



HIGH PERFORMANCE TORSIONAL & TENSION CABLES

OVERBRAIDING & RECOVERING

## OVERBRAIDING

Our Current range of machinery available for overbraiding in any material consists of,

- ▶ 24 Carrier large capacity.
- ▶ 48 Carrier horizontal with a caterpillar.
- ▶ 52 Carrier.

## CABLES & SLINGS

### MATERIALS

Fineline Fibertech cables use four types of core material, depending on the application:

#### Cores

- ▶ PBO
- ▶ Dyneema
- ▶ Vectran
- ▶ Kevlar

Kevlar, Vectran and Dyneema are primarily used for lower loads.

PBO is used for the higher loads/higher performance cables.

#### Covers

- ▶ PBO
- ▶ Dyneema
- ▶ Vectran
- ▶ Kevlar
- ▶ Technora
- ▶ Polyester - 20 Colour Options.

### THE CONSTRUCTION PROCESS

- ▶ Both thimbles are set at the desired build length.
- ▶ The fibres are then taken off spools and continuously wound around the thimbles under tension. When the desired number of laps is reached the ends are terminated, forming a continuous loop bundle.
- ▶ The fibres are then wrapped in tape to minimize the diameter and give them UV and water resistance.
- ▶ Braiding then takes place. Depending on the cable application the cable is over-braided several times.
- ▶ Each braid is resin-coated together using a rubber based resin, allowing the cable to bend, stretch and be coiled up without losing its ridged format or its torque properties.
- ▶ The cable is then put back on the build pins and set to its build length for the resin to cure.

### CAPABILITIES

Using the construction process detailed the following cables can be built:

- ▶ Torque cables (Top/down, Bottom/up, Tension luff cable).
- ▶ Runners.
- ▶ Bobstays.
- ▶ Head-stay strops etc.
- ▶ Torsional Lengths to 60mtrs
- ▶ Sling lengths to 110mtrs

### BRAIDING

Our 48 carrier, advanced horizontal braiding machine is capable of braiding with any desired material from 4mm to 40mm in diameter. The Cables can get five over-braids done in one continuous go without stopping the machine. Automated caterpillar wheels keep the cable under continuous tension to allow this to happen.



**Vectran**

**Technora**

**ZYLON.**

DuPont™  
**KEVLAR**