



CLEATS & ROPE CLUTCHES





Hard anodised alloy RF5121.

PRODUCT No.	DESCRIPTION	FASTENER SIZE mm	HOLE Spacing mm	ROPE SIZE mm	WEIGHT g	FASTENER SIZE in	HOLE SPACING in	ROPE SIZE in	WEIGHT oz
Cleats									
RF5100	V-Cleat <sup>®</sup> , small, open	4	36	3-6	9	5/32	1 7/16	1/8-1/4	0.3
RF5101	V-Cleat <sup>®</sup> , small, fairlead	4	48	3-6	11	5/32	1 7/8	1/8-1/4	0.4
RF5105	V-Cleat <sup>®</sup> , medium, open	5	55	5-8	23	3/16	2 5/32	3/16-5/16	0.8
RF5106	V-Cleat <sup>®</sup> , medium, fairlead	5	66	5-8	27	3/16	2 9/16	3/16-5/16	1.0
RF5110	V-Cleat <sup>®</sup> , large, open	6	72	8-12	51	1/4	2 13/16	5/16-1/2	1.8
RF5121	Trapeze cleat, Aluminium	-	-	4-8	46	-	-	5/32-5/16	1.6

# C-CLEATS<sup>™</sup> & T-CLEATS<sup>™</sup>

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Design optimisation





Effective slotted bearings





Multi-coil spring





Advanced composite base

Swivel cleat base

# C-CLEATS & T-CLEATS

## ENGINEERED FOR PERFORMANCE

Intensive development efforts have produced this high performance range of cam cleats that provides unbeatable holding power while allowing easy cleating and releasing of control lines and sheets

## C Carbon cam C-Cleats™

C-Cleats™ feature lightweight, ultra-rigid, carbon fibre composite cams that are corrosion free, wear resistant and non-abrasive.

## T-Cleats™

T-Cleats™ have hard wearing glass fibre reinforced cams for reliable cleating. They offer a great value solution for moderately demanding applications.

## Alloy cam cleats

Aluminium cam models built for ultimate durability where high wear and high loads are encountered. Cams are hot-forged and hard anodised for maximum strength and corrosion resistance. Ronstan alloy cam cleat models are available in sizes small and medium. The medium cleat is built on an aluminium base for maximum rigidity whilst the small cleat has a composite base for an optimum blend of lightness and durability.

## Advanced composite base

Cleat bases are produced from long fibre reinforced polymer to save weight while providing essential stiffness

## Slotted bearings

Self-lubricating, self-cleaning slotted bearings provide lower frictional resistance, quicker response times and superior resistance to sand and salt than ball bearings which can deform under load.

## Multi-coil spring

The multi-coil spring recessed in the upper part of the cam generates near constant torque. This consistency ensures secure cleating of even the smallest diameter lines with minimal abrasion or rope wear

## Low effort line entry and exit due to unique teeth and entry geometry.

Unique teeth and entry profiles

### Customisation

A comprehensive range of specialist cleat accessories allow customisation of the cleat setup to optimise performance by controlling inward lead, outward lead, cleating and uncleating angle and height.

### Total control

Swivel cleat bases further enhance the function of cleats by providing articulation. Some models provide adjustable cleating angles for even further functionality and accessibility.





## SMALL CAM CLEATS





provides high resistance to heat and abrasion.

- · Glass fibre composite cams.
- Long strand glass fibre reinforced polymer base.

									polymer base.										
PRODUCT No.	CAP	ROPE Capacity mm	HOLE SPACING mm	FASTENER SIZE mm	DIMENSIONS mm	M.W.L. kg	B.L. kg	WEIGHT 9	ROPE CAPACITY in	HOLE SPACING in	FASTENER SIZE in	DIMENSIONS in	M.W.L. Ib	B.L. Ib	WEIGHT oz				
C C-Cleats™																			
RF5000	Grey	2-8	27	M4	48L x 24W x 20H	75	150	20	3/32-5/16	1 1/16	5/32	1 7/8L x 1W x 3/4H	165	330	0.7				
RF5400	Black	2-8	27	M4	48L x 24W x 20H	75	150	20	3/32-5/16	1 1/16	5/32	1 7/8L x 1W x 3/4H	165	330	0.7				
RF5400B	Blue	2-8	27	M4	48L x 24W x 20H	75	150	20	3/32-5/16	1 1/16	5/32	1 7/8L x 1W x 3/4H	165	330	0.7				
RF5400G	Green	2-8	27	M4	48L x 24W x 20H	75	150	20	3/32-5/16	1 1/16	5/32	1 7/8L x 1W x 3/4H	165	330	0.7				
RF5400R	Red	2-8	27	M4	48L x 24W x 20H	75	150	20	3/32-5/16	1 1/16	5/32	1 7/8L x 1W x 3/4H	165	330	0.7				
RF5400Y	Yellow	2-8	27	M4	48L x 24W x 20H	75	150	20	3/32-5/16	1 1/16	5/32	1 7/8L x 1W x 3/4H	165	330	0.7				
🚺 T-Cleat™																			
RF5001	Red	2-8	27	M4	48L x 24W x 20H	75	150	20	3/32-5/16	1 1/16	5/32	1 7/8L x 1W x 3/4H	165	330	0.7				
Alloy Cam	Cleat																		
RF5500R	Red	2-8	27	M4	48L x 24W x 20H	75	150	25	3/32-5/16	1 1/16	5/32	1 7/8L x 1W x 3/4H	165	330	0.9				

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MEDIUM CAM CLEATS





		ROPE CAPACITY	HOLE Spacing	FASTENER SIZE	DIMENSIONS	M.W.L. B.L.		WEIGHT	ROPE CAPACITY	HOLE Spacing	FASTENER DIMENSIONS		M.W.L.	B.L.	WEIGHT
PRODUCT No.	CAP	mm	mm	mm	mm	kg	kg	g	in	in	in	in	lb	lb	oz
C C-Cleats™															
RF5010	Grey	3-12	38	M5	66L x 31W x 26H	125	250	50	1/8-1/2	1 1/2	3/16	2 5/8L x 1 1/4W x 1H	275	550	1.8
RF5410	Black	3-12	38	M5	66L x 31W x 26H	125	250	50	1/8-1/2	1 1/2	3/16	2 5/8L x 1 1/4W x 1H	275	550	1.8
RF5410B	Blue	3-12	38	M5	66L x 31W x 26H	125	250	50	1/8-1/2	1 1/2	3/16	2 5/8L x 1 1/4W x 1H	275	550	1.8
RF5410G	Green	3-12	38	M5	66L x 31W x 26H	125	250	50	1/8-1/2	1 1/2	3/16	2 5/8L x 1 1/4W x 1H	275	550	1.8
RF5410R	Red	3-12	38	M5	66L x 31W x 26H	125	250	50	1/8-1/2	1 1/2	3/16	2 5/8L x 1 1/4W x 1H	275	550	1.8
RF5410Y	Yellow	3-12	38	M5	66L x 31W x 26H	125	250	50	1/8-1/2	1 1/2	3/16	2 5/8L x 1 1/4W x 1H	275	550	1.8
T-Cleat <sup>™</sup>															
RF5011	Red	3-12	38	M5	66L x 31W x 26H	125	250	50	1/8-1/2	1 1/2	3/16	2 5/8L x 1 1/4W x 1H	275	550	1.8
Alloy Cam C	leat														
RF5510R	Red	3-12	38	M5	66L x 31W x 26H	125	250	70	1/8-1/2	1 1/2	3/16	2 5/8L x 1 1/4W x 1H	275	550	2.5





# LARGE CAM CLEATS



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Design, materials selection and advanced manufacturing methods combine to deliver superior strength and holding power, light weight and corrosion resistance.

Carbon fibre composite cam material provides high

resistance to heat and abrasion.

- Unique self-cleaning, self-lubricating slotted bearings ensure consistent high performance even when subjected to high static loads.
- Cam profile and multi-coil spring minimise line entry and release effort.
- Carbon fibre composite cams.
- Long strand glass fibre reinforced polymer base.

WEIGHT

oz

3.9

3.9

3.9

3.9

3.9

3.9

PRODUCT No.	ROPE HOLE Capacity Spacii Cap mm mm		HOLE Spacing mm	FASTENER SIZE mm	DIMENSIONS	M.W.L. kg	B.L. kg	WEIGHT	ROPE Capacity in	HOLE SPACING in	FASTENER SIZE in	DIMENSIONS in.	M.W.L. Ib	B.L. Ib
C C-Cleats™							•	J						
RF5020	Grey	6-16	51	M6	88L x 41W x 35H	230	460	110	1/4-5/8	2	1/4	3 1/2L x 1 5/8W x 1 3/8H	510	1010
RF5420	Black	6-16	51	M6	88L x 41W x 35H	230	460	110	1/4-5/8	2	1/4	3 1/2L x 1 5/8W x 1 3/8H	510	1010
RF5420B	Blue	6-16	51	M6	88L x 41W x 35H	230	460	110	1/4-5/8	2	1/4	3 1/2L x 1 5/8W x 1 3/8H	510	1010
RF5420G	Green	6-16	51	M6	88L x 41W x 35H	230	460	110	1/4-5/8	2	1/4	3 1/2L x 1 5/8W x 1 3/8H	510	1010
RF5420R	Red	6-16	51	M6	88L x 41W x 35H	230	460	110	1/4-5/8	2	1/4	3 1/2L x 1 5/8W x 1 3/8H	510	1010
RF5420Y	Yellow	6-16	51	M6	88L x 41W x 35H	230	460	110	1/4-5/8	2	1/4	3 1/2L x 1 5/8W x 1 3/8H	510	1010

CLEATS & ROPE CLUTCHES

SWIVEL CLEAT BASES





#### RF20175 LEAD AND CLEATING OPTIONS

- Swivel cleat bases provide easy cleating and releasing from any angle.
- The RF60 features adjustable stops to limit rotation, which can be removed to allow full 360° rotation.
- Cleating plates are heavy gauge alloy for stiffness and minimum distortion under load.
- Deadeyes have flared stainless steel liners for minimum rope wear and long service life.
- ✓ The RF5 is manufactured in lightweight fibre reinforced composite materials – the position of the sheave can be changed for control line led from below.
- **RF5 LEAD AND CLEATING OPTIONS** 
  - Sheet leads and control lines on dinghies and catamarans.
  - Cunningham, vang, foreguy, pole topping lift and other control lines on larger yachts.

- Alloy cleating arms.
- Ø Fibre reinforced nylon body (RF5).
- Grade 316 stainless steel fixtures.

PRODUCT No.	DESCRIPTION	ROPE mm	WEIGHT g	ROPE in	WEIGHT oz
Swivel Cleat Ba	ses				
RF4	Swivel shackle base. Suits Series 40 & 55 Orbit Block™ Dyneema® links. 4.8mm (3/16″) diameter pin. MWL 250kg (550lb), BL 500kg (1100lb)	-	30	-	1.1
RF5	Swivelling cleat unit. 28mm (1 1/8") diameter ball bearing sheave, small C-Cleat™ and fairlead. Maximum line load 125kg (275lb)	2 - 8	100	3/32 - 5/16	3.5
RF58	Swivelling deadeye & cleat unit. Aluminium arm, 360° rotation, medium C-Cleat™ & fairlead. Maximum line load 175kg (385lb)	3 - 12	171	1/8 - 1/2	6.0
RF60	Swivelling deadeye & cleat unit. Aluminium arm, adjustable rotation stops, medium C-Cleat™ & fairlead. Maximum line load 175kg (385lb)	3 - 12	257	1/8 - 1/2	9.1
RF67	Swivelling deadeye & cleat unit. Aluminium arm, 360° rotation, small C-Cleat™ & fairlead. Maximum line load 125kg (275lb)	2 - 8	121	3/32 - 5/16	4.3
RF70	Swivelling cleat unit, 15mm sheaves. Stainless steel arm, 360° rotation, small C-Cleat™ & fairlead. Maximum line load 125kg (275lb)	2 - 5	146	3/32 - 3/16	5.1
RF1455	Swivel base with block post socket. 4.8mm (3/16″) diameter pin. Suits shackle head Series 40 & 50 Utility blocks and Series 55 Orbit Blocks™. MWL 200kg (440lb); BL 1000kg, (2200lb)	-	65	-	2.3
RF20175	Swivelling cleat unit. 20mm (3/4") sheave with stainless steel ball bearings, small C-Cleat™ & fairlead. Maximum line load 125kg (275lb)	2 - 6	79	3/32 - 1/4	2.8



## CLEATS & ROPE CLUTCHES SWIVEL CLEAT BASES



PRODUCT No.	DESCRIPTION	M.W.L.*1 kg	B.L.*1 kg	WEIGHT g	M.W.L.*1 lb	B.L.*1 lb	WEIGHT oz
Swivel Cleat Bas	e						
RF6	Small ball bearing swivelling cleat base, small C-Cleat™, loop take-off	125	250	210	275	550	7.4
RF7	Ball bearing swivelling cleat base, medium C-Cleat™, 5mm (3/16″) pin	215	430	342	473	946	12.1

\*1 Load rating are for the cleat base assembly, and are based on a 120° change in line direction. Line loads should be limited to: RF6 M.W.L. 125kg (275lb), RF7 M.W.L. 175kg (385lb). \*2 RF7 swivel fork has a 5mm (3/16°) pin and 11.8mm (7/16°) gap to permit direct, low profile attachment to the head post of a block. FEATURES & INFORMATION

## CONSTRICTOR® TEXTILE ROPE CLUTCHES







Release lanyard in 'gripping' position





Release lanyard in 'open' position





Structural integration model



Release lanyard knob



**CONSTRICTOR®** 

## **TEXTILE ROPE CLUTCH**

Unlike conventional clutches, the Constrictor® does not crush the rope between two metal surfaces. Instead, the loaded rope is held securely in a textile sleeve, itself attached to a base unit. The rope runs freely through the sleeve in one direction, but is gripped instantly when running out in the opposite direction. This patented "constrictor effect", provides greater holding power as the load increases.

## ANATOMY OF THE CONSTRICTOR®

## **Bi-conical titanium ring**

The patented textile sleeve element is locked in place between a titanium ring and the base unit. The unique conical geometry allows easy insertion of the rope, and ensures that the sleeve is perfectly integrated with the alloy base unit in supporting the applied load.

## **Controlled holding power**

Pulling on the Dyneema<sup>®</sup> lanyard retracts the sleeve, relaxing the grip on the rope and allowing it to run freely in either direction. The lanyard can be fixed in the V-notch of the base unit to hold the Constrictor<sup>®</sup> in the open position. Releasing the lanyard allows the sleeve to be drawn to its extended position by a shock cord, constricting the rope in a firm, secure grip.

## Technora® aramid textile sleeve

- Braid Orientation: Cousin Trestec's experience and expertise in rope manufacture guided the development of the critical braiding angle to maximise grip and minimise slippage.
- Fibre Assembly: Extensive knowledge of fibres combined with laboratory and field testing has resulted in an optimum fibre balance and density for unmatched strength.
- Treatment: A specialised surface treatment plays a critical role in extending the product life, UV protection, boosting grip and reducing abrasion in stress areas.

### Stronger and lighter

Twice the holding power and a third of the weight of conventional rope clutches.

### **Release under load**

The line can easily be released under load without the use of a winch simply by pulling the lanyard.

## Non destructive

The textile sleeve closes like a constrictor on the line. The extraordinary grip is the result of fibreto-fibre contact that is far less aggressive and much more effective than a traditional metal cam.

#### Structural integration

The Constrictor<sup>®</sup> is also available in a version suitable for structurally integrated installations. Instead of the notched alloy base unit, the sleeve is supplied with an alloy mounting collar that can be built into a suitably reinforced bulkhead or a customised base fitting.

#### **Remote release**

The Dyneema® lanyard can be extended for remote release; for example, to lock a halyard or reefing line to reduce spar compression and minimise rope creep.

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		E max	] 		·					<b>-</b> -		LO.	A								
			NA R										CT300 CT300 CT310 CT312 CT312 CT314	STR 5P001 3P001 2P001 2P001 4P001 4P001 x M4	EN EN EN EN EN EN to reta	e FO	R STR	UCTU	JRAL ucture	. INTEG	RATION
	D-+ - ØA + -B-+ ØC		F									LO.									
	Twice the hol Three times li No point load Easy release	ding power of co ghter than conv ing, abrasion or under load.	onventiona rentional cl rope cove	al cluto utche r rupti	ches. s. ure.		Hal to 2 Alu Tita	yard an 20m (65 minium anium Ic	d contro ft). alloy de ocking rir	l applic ck bas ng.	cations o e.	n boats			9 S 9 L	K78 Dy IV resis	vneema® stant blad	° releas ck Tecł	e lanya nnora®	ard. aramid sle	eeve.
PR	RODUCT No.	ROPE SIZES	B.L.*1 kg	A mm	B mm	C I mm	E MIN. mm	E MAX. mm	F I mm	L.O.A.*2 mm	WEIGHT	r   1	B.L.*1 Ib	A in	B in	C in	E MIN. in	E MAX. in	F in	L.O.A.*2 in	WEIGHT oz
w	ith Allou Base I	Init	J								•										
CT	306P001	5mm (3/16")	460	45	115	25	70	90	588	1000	150	1	1010	1 3/4	49/16	1	2 3/4	31/2	23 5/32	2 39 3/8	5.3
CT	-308P001	6mm (1/4")	710	45	115	25	70	90	638	1085	155	1	1560	1 3/4	49/16	1	2 3/4	3 1/2	25 1/8	42 23/32	5.4
CT		8mm (5/16")	1220	45	115	25	70	90	638	1085	160		2680	1 3/4	4 9/16	1	2 3/4	3 1/2	25 1/8	42 23/32	5.6
CT	312P001	10mm (3/8") 10mm (3/8")	1530	58	126	36	70	90	787	1210	330		1920 3360	2 1/4	5	1 3/8	2 3/4	31/2	31	47 5/8	11.6
CT	314P001	12mm (1/2") 12mm (1/2")	2850 1830	58	126	36	70	90	787	1210	340		1020	2 1/4		1 3/8	2 3/4	3 1/2	31	47 5/8	12.0
PR	RODUCT No.	ROPE SIZES	3770 B.L.*1 kg	A mm	B mm	C mm	D	F	L.O.A.* mm	<sup>2</sup> WE	IGHT g	B.L.*1 Ib	3290 A in		B in	C	D	i	F	L.O.A.*2 in	WEIGHT oz
Fo	r Structural Int	egration																			
CT	306P001-EN	5mm (3/16") 6mm (1/4")	460 750	25	25	20	7	550	910	Į,	56	1010 1670	1		1	25/32	9/32	21 2	1/32	35 13/16	2.0
CT	308P001-EN	6mm (1/4") 8mm (5/16")	710	25	25	20	7	600	960	6	52	1560 2570	1		1	25/32	9/32	23	5/8	37 25/32	2.2
CT	310P001-EN	8mm (5/16") 10mm (3/8")	1220 2240	40	30	30	10	600	960	1	16	2680 4920	19/	16 1	3/16	1 3/16	13/32	23	5/8	37 25/32	4.1
CT	312P001-EN	10mm (3/8") 12mm (1/2")	1530 2850	44	34	33	10	750	1110	1	56	3360 6270	19/	16 1	11/32	1 5/16	13/32	29 1	7/32	43 11/16	5.5
СТ	314P001-EN	12mm (1/2") 14mm (9/16")	1830 3770	47	36	36	10	750	1110	1	92	4020 8290	1 27,	/32 1	13/32	1 13/32	13/32	29 1	7/32	43 11/16	6.8

\*1 For nominal rope diameter. \*2 Minimum total deck length required for installation. Includes Constrictor® alloy base unit, textile sleeve and elastic loop.

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CLEATS & ROPE CLUTCHES

## **ROPE JAMMERS & CLEATS**









RF1398 has a stainless steel frame and ribbed aluminium base plates for maximum durability. Its narrow profile facilitates efficient installation in banks of two or more.

RF1398 cam and locking mechanism provides automatic line control, allowing the line to be drawn through when in the locked down position.

PRODUCT No.	DESCRIPTION	ROPE DIAM. mm	HOLE Spacing mm	FASTENER SIZE mm	M.W.L. kg	WEIGHT	ROPE DIAM. in	HOLE SPACING in	FASTENER SIZE in	M.W.L. Ib	WEIGHT oz
Rope Clea	ts and Jammers				•	5					
RF494	V-jammer, stainless steel, 69mm (2 3/4") long	6	56	2 x 4	-	14	1/4	2 7/32	2 x 3/16	-	0.5
RF520	Horn cleat, nylon. 75mm (3") long	4	25	2 x 5	-	10	5/32	1	2 x 3/16	-	0.4
RF521	Horn cleat, nylon. 100mm (4") long	5	28	2 x 5	-	15	3/16	1 3/32	2 x 3/16	-	0.5
RF522	Horn cleat, nylon. 125mm (5") long	6	38	2 x 6	-	30	1/4	1 1/2	2 x 1/4	-	1.1
RF523	Horn cleat, nylon. 165mm (6 1/2") long	8	41	2 x 6	-	50	5/16	1 5/8	2 x 1/4	-	1.8
RF524	Horn cleat, nylon. 200mm (8") long	10	48	2 x 6	-	85	3/8	1 29/32	2 x 1/4	-	3.0
RF1387	Rope jammer, compact style. 60mm (2 3/8") long. Supplied with two base plates, for use with 4-6mm (5/32"-1/4") diameter rope and 6-8mm (1/4"-5/16") diameter rope	4-8	45	2 x 6	410	165	5/32 - 5/16	1 25/32	2 x 1/4	900	5.8
RF1398	Rope stopper. 115mm (41/2") long. Self closing jaw allows rope pull-through, but not drag-back when locked down	8 - 10	96	2 x 6	400	420	5/16 - 3/8	3 25/32	2 x 1/4	880	14.8