

10Te hydraulic tensioner

SPECIFICATION SUMMARY

| | |
|--|------------------------------|
| Max pull force outboard from idler end | 10Te SWL |
| Max pull force outboard from gearbox end | 5Te SWL |
| Number of tracks | 2 |
| Coefficient of friction | 0.12 |
| Max total grip force | 84Te |
| Max grip per track | 42Te/track |
| Product crush force | 22.33Te/m/track at 227bar |
| Track contact length | 1.8m |
| Max speed | 1450m/hour |
| Height to product underside | 1327mm |
| Track opening | 400mm* |
| Product size range | 40mm to 390mm** |
| Operating pressure max | 250bar |
| Product loading | Side loading or feed through |

MODES OF OPERATION

| |
|---------------------------|
| Pay-out variable speed |
| Pay-in variable speed |
| Tension holdback (render) |
| Tension pull in (haul) |

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

- Cable and umbilical spooling / lay
- Offshore wind
- Carousel loading towers / level winders

BENEFITS

- Small footprint
- Entry and exit guidance level remains same
- Simple machine to control and operate with Human Machine Interface (HMI)
- 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. One track is fixed to the sub frame while the other track slides on two steel shafts moved by the grip cylinders and pivots to accommodate for small product diameter variations. The tensioner is mounted to its base frame through four load cells.

HPU

The Hydraulic Power Unit (HPU) is contained within a steel box space frame. The electrical supply required is 75kW; 3 phase; 415/440V; 50/60Hz. Hydraulic output is 142L/min (50Hz) 170L/min (60Hz) at 210bar from main transmission pump, and 15.95L/min (50Hz) 19.14L/min (60Hz) at 210bar from grip pump.

Please visit www.sparrowsgroup.com/contact to find your nearest office

