

# 15Te electric tensioner

## SPECIFICATION SUMMARY

Max pull force outboard from idler end	15Te SWL
Max pull force outboard from gearbox end	15Te 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	900m/hour
Height to track centre line	1125mm
Track opening	602mm*
Product size range	80mm to 400/590mm**
Operating pressure max	250bar

## MODES OF OPERATION

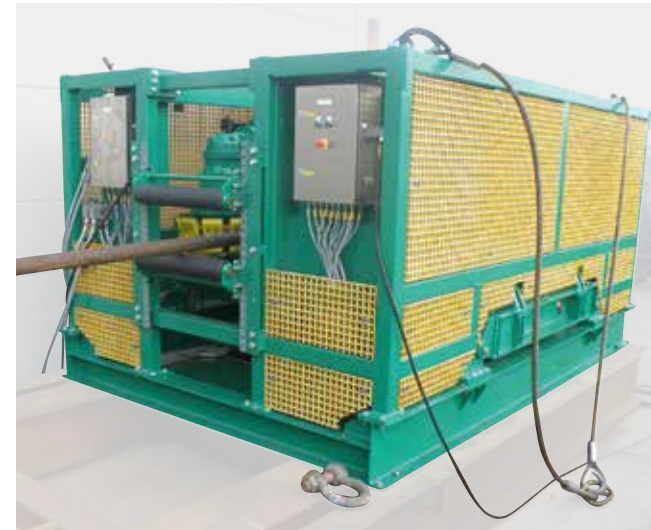
Pay-in / out variable speed
Tension holdback (render)
Tension pull in (haul)
Constant tension (with modification)

## TENSIONER DISPLAY INFORMATION

Product distance
Product speed
Product grip
Product tension

\*Track pad dependent

\*\*Dependent on suitable track pads and number of cylinders



## 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 display
- 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 electrically driven through a right-angled epi-cyclic gearbox and 30kW electric motor. Standard lubricated 'Berco' track chains are employed on to which 'V' profile hard wearing polyurethane track pads are bolted. 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 grip circuit of the tensioner. An electric motor is combined with a pressure compensating pump to provide flow to the system, hydraulic push cylinders are used for grip and the grip setting is controlled by a proportional pressure reducing valve.

## ELECTRO POWER UNIT

The power unit is a 15ft x 8ft container which houses the electrical drive suite, it is fitted with a Heating Ventilation and Air Conditioning (HVAC) system for environmental control and operator comfort as the unit doubles up as a control cabin. The HPU is located directly on the tensioner but all controls for the tensioner are located on the remote control unit. The electrical supply required is 150Amps; 3-ph; 440V; 50/60Hz.

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