Laser

EXTRA 3D DIMENSION

TOESTRAP • MAINSHEET AND RUDDER SYSTEMS 1519

THE CHOICE OF CHAMPIONS

Vectran V12

- A liquid crystal polymer.
- Used extensively throughout.
- One of the newest top spec ropes available.
- 12 strands are formed to produce a solid plaited rope with a squarer profile and because they are balanced to distribute the loads equally they resist kinking and work well around turning blocks.
- Has a unique pre-stretch system which heat sets the rope to give additional strength and abrasion resistance.
- Ultra low stretch.
- Very high strength.
- Excellent load to load fatigue resistance.
- Low creep.
- Lighter than wire.
- Zero weight gain when wet.
- UV resistant.
- Has clear PU coating.

Vectran "knobbly" control lines

- Vectran core to give the same high performance as above.
- Knobbly polyester outer gives increased grip in the cleats and is hardwearing.
- Knobbles assist in turning around the micro blocks.
- Knobbles give good grip on handling.
- Low water absorption.

Excel Race Dyneema

- Preferred by Paul Goodison on the kicker control line. Has a plastic handle, so grip on handling not an issue.
- Better around lots of tight radius such as final blocks in the Vang system.

7mm Mega Bungy

- Better strength.
- More even stretch characteristics.
- Can support the crew weight on the toestrap for downwind sailing, avoiding continuous adjustment of the adjustable toestrap.

Liros Majic Light

- Extremely light.
- Zero water absorption.
- Anti twist.
- Dyneema core for low stretch.
- Has a heat treatment system to stop creep in the core.
- Feels good.

List of Parts

(Due to the continuous improvements, specifications, dimensions & colours may vary to those shown)

1 Majic Light Dyneema anti twist mainsheet
2 Vectran V12 traveller system
3 XD 60mm Ronstan/Frederickson ratchet block
4 XD Spring and shackle
5 XD Toe strap
6 Vectran V12 toe strap adjustment system including mega bungy
7 XD centreboard retaining line
8 Rudder Mega bolt
9 Vectran V12 rudder downhaul

Rudder downhaul system

1 Remove the existing downhaul rope supplied in rudder assembly.

2 Take the piece of **3mm Vectran V12** x1.2metres and tie a large double figure of eight knot in one end by taking the tail twice around before passing through the loop to form the knot. This creates a larger stop knot.

3 Fit in to rudder blade as per the original rope.

Traveller system

1 Take the piece of **5mm Vectran V12** x 3metres and fit to the traveller blocks.

2 Thread through the traveller fairleads and tie a bowline in the Vectran

3 Thread the tail through the cleat.

XD centreboard retaining line

1 Thread the **elastic bungy** through the centreboard and tie a stop knot.

2 Tie the **cord** supplied in the XD toe strap bag to the bow eye to form a loop.

3 Connect the **bungy hook** when sailing.

XD toe strap system

1 Remove standard toe strap from the boat.

2 Apply a sealant to the screw holes.

3 Fit new **XD toe strap** and **Ratchet block** using the spring and shackle provided.

4 Take the 1.2metre length of **Vectran V12** and tie a figure of eight knot in one end.

5 Pass the V12 through both of the toe strap eyes leaving the knot on the port side.

6 Pass the tail through the toe strap webbing.

7 Next pass the tail around the port eye feeding it from the outboard port side.

8 And back through the webbing in the toe strap.

8 The rope tail is then passed through the starboard eye so that the end of the V12 can be pulled from the side of the boat.

9 Tie a loop handle in the end.

10 Tie the **mega bungy** to the toe strap by rapping around the traveller cleat and toe strap twice before tying the ends with a reef knot. The bungy will be tight.

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