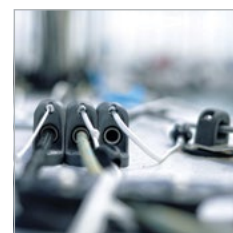
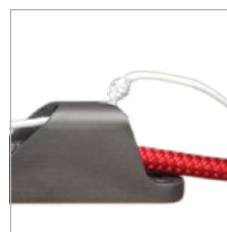




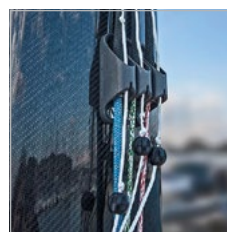
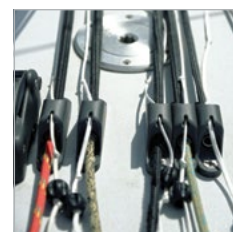
Release lanyard in 'gripping' position



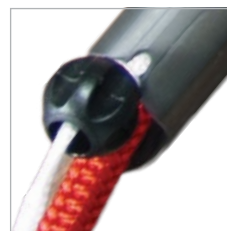
Design optimisation



Release lanyard in 'open' position



Structural integration model



Release lanyard knob



# CONSTRUCTOR®

## 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 CONSTRUCTOR®

### 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® 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® 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 fibre-to-fibre contact that is far less aggressive and much more effective than a traditional metal cam.

### Structural integration

The Constrictor® 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.

# CONSTRUCTOR® TEXTILE ROPE CLUTCHES

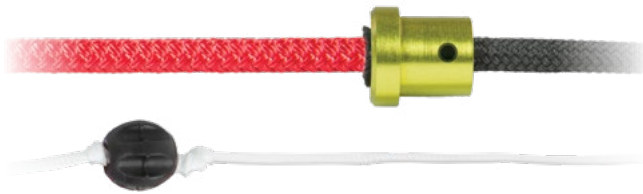
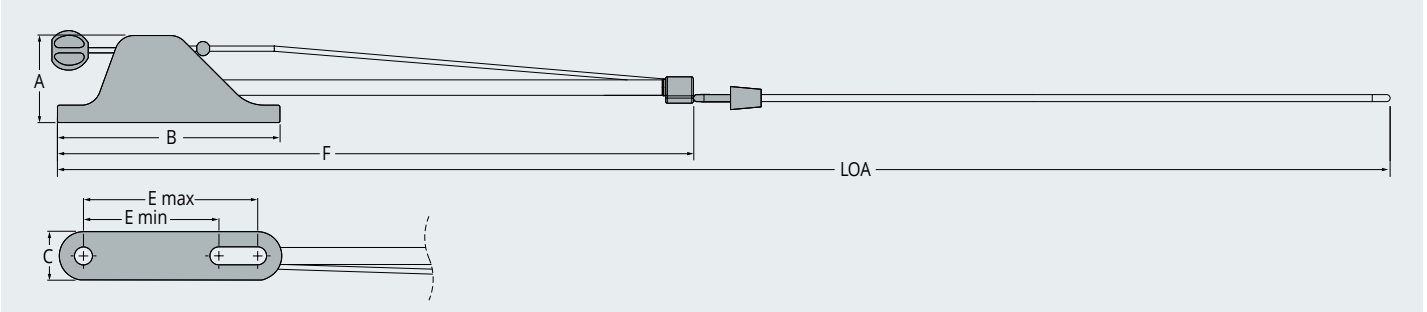


## CONSTRUCTOR® WITH ALLOY BASE UNIT

 CT306P001  
 CT308P001  
 CT310P001

 2 x 8mm  
 (5/16")

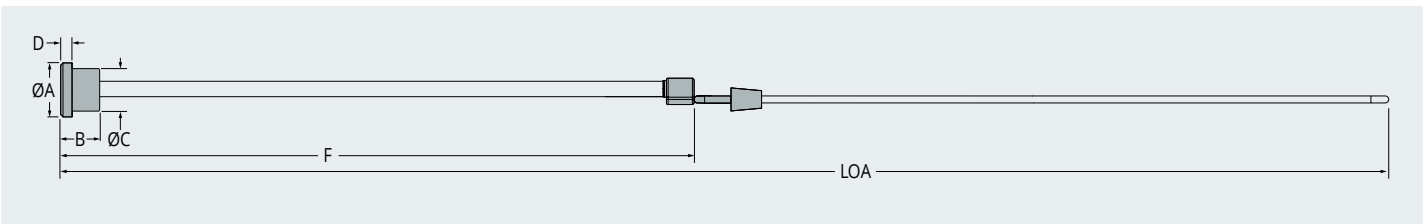
 CT312P001  
 CT314P001

 2 x 12mm  
 (1/2")


## CONSTRUCTOR® FOR STRUCTURAL INTEGRATION

 CT306P001-EN  
 CT308P001-EN  
 CT310P001-EN  
 CT312P001-EN  
 CT314P001-EN

1 x M4 to retain Constrictor® in structure



- Twice the holding power of conventional clutches.
- Three times lighter than conventional clutches.
- No point loading, abrasion or rope cover rupture.
- Easy release under load.

- Halyard and control applications on boats to 20m (65ft).
- Aluminium alloy deck base.
- Titanium locking ring.

- SK78 Dyneema® release lanyard.
- UV resistant black Technora® aramid sleeve.

PRODUCT No.	ROPE SIZES	B.L.*1 kg	A mm	B mm	C mm	E MIN. mm	E MAX. mm	F mm	L.O.A.*2 mm	WEIGHT g	B.L.*1 lb	A in	B in	C in	E MIN. in	E MAX. in	F in	L.O.A.*2 in	WEIGHT oz
<b>With Alloy Base Unit</b>																			
CT306P001	5mm (3/16")	460	45	115	25	70	90	588	1000	150	1010	1 3/4	4 9/16	1	2 3/4	3 1/2	23 5/32	39 3/8	5.3
	6mm (1/4")	750									1670								
CT308P001	6mm (1/4")	710	45	115	25	70	90	638	1085	155	1560	1 3/4	4 9/16	1	2 3/4	3 1/2	25 1/8	42 23/32	5.4
	8mm (5/16")	1170									2570								
CT310P001	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
	10mm (3/8")	2240									4920								
CT312P001	10mm (3/8")	1530	58	126	36	70	90	787	1210	330	3360	2 1/4	5	1 3/8	2 3/4	3 1/2	31	47 5/8	11.6
	12mm (1/2")	2850									6270								
CT314P001	12mm (1/2")	1830	58	126	36	70	90	787	1210	340	4020	2 1/4	5	1 3/8	2 3/4	3 1/2	31	47 5/8	12.0
	14mm (9/16")	3770									8290								

PRODUCT No.	ROPE SIZES	B.L.*1 kg	A mm	B mm	C mm	D mm	F mm	L.O.A.*2 mm	WEIGHT g	B.L.*1 lb	A in	B in	C in	D in	F in	L.O.A.*2 in	WEIGHT oz
<b>For Structural Integration</b>																	
CT306P001-EN	5mm (3/16")	460	25	25	20	7	550	910	56	1010	1	1	25/32	9/32	21 21/32	35 13/16	2.0
	6mm (1/4")	750								1670							
CT308P001-EN	6mm (1/4")	710	25	25	20	7	600	960	62	1560	1	1	25/32	9/32	23 5/8	37 25/32	2.2
	8mm (5/16")	1170								2570							
CT310P001-EN	8mm (5/16")	1220	40	30	30	10	600	960	116	2680	1 9/16	1 3/16	1 3/16	13/32	23 5/8	37 25/32	4.1
	10mm (3/8")	2240								4920							
CT312P001-EN	10mm (3/8")	1530	44	34	33	10	750	1110	156	3360	1 9/16	1 11/32	1 5/16	13/32	29 17/32	43 11/16	5.5
	12mm (1/2")	2850								6270							
CT314P001-EN	12mm (1/2")	1830	47	36	36	10	750	1110	192	4020	1 27/32	1 13/32	1 13/32	13/32	29 17/32	43 11/16	6.8
	14mm (9/16")	3770								8290							

\*1 For nominal rope diameter.

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