromox Clevis Shackles CGS

Part	Material
Body	AISI 318LN
Safety Latch	AISI 318LN
Bolt	AISI 318LN
Safety Pin	AISI 301
Bracket	AISI 318LN
Nut	AISI 318LN
Washer	AISI 318LN
Ball Bearings	AISI 440C

### cromox Safety Latch Assembly CSG for CGHF & COHF. sand -blasted

Type	Weight
	kg
CSG 04	0.026
CSG 05/06	0.030
CSG 07/08	0.050
CSG 10	0.095
CSG 13	0.150
CSG 16	0.250
CSG 18	0.250



### cromox Bolts and Pins CBP for CGHF & CGS. bright polished

Type	Dimensions mm	Weight
	d/l	kg
CBP 05	6 x 28	0.007
CBP 06	8 x 28	0.010
CBP 07	8 x 32	0.013
CBP 08	10 x 32	0.020
CBP 10	13 x 40	0.045
CBP 13	16 x 45	0.070
CBP 16	20 x 55	0.140



Heavy-duty hook constructed with an integrated safety latch.

The latch itself is highly resistant to side buckling. If the hook becomes overloaded the latch will disengage.

The hook point is designed to prevent usage with the incorrect chain size while ensuring that the safety latch does not reduce hook admittance.



## cromox Lifting Points. Stainless Grade 60



Lifting and Lashing Points  
by Ketten Wälder

cromox Lifting and Lashing Points provide safety and durability for lifting and heavy-duty transports. Our tested hoisting points – weldable or with screw – satisfy the strictest requirements in all lashing and lifting-applications when used with our cromox sling chains.

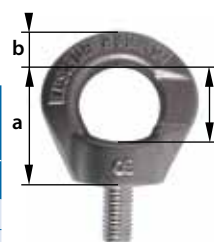
**cromox Weldable Lifting Points CSAG.  
Grade 60**

Type	W.L.L.	Dimensions mm			Weight
	t	a	b	Ød	kg
KW-CSAG05	0.5	33	30	10	0.165
KW-CSAG1	1.0	44	40	13	0.370
KW-CSAG2	2.0	52	55	18	0.955



**cromox Swivel Lifting Eye Screws CDS.  
Grade 60**

Type	W.L.L.	Dimensions mm			Thread	Across flats allen key	Weight
	t	a	b	c			kg
CDS05	0.5	44.0	12.5	29.5	M 12 x 22	8	0.200
CDS1	1.0	49.5	14.0	32.5	M 16 x 25	10	0.310

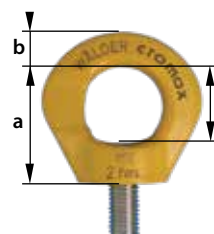


\*The above lifting eyes are also available with 50, 100 or 200mm of thread.

**New**

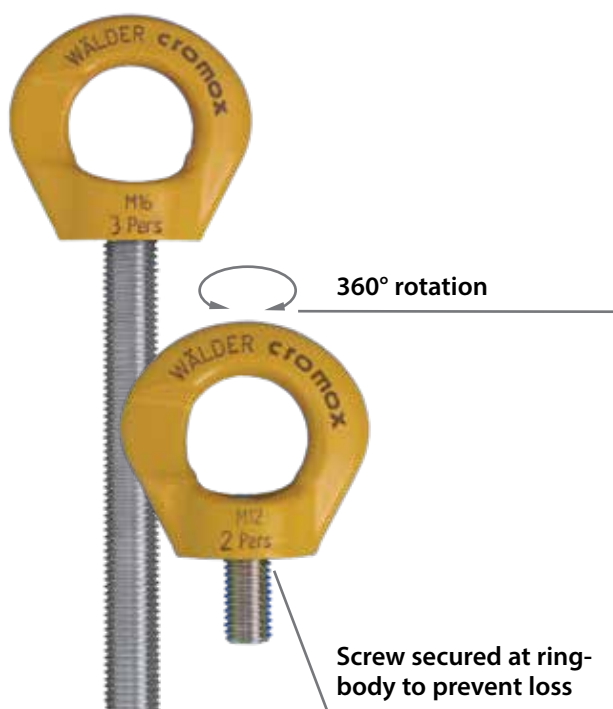
**cromox Swivel Eye Screws CDS-PSA Grade 60  
as Personal Protective Equipment**

Type	For protection of max.	Dimensions mm			Thread	Across flats allen key	Weight
		a	b	c			kg
CDSPSA2	2 Pers.	44.0	12.5	29.5	M 12 x 22	8	0.200
CDSPSA3	3 Pers.	49.5	14.0	32.5	M 16 x 25	10	0.310



\*Not stocked. Available on request.

Also available with 50, 100 or 200mm of thread.



**Advantages:**

- 360° rotation and adjustable in any load direction
- High fatigue resistance
- Ring-body and screw are 100 % crack detected
- Screw secured at ring-body to prevent loss
- Duplex material 1.4462 (AISI 318LN) ensures superior corrosion resistance
- Approved and certified as Personal Protective Equipment
- Tested acc. DIN EN 795. DIN CEN/TS 16415. DIN EN 50308

Part	Material
Ring Body	AISI 318LN
Screw	AISI 318LN
Locking Nut	AISI 318LN

**New****cromox Swivel Lifting Point CDAW. Grade 6**

Type	W.I.L.	Dimensions mm			Thread	Across flats allen key	Weight
	t	a	t	d			kg
CDAWM14	1.00	68.0	98.5	31.0	M14 x 26	22/10	0.490
CDAWM16	1.25	68.0	98.5	31.0	M16 x 26	22/10	0.500
CDAWM20	1.55	68.0	98.5	31.0	M20 x 30	22/10	0.510



\*Not stocked. Available on request.

**Advantages:**

- 360° rotation and adjustable in any loading direction
- Flattened section for combination with CGS
- Angle marks with indication (45°) on back
- High tested fatigue-resistance
- Ring-body and screw are fracturetested using advanced detection techniques
- W.L.L. marked on screw.
- Tested acc. EN 1677-1. quadruple protection against breakage
- Screw secured at ring-body to prevent loss
- Duplex material 1.4462 (AISI 318LN) ensures superior corrosion resistance



## cromox Pump Chains. Stainless Grade 60



### Versatile Heavy-Duty Solutions

cromox pump chains enable safe lifting and lowering of pumps and aeration devices. Accompanied with WLL-tag and certificate. In addition to our standard sizes, we offer customized solutions.

- Two-leg system for pumps with 2 lifting points
- Selection of end-fittings such as eye hooks, joining links, or shackles
- Custom segment lengths by request



**cromox Pump Chains CPK. Grade 60**  
welded. tested. AISI316 / AISI318LN

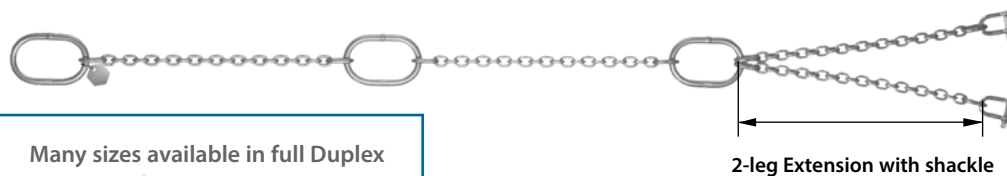
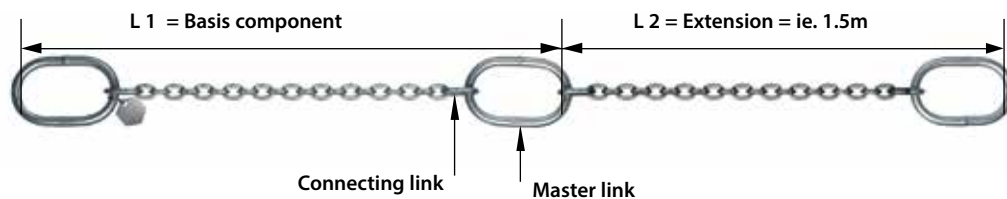
Type	W.L.L t	Master Link mm	Chain mm	Joining link mm
*CPK 3	0.20	5 x 42 x 22	3 x 14	-
KW-CPK4	0.40	8 x 54 x 30	4 x 16	5 x 22 x 9
KW-CPK5	0.63	10 x 80 x 50	5 x 15	6 x 26 x 13
KW-CPK6	0.90	13 x 110 x 60	6 x 18	8 x 35 x 19
KW-CPK7	1.25	13 x 110 x 60	7 x 21	8 x 35 x 19
KW-CPK8	1.55	13 x 110 x 60	8 x 24	10 x 44 x 25
KW-CPK10	2.45	16 x 110 x 60	10 x 30	13 x 54 x 25
KW-CPK13	3.85	22 x 160 x 90	13 x 39	16 x 70 x 34
KW-CPK16	6.00	22 x 160 x 90	16 x 48	18 x 85 x 40
*CPK 18	8.00	26 x 180 x 100	18 x 54	22 x 115 x 50

\*Not stocked.  
Available On  
Request.

Standard Spacing  $\approx$  1.5m centres ; other lengths by  
request

Custom fittings and fabrications available

L 1 = Approx 150mm + one additional masterlink



Customized  
edition



Part	Material
Master Link	AISI 318LN
Connecting Link	AISI 318LN
Chain	AISI 316L



## cromox Hoist Equipment. Stainless Grade 60

### Chain Hoist Equipment and Accessories

cromox chains for hand and motorized chain hoists and swivel hooks are individually tested by our technical staff to ensure quality and durability.

A Certificate of Manufacturing Quality comes with every hoist chain and swivel hook.



## cromox Manual Chain Hoist CCH. Grade 60

**NEW**

Type	W.L.L t	Load Chain mm	Hand Chain mm	Hoist Weight wit- hout chain	No of falls	Operating Force N
KW-CCH 63	0.63	CHK 6,3x19,1	NHC 5,0x25,0	6kg	1	205 N
KW-CCH 100	1.00	CHK 7,1x21,2	NHC 5,0x25,0	6kg	1	280 N

**Advantages:**

- Outstanding corrosion resistance through select materials and manufacturing.
- Sealed brake and gear unit to allow use in cleanroom.
- High fatigue-resistance
- Swivel top hook, ball bearing swivel load hook.
- cromox load and hand chain.
- Tested acc. to AS 1418.2
- Each block done as a custom setup for maximum customisation.

Part	Material
Load Chain	AISI 316L
Hand Chain	AISI 316L
Housing	AISI 316L
Pocketwheel load chain	AISI 318LN
Pocketwheel hand	AISI 316L
Screw	AISI 318LN
Nut	AISI 304
Washer	AISI 316

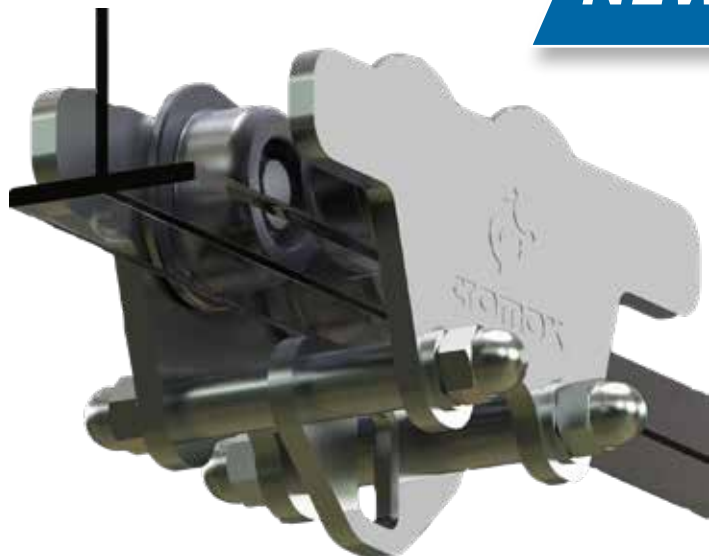


## cromox Hoist Trolleys CHT. Grade 60

**NEW****Advantages:**

- Designed to work with above chain blocks.
- Various WLL's available.
- High variability to adopt to different beam widths starting at 55mm (custom on demand).
- Large attachment eye.
- High corrosion resistance as made completely of stainless steel.
- Sealed ball bearings.
- Suitable for clean rooms.
- Tested acc. to AS 1418.2

Part	Material
Body	AISI 316L
Bolts	AISI 316L
Washers	AISI 316L
Nuts	AISI 316L
Rollers	AISI 316L
Bearings	AISI 440C



### cromox Hoist Chains CHK. Grade 60

similar to DIN 5684. tested. calibrated. bright polished

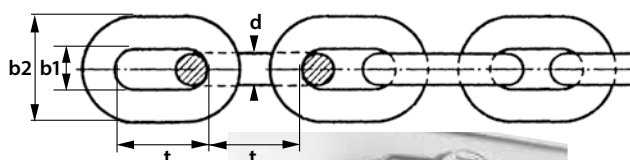
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Type	W.L.L t		Dimensions mm				Weight	breaking force
	a	b	d	t	b <sub>1</sub> min	b <sub>2</sub> max	kg	kN
CHK 4.0 x 12.0	0.40	0.32	4.0	12.0	5.0	13.7	0.350	16.0
CHK 4.0 x 12.3	0.40	0.32	4.0	12.3	5.0	13.7	0.350	16.0
CHK 5.0 x 15.0	0.63	0.50	5.0	15.0	6.0	16.9	0.540	25.2
CHK 5.0 x 15.1	0.63	0.50	5.0	15.1	6.3	17.0	0.540	25.2
CHK 5.0 x 15.3	0.63	0.50	5.0	15.3	6.0	16.8	0.540	25.2
CHK 6.0 x 18.0	0.95	0.75	6.0	18.0	7.2	20.2	0.800	37.5
CHK 6.3 x 19.1	1.00	0.80	6.3	19.1	7.9	21.4	0.860	40.0
CHK 7.0 x 21.0	1.25	1.00	7.0	21.0	8.4	23.6	1.100	50.0
CHK 7.0 x 22.0	1.25	1.00	7.0	22.0	8.4	23.0	1.100	50.0
CHK 7.1 x 21.2	1.30	1.00	7.1	21.2	8.8	23.6	1.120	52.0
CHK 8.0 x 24.0	1.60	1.25	8.0	24.0	9.6	27.0	1.400	63.0
CHK 8.0 x 24.2	1.60	1.25	8.0	24.2	9.6	27.0	1.400	63.0
CHK 9.0 x 27.0	2.00	1.60	9.0	27.0	10.8	30.4	1.800	80.0
CHK 9.5 x 28.5	2.30	1.85	9.5	28.5	11.0	31.2	2.000	92.0
<b>NEW</b> CHK 10.0 x 28.0	2.50	2.00	10.0	28.0	12.0	34.0	2.200	100.0
CHK 10.0 x 30.0	2.50	2.00	10.0	30.0	12.5	34.0	2.200	100.0
CHK 11.2 x 34.0	3.15	2.57	11.2	34.0	14.0	38.0	2.800	126.0
<b>NEW</b> CXK 16.0 x 45.0	6.00	4.80	16.0	45.0	19.2	54.4	5.800	253.0
<b>NEW</b> CXK 18.0 x 50.0	8.10	6.48	18.0	50.0	21.6	61.2	7.300	321.0
<b>NEW</b> *NHC 5.0 x 24.0	–	–	5.0	24.0	7.2	18.0	0.460	–
*NHC 5.0 x 25.0	–	–	5.0	25.0	7.0	17.4	0.450	–
*NHC 5.0 x 25.2	–	–	5.0	25.2	7.0	17.4	0.450	–

a = Hand driven SF 4:1

b = Motor driven class 1 Bm SF 5:1

\*Hand chain



#### Precision manufacturing:

- Certification of Test and Inspection accompanies every chain
- Calibrated according to DIN 5684 standards
- Materials: Grade 60:1.4404 (AISI 316L)
- Custom lengths and finishings





### cromox Swivel Load Hooks CWHF. Grade 60 for direct connection to chain

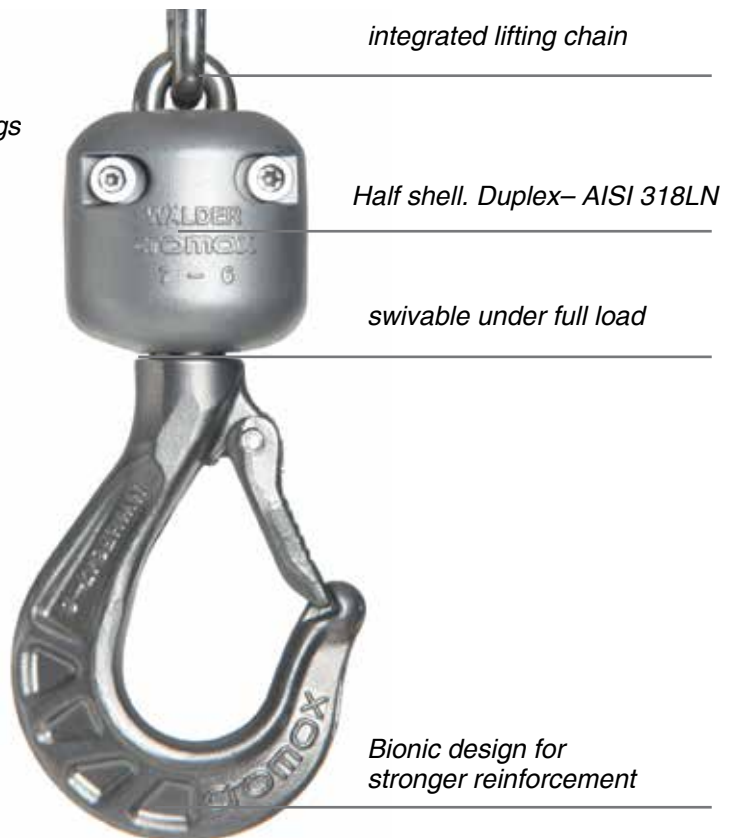
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Type	Fitting Chain mm	W.L.L. t	Dimension mm g	Weight kg
CWHF 40	4 x 12/12.1/12.3	0.40	20	0.450
CWHF 50	5 x 15/15.1/15.3	0.63	20	0.450
CWHF 60	6 x 18/16.7	0.95	25	1.100
CWHF 63	6.3 x 19.1	1.00	25	1.100
CWHF 70	7 x 21/22	1.25	25	1.100
CWHF 71	7.1 x 20.5/21.2	1.30	25	1.100
CWHF 80	8.0 x 24/24.2	1.60	40	3.500
CWHF 90	9.0 x 27	2.00	40	3.500
CWHF 95	9.5 x 28.5	2.30	40	3.500
CHWF 100	10.0 x 28/30	2.50	40	3.500

#### Advantages:

- Duplex body and latch AISI 318 LN ensures superior corrosion resistance
- Easy rotation under full load (ball bearings made of stainless steel AISI 440C)
- Fits chains hoists (hand and motorized) of various manufacturers
- Superior Stainless Steel-grade 60
- Designed for moving heavy loads safely
- Safe and efficient handling through compact, heavy-duty design
- Field-tested hook
- Certificate EN 10204 -3.1 upon request

Part	Material
Body	AISI 318LN
Safety Latch	AISI 318LN
Spring	AISI 301
Bolt	AISI 318LN
Half Shell	AISI 318LN
Screws/Nuts	AISI 318LN
Safety Pin	AISI 301
Ball	AISI 440C



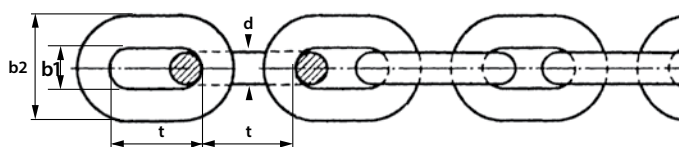


**cromox Conveyor Chains CFK. Grade 60**  
tested. calibrated. bright polished AISI 316L

This section  
on Request.

*New*

Type	Minimum Breaking Force	Dimensions mm				Weight
	kN	d	t	b <sub>1</sub> min	b <sub>2</sub> max	kg
CFK 6 x 27.5	36	6	27.5	8.80	21.20	0.680
CFK 8 x 25.4	60	8	25.4	8.90	25.90	1.280
CFK 8 x 31.0	60	8	31.0	10.40	28.00	1.260
CFK 9 x 27.0	80	9	27.0	10.80	30.60	1.800
CFK 9 x 31.0	80	9	31.0	11.70	31.50	1.650
CFK 10 x 31.0	96	10	31.0	12.50	34.00	2.200
CFK 10 x 35.0	96	10	35.0	12.50	34.00	2.100
CFK 10 x 38.0	96	10	38.0	12.50	34.00	2.100
CFK 13 x 45.0	154	13	45.0	16.30	44.20	3.500



*New*

**cromox Pocket Wheels. Chain  
Sprockets and Windlass Gypsies**

**Lifting. Moving. Transporting**



*We manufacture pocket wheels. chain sprockets. and guide wheels based upon your individual specifications using our cutting-edge 5-axis CNC machine. The stainless steel and duplex-grade materials work well with our cromox line of products. Our precision engineering and manufacturing processes ensure precision reduced-noise operation with low wear-and-tear. Optimized geometry provides the perfect load transmission with minimal stresses.*

*Please speak with our sales staff directly for pricing and ordering information.*



## cromox Nautic. Stainless

### Windlass Anchor and Forerunner Chains

cromox anchor and forerunner chains offer superior durability and service life.

- Duplex steel 1.4462 has double the breaking force compared to Grade 30
- Materials with an increased-PRE value are suitable in warm seawater
- Increased weight savings and service life
- Smooth operation
- No "piling" inside anchor locker

**NEW**

### cromox Windlass Anchor Chains CXP

#### Grade 60 plus

similar to AS2321. tested. calibrated. Duplex AISI 318LN.  
bright polished

Type	Dimensions mm				Weight	Breaking Force
	d	t	b1 min	b2 max	kg/m	kN
*CXP 6	6	18.8	7.2	21.6	0.860	37.5
KW-CXP 8	8	23.8	9.6	27.0	1.400	63
KW-CXP 10	10	29.8	12.0	34.3	2.200	100
*CXP 13	13	38.0	15.6	43.0	3.380	167
*CXP 16	16	47.8	19.2	54.9	5.620	240.0

\*Not stocked. Available on request.



### cromox Windlass Anchor Chains CXA

#### Grade 60 plus

similar to DIN 766. tested. calibrated. Duplex AISI 318LN.  
bright polished

Type	Dimensions mm				Weight	Breaking Force
	d	t	b1 min	b2 max	kg/m	kN
<b>NEW</b> CXA 5	5	18.5	6.0	17.0	0.500	25.2
CXA 6	6	18.5	7.2	20.8	0.750	38.5
CXA 8	8	24.0	9.6	27.2	1.350	66
CXA 10	10	28.0	12.0	36.0	2.250	104

\*Not stocked. Available on request.

### cromox Forerunner Chains CKV

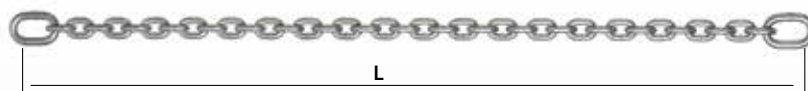
AISI 318 LN. bright polished

Larger end-links on both sides to guide the anchor to the bottom.

Type	Dimensions mm		Weight	Bigger end links
	d	t	ca. kg/Stk.	
CKV 6	6	18.5	0.840	8 x 35 x 19
CKV 8	8	24.0	3.190	10 x 44 x 25
CKV 10	10	28.0	2.400	13 x 54 x 25
CKV 13	13	36.0	4.100	16 x 70 x 34

\*Not stocked. Available on request.

L = ca. 1 m



Material	1.4307	1.4401	1.4404	1.4462
AISI 318LN	AISI 304L	AISI 316	AISI 316L	AISI 318LN
PREN	16.5–20.26	23.1–28.5	23.1–28.5	30.85–38.07
CPT (°C)	10.0	24 – 27.5	24.0 – 27.5	27.5 – 34.5

#### Advantages of electropolishing

Electrolytic polishing is an electro-chemical process for surface treatment which causes ferritic ions to leave the material surface. The intended purpose is to reduce the microroughness. Therefore dirt or product remains are much more unlikely to stick to the chain. The cleanability is improved. Electrolytic polishing is also used for deburring, buffing or passivating.

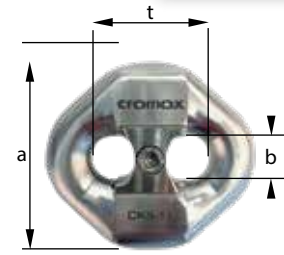
The process effects a metallurgical clean surface without defects. The material's corrosion resistance is fully exploited.

cromox Nautic Anchor Chains have a 2 year guarantee against corrosion in the standard bright polished finish and a 3 year guarantee with an electro polished finish.

**NEW**

*cromox Kenter Shackle, CKS, Grade 60*  
AISI318LN (2205 Duplex), tested, blasted

Type	W.I.L.	Dimensions mm			Weight
	t	t	b	a	kg
CKS 13	3.85	36	14,0	56	0.210
CKS 16	6.00	45	17.5	70	0.420
CKS 18	8.00	50	20.0	80	0.630



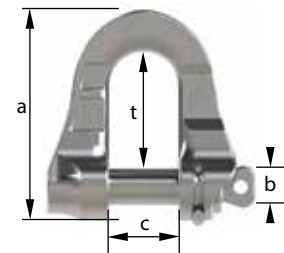
**Product Benefits:**

- Durable, reusable joining element.
- Simple assembly
- Best corrosion resistance.
- Made of duplex AISI 318LN (2205 Duplex)

**NEW**

*cromox Quick Connection Shackle, CSVS, Grade 60*  
AISI318LN (2205 Duplex) tested, blasted

Type	W.I.L.	Dimensions mm				Weight
	t	t	b	a	c	kg
CSVS 06	0.90	35	11	63	20	0.135
CSVS 08	1.55	42	13	75	25	0.255
CSVS 10	2.45	64	18	112	32	0.595
CSVS 13	3.85	76	21	131	38	1.070
CSVS 16	6.00	88	24	153	44	1.710



**Product Benefits:**

- Safety-optimized, appealing design.
- Custom design double locking.
- Free turning of locked bolt.
- Made of duplex AISI 318LN (2205 Duplex)





**cromox**<sup>®</sup>

General Safety Notes for  
Chain Slings (Grade 50/60)



Last revised: January 2020



## General Safety Notes for CROMOX® Chain Slings (Grade 50/60)

Instructions for safe use and avoidance of danger.

Keep this safety note/manufacturer's declaration for the entire utilisation time.

### 1. Choosing the appropriate chain sling:

- Application is only allowed for slinging and lifting loads.
- It is to be made sure that the safe working loads indicated on the attached tags are not exceeded.
- Changes in the safe working load in dependence of the temperature  $t$  are as follows:

	-40°C to + 250°C	over 250°C to 350°C*	over 350°C to 450°C
W.L.L.	100 %	75 %	50 %

\*1.4462 max 350°C allowed

Use within the admissible temperature range means no permanent reduction of the safe working loads after return to room temperature.

- Use in acids and alkalis or application in acid or alkaline vapours is only admissible if the material is resistant to corrosion.
- Any self-effected modifications, such as exchange of components, thermal or galvanic treatment, will invalidate the product liability of Ketten Wälder GmbH.
- In the case of particularly endangering conditions (lifting of persons; caustic substances; liquid metals; etc.), the degree of endangerment is to be assessed by a competent person and the safe working load is to be adjusted accordingly.
- On continuous operation, i. e. at automated production lines with high work cycles and often repeated similar movements and ways of transportation, a high dynamic strain ( $\Rightarrow$  20.000 stress cycles) occur. There is the risk of damage of the products due to the high dynamic strain. In these cases it is essential to reduce the tension i. e. corresponding to mechanism group 1Bm M3 acc. to DIN EN 818-7 by using a higher nominal thickness or size.

### 2. Visual inspection:

- Prior to the first application, it is to be made sure that
- the chain sling delivered is exactly the one that was ordered,
  - the test certificate has been provided,
  - the chain sling is complete with markings and indications as to the safe working load and that those data are consistent with the test certificate,
  - all the details concerning the chain sling have been included in the card index.



**Prior to each use**

**the chain has to be visually inspected to check if there is any apparent damage or sign of wear.**

### 3. Handling of the load:

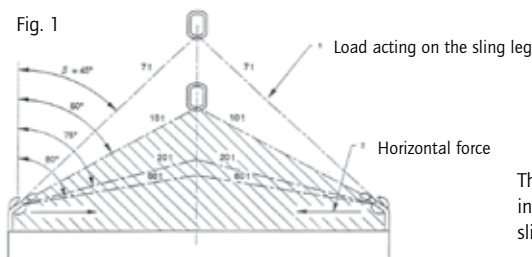
- Any particular specifications regarding the load have to be observed.
- Before starting the lifting operation, it has to be made sure that the load is freely movable and that it is not anchored or fixed.
- The mass of the load must be known. If not, it can be taken from documents or shall be determined by calculation.
- The location of the centre of gravity should be determined when choosing the sling points and should meet the following conditions:

chain slings	lifting point
single-leg	to be perpendicular over the centre of gravity
double-leg	for both legs to be over the centre of gravity
3- and 4-leg	if ever possible to be evenly distributed over a plane about the centre of gravity and located over the centre of gravity

- To ensure the stability of the load when using multi-leg chain slings, the sling angle  $\beta$  should be  $> 15^\circ$  and should be within the indicated range. It must, however, not exceed  $60^\circ$  (see example in Fig. 1).

## Safety Notes

Fig. 1

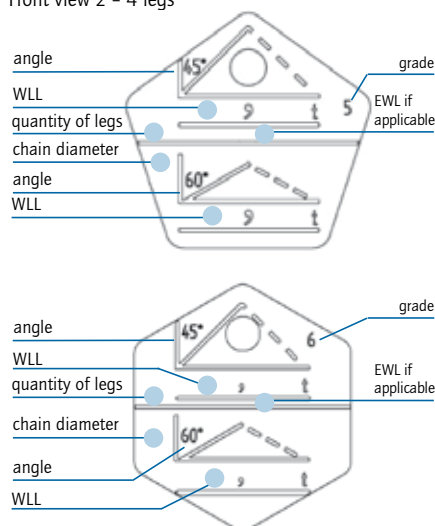


The hatched area shows angles of inclination greater than 60°, where sling chains must not be used.

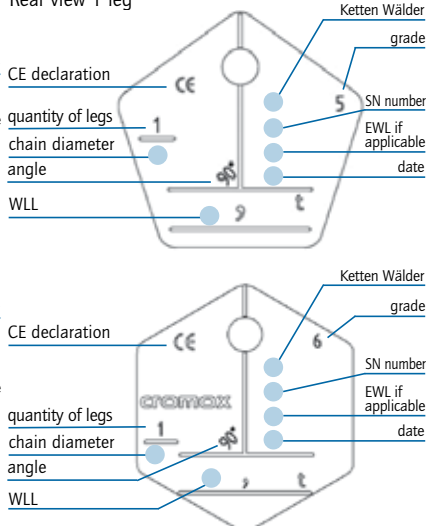
- The load hook for attaching the chain sling should be directly over the centre of gravity.
- Only slow movements are allowed.
- Enough space for lifting process must be guaranteed.
- Workers have to keep safety distance, no contact to the load.

### Explanation of the tag:

Front view 2 – 4 legs



Rear view 1 leg



#### 4. Application shortening devices:

Warning



- Pull loose unloaded chain through circular opening to desired length.
- Hook the chain into the position as shown in the photo.



- Ensure correct fit while lifting process.
- Never load shortened loose chain strand.
- Pay attention to load peaks due to asymmetric weight distribution.
- Chain legs must not be twisted or knotted.
- When using a multiple leg chain sling in a vertical hitch, the hooks must face outwards.

#### 5. When applying a load to a sling, the following has to be observed:

- Chain legs must not be twisted or knotted.
- A load should always be attached to the hook saddle and must never be applied to the tip of a hook.
- Hooks and suspension links must be freely movable in order to prevent deformation due to bending stress.
- When using a multiple leg chain sling in a vertical hitch, the hooks must face outwards.
- When using the choker hitch, the safe working load is reduced to 80 %.
- In order to avoid damage to chains or to the load when using choker hitches, it may be necessary to use intermediate layers or edge protection.

- In order to avoid that a load swings in a dangerous manner, it is recommended to use a holding rope.
- Do not shock-load chain slings or jerk loads.
- In indicating the safe working load, it is assumed that the individual legs of the chain sling are loaded symmetrically. Symmetrical loading can be assumed if all of the following conditions are met:
  - ▶ the load is less than 80 % of the rated safe working load and
  - ▶ the angle of inclination for each chain leg is not less than 15° and
  - ▶ the angles of inclination of the chain legs do not deviate by more than 15° from each other and
  - ▶ the sling attachment points for 3- and 4-legged chain slings are located in a sling plane of not more than 15°.
- For unsymmetrical loading, the classification of the lifting operation as well as the determination of the safe working load is to be entrusted to a competent person. Alternatively in the case of unsymmetrical loading, the safe working load should be reduced to 50 % of the rated value.
- When using multi-legged chain slings, the following is to be observed if not all of the legs are required for lifting:
  - ▶ Individual legs which are not being used should be hooked back onto the master link.
  - ▶ In such cases, the following load factors apply:

Type of chain sling	Number of individual legs used	Factor to be applied with respect to the rated SWL
2-legged	1	1/2
3- and 4-legged	2	2/3
3- and 4-legged	1	1/3

- All influencing factors are to be taken into account when determining a sling type and choosing the appropriate chain sling, with the safe working load to be greater than the load to be lifted.
- Safety during lifting operations:
  - ▶ ISO 12480-1 is to be observed in the planning and carrying out of lifting operations.
  - ▶ Hands and other body parts are to be kept clear when tautening the chain sling.
  - ▶ No other persons must be put in danger.

#### 6. When putting the load down, the following is to be observed:

- The place where the load is to be put down should be prepared and made sufficiently accessible.
- The ground must have sufficient load-bearing capacity.
- It may be necessary to stabilise the load by using wooden blocks or the like.
- In order to prevent damage, the sling chain must not be wedged, nor pulled out by means of the lifting gear.
- Storage of chain slings that are not in use:
  - ▶ In order to minimise corrosion attacks on chain slings that have been used in acids or alkalis or in acid or alkaline vapours, those chain slings should be cleaned thoroughly also before removing them from operation temporarily.
  - ▶ Chain slings should be stored on specially designed and provided racks.  
If chain slings are lying on the floor, there is a risk that they might get damaged.
  - ▶ Chain slings remaining on the crane hook should be hooked back onto the master link.
  - ▶ If chain slings are not to be used in the foreseeable future, they are to be cleaned and protected against corrosion.

#### 7. Maintenance:

- Inspections should be performed by a competent person at intervals of no more than 12 months. If necessary, these intervals should be shortened in dependence of the circumstances of use.
- Prior to inspection, the chain slings are to be cleaned thoroughly.
  - Any cleaning method that does not attack the basic material is admissible, whereas any processes or procedures that may cause hydrogen embrittlement, overheating or material abrasion or which may hide surface damage are to be avoided.
  - Sufficient lighting is to be provided during inspections, and all components of the chain sling are to be examined.
  - By means of visual inspections, the chain slings are to be checked for unmistakable identification (tags) as well as for any visually noticeable defects.



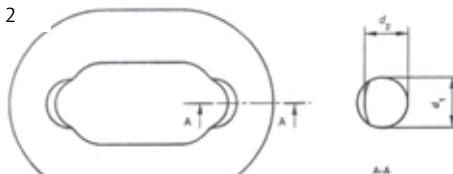
**If any of the following defects are found, the chain sling has to be removed from operation and inspected by a competent person or serviced/repaired:**

- ▶ Marking/identification illegible or missing.
- ▶ Deformation of suspension or sling parts.
- ▶ Inadmissible elongation of chain links, differences in leg lengths.

## Safety Notes

- ▶ If, as a result of wear and tear, the nominal thickness of a chain link is < 90 % (see Figure 2).

Fig. 2



$$\frac{d_1 + d_2}{2} = < 0,9 \times d_n$$

- ▶ Damage (cuts, notches, grooves, cracks, discoloration due to heat, excessive corrosion, bent or twisted links, or other defects).
- ▶ Signs of widening (excessive throat opening) or deformation of hooks.  
The widening must not exceed 10 % of the nominal measure; if hooks with safety catch are used, the catch must not become disengaged.
- Inspections are to be recorded and proved in writing.

### 8. When performing maintenance work, the following is to be observed:

- Each individual part of the chain sling has to meet the requirements of DIN 5687, DIN 5688 Part 1 and DIN 7541.
- Individual chain links are not to be replaced - replace complete legs instead.
- Any individual parts which are broken, noticeably deformed, seriously corroded, or show deposits which cannot be removed, are to be discarded or replaced.
- Minor notches or furrows in parts of chain slings may be evened out if the remaining material thickness in this point is > 90 % of the nominal thickness and no sudden cross-sectional change is noticeable.
- Welded chain slings may only be repaired by the manufacturer.
- If welding operations have been performed on chain slings, each individual leg which has been repaired has to be tested subsequently with twice the SWL value.
- Replacement of mechanical connection links requires no load testing if the individual part testing is certified.



- ▶ CE Label for completely assembled chains.
- ▶ The label guarantees that the technical requirements of the EC guideline have been met.

Warning:



It is prohibited to assemble chains and components of different grades.



## Operating Instructions for Pump Chains

Instructions for safe use and prevention of hazards.

The operating instructions/manufacturer's declaration on hand must be kept for the complete lifetime of the chain. We hereby declare (supported by the certification according to ISO 9000) that the model described below is in accordance with the Essential Health and Safety Requirements of the EC Machine Directives. This declaration shall become void in case the model is modified without our approval or if the periodic test procedures according to the National Regulations of the respective countries are not performed regularly.

### 1. Selection of pump chains:

The following aspects should be considered when selecting the pump chain:

- The National Regulations of the respective countries regarding occupational health and safety and regarding the operation of work equipment must be adhered to.
- The maximum load capacity as indicated on the capacity label may not be exceeded under any circumstances.
- Subsequent modifications are not permitted.
- The user is responsible for ensuring that the pump chain is used properly as intended.

### 2. Please note prior to first use:

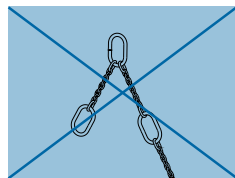
Prior to use, the following prerequisites must be fulfilled:

- The scope of delivery corresponds to the purchase order.
- The test certificate or certificate of compliance with the order is available.
- The lifting capacity is indicated and corresponds to the documentation.

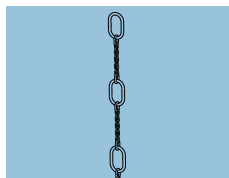
### 3. Handling

The following aspects must be considered when using the pump chain:

- The operator must make sure that the pump chain is attached properly.
- The end fitting must be checked for a secure fit at regular intervals depending on the purpose and period of use.
- The chain leg may not be twisted or knotted.
- The mass of the load must be known.
- The instructions of the pump manufacturer must be adhered to.
- Do not abruptly put weight on the pump chain.
- Single-legged pump chains may not be used as double-legged hangers.



incorrect



correct

### 4. Maintenance

Inspections must be conducted to make sure that the chain is clearly identifiable (ID-label) and to detect visible defects.



**Pump chains may no longer be used in case of the following defects:**

- ▶ Labelling/identifier illegible or missing.
- ▶ Deformation of chain links, oval links or end fitting.
- ▶ Damage (notches, distortions, corrosion).

A specialist must inspect the chain at intervals depending on the frequency of use; in any case, however, after 12 months at the latest.

Please note the following aspects in this connection:

- Cleaning procedures affecting the properties of the material may not be applied (heat, acidic or alkaline cleaning agents, concealing of surface damage, etc.).
- During the inspection, sufficient lighting must be provided and all of the pump chain components must be checked.
- All inspections must be recorded and verified in writing.

At regular intervals, at least every 3 years, however, the pump chain and its components must be checked for safety hazards by applying the 1.5-fold capacity and subsequent inspection of the chain and its components.

### 5. Please consider the following with regard to maintenance:

- It is not permitted to replace individual chain links (whole strand only).
- Welded systems must be repaired by the manufacturer.
- In case the pivot bolt of the D-shackle is deformed, it must be replaced





# cromox<sup>®</sup> Operating instructions for weldable stainless steel lifting points NSAG



Last revised: July 2009

## Operating instructions for weldable stainless steel lifting points, NSAG 05/1/2

### Instructions for safe use and prevention of hazards.

The instruction manual/manufacture's declaration on hand must be kept for the complete lifetime of the product. We hereby declare (supported by the certification according to ISO 9001) that the model described below is in accordance with the Essential Health and Safety Requirements of the EC Directives. This declaration shall become void in case the model is modified without our approval or if the periodic test procedures according to BGR 500, Chapter 2.8 ("Operation of load suspension devices in hoist operation and the corresponding country-specific regulations") are not performed regularly

Please note:











The machine at which the components supplied are attached to may not be taken into operation until its compliance with machine directive 2006/42/EC has been verified

The weldable stainless steel lifting points are made of the material 1.4404 whose low carbon content makes it resistant against intercrystalline corrosion even after welding. The material 1.4404 is resistant against normal atmospheric influences and low-chloride media but not saltwater-proof

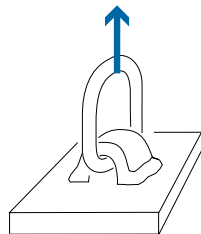
### 1. Load-bearing capacity:

- Please refer to the following table for information on the load capacity of the lifting points in relation to the load direction.

Sling types for NSAG

Number of sling point	1 Load capacity/t	1 Load capacity/t	2 Load capacity/t	2 Load capacity/t	2 Load capacity/t	2 Load capacity/t	3 or 4 Load capacity/t	3 or 4 Load capacity/t
Angle of inclination	0°	90°	0°	90°	0 - 45°	45° - 60°	0° - 45°	45° - 60°
Article code								
NSAG 05	0,50	0,50	1,00	1,00	0,70	0,50	1,10	0,75
NSAG 1	1,00	1,00	2,00	2,00	1,40	1,00	2,10	1,50
NSAG 2	2,00	2,00	4,00	4,00	2,80	2,00	4,20	3,00

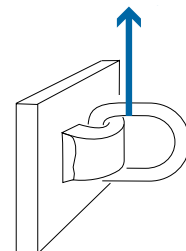
Angle of inclination 0°



Angle of inclination 90°



Angle of inclination not allowed



### 2. Place of installation:

- The attachment points must be mounted such that they can be reached freely and easily to attach and detach loads.
- The attachment points must be mounted such that no safety hazards (bruise, cut, catch or knock spots) are created, which might compromise the attachment points or obstruct transport by protruding.
- The mounting position at the load must be chosen such that the parent material absorbs the introduced forces deformation, which otherwise might result in safety hazards.
- The position at the load must be selected—in consideration of the centre of gravity—such that impermissible loads are avoided and the load cannot change its position unexpectedly during transport.
- The attachment points must be mounted at the load such that the direction of the sling is not changed by other structural components. Potential damage of the sling through structural components such as sharp edges must be precluded.
- The mounting surface at the load should be flat.

### 3. Welding:

- Welding work should only be performed by DIN EN 287-1 certified welders.
- The welding block is made of the well-weldable material 1.4404.
- All welding filling materials must be selected in accordance with the parent materials used. Regarding the allocation of parent materials to filling materials, please refer to EN 1600 for



## Operating instructions

electric welding and to EN 12072 for WIG welding.

- Excessive heating of the ring during welding must be avoided.
- The material cross-section of the welding block must be welded in full length and width.  
The individual layers combined must be at least as thick as the cross-section of the weld-on clevis.
- Tacking and welding must be started at the centre of the welding block.
- Carefully clean the root pass prior to applying the cover seams.
- Do not let the weld between the individual welded seams allow to cool off.

### 4. Application/ inspection:

The attachment points must be:

- inspected after initial mounting and then at least once per year by an expert.
- used by briefed personnel only and the general BGR-regulations (accident prevention regulations) must be observed.
- inspected for functionality, strong corrosion, wear, cracks of the welded seal, deformations, etc., regularly prior to their use.

### 5. Utilisation as load restraint point

If the weldable stainless steel lifting points are used exclusively for restraining loads, the permissible load restraining capacity is twice the load bearing capacity.  $L.C. = 2 \times W.L.L.$  In this context, however, country-specific regulations must be observed. For Germany this is DIN EN 12640, DIN 75410-1 and BGI 649..



## Material Specification

Steel type EN 10027-1	Material number EN 10027-2			
	AISI 304L	AISI 316	AISI 316L	AISI 318LN
	X2CrNi 18-9	X5CrNiMo 17-12-2	X2CrNiMo 17-12-2	X2CrNiMoN 22-5-3
Chemical composition (%)				
C max.	0.03	0.07	0.03	0.03
Cr	17.5 – 19.5	16.5 – 18.5	16.5 – 18.5	21.0 – 23.0
Ni	8.0 – 10.5	10.0 – 13.0	10.0 – 13.0	4.5 – 6.5
Mo	–	2.0 – 2.5	2.0 – 2.5	2.5 – 3.5
others	N ≤ 0.11	N ≤ 0.11	N ≤ 0.11	N 0.10 – 0.22
Mechanical properties				
Strength Rm(Mpa)	500 – 700	500 – 700	500 – 700	650 – 880
Apparent yield point Rp 0.2(Mpa)	> 175	> 200	> 200	> 450
Hardness (Brinell)	> 215	> 215	> 215	> 270
Physical properties				
Magnetisable	no/slightly	no/slightly	no/slightly	yes
Weldable	yes	yes	yes	yes

## Materials

Before raw materials are made into chains and accessories, we carefully select only the best steels that adhere to our strict quality standards. Our products consist of 1.4404 (AISI 316L) (low-magnetic) or of 1.4462 (AISI 318 LN) (magnetic), such as hooks, safety latches, bolts, chains, master links. Safety pins are made of 1.4310 (AISI 302), springs of 1.4571 (AISI 316 TI), identification tags of 1.4301 (AISI 304), ropes of 1.4404 (AISI 316L) and ferrules of 1.4571 (AISI 316 TI). 1.4404 (AISI 316L) and 1.4462 (AISI 318 LN) offer excellent chemical and mechanical advantages.

### Corrosion Resistance

Corroding agent	Concentration	Temperature	AISI 304L	AISI 316	AISI 316L	AISI 318LN
Ethanoic acid CH <sub>3</sub> COOH	50 %	20°C	0	0	0	0
Fatty acid C <sub>17</sub> H <sub>33</sub> COOH	100 %	<150°C	0	0	0	0
Fluorine dry. wet	100 %	20°C 20°C	0 3	0 3	0 3	0 3
Gallic acid C <sub>6</sub> H <sub>2</sub> (OH) <sub>3</sub> COOH	100 %	20°C	0	0	0	0
Iuric acid C <sub>5</sub> H <sub>4</sub> O <sub>4</sub> N <sub>3</sub>	aqueous solution	20°C	0	0	0	0
Urea CO(NH <sub>2</sub> ) <sub>2</sub>	aqueous solution	20°C				
Lactic acid C <sub>3</sub> H <sub>6</sub> O <sub>3</sub>	100 %	20°C	0	0	0	0
Nitrating acid 0%H <sub>2</sub> SO <sub>4</sub> +5%HNO <sub>3</sub>	10 %	110°C	1	0	0	0
Phosphoric acid H <sub>3</sub> PO <sub>4</sub>	<70 % >70 %	20°C	0 1	0 0	0 0	0 0
Nitric acid HNO <sub>3</sub>	<66 % 99 %	20°C	0 1	0 2	0 2	0 2
Hydrochloric acid HCL	0.5 % 2 %	20°C 20°C	1L 3	1L 3	1L 3	1L 3
Sulphuric acid H <sub>2</sub> SO <sub>4</sub>	<5 % 10 % 60 % 60 %	20 °C 20 °C 20 °C 20 °C	1 2 3 3	0 1 2 3	0 1 2 3	0 1 2 3
Tartaric acid COOH(CHOH) <sub>2</sub> COOH	50 % 50 %	0 2	0 1	0 1	0 1	0 1

0 = resistant to surface  
corrosion

1 = slightly affected by  
surface corrosion

2 = low resistance to surface  
corrosion

3 = non-resistant to surface  
corrosion







L = pitting corrosion.  
crevice corrosion or  
stress crack corrosion  
possible



SECTION FOUR

# Load rated Grade 316 stainless steel Fittings



	BRIDCO LR Dee shackles & Bow Shackles	115	
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**BRIDGE & COMPANY PTY LTD**

37 Taree Street  
Burleigh Heads QLD 4220  
Telephone: (07) 55 935 688  
Fax: (07) 55 935 872  
Email: [bridge@bridco.com.au](mailto:bridge@bridco.com.au)  
[www.bridco.com.au](http://www.bridco.com.au)

Currently in stock are Load Rated forged shackles, quick links, eye bolts, & eye nuts.

Batch 'Proof Loading Certificates' are issued with all components containing relevant information regarding the production of the goods. All goods are marked with W.L.L and Batch No: The W.L.L are based on the batch proof test load (at double W.L.L.) All proof loads are tested as point loads, not evenly distributed loads, this gives a truer result.

The ultimate break is well in advance of double the proof load. Due to the nature of stainless steel it is not always possible to give an accurate ultimate break load.

*\*Please note: At time of print, there is no recognised Australian Standard for Stainless Steel Load Rated components. All products based on standards of similar nature.*

## SAMPLE TEST CERTIFICATE



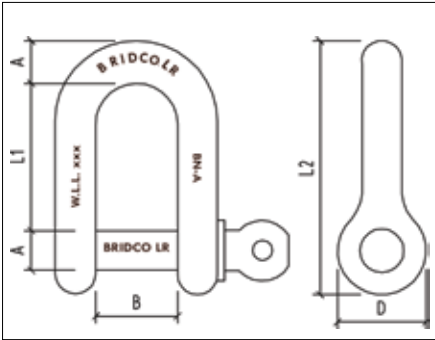
**SLTS** Stainless Lifting & Testing Services

PRODUCT TEST CERTIFICATE			
CERTIFICATE NUMBER: PTC10001		DATE: 26/06/2013	
BRIDGE & COMPANY PTY LTD 37 TARREE STREET BURLEIGH HEADS QLD 4220			
PRODUCT INFORMATION			
Product Code: SS-300F-1CLR		Manufacturer: KONZI	
Material/Grade: STAINLESS 316		Traceability Code: 10623	
Purchase Order: PO10623		Quantity: 500	
TESTING INFORMATION			
WLL: 0.75T		MPF (MN): 15	
BREAKING FORCE (MN): 30		Result: PASS	
TESTING MACHINE			
Machine Manufacturer: Teller AB	Model No: DB 50T	Serial No: E31-060	Last Calibration Date: 19/07/13
SIGN OFF			
Remarks: This test certificate to be kept as long as the product is in use and a minimum of 13 years.			
Name: NATHAN BRIDGE		Position: SALES/TESTING	
Signature: <i>NB</i>		Date: 26/06/13	
<small>Please note: There are very few, if any, standards referring to the load testing of Stainless Steel wire or chain slings. All testing has been conducted to internal procedure which have been created using manufacturers recommendations and in-house research. A copy of these procedures are available on request.</small>			
41 Tarree Street, Burleigh, QLD 4220. Telephone (07) 55 935688 Fax (07) 55 935872 Email: info@slts.com.au <b>Proof Loading &amp; Certifying of Stainless Steel Chain &amp; Wire Rope Assembly's</b>			



This is an image of the 10mm BRIDCO LR shackle of 0.75 Tonne. The proof load for this shackle is 1.5 Tonne.

In our test this particular shackle broke at 5.72 Tonne. You can see the shackle has become elongated and the pin has actually pulled out of the body. This is the nature of stainless steel in that it has high strength but low yield, hence the proof load is well below the actual average break load.

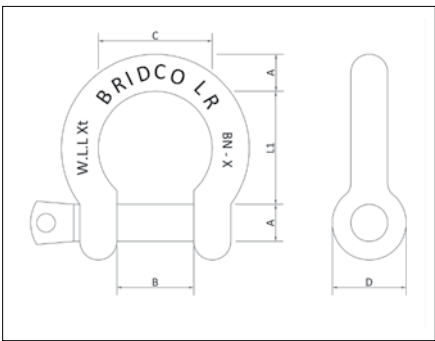


Offset Forged 316  
Stainless Steel  
Safety Factor – 6:1  
AISI 316

LOAD RATED DEE SHACKLE

CODE	A mm	B mm	D mm	L1 mm	WLL t
SS-360F-10LR	10.00	20.50	19.60	35.60	0.75
SS-360F-12LR	12.00	24.50	23.85	42.60	1.25
SS-360F-16LR	16.00	33.20	31.60	57.00	2.00

LOAD RATED BOW SHACKLES



Offset Forged 316  
Stainless Steel  
Safety Factor – 6:1  
AISI 316

BRIDCO LOAD RATED BOW SHACKLES

Code	A mm	B mm	C mm	D mm	L1 mm	WLL t
SS-370F-10LR	10.00	20.50	30.50	19.60	37.30	0.75
SS-370F-12LR	12.00	23.50	35.00	23.75	46.80	1.25
SS-370F-16LR	16.00	32.00	49.50	31.80	60.70	2.00
SS-370F-19LR	19.00	38.00	55.00	38.10	75.00	2.50



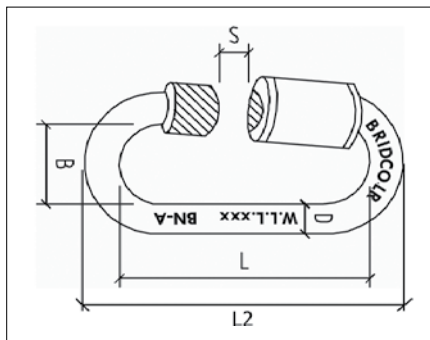
LOAD RATED DEE SHACKLES



## Blank Test Tags AISI 316

CODE	DESCRIPTION	Size
SS-IDTAG-SL-BLANK	Stainless steel I.D tag Single Leg	113 x 48 x 2mm
SS-IDTAG-ML-BLANK	Stainless steel I.D tag Multi Leg	113 x 48 x 2mm

## QUICK LINKS



Safety Factor – 4:1  
AISI 316

## BRIDCO LOAD RATED QUICK LINKS AISI 316

Code	B mm	D mm	L mm	L2 mm	S mm	WLL t
SS-7350-08LR	17.90	8.05	59.30	73.80	10.30	0.75
SS-7350-10LR	21.10	9.80	70.85	89.75	12.7	1.50





Offset Forged 316 Stainless Steel  
Electro Polished for superior  
corrosion resistance  
Safety Factor – 5:1  
AISI 316  
**NOTE: Not recommended for  
overhead lifting. Please refer to  
the section 3 for cromox Grade 60  
Hooks.**

LOAD RATED SPRING HOOK

CODE	Size	Length	Gate Width	WLL (kg)	MBL (kg)
SS-2431X-08LR	8.0	80	16.0	290	1450
SS-2431X-10LR	10.00	100	22.0	570	2850
SS-2431X-12LR	12.00	120	28.0	720	3600

SPRING HOOKS





# STAINLESS STEEL PROOF COIL CHAIN

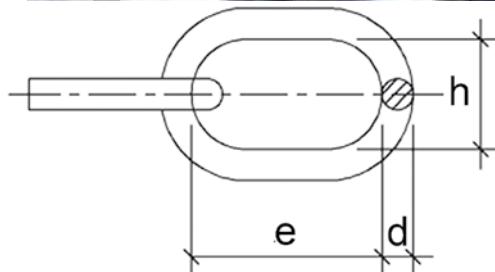
## Features:

Manufactured from AISI 316 Stainless Steel. Bridco PL chain is up 50% stronger than Bridco Commercial Stainless Steel Chain.

Chain has been subjected to a Proof Load half of the MBL

Sizes 1/4" to 1/2"

Chain stamped with batch number & test certificates are available for traceability & conformance purposes.



## PROOF COIL CHAIN

Code	Proof Load (kN)	D (mm)	L (mm)	b (mm)	Drum Size
SS-CHPC-07	19.2	7	30.3	11.8	200M
SS-CHPC-08	25	8	31.9	13.9	200M
SS-CHPC-10	39.2	10	41.2	18.1	100M
SS-CHPC-13	66.3	13	50.1	20	50M

## SHACKLES TO SUIT

Chain	Dee Shackle	Bow Shackle
SS-CHPC-07	SS-360F-10LR	SS-370F-10LR
SS-CHPC-08	SS-360F-10LR	SS-370F-10LR
SS-CHPC-10	SS-360F-12LR	SS-370F-12LR
SS-CPHC-13	SS-360F-16LR	SS-370F-16LR

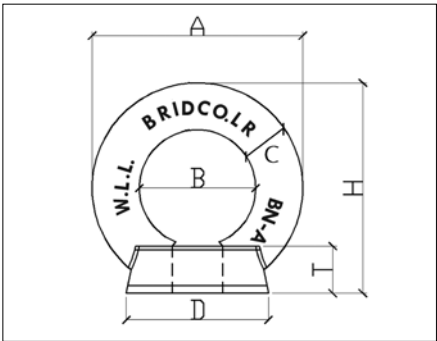
## Suggested applications:

Shade Sails

Dragging chains

Other applications where commercial chain is not suitable.

Note: Chain not rated for overhead lifting applications and is not suitable for permanent immersion.



Drop Forged 316 Stainless Steel  
Safety Factor - 4:1  
AISI 316

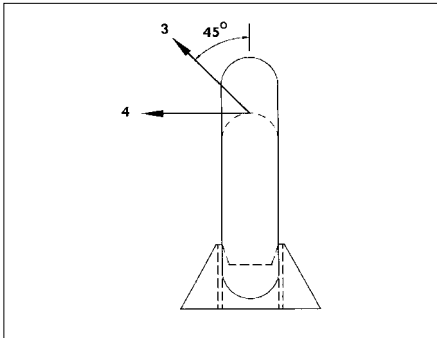
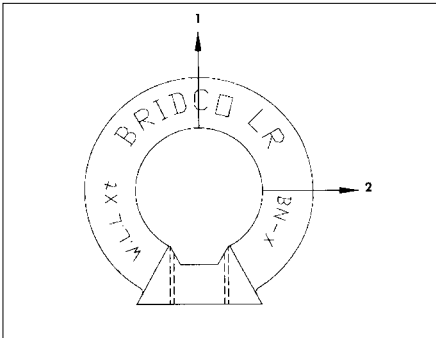
LOAD RATED EYE NUT

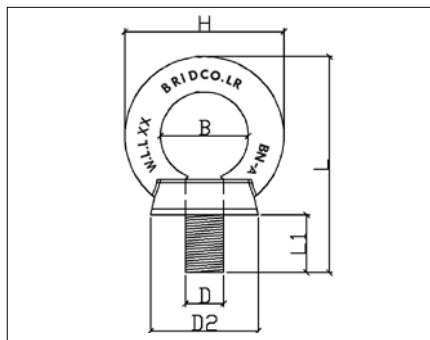
CODE	A mm	B mm	C mm	D mm	H mm	T mm	WORKING LOAD LIMIT DIRECT PULL
SS-582-12LR	53.70	30.00	12.00	29.10	55.70	12.00	1.25t
SS-582-16LR	62.90	35.20	15.00	34.20	64.90	13.80	2.00t
SS-582-20LR	71.60	40.00	15.75	39.50	75.00	15.15	2.75t

LOAD RATED DETAILS FOR SS-582 EYE NUT

CODE	1	2	3	4
	W.L.L. (t)	W.L.L. (t)	W.L.L. (t)	W.L.L. (t)
SS-582-12LR	1.25	0.90	0.25	0.20
SS-582-16LR	2.00	1.00	0.35	0.25
SS-582-20LR	2.75	1.50	0.50	0.40

THE ABOVE WLL'S ARE WITH THE COLLAR SEATED ON A FLAT SURFACE AND WITH THREADS FULLY ENGAGED.





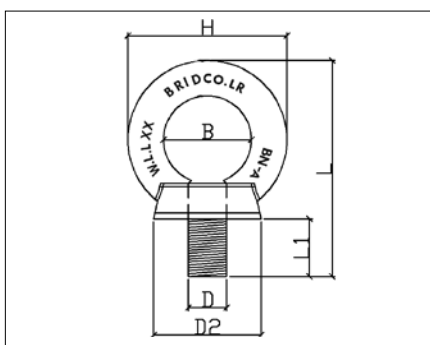
Drop Forged 316 Stainless Steel

Safety Factor - 4:1

AISI 316

**LOAD RATED EYE BOLTS**

CODE	B mm	C mm	D mm	D2 mm	H mm	L mm	L1 mm	WORKING LOAD LIMIT DIRECT PULL
SS-580-12LR	30.00	12.00	M12	29.70	53.75	73.70	19.35	1.25t
SS-580-16LR	35.40	14.00	M16	34.50	62.70	89.50	26.00	2.00t



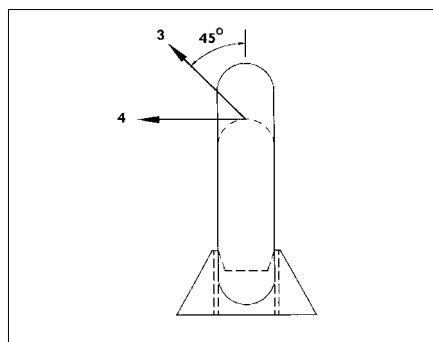
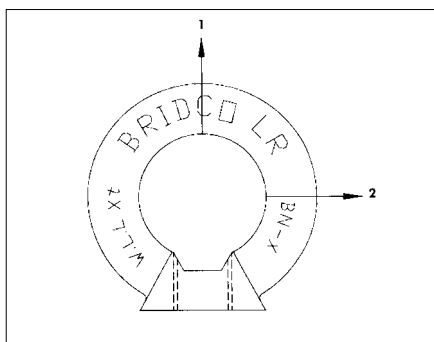
Drop Forged 316 Stainless Steel

Safety Factor - 4:1

AISI 316

**LOAD RATED EYE BOLT**

CODE	B mm	C mm	D mm	D2 mm	H mm	L mm	L1 mm	WORKING LOAD LIMIT DIRECT PULL
SS-580-12120LR	30.00	12.00	M12	29.70	53.75	175.00	120	1.25t
SS-580-16120LR	35.40	14.00	M16	34.45	62.70	184.00	120	2.00t
SS-580-20120LR	39.0	15.00	M20	39.90	70.90	194.00	120	2.75t

**LOAD RATED DETAILS FOR SS-580 EYE BOLT**

CODE	1 W.L.L. (t)	2 W.L.L. (t)	3 W.L.L. (t)	4 W.L.L. (t)
SS-580-12LR	1.25	0.90	0.25	0.20
SS-580-16LR	2.00	1.00	0.35	0.25
SS-580-12120LR	1.25	0.90	0.25	0.20
SS-580-16120LR	2.00	1.00	0.35	0.25
SS-580-20120LR	2.75	1.50	0.50	0.40

THE ABOVE WLL'S ARE WITH THE COLLAR SEATED ON A FLAT SURFACE AND WITH THREADS FULLY ENGAGED.

## High Corrosion Resistance Stainless Steel Bow Shackles with Safety Pin



PETERSEN  
STAINLESS RIGGING LTD

### Product Features

Manufactured from Stainless Steel EN10088 1.4404 (Marine Grade 316)  
Excellent for lifting applications where a high level of corrosion resistance is required  
Factor of Safety 6:1  
Available with 2 pin types - E Type Safety Pin with Standard Nut (E Type) or Nyloc Nut (E Type-NY)  
Special design of bolt ensures the nut is positioned correctly allowing sufficient room for the cotter pin

### Typical Applications

Water utility installations & other corrosive facilities  
Pump chains and pump lifting  
Chemical installations - Chlorine plants etc  
General lifting in off-shore applications  
General lifting and tethering in leisure marine applications  
General lifting purposes

### Quality Features

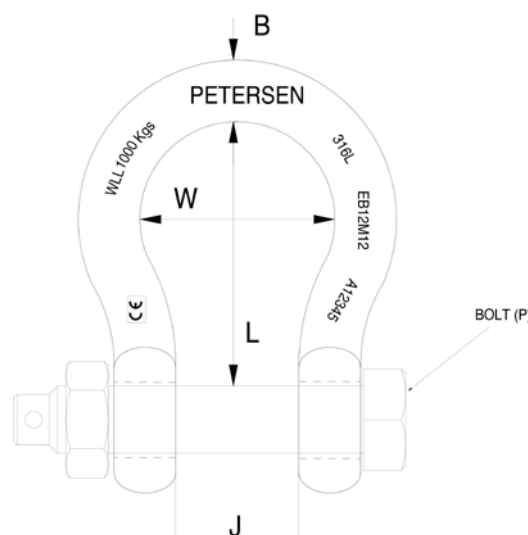
Every shackle is proof tested to 2 x WLL and certified at our manufacturing facility in the North East of England  
All shackles are manufactured in accordance with the Machine Directive 2006/42/EC Inspection certificate BS EN 10204 3.1b available on request  
High quality finish and excellent polish  
Manufactured using the latest technology in electrical upset forging



Bow Shackle



Pin



### DIMENSIONS & WLL

Part Number	WLL (t)	Bolt Size (P)	Body Dia (B)	Inside Bow (W)	Jaw Gap (J)	Length (L)	Weight (kg)
PE-EB8M8	0.4	M8 Bolt	8.0	25.0	16.0	35.0	0.081
PE-EB10M10	0.6	M10 Bolt	9.5	28.0	19.0	38.0	0.147
* EB11M12	0.8	M12 Bolt	11.5	33.0	22.0	46.0	0.221
PE-EB12M12	1.0	M12 Bolt	12.7	38.0	26.0	52.0	0.354
PE-EB14M16	1.5	M16 Bolt	14.3	43.0	29.0	60.0	0.635
PE-EB16M20	2.5	M20 Bolt	16.0	50.0	32.0	68.0	0.805
PE-EB19M22	3.0	M22 Bolt	19.0	58.0	38.0	76.0	1.25
PE-EB22M24	4.0	M24 Bolt	22.0	66.0	44.0	88.0	1.82
PE-EB24M27	4.5	M27 Bolt	25.4	76.0	50.0	100.0	2.70

\*Not stocked. Available on Request.

## High Corrosion Resistance Stainless Steel Dee Shackles with Safety Pin



PETERSEN  
STAINLESS RIGGING LTD

### Product Features

Manufactured from Stainless Steel EN10088 1.4404 (Marine Grade 316)  
Excellent for lifting applications where a high level of corrosion resistance is required  
Factor of Safety 6:1  
Available with 2 pin types - E Type Safety Pin with Standard Nut (E Type) or Nyloc Nut (E Type-NY)  
Special design of bolt ensures the nut is positioned correctly allowing sufficient room for the cotter pin

### Typical Applications

Water utility installations & other corrosive facilities  
Pump chains and pump lifting  
Chemical installations - Chlorine plants etc  
General lifting in off-shore applications  
General lifting and tethering in leisure marine applications  
General lifting purposes

### Quality Features

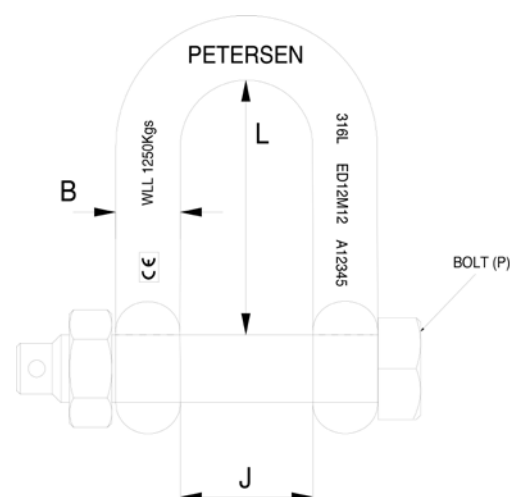
Every shackle is proof tested to 2 x WLL and certified at our manufacturing facility in the North East of England  
All shackles are manufactured in accordance with the Machine Directive 2006/42/EC Inspection certificate BS EN 10204 3.1b available on request  
High quality finish and excellent polish  
Manufactured using the latest technology in electrical upset forging



Dee Shackle



Pin



### DIMENSIONS & WLL

Part Number	WLL (t)	Bolt Size (P)	Body Dia (B)	Jaw Gap (J)	Length (L)	Weight (kg)
* ED8M8	0.5	M8 Bolt	8.0	16.0	32.0	0.075
* ED10M10	0.8	M10 Bolt	9.5	19.0	38.0	0.136
* ED11M12	1.0	M12 Bolt	11.5	22.0	44.0	0.212
* ED12M12	1.25	M12 Bolt	12.7	26.0	52.0	0.331
* ED14M16	1.8	M16 Bolt	14.3	29.0	58.0	0.585
* ED16M20	2.8	M20 Bolt	16.0	32.0	64.0	0.760
* ED19M22	3.3	M22 Bolt	19.0	38.0	76.0	1.18
* ED22M24	4.5	M24 Bolt	22.0	44.0	88.0	1.75
PE-ED25M27	5.0	M27 Bolt	25.4	50.0	100.0	2.60

\*Not stocked. Available on Request.



## High Tensile Stainless Steel Bow Shackles with Safety Pin

### Product Features

Manufactured from 17/4PH precipitation hardening martensitic stainless steel  
Excellent for general lifting applications - high tensile properties while avoiding work hardening

Corrosion resistance similar to 18/8 grade steels

Factor of Safety 6:1

Available with 4 pin types - Standard Screw Collar Pin (A Type), Extended Screw Collar Pin (AL Type), Countersunk Head (B Type), E Type Safety Pin (E Type)

Manufactured using the latest technology in electrical upset forging



PETERSEN  
STAINLESS RIGGING LTD

### Typical Applications

General lifting in off-shore applications  
General lifting and tethering in leisure marine applications  
General lifting purposes

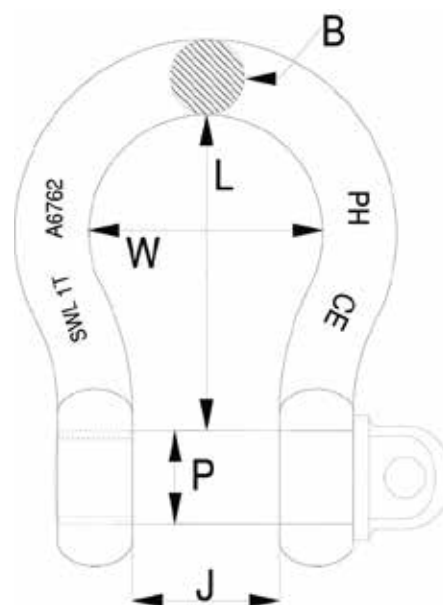
### Quality Features

Every shackle is proof tested to 2 x WLL and certified at our manufacturing facility in the North East of England

All shackles are manufactured in accordance with the Machine Directive 2006/42/EC Inspection certificate BS EN 10204 3.1b available on request

High quality finish and excellent polish

Manufactured using the latest technology in electrical upset forging



Type A Pin



Type AL Pin

Part Number		DIMENSIONS & WLL						
Type A	Type AL	WLL (t)	Pin Dia(P)	Body Dia (B)	Inside Bow (W)	Jaw Gap (J)	Length (L)	Weight (kg)
* PHB008TA	PE-PHB008TAL	0.8	10.0	8.0	24.0	16.0	32.0	0.090
* PHB015TA	PE-PHB015TAL	1.5	12.7	10	30.0	20.0	40.0	0.158
* PHB025TA	PE-PHB025TAL	2.5	16.0	12.7	38.0	25.0	50.0	0.368
* PHB040TA	* PHB040TAL	4.0	19.0	16.0	48.0	32.0	64.0	0.578
* PHB055TA	* PHB055TAL	5.5	22.2	19.0	57.0	38.0	76.0	1.050
* PHB075TA	* PHB075TAL	7.5	25.4	22.2	66.0	44.0	88.0	1.995
* PHB090TA	* PHB090TAL	9.0	28.6	25.4	76.0	51.0	102.0	3.045
* PHB110TA	* PHB110TAL	11.0	31.8	28.6	86.0	57.0	114.0	3.255
* PHB130TA	* PHB130TAL	13.0	34.9	31.8	95.0	64.0	128.0	4.568
* PHB150TA	* PHB150TAL	15.0	38.0	34.9	105.0	70.0	140.0	5.565

\*Not stocked. Available on Request

## High Tensile Stainless Steel Bow Shackles with Safety Pin

### Product Features

Manufactured from 17/4PH precipitation hardening martensitic stainless steel  
Excellent for general lifting applications - high tensile properties while avoiding work hardening

Corrosion resistance similar to 18/8 grade steels

Factor of Safety 6:1

Available with 4 pin types - Standard Screw Collar Pin (A Type), Extended Screw Collar Pin (AL Type), Countersunk Head (B Type), E Type Safety Pin (E Type)

Manufactured using the latest technology in electrical upset forging

### Quality Features

Every shackle is proof tested to 2 x WLL and certified at our manufacturing facility in the North East of England

All shackles are manufactured in accordance with the Machine Directive 2006/42/EC Inspection certificate BS EN 10204 3.1b available on request

High quality finish and excellent polish

Manufactured using the latest technology in electrical upset forging



PETERSEN  
STAINLESS RIGGING LTD

### Typical Applications

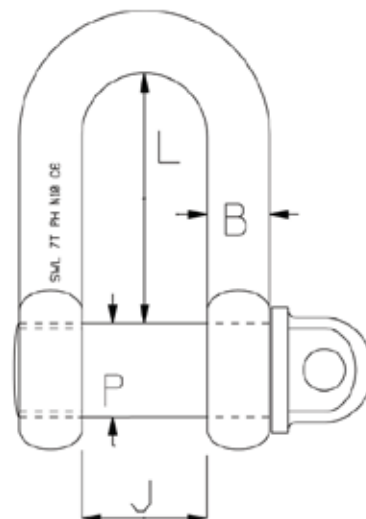
General lifting in off-shore applications  
General lifting and tethering in leisure marine applications  
General lifting purposes



Type A Pin



Type AL Pin





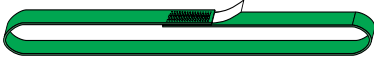



Part Number		DIMENSIONS & WLL					
Type A	Type AL	WLL (t)	Pin Dia(P)	Body Dia (B)	Jaw Gap (J)	Length (L)	Weight (kg)
* PH1TA	* PH1TAL	1.0	10.0	8.0	16.0	32.0	0.085
* PH2TA	* PH2TAL	2.0	12.7	10	20.0	40.0	0.150
* PH3TA	* PH3TAL	3.0	16.0	12.7	25.0	50.0	0.350
PE-PH5TA	* PH5TAL	5.0	19.0	16.0	32.0	64.0	0.550
PE-PH7TA	* PH7TAL	7.0	22.2	19.0	38.0	76.0	1.000
PE-PH9TA	* PH9TAL	9.0	25.4	22.2	44.0	88.0	1.900
PE-PH11TA	* PH11TAL	11.0	28.6	25.4	51.0	102.0	2.900
PE-PH13TA	* PH13TAL	13.0	31.8	28.6	57.0	114.0	3.100
* PH15TA	* PH15TAL	15.0	34.9	31.8	64.0	128.0	4.350
* PH18TA	* PH18TAL	18.0	38.0	34.9	70.0	140.0	5.300

\*Not stocked. Available on Request

# Shackles & Rigging Hardware

Bridco stock a range of Alloy shackles, eye bolts, eye nuts and turnbuckles.

PAGE

	Shackles Product Information	126	
	Grade 'S' Shackles	128 - 129	
	Synthetic Slings	130 - 131	
	Rigging Screws	132 - 133	
	Eye Bolts & Nuts	134 - 135	
	Thimbles & Grips	136	

**BRIDGE & COMPANY PTY LTD**

37 Taree Street  
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Telephone: (07) 55 935 688  
Fax: (07) 55 935 872  
Email: [bridge@bridco.com.au](mailto:bridge@bridco.com.au)  
[www.bridco.com.au](http://www.bridco.com.au)

## SHACKLES PRODUCT INFORMATION

### SHACKLE INFORMATION

Shackles are used in lifting and static systems as removable links to connect (steel) wire rope, chain and other fittings.

Screw pin shackles are used mainly for non-permanent applications.

Safety pin shackles are used for long-term or permanent applications or where the load may slide on the pin causing rotation of the pin.

Dee shackles are mainly used on one-leg systems whereas anchor or bow shackles are mainly used on multi-leg systems.

Shackles should be inspected before use to ensure that:

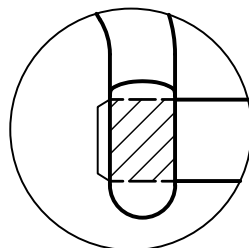
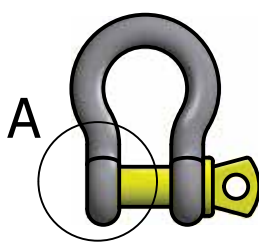
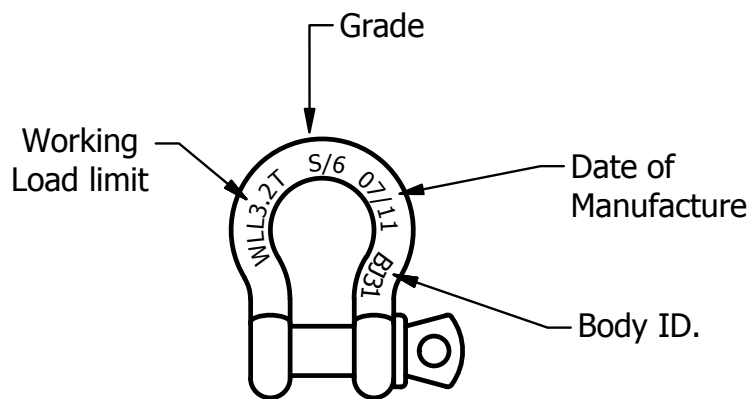
- › All markings are legible
- › The threads of the pin and the body are undamaged
- › The body and the pin are not distorted or unduly worn
- › The body and pin are free from nicks, gouges, cracks and corrosion
- › Shackles may not be heat treated as this may affect their Working Load Limit
- › Never use a safety bolt type shackle without using the split cotter pin
- › Never modify, repair or reshape a shackle by welding, heating or bending as this will affect the Working Load Limit (W.L.L).



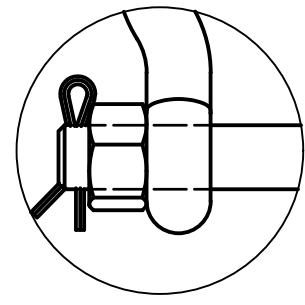
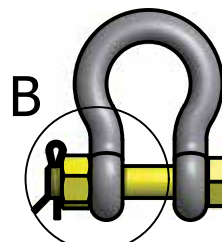
## GRADE 'S' SHACKLES

Grade S Shackles are a rated shackle that meet the requirement of AS 2741. Grade 'S' shackles are recommended where high strength is required such as lifting, towing and 4WD applications.

- › Available in both Dee and Bow configurations
- › Available in both Screw pin and Safety Pin type – see detail A and B for more information
- › Because the pin holds more load than the body, the pin diameter is larger than the body diameter
- › For the same W.L.L, they are smaller than Grade 'M'
- › Grade 'S' shackles come in two colour configurations:
  - Standard Grade 'S': Yellow pin
  - Colour Coded Grade 'S': Body and pin colour coded for easy match to components
- › The Body ID and date of Manufacture = the Batch ID



Detail A  
Screw Pin



Detail B  
Safety Pin

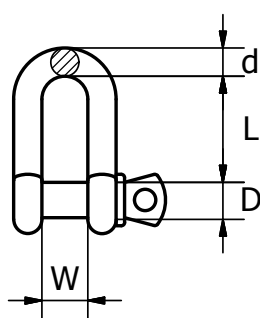


## YELLOW PIN GRADE 'S' SHACKLES

## YELLOW PIN GRADE 'S' SCREW PIN SHACKLES TO AS 2741

*Chain Dee Type - Capacities 0.5 - 35 tonne*

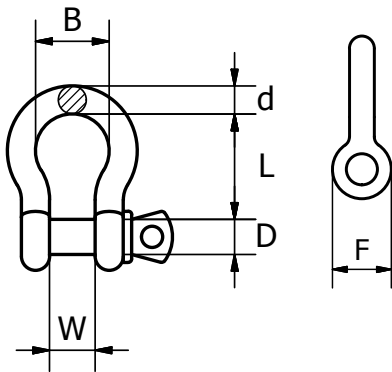
Code	Size mm	W.L.L Tonne	Type	Shape	Closing Method	DIA d mm	DIA PIN D mm	Inside Width W mm	Inside Length L mm	DIA Boss F mm	Approx Weight Kg	UOM
AL-504010	10x11	1.0	Grade S	Dee	Screw	10	11	17	37	25	0.14	Each
AL-504011	11x13	1.5	Grade S	Dee	Screw	11	13	18	43	27	0.17	Each
AL-504013	13x16	2.0	Grade S	Dee	Screw	13	16	21	48	33	0.29	Each
AL-504016	16x19	3.2	Grade S	Dee	Screw	16	19	27	61	40	0.63	Each
AL-504019	19x22	4.7	Grade S	Dee	Screw	19	22	32	72	48	1.02	Each
AL-504022	22x25	6.5	Grade S	Dee	Screw	22	25	37	84	54	1.53	Each
AL-504025	25x29	8.5	Grade S	Dee	Screw	25	29	43	95	60	2.41	Each
AL-504029	29x32	9.5	Grade S	Dee	Screw	29	32	46	108	67	3.09	Each
AL-504032	32x35	12.0	Grade S	Dee	Screw	32	35	52	119	76	4.31	Each
AL-504035	35x38	13.5	Grade S	Dee	Screw	35	38	57	113	84	6.01	Each



Also available in a safety pin style.

**YELLOW PIN GRADE 'S' SCREW PIN SHACKLES TO AS 2741***Anchor Bow Type - Capacities 0.33 - 55 tonne*

Code	Size mm	W.L.L Tonne	Type	Shape	Closing Method	DIA d mm	DIA PIN D mm	Inside Width W mm	Inside Length L mm	Width of Bow B mm	DIA Boss F mm	Approx Weight Kg	UOM
AL-503010	10x11	1.0	Grade S	Bow	Screw	10	11	17	37	26	25	0.14	Each
AL-503011	11x13	1.5	Grade S	Bow	Screw	11	13	18	43	29	27	0.17	Each
AL-503013	13x16	2.0	Grade S	Bow	Screw	13	16	21	48	33	33	0.29	Each
AL-503016	16x19	3.2	Grade S	Bow	Screw	16	19	27	61	43	40	0.63	Each
AL-503019	19x22	4.7	Grade S	Bow	Screw	19	22	32	72	51	48	1.02	Each
AL-503022	22x25	6.5	Grade S	Bow	Screw	22	25	37	84	58	54	1.53	Each
AL-503025	25x29	8.5	Grade S	Bow	Screw	25	29	43	95	68	60	2.41	Each
AL-503029	29x32	9.5	Grade S	Bow	Screw	29	32	46	108	74	67	3.09	Each
AL-503032	32x35	12.0	Grade S	Bow	Screw	32	35	52	119	83	76	4.31	Each
AL-503035	35x38	13.5	Grade S	Bow	Screw	35	38	57	113	92	84	6.01	Each



Also available in a safety pin style.

## POLYESTER ROUND SLINGS & FLAT WEBBING SLINGS

Round Slings Manufactured to AS 4497.1.1 Flat Slings Manufactured to AS 1353.1

All Flat and Round Slings are Fully Tested  Test Certificate Supplied With All Slings		ROUND SLINGS Comply to AS4497.1										
		FLAT SLINGS Comply to AS1353.1										
		L - LOAD FACTOR		L - 1.0	L - 0.8	L - 2.0	L - 1.7	L - 1.4	L - 1.0	L - 1.7	L - 1.38	L - 1.38
ROUND SLINGS Code	FLAT SLINGS Code	Colour Code	W.L.L. Tonnes	Vertical W.L.L. Tonnes	Choke S.W.L. Tonnes	Basket S.W.L. Tonnes	60° S.W.L. Tonnes	90° S.W.L. Tonnes	120° S.W.L. Tonnes	60° S.W.L. Tonnes	60° Choke S.W.L. Tonnes	60° Choke S.W.L. Tonnes
MRS1000	FS-2-1000	Violet	1.0	1.0	0.8	2.0	1.73	1.41	1.0	1.73	1.38	1.38
MRS2000	FS-2-2000	Green	2.0	2.0	1.3	4.0	3.46	2.82	2.0	3.46	2.76	2.76
MRS3000	FS-2-3000	Yellow	3.0	3.0	2.4	6.0	5.19	4.23	3.0	5.19	4.14	4.14
MRS4000	FS-2-4000	Grey	4.0	4.0	3.2	8.0	6.92	5.63	4.0	6.92	5.52	5.52
MRS5000	FS-2-5000	Red	5.0	5.0	4.0	10.0	8.65	7.05	5.0	8.65	6.90	6.90
MRS6000	FS-2-6000	Brown	6.0	6.0	4.8	12.0	10.38	8.46	6.0	10.38	8.28	8.28
MRS8000	FS-2-8000	Blue	8.0	8.0	6.4	16.0	13.84	11.28	8.0	13.84	11.4	11.4
MRS10000	FS-2-10000	Orange	10.0	10.0	8.0	20.0	17.30	14.10	10.0	17.30	13.80	13.80

### CARE AND USE

1. Check Australian Standard AS 4497.1 and AS 1353.1 for use and inspection guidelines.
2. Never overload the equipment.
3. Do not use if ID tag is removed.
4. Inspect sling for damage prior to use.
5. Do not use sling if there is any sign of cut webbing, snagging, heat or chemical damage, excessive wear, damaged seams, any other defect or presence of grit, abrasive materials or other deleterious matter.
6. Do not tie knots in sling webbing.
7. Protect sling webbing from sharp edges of load. Use protective sleeves.
8. Do not expose slings to temperatures above 90°C.
9. Do not allow abrasive or other damaging grit to penetrate the fibres.
10. Consult with manufacturer's recommendations before immersing a sling in a chemical solution.
11. Keep away from strong alkalis and phenolic compounds.



Flat Slings commonly known as webbing slings are an all-purpose lifting sling enabling a strong and non-damaging lift of a load. They are extremely light in weight and flexible. Flat Slings are a continuous length made from polyester webbing sewn into a continuous length with an eye at each end. When used they cover a broad support area, which cushions the load against damage and reduces slipping. The low stretch characteristics of the polyester webbing also prevent 'load bounce' when hoisting very heavy weights.

- › Manufactured to AS 1353.1
- › Test Certificate available on request
- › Available in various lengths from 0.5m to 12.0m

Round slings are an all-purpose lifting sling enabling a strong and non-damaging lift of its load. They are extremely light in weight and flexible in multiple directions, allowing easy and quick manipulation even when fragile loads are being lifted. Round Slings are a continuous loop made from polyester yarn encased in a sleeve of polyester or nylon fabric. The sleeve is constructed so it protects the internal rows of yarn filament and keeps them in a parallel formation at all times.

The yarn fibre (core) is free to spread out where the round sling is in contact with its load. This provides a broad support, which cushions the load against damage and reduces slipping. The low stretch characteristics of the polyester yarn also prevent 'load bounce' when hoisting very heavy weights.

- › Manufactured to AS 4497.1
- › Test Certificate available on request
- › Available in various lengths from 0.5m to 15.0m

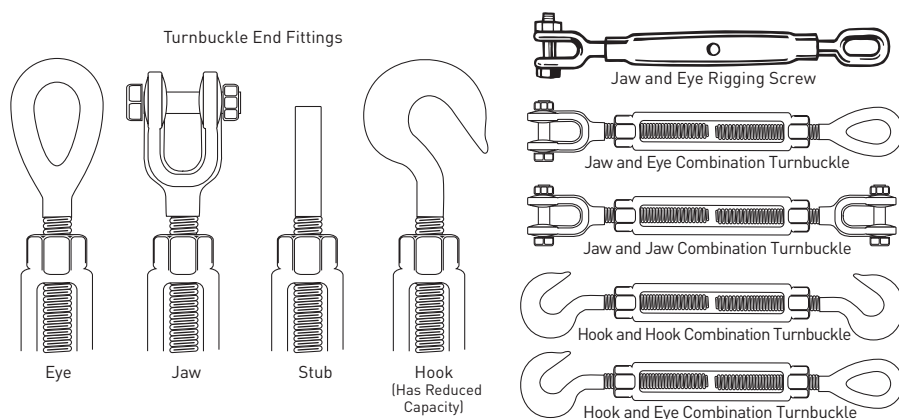


## RIGGING SCREWS

### RATED RIGGING HARDWARE

Rated Rigging Hardware complies with a number of different standards. They have a working load limit (W.L.L) and are rated for lifting applications. Bridco's range of quality rigging hardware is manufactured from the finest milling techniques and designed for both heavy industry use and general hardware applications.

### RIGGING SCREWS AND TURNBUCKLES



### JAW AND JAW TURNBUCKLES GRADE P

*Tested Hot Dipped Galvanised*

Code	Size mm	Finish	e Open mm	e Closed mm	L mm	D1 mm	D2 mm	D3 mm	G mm	H mm	W.L.L Tonne	Pack Qty	Weight Per 100 (kg)	UOM
327310	10	Galvanised	359	259	152	21	10	8	11	25	0.3	100	38	Each
327313	13	Galvanised	465	369	229	25	13	11	14	36	0.5	50	75	Each
327316	16	Galvanised	523	393	229	27	16	14	18	40	0.75	30	130	Each
327320	20	Galvanised	563	413	229	34	20	17	25	55	1.25	20	185	Each
327324	24	Galvanised	786	589	356	42	24	20	26	57	2.5	10	380	Each
327333	33	Galvanised	830	645	381	51	33	25	34	64	5	5	680	Each
327338	38	Galvanised	870	655	407	57	38	27	38	75	6	3	1000	Each

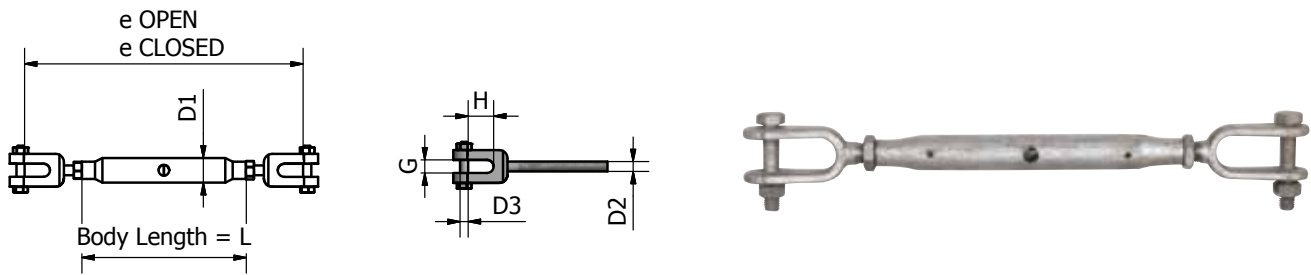


RIGGING SCREWS

JAW AND JAW RIGGING SCREWS WITH LOCKNUTS GRADE P

Tested Hot Dipped Galvanised, AS3219

Code	Size mm	Grade	e Open mm	e Closed mm	L mm	D1 mm	D2 mm	D3 mm	G mm	H mm	W.L.L Tonne	Weight (kg)	UOM
AL-407010	10	P	349	235	152	21	10	8	11	21	0.6	0.48	Each
AL-407013	12	P	524	343	229	25	13	9	19	35	1.0	0.98	Each
AL-407016	16	P	550	361	229	27	16	13	22	51	1.6	1.4	Each
AL-407020	20	P	550	387	229	34	20	16	22	48	2.5	2.3	Each
AL-407024	24	P	822	556	356	42	24	22	32	65	4	4.85	Each

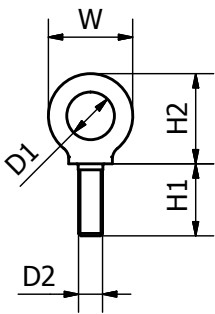
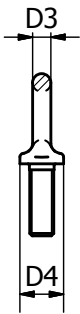


EYE BOLTS

METRIC SHOULDERED EYEBOLTS DIN 580

Zinc Plated Finish, Conforms to DIN 580

Code	Size mm	Finish	W mm	H1 mm	H2 mm	D1 mm	D2 mm	D3 mm	D4 mm	W.L.L Tonne	Pack Qty	Weight Per 100 (kg)	UOM
AL-601008	8	Zinc Plated	36	13	36	20	8	8	20	0.14	400	6	Each
AL-601010	10	Zinc Plated	45	17	45	25	10	10	25	0.23	180	11	Each
AL-601012	12	Zinc Plated	54	20.5	52	30	12	12	30	0.34	110	18	Each
AL-601016	16	Zinc Plated	63	27	61	35	16	14	35	0.7	80	28	Each
AL-601020	20	Zinc Plated	72	30	70	40	20	16	40	1.2	50	45	Each
AL-601022	22	Zinc Plated	81	35	80	45	22	18	45	1.5	30	67	Each
AL-601024	24	Zinc Plated	90	36	90	50	24	20	50	1.8	20	87	Each
AL-601030	30	Zinc Plated	108	45	110	60	30	24	65	3.6	4	166	Each
AL-601036	36	Zinc Plated	126	54	130	70	36	28	75	5.1	4	265	Each

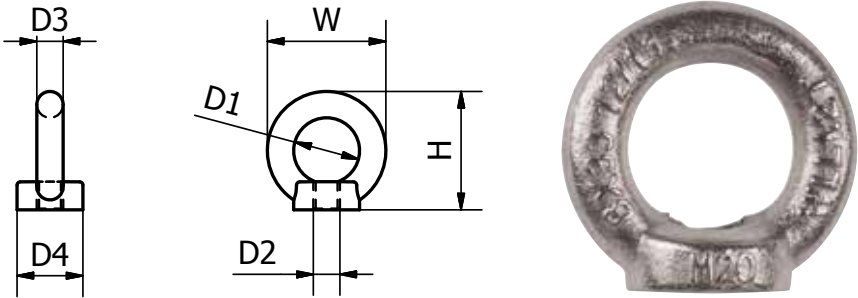


EYE NUTS

METRIC SHOULDERED EYE NUTS TO DIN 582

Zinc Plated Finish. Conforms to DIN 580 and DIN 582

Code	Size mm	Finish	W mm	H mm	D1 mm	D2 mm	D3 mm	D4 mm	W.L.L Tonne	Pack Qty	Weight Per 100 (kg)	UOM
AL-602008	8	Zinc Plated	36	36	20	8	8	20	0.14	400	5	Each
AL-602010	10	Zinc Plated	45	45	25	10	10	25	0.23	180	9	Each
AL-602012	12	Zinc Plated	54	52	30	12	12	30	0.34	110	16	Each
AL-602016	16	Zinc Plated	63	61	35	16	14	35	0.7	80	24	Each
AL-602020	20	Zinc Plated	72	70	40	20	16	40	1.2	50	36	Each
AL-602022	22	Zinc Plated	81	80	45	22	18	45	1.5	30	58	Each
AL-602024	24	Zinc Plated	90	90	50	24	20	50	1.8	20	72	Each

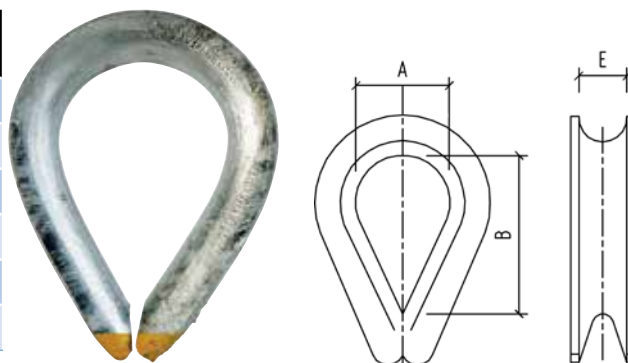


## GALVANISED THIMBLES AS 1138

### AS THIMBLES

*Hot Dipped Galvanised, Conforms to AS 1138*

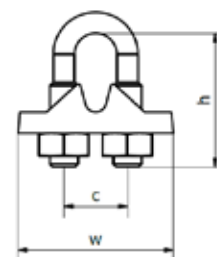
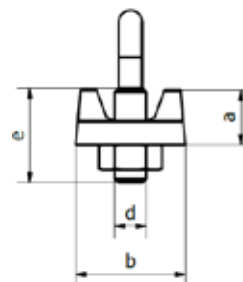
Code	Size mm	E mm	A mm	B mm	Pack Qty	UOM
AL-302506	6	7	16	25	400	Each
AL-302508	8	7.9	22	33	400	Each
AL-302510	10	10.3	25	38	400	Each
AL-302512	12	14.3	32	44	80	Each
AL-302516	16	15.9	41	59	75	Each
AL-302520	20	21.6	52	75	30	Each



### WIRE ROPE GRIPS AS 2076

*Hot Dipped Galvanised, Conforms to AS 2076*

Code	Size mm	c mm	h mm	w mm	e mm	d mm	b mm	a mm	Weight kg	UOM
AL-301506	6	14	26	28	20	M6	15	13	0.040	Each
AL-301508	8	18	34	34	22	M8	19	14.5	0.069	Each
AL-301510	10	20	40	42	27	M10	23	17	0.120	Each
AL-301512	12	22.3	48	50	32	M12	28	20	0.132	Each
AL-301514	14	27	52	52	38	M14	32	22	0.223	Each
AL-301516	16	31	64	66	41	M16	32	26	0.351	Each
AL-301520	20	43	88	89	58	M20	46	36	0.980	Each





## SECTION SIX

# Stainless Steel Modular Handrail Systems



### PAGE

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## STAINLESS STEEL FACTS

This catalogue contains a comprehensive range of quality stainless steel modular railing systems, suitable for both interior and exterior applications as well as commercial and residential projects.

**GRADES:** There are many grades of stainless steel, the majority of items in this catalogue are grade 316 with some products in grade 304.

**GRADE 304:** Ideally suited to indoor use only, has good corrosion resistance and is one of the most commonly used grades of stainless steel.

**GRADE 316:** Has a higher level of corrosion resistance, therefore is most suitable to outdoor applications and for exposed coastal applications. The grade 316 is often referred to as "marine grade".

**Tea staining:** Tea staining can be defined as: discoloration of the surface of stainless steel that does not effect the structural integrity or the longevity of the material.

**Contributing factors...** and what can be done about them.

The relationships between the contributing factors are complex, but generally become increasingly critical closer to marine water.

### Environmental factors:

Tea staining occurs most commonly within about 5 kilometers from the surf and becomes progressively worse closer to the marine source. However, wind exposure, pollution levels and high temperatures can create environments where tea staining might occur 20 kilometers or more from the sea water. These same factors also increase corrosion rates of alternative materials.

### Surface finish:

Rough surface finishes promote tea staining: The smoother the surface finish the better. A surface roughness (Ra) of less than 0.5 micrometers is strongly recommended, a No:4 finish is inadequate. Typically the products in this catalogue are 320 grit or higher which achieves

a finish better than 0.5 micrometers (Ra).

### Maintain regularly:

Stainless steel is not maintenance free, but maintenance friendly. When using stainless steel material outdoors you need to clean periodically, especially in aggressive environments like coastal areas or swimming pools. Washing regularly will reduce the risk of tea staining. For best results wash with soap or a mild detergent and warm water, followed by rinsing with cold water. The appearance of the surface can be improved further if the washed surface is wiped dry.

We recommend Bridco B40 cleaner and B42 polish for the best maintenance results.

*\* Material Data sheets are provided with B40 & B42.*

### Installation and inspection:

After installation the completed structure should be washed and inspected for imperfections or contaminant's caused by the installation process. If discovered any imperfections should be cleaned off and polished with Bridco B40, followed by B42 polish. Hydrochloric acid should not be used on stainless steel as it will stain the surface and may start more serious corrosion.

The above notes have been researched by the Australian Stainless Steel Development Association (ASSDA) of which BRIDCO is a member.

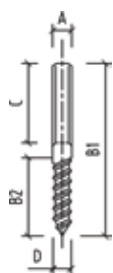
Bridco will not be held responsible for any replacements at the time of publication. We recommend checking dimensions with our sales staff before purchasing Bridco products.

Bridco will not be held responsible for any errors, omissions or changes in dimensions at the time, or after publication of this catalogue.



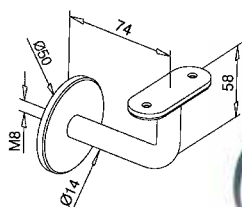


Although all care has been taken in the preparation and publication of this catalogue, the technical information including dimensions in illustrations, drawings and charts are non binding. Bridco does not accept any responsibility for any typographical or other errors which may have occurred during the

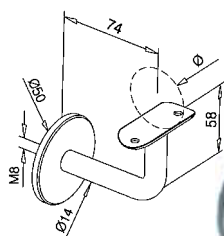
**RIGHT DOUBLE THREADED COACH SCREWS**

CODE	A	B1	B2	C	D
SS-78311-08	M8	100	47	40	8

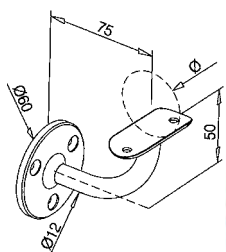
The above item is required for securing wall mounted Handrail brackets.  
1 coach screw per bracket.

**FIXED BOLT MOUNT – FLAT RAIL**

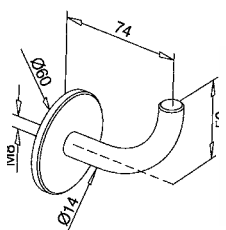
CODE	RAIL DIA MM	FINISH
AN-143224000G	FLAT	SATIN

**FIXED BOLT MOUNT – ROUND RAIL**

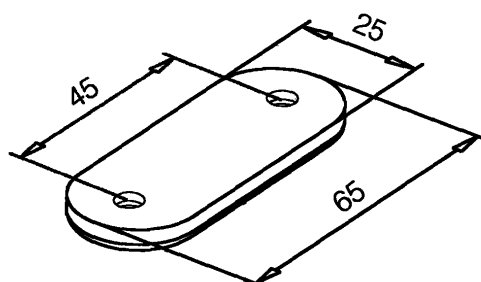
CODE	RAIL DIA MM	FINISH
AN-143224048G	48.3 - 50.8	SATIN

**FIXED WALL MOUNT – ROUND RAIL**

CODE	RAIL DIA MM	FINISH
AN-140112048G	48.3 - 50.8	SATIN

**BOLT MOUNT – WELDED RAIL**

CODE	DESCRIPTION	FINISH
AN-140114000G *	WALL BRACKET	SATIN







CODE	RAIL DIA MM	FINISH
AN-140117000G	FLAT	SATIN
AN-140117000MG	FLAT	MIRROR



CODE	RAIL DIA MM	FINISH
AN-140117048G	48.3 - 50.8	SATIN
AN-140117048MG	48.3 - 50.8	MIRROR

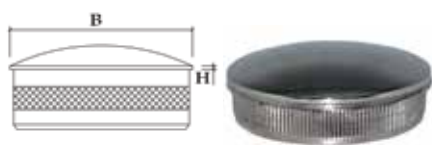


CODE	TUBE DIA MM	FINISH
AN-140708000G	FLAT	SATIN



CODE	TUBE DIA MM	FINISH
AN-140708048G	48.3 - 50.8	SATIN

The following tube fittings are for use with 50.8mm/2" tube.



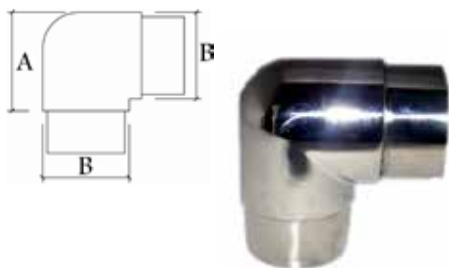
**RAIL END CAP – ARCHED**

CODE	TUBE	WALL (mm)	B (mm)	H (mm)	FINISH
SR-EC-50	2"	1.6	50.8	2	MIRROR
SR-EC-50S	2"	1.6	50.8	2	SATIN



**FLUSH ELBOW – ADJUSTABLE**

CODE	TUBE	WALL (mm)	A (mm)	B (mm)	RAIL (mm)	FINISH
SR-AE-50	2"	1.6	57	50.8	1.6	MIRROR



**FLUSH ELBOW – FIXED – 90 DEGREE**

CODE	TUBE	WALL (mm)	A (mm)	B (mm)	RAIL (mm)	FINISH
SR-FE-50	2"	1.6	57	50.8	1.6	MIRROR



**FLUSH JOINER – IN LINE**

CODE	TUBE	WALL (mm)	A (mm)	B (mm)	FINISH
SR-FJ-50	2"	1.6	54	50.8	MIRROR

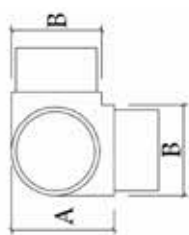


**HANDRAIL – END 90 DEGREE**

CODE	TUBE	WALL (mm)	A (mm)	B (mm)	C (mm)	FINISH
SR-HE90D-50	2"	1.6	89	50.8	89	MIRROR

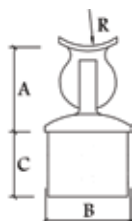


The following tube fittings are for use with 50.8mm/2" tube.



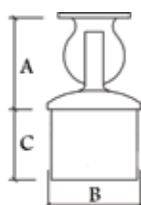
#### FLUSH JOINER TEE – 90 DEGREE

CODE	TUBE	WALL (mm)	A (mm)	B (mm)	FINISH
SR-FJT90-50	2"	1.6	57	50.8	MIRROR



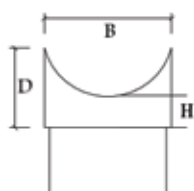
#### RAIL SUPPORT – ADJUSTABLE – FOR ROUND HANDRAIL

CODE	TUBE	WALL (mm)	A (mm)	B (mm)	C (mm)	R (mm)	FINISH
SR-ARS-50	2"	1.6	51	50.8	32	50.8	MIRROR



#### RAIL SUPPORT – ADJUSTABLE – FOR FLAT HANDRAIL

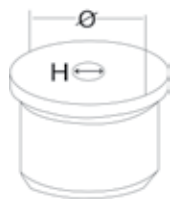
CODE	TUBE	WALL (mm)	A (mm)	B (mm)	C (mm)	FINISH
SR-ARSF-50	2"	1.6	51	50.8	32	MIRROR



#### RAIL SUPPORT

CODE	TUBE	WALL (mm)	A (mm)	B (mm)	H (mm)	RAIL (mm)	FINISH
SR-RS-50	2"	1.6	32	51	10.5	50.8	MIRROR
SR-RS-50S	2"	1.6	32	51	10.5	50.8	SATIN

The following tube fittings are for use with 50.8mm/2" tube.



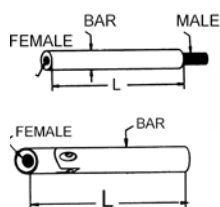
#### RAIL SUPPORT – CAP – DOMED

CODE	TUBE	WALL (mm)	H (mm)	Ø (mm)	FINISH
SR-RSCD-50	50.8	1.6	M8	2"	MIRROR



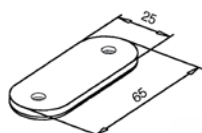
#### COUNTER SUNK SOCKET SCREW

CODE	THREAD	THREAD LENGTH
SS-CSS6010	M6	10



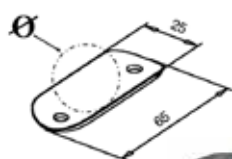
#### RAIL SUPPORT STEM – FIXED/SWIVEL

CODE	BAR DIA (mm)	THREAD FEMALE	THREAD MALE	L (mm)	FINISH
SR-RSSF-40	14	M6	M8	40	MIRROR
SR-RSSS-40	14	M6	M8	40	MIRROR



#### RAIL SUPPORT PLATE – FOR FLAT HANDRAIL

CODE	RAIL	FINISH
SR-RSP-00	FLAT	MIRROR



#### RAIL SUPPORT PLATE – FOR ROUNDED HANDRAIL

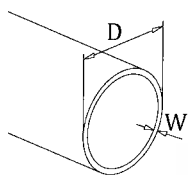
CODE	RAIL	FINISH
SR-RSP-50	50.8	MIRROR



The components above make up this handrail bracket with the option of a support plate for a flat or round handrail.

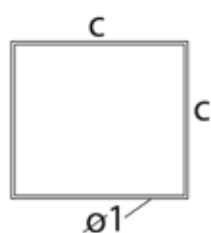
Choose the stem and rail support plate to suit your application.

All components must be ordered individually.

**STAINLESS STEEL TUBE**

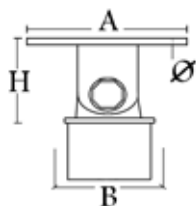
CODE	DESCRIPTION	WALL (mm)	L	DIAMETER (mm)
SR-TUBE	2" M/POLISH TUBE	1.5	6000mm	50.8
SR-TUBEHD	2" M/POLISH TUBE	2	6000mm	50.8
SR-TUBE-25	1" M/POLISH TUBE	1.5	6000mm	25
SR-TUBE-12	1" M/POLISH TUBE	1.2	6000mm	12.7

ALSO AVAILABLE IN A SATIN FINISH

**STAINLESS STEEL TUBE – SQUARE**

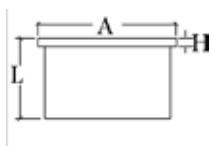
CODE	DESCRIPTION	I Ø	L	C
SR-SQTUBE	2" M/POLISH SQTUBE	1.6	6000mm	50.8

The following tube fittings are for use with 50.8mm/2" tube.



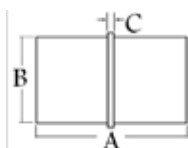
#### ADJUSTABLE RAIL SUPPORT – FLAT RAIL

CODE	TUBE	WALL (mm)	A (mm)	B (mm)	H (mm)	I (mm)	FINISH
SR-SQ40112	2"	1.5mm	66	50.8	50	6	MIRROR
SR-SQ40112S	2"	1.5mm	66	50.8	50	6	SATIN



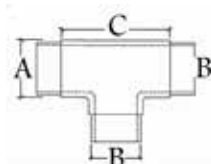
#### END CAP – FLAT

CODE	TUBE	WALL (mm)	A (mm)	H (mm)	L (mm)	FINISH
SR-SQ30112	2"	1.5mm	50.8	3	33	MIRROR



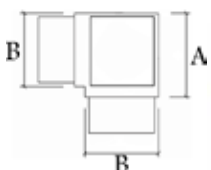
#### FLUSH JOINER – "IN LINE"

CODE	TUBE	WALL (mm)	A (mm)	B (mm)	C (mm)	FINISH
SR-SQ10712	2"	1.5mm	66	50.8	6	MIRROR



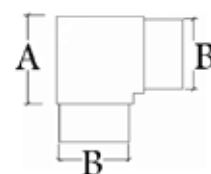
#### FLUSH JOINER – TEE

CODE	TUBE	WALL (mm)	A (mm)	B (mm)	C (mm)	FINISH
SR-SQ10312	2"	1.5mm	60	50.8	75	MIRROR



#### FLUSH JOINER – 90 DEGREE TEE

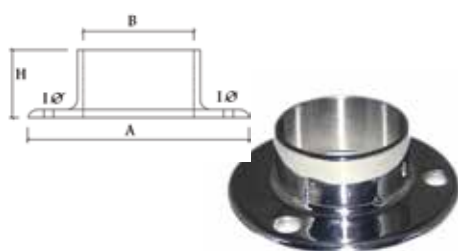
CODE	TUBE	WALL (mm)	A (mm)	B (mm)	FINISH
SR-SQ10512	2"	1.5mm	63	50.8	MIRROR



#### FLUSH JOINER – 90 DEGREE

CODE	TUBE	WALL (mm)	A (mm)	B (mm)	FINISH
SR-SQ10112	2"	1.5mm	63	50.8	MIRROR

The following post fittings are for use with 50.8mm / 2" tube.



#### BASE PLATE FLANGE – ROUND BASE

CODE	TUBE	A (mm)	B (mm)	H (mm)	I (mm)	FINISH
SR-BPFR-50	2"	102	50.8	31	9	MIRROR
SR-BPFRX-50	2"	102	50.8	31	9	MIRROR

X - Indicates flange without grub screw.



#### BASE PLATE FLANGE – OBLONG BASE

CODE	TUBE	A (mm)	B (mm)	H (mm)	I (mm)	C (mm)	FINISH
SR-BPF0-50	2"	100	50.8	31	9	70	MIRROR
SR-BPFX-50	2"	100	50.8	31	9	70	MIRROR

X - Indicates flange without grub screw.



#### BASE PLATE – HEAVY DUTY – WELD ON

CODE	TUBE	A (mm)	B (mm)	I (mm)	T (mm)	FINISH
SR-BPHD-50	2"	100	8	9	51	SATIN



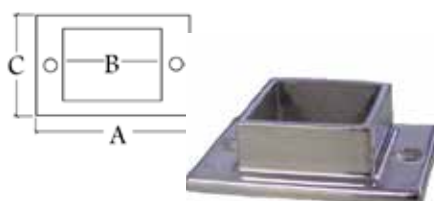
#### BASE PLATE – WELD ON

CODE	TUBE	A (mm)	B (mm)	I (mm)	T (mm)	FINISH
SR-BP-50	2"	100	3	8.5	51	SATIN



#### BASE PLATE COVER – ARCHED

CODE	TUBE	A (mm)	B (mm)	H (mm)	T (mm)	FINISH
SR-BPC-50	2"	102	3	26	51	MIRROR



#### BASE PLATE FLANGE – OBLONG BASE

CODE	TUBE	WALL (mm)	A (mm)	B (mm)	C (mm)	H (mm)	I (mm)	FINISH
SR-SQ20112	2"	1.5mm	116	50.8	80	30	8	MIRROR



# MAINTENANCE

Stainless steel is not maintenance free, but maintenance friendly. When using stainless steel material outdoors you need to clean periodically, especially in aggressive environments like coastal areas or swimming pools. Washing regularly will reduce the risk of tea staining. For best results wash with soap or a mild detergent and warm water, followed by rinsing with cold water. The appearance of the surface can be improved further if the washed surface is wiped dry.

We recommend Bridco B40 cleaner and B42 polish for the best maintenance results, (see page 29).

For high salt or commercial applications G316 with a high or mirror polish should be used.

Satin finished products require extra maintenance especially in high salt environments. Rough surface finishes promote tea staining: The smoother the surface finish, the better. A surface roughness (Ra) of less than 0.5 micrometres is strongly recommended.

Further treatments such as passivating or electrolyzing will also promote better corrosion resistance.

Please note that modular hand rail fittings, open body turnbuckles etc, in their design, also require more regular maintenance due to gaps and crevices that trap foreign contaminants.

Stainless Steel maintenance of external applications.

Rainfall on a regular basis will remove dirt, dust and other deposits from stainless steel if the design of the facade allows. In most parts of Australia however, there is often insufficient rainfall to effectively clean external fittings, Bridco therefore recommend the use of the cleaning schedule below.

## STAINLESS STEEL CLEANING SCHEDULE

ENVIRONMENT	Distance from beachfront or sheltered bay	Cleaning interval
Mild	15km+	Every 12 months
Moderate	1 - 15km	Every 4-6 months
Marine/Industrial/Urban	500m - beachfront / 100m - 1km - sheltered bay	Every 3 months
Sever Marine/Industrial/Busy Urban	500m - beachfront / 100m - sheltered bay	Weekly

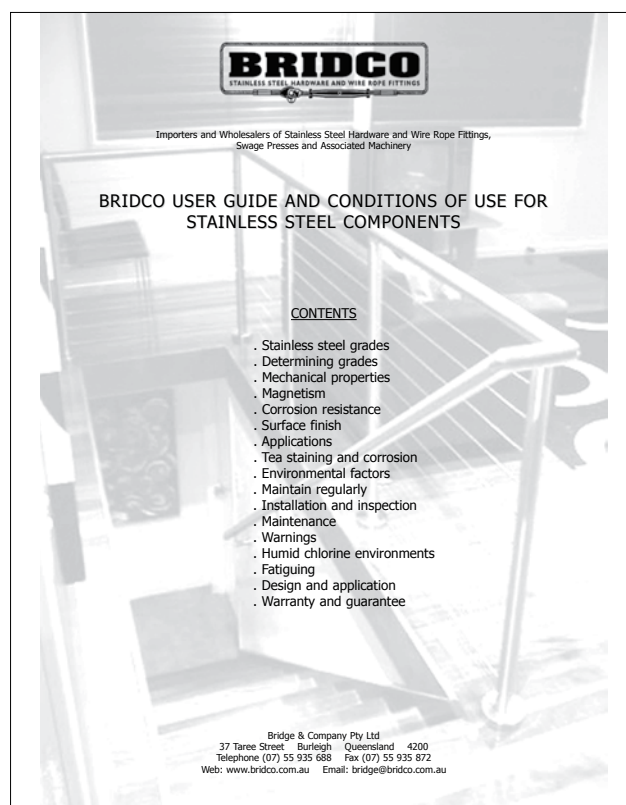
## BRIDCO USER GUIDE & CONDITIONS OF USE FOR STAINLESS STEEL COMPONENTS

Bridco have published a four page brochure containing important information for users of stainless steel components.

The user guide covers such issues as cleaning & maintenance, stainless steel grades, corrosion resistance & environmental factors.

Bridco recommend reading this guide before purchasing or selling stainless steel fittings and/or components.

To obtain a copy of the Bridco user guide please contact our sales department, alternatively a copy can be downloaded by visiting our website.



## BRIDCO CLEANER



B40 stainless steel cleaner is a mixture of acids, selected solvents and surfactants specially designed to remove tea staining and grout from stainless steel stanchions, rails, stainless steel wire rope etc. B40 will not corrode stainless steel nor will it turn green or brown as hydrochloric based cleaners will.

\*A hazardous goods surcharge of +50% is applied to all freight costs for B40.

Standard box contains 6 x 500ml spray bottles (Hazardous Cargo). 20 litre containers also available.

\*MATERIAL DATA SHEETS ARE PROVIDED WITH B40 & B42.

## BRIDCO POLISH

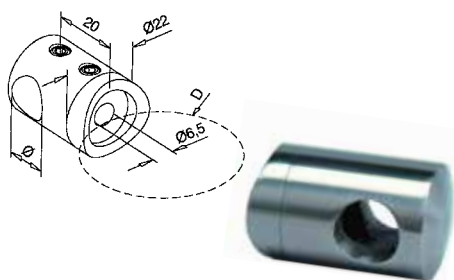


B42 Stainless steel cleaner is specially designed to remove tea staining and fine scratches from stainless steel railings and fittings, etc.

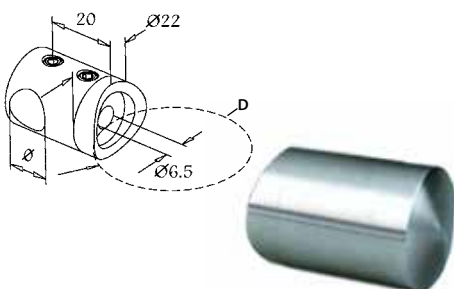
B42 deposits a protective low surface energy, water resistant layer which repels water and air borne contaminants for several months before re-application may be required.

Standard box contains 15 x 250ml

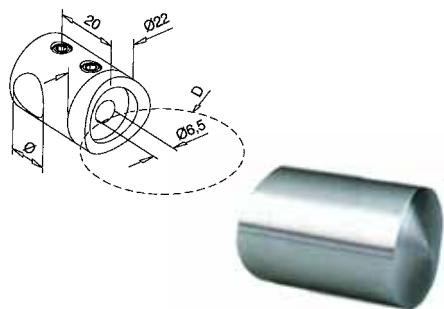


**ROD HOLDER – ROUND POST 12mm**

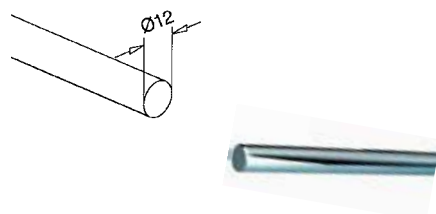
CODE	Ø (mm)	D (mm)	FINISH
AN-140830048MG	12	48.3-50.8	MIRROR
AN-140830150MG	12.7	48.3-50.8	MIRROR

**ROD HOLDER – LEFT END – ROUND POST – 12mm & 12.7mm**

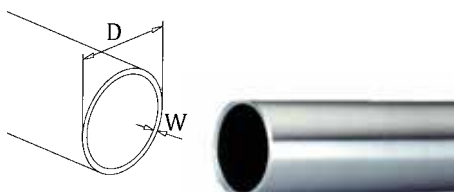
CODE	Ø (mm)	D (mm)	FINISH
AN-140832048G	12	48.3-50.8	SATIN
AN-140832150MG	12.7	48.3-50.8	MIRROR

**ROD HOLDER – RIGHT END – ROUND POST – 12mm & 12.7mm**

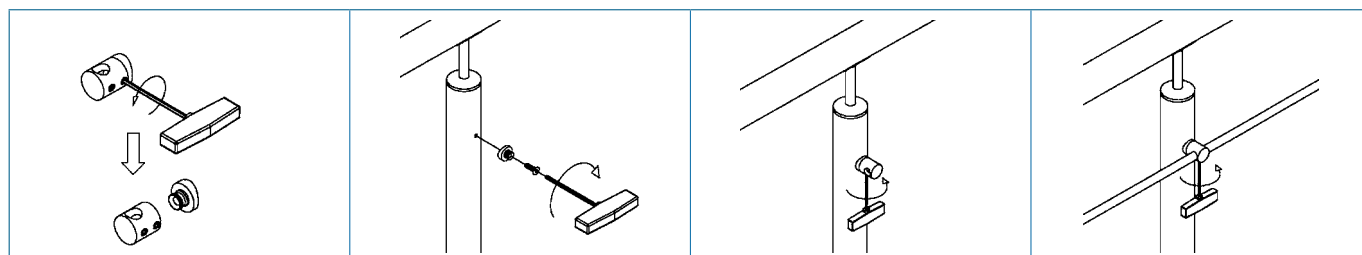
CODE	Ø (mm)	D (mm)	FINISH
AN-140833048G	12	48.3-50.8	SATIN
AN-140833150MG	12.7	48.3-50.8	MIRROR

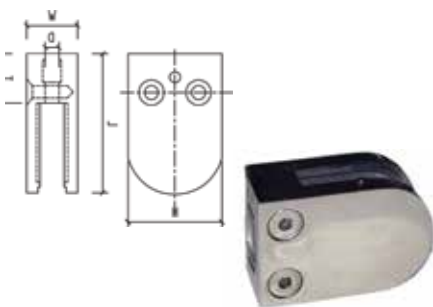
**STAINLESS STEEL ROD**

CODE	DIAMETER	FINISH
AN-1409000120G	5000mm	SATIN

**STAINLESS STEEL TUBE**

CODE	DESCRIPTION	WALL (mm)	L	DIAMETER (mm)
SR-TUBE-12	1" M/POLISH TUBE	1.2	6000mm	12.7

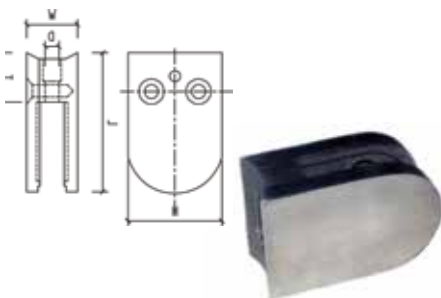
**INFORMATION**

**GLASS CLAMP – “D” SHAPE – FLAT POST**

CODE	GLASS WIDTH	POST	H (mm)	L (mm)	W (mm)	T (mm)	D (mm)	FINISH
SR-GCM-00	6, 8, 10, 12mm	FLAT	45	63	26	16	9	MP



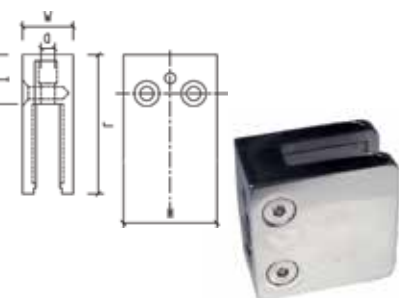
CODE	DESCRIPTION	PER CLAMP
SS-SOCM820	HEX SCREW M8 X 20mm	1

**GLASS CLAMP – “D” SHAPE– ROUND POST**

CODE	GLASS WIDTH	POST	H (mm)	L (mm)	W (mm)	T (mm)	D (mm)	FINISH
SR-GCM-50	6, 8, 10, 12mm	50.8	45	63	26	16	9	MP
SR-GCM-50S	6, 8, 10, 12mm	50.8	45	63	26	16	9	SATIN



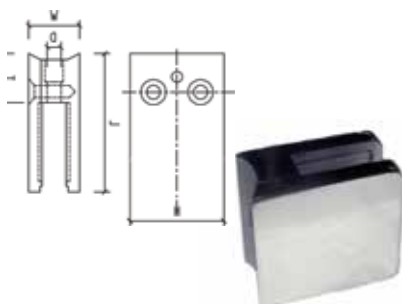
CODE	DESCRIPTION	PER CLAMP
SS-SOCM820	HEX SCREW M8 X 20mm	1

**GLASS CLAMP – SHAPE – FLAT POST**

CODE	GLASS WIDTH	POST	H (mm)	L (mm)	W (mm)	T (mm)	D (mm)	FINISH
SR-GCSQ-00	8, 10, 12mm	FLAT	55	55	32	16	9	MP
SR-GCSQ-00S	8, 10, 12mm	FLAT	55	55	32	16	9	SATIN
SR-GCSQ-00SM	6, 8mm	FLAT	45	45	28	16	9	MP



CODE	DESCRIPTION	PER CLAMP
SS-SOCM820	HEX SCREW M8 X 20mm	1

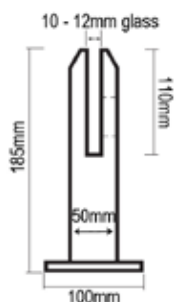
**GLASS CLAMP – SQUARE – ROUND POST**

CODE	GLASS WIDTH	POST	H (mm)	L (mm)	W (mm)	T (mm)	D (mm)	FINISH
SR-GCSQ-50	8, 10, 12mm	50.8	55	55	32	16	9	MP
SR-GCSQ-50S	8, 10, 12mm	50.8	55	55	32	16	9	SATIN
SR-GCSQ-50SM	6, 8mm	50.8	45	45	28	16	9	MP



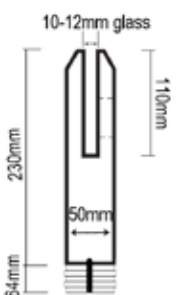
CODE	DESCRIPTION	PER CLAMP
SS-SOCM820	HEX SCREW M8 X 20mm	1

## GLASS FENCING



## STAINLESS STEEL SPIGOT – BASE PLATE MOUNT

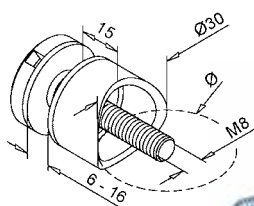
CODE	GLASS DIAMETER	FINISH
SR-SPIGBP-50	12mm	MIRROR POLISH



## STAINLESS STEEL SPIGOT – CORE DRILL MOUNT

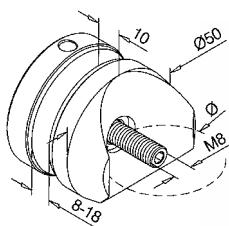
CODE	GLASS DIAMETER	FINISH
SR-SPIGCD-50	12mm	MIRROR POLISH

Drilling of glass is not required for the above spigots.



## GLASS ADAPTER – ROUND SURFACES

CODE	SURFACE	FINISH
AN-140746048G	48.3-50.8mm TUBE	SATIN



## GLASS ADAPTER – ROUND SURFACES

CODE	SURFACE	FINISH
AN-140747048G	48.3-50.8mm TUBE	SATIN