

3Te hydraulic tensioner

SPECIFICATION SUMMARY

Max pull force outboard from idler end	3Te SWL
Number of tracks	2
Coefficient of friction	0.09
Max total grip force	33.33Te
Max grip per track	16.67Te/track
Product crush force (at max grip)	13.89Te/m/track
Track contact length	1.2m
Max speed	900m/hour at 50Hz, 1080m/hour at 60Hz
Height to product underside	701mm
Track opening	300mm*
Product size range	20mm to 200mm*
Operating pressure	210bar

MODES OF OPERATION

Pay-out variable speed – manual

Haul-in variable speed – manual

Tension holdback (render)

Low tension render

TENSIONER DISPLAY INFORMATION

Product distance (optional line out metre)

Product speed (optional line out metre)

Product grip (pressure gauge)

Product tension (pressure gauge)

*Track pad dependent



IDEAL FOR

- Wire rope spooling
- Cable and umbilical spooling / lay / recovery
- Fibre optic cable spooling / lay
- Carousel loading towers / level winds

BENEFITS

- Small footprint
- Entry and exit guidance level remains same
- Simple machine to control and operate
- Removable tilt down guide rollers and outer grip cylinders to facilitate side loading

DELIVERY ASSURED

TENSIONER

The robust caterpillar tensioner consists of two vertically orientated track carriages with polyurethane 'V'-shaped pads. The lower track is fixed to the main framework while the upper track slides on two steel shafts moved by grip cylinders and pivots to accommodate product diameter variations.

The tensioner is designed to impart linear motion to a product, including cable, flexible flow lines, rigid pipe, and wire rope. Linear motion is achieved by driving both track units at one end, producing tractive pull force onto the product through friction between the track pads and the product outer surface. The tensioner is controlled from the control station and a separate control cabin can be supplied as an option.

LINE-OUT METER

The line-out meter is a system used to provide measurement of speed and distance of product paid out or in to the tensioner. This system is designed specifically for use with the 3Te tensioner model BS056 and is attached to the tensioner via bolted connections to the tensioner base frame.

A display box is provided with the encoder arm line out meter. This display box takes the encoder pulses per revolution and displays the signal received as a speed and a distance measurement.

The display unit requires a 110V or 230V supply. A 3-pin plug and power supply cable is provided with the equipment for 230V, 3-phase 50Hz supply. A qualified electrician may modify the power supply cable to suit that of the vessel power supply/connection available.

ELECTRO-HYDRAULIC POWER UNIT

The power unit is of open frame construction. The electrical supply required is 22kW; 3ph; 415 / 440V; 50 / 60Hz. Full load current is 42A.

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