

# 15Te hydraulic tensioner

## SPECIFICATION SUMMARY

|  |                     |
|--|---------------------|
| Max pull force outboard from idler end   | 15Te SWL            |
| Max pull force outboard from gearbox end | 7.5Te SWL           |
| Number of tracks                         | 2                   |
| Coefficient of friction                  | 0.19                |
| 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                       | 90mm to 400/590mm** |
| Operating pressure max                   | 210bar              |

## 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



Power unit container.

## IDEAL FOR

- Flexible / rigid lay
- Onshore spooling
- Offshore wind submarine cables
- Oil and gas 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

**DELIVERY ASSURED**

## TENSIONER

This tensioner has two horizontal track units, each hydraulically driven through an epi-cyclic 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.

A Hydraulic Power Unit (HPU) powers the tensioner. An electric motor is combined 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; 50/60 Hz. Main pump 130 cc/rev: 1740rpm: 222l/min: closed loop with variable displacement pressure over-ride and load sensing control.

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