

10Te hydraulic tensioner

SPECIFICATION SUMMARY

Max pull force outboard from idler end	10Te SWL
Max pull force outboard from gearbox end	7.5Te SWL
Number of tracks	2
Coefficient of friction	0.125
Max total grip force	80Te
Max grip per track	40Te/track
Product crush force	16.67Te/m/track
Track contact length	2.4m
Max speed	1100m/hour
Height to track centre line	1138mm
Track opening	760mm*
Product size range	80mm to 400/590mm**
Operating pressure max	240bar
Product loading	Top loading or feed through

MODES OF OPERATION

Pay-in / out variable speed
Tension holdback (render)
Tension pull in (haul)
Constant tension

TENSIONER DISPLAY INFORMATION

Product distance
Product speed
Product grip
Product tension

*Track pad dependent

**Dependent on suitable track pads and number of cylinders



Top: model BS199. Bottom: model BS213.

IDEAL FOR

- Flexible / rigid lay
- Onshore spooling
- Offshore wind submarine cables
- Offshore energy Subsea, Umbilicals, Risers and Flowlines (SURF)
- Decommissioning

BENEFITS

- Top load for ease of loading
- Both tracks move to maintain centre line
- Accepts variance in product diameter
- Provides record of data – data logging
- Remote dial-in
- Machines can be used together in constant tension mode
- Synchronisation with third party equipment

TENSIONER

The tensioner consists of two horizontal track units, each hydraulically driven through an epicyclic gearbox and bent axial piston hydraulic motor. Standard lubricated 'Berco' track chains are employed on to which are bolted 'V' profile hard wearing polyurethane track pads. The track pads can be interchanged for alternative profiles during an installation. The tensioner has pivoting tracks which can facilitate variances in product diameters to pass through.

A Hydraulic Power Unit (HPU) powers the tensioner. An electric motor combines with a dual pump, the main load-sensing pump being for the track drives and a piggybank load sensing pump for the grip circuit.

ELECTRO-HYDRAULIC POWER UNIT

The power unit is of an open frame construction located within a specially designed 8ft x 10ft container. The electrical supply required is 90kw; three phase; 440v; 50/60Hz. Main pump 130 cc/rev: 1740rpm: 222l/min: closed loop with variable displacement pressure over-ride and load sensing control.



Model BS213 HPU.



Model BS213 control cabin.

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