

RIGGING SCREWS

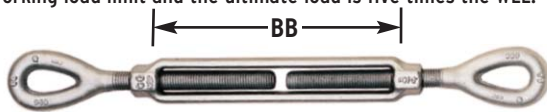
Rigging Screws

Often called straining screws, turnbuckles, or bottle screws. The open body rigging screw is the preferred type for theatre flying as the threads can be clearly seen. For handrailing and display applications closed body screws, especially stainless steel ones, are often more suitable as the smooth surface prevents snagging and gives a more pleasing appearance. Rigging screws should be secured once they are adjusted with monel seizing wire [see page 2.27] or with lock nuts if they are provided. If the rigging screws are being used outside we would recommend smearing the threads with Anhydrous Lanolin [see page 2.27]. Rigging screws must always be free to move into the direction of the load.

CROSBY STRAINING SCREWS



Made from hot dip galvanised steel, the end fittings are quenched and tempered. Eyes are elongated to facilitate fitting. The length specified for straining screws is the maximum take up of the item shown as BB, in the illustration below. The proof load is twice the working load limit and the ultimate load is five times the WLL.



Straining Screw Eye to Eye HG226 To USA Federal Specification FF-T-791b. Type 1, Form 1, Class 4. Straining screws should be used for a straight or in-line pull only.

Straining Screw Eye to Eye HG226		code	each
Thread diameter	length BB	WLL	
5/16"	4 1/2"	360kg	CRO2262 £14.70
3/8"	6"	540kg	CRO2263 £18.90
1/2"	6"	1000kg	CRO2264 £20.20



Straining Screw Jaw to Jaw HG228 To USA Federal Specification FF-T-791b. Type 1, Form 1, Class 7. Straining screws should be used for a straight or in-line pull only.

Straining Screw Jaw to Jaw HG228		code	each
Thread diameter	length BB	WLL	
5/16"	4 1/2"	360kg	CRO2282 £19.00
3/8"	6"	540kg	CRO2283 £21.30
1/2"	9"	1000kg	CRO2285 £29.50



Straining Screw Jaw to Eye HG227 To USA Federal Specification FF-T-791b. Type 1, Form 1, Class 8. Straining screws should be used for a straight or in-line pull only.

Straining Screw Jaw to Eye HG227		code	each
Thread diameter	length BB	WLL	
5/16"	4 1/2"	360kg	CRO2272 £17.10
3/8"	6"	540kg	CRO2273 £18.60
1/2"	6"	1000kg	CRO2274 £21.00

Lock Nuts for Crosby Straining Screws

Thread diameter	Left Hand Code	Each
5/16"	CRO1075516	£0.99
3/8"	CRO1075534	£1.30
1/2"	CRO10755701	£1.98
Thread diameter	Right Hand Code	Each
5/16"	CRO1075133	£0.77
3/8"	CRO1075151	£0.87
1/2"	CRO1075197	£0.99

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US FEDERAL SPECIFICATION STRAINING SCREWS



These rigging screws come from a long established ISO9001:2000 registered German company. They are now fitted with locking nuts to avoid the need for mousing the body to the end fittings with seizing wire to avoid accidental unwinding.



Straining Screw Eye to Eye Meets the performance requirements of USA Federal Specification FF-T-791b. Straining screws should be used for a straight or in-line pull only. The eye diameters are 13 and 18mm.

Straining Screw Eye to Eye		code	each
Thread diameter	length BB	WLL	
3/8"	6"	540kg	WIR2263 £9.33
1/2"	6"	1000kg	WIR2264 £14.63



Straining Screw Jaw to Jaw Meets the performance requirements of USA Federal Specification FF-T-791b. Straining screws should be used for a straight or in-line pull only. The width between forks are 12 and 16mm.

Straining Screw Jaw to Jaw		code	each
Thread diameter	length BB	WLL	
3/8"	6"	540kg	WIR2283 £11.59
1/2"	9"	1000kg	WIR2285 £17.64



Straining Screw Jaw to Eye Meets the performance requirements of USA Federal Specification FF-T-791b. Straining screws should be used for a straight or in-line pull only. The eye diameters are 13 and 18mm and width between forks are 12 and 16mm.

Straining Screw Jaw to Eye		code	each
Thread diameter	length BB	WLL	
3/8"	6"	540kg	WIR2273 £10.21
1/2"	6"	1000kg	WIR2274 £16.15

SMALL STAINLESS RIGGING SCREWS



Closed body adjusters ideal for handrail wires, small tension



wires and display purposes. The fork ends can be attached directly onto small pad eyes [see 2.27] without the need for extra shackles. Fitted with lock nuts. The given lengths are from centre of pin to centre of pin. The steel grade is AISI 316. Also in marine grade.

Small Stainless Rigging Screws		code	each
Size	approx length closed	approx length open	
M4	83mm	105mm	WIR254 £4.68
M5	133mm	180mm	WIR255 £4.90
M6	143mm	220mm	WIR256 £5.36
M8	168mm	234mm	WIR257 £7.98
M10	192mm	272mm	WIR258 £9.66



Small Marine Grade Stainless Rigging Screws		code	each	
Size	breaking load	length closed	length open	
M5	800kg	126mm	180mm	WIR120005 £12.63
M6	1250kg	138mm	200mm	WIR120006 £14.80
M8	1300kg	158mm	234mm	WIR120008 £21.68
M10	2350kg	188mm	272mm	WIR120010 £27.07

Flints can order larger sizes up to M24 with breaking loads of 20,000kg.

STA-LOK RIGGING SCREWS



Sta Lok manufacture the ultimate riggings screws in stainless steel and bronze. They are widely used on prestige yachts and by architects. Flints can offer advice on the correct selection of these products which can be supplied roll swaged onto your wire or with "fit yourself" Sta-Lok fittings. We can even supply wires with a left hand thread on one end and a right hand one on the other end so that the wire can be tensioned between drilled and tapped handrail posts without the need for rigging screws. If you have a project which involves unusual rigging applications we can probably help. Please phone and ask for our rigging manager.



A Type B28 Swage to machined fork. Turnbuckle is made from chrome plated bronze. We can supply these rigging screws swaged to wires from 3-12mm diameter. Prices from £19.75.

B Type B22 Toggle to Sta-lok. Turnbuckle is made from chrome plated bronze. By using the Sta-lok fitting you can fit these riggings screws onsite to wires from 3-12mm diameter. Prices from £26.58.



C Type B41 Toggle to Toggle. Turnbuckle is made from chrome plated bronze. Sizes M6 to M20. Prices from £20.62.

D Type SC22 Supajust Toggle to Sta-lok. Turnbuckle is made from 316 grade stainless steel lined with bronze to prevent seizing. By using the Sta-lok fitting you can fit these riggings screws onsite to wires from 3-14mm diameter. The Supajust is probably the ultimate rigging screw. Prices from £59.87.

E Type SC28 Supajust Fork to Swage. Turnbuckle is made from 316 grade stainless steel lined with bronze to prevent seizing. We can supply these riggings screws swaged to wires from 5-26mm diameter with minimum breaking loads of up to 46,472kgs. The Supajust is probably the ultimate rigging screw. Prices from £49.41.

Ordering Sta-lok Rigging screws

If you know the exact length of your wires we can have the end fittings and rigging screws roll swaged directly onto stainless wire rope. If you can not determine the final length or if the wires have to be threaded through holes then the best option is to order one end roll swaged to slightly over length wires and to purchase Sta-lok type fittings which can be easily fitted onsite. Sta-lok fittings must use stainless steel wire and the preferred wire construction for standing rigging and handrailing is 1x19 which is quite stiff. If the wires need to run over pulleys then 7x19 flexible wire rope is a better choice. Our rigging manager can advise you.

PELICAN HOOKS



type 812



type 1080

Pelican Hooks provide convenient means of releasing tensioned wire ropes. Useful for clearing gauze guide wires during scene changes. Flints can provide wire ropes terminating in a roll swaged M8 threads for the Type 1080. Ask our rigging manager for details.

Pelican Hooks	code	price
type 812	WIRPH812	£31.96
type1080 [M8 right hand thread]	WIRPH1080	£31.19

PAD EYES



Pad Eyes Small stainless steel pad eyes to provide a neat fixing. Ideal for our small stainless rigging screws as shown. Plate length 60mm Height of staple 22mm. Staple wire diameter 6mm. Fastenings 5mm.

Pad Eyes	code	price
	BAR306	£4.68



Folding Pad Eyes Drop-forged with no welding to offer remarkable strength. In addition by aligning the D ring to the direction of the force they can handle higher operating loads. Often used to secure trapeze tension wires. A small silicone pad inside prevents vibration when folded flat. Also available in titanium with strengths up to 10,000kg.

Folding Pad Eyes

SAFETY	Breaking Load	Safety factor	Functional load
	4500kg	1.5 to 1	3000kg

Folding Pad Eyes	Ø fixing	width of D ring	weight	code	each
	8mm	59mm	136g	WIR6505	£26.76

MONEL SEIZING WIRE



Monel Seizing Wire 0.9mm Ø seizing wire on a 10m spool for seizing rigging screws and shackles.

Monel Seizing Wire	code	per 10m spool
	WIR080	£6.50

SMART PINS



new



Smart Pins A really innovative idea. Many rigging screws are not fitted with locking nuts but require split pins to prevent accidental unwinding. This can be very tiresome if adjustments are needed. The smart pins are quickly secured with their hook and loop straps. ✓ No sharp pins to tear your clothing ✓ Easily removed and refitted for fine adjustments. ✓ 316 grade stainless.

Smart Pins	pin diameter	pin height	strap length	code	each
	2mm	8mm	150mm	BWVP1020	£2.86
	2.5mm	10mm	190mm	BWVP1225	£3.07
	3.2mm	13mm	260mm	BWVP1632	£3.41
	4mm	20mm	370mm	BWVP2340	£4.63

They are really clever!

ANHYDROUS LANOLIN



Lanoguard Anhydrous lanolin combined with non-toxic corrosion inhibitors to provide long term protection for rigging screws and shackles, sheep etc.

Lanoguard	code	price
Prop-tection & Lube - 250ml pot (shown)	PATLAN250	£10.02
Marine & Chassis Spray - 500ml bottle	PATLANS	£14.18