



## CABLE TENSIONER

# TWO TRACK TENSIONER (5 TON)

CCC (Underwater Engineering) SAL currently owns and operates two (2) 5Te tensioners which are self-contained unit mounted on a box section construction fabricated base frame, which in turn is mounted to a container frame.

The unit comprises of the following main components:

- Base frame Assembly (supporting the Fixed Track, A-Frame, HPU, MCC & Roller Support Brackets).
- Adjustable Upper Track Frame Assembly (supported by cylinder, carriage and pin assembly).
- Fixed Lower Track Frame Assembly
- Adjustable Roller Support Frame Assembly (One with encoder for line out measurement)
- HPU Assembly
- Containers Frame Assembly (Supporting the base frame through Load Cells)



## HIGHLIGHTS

- |                         |                                      |
|-------------------------|--------------------------------------|
| ▲ Year of Build:        | 2014 & 2015                          |
| ▲ Rated Tension:        | 5 Tons.                              |
| ▲ Product Capacity:     | 500mm max opening.                   |
| ▲ Linear Speed:         | 880 m/hour.                          |
| ▲ Track Contact Length: | 1.3m                                 |
| ▲ No. of Drives:        | 1 per track                          |
| ▲ Track Direction:      | 2                                    |
| ▲ ASCII data out:       | Speed, Line Out, Outboard Load (Te). |
| ▲ Certification Body:   | Lloyds Register                      |

## SPECIFICATIONS

### SYSTEM DIMENSIONS AND WEIGHTS

Length:	4.16 m
Width:	2.60 m
Height:	3.23 m
Weight:	15 Tons

### GENERAL SPECIFICATIONS

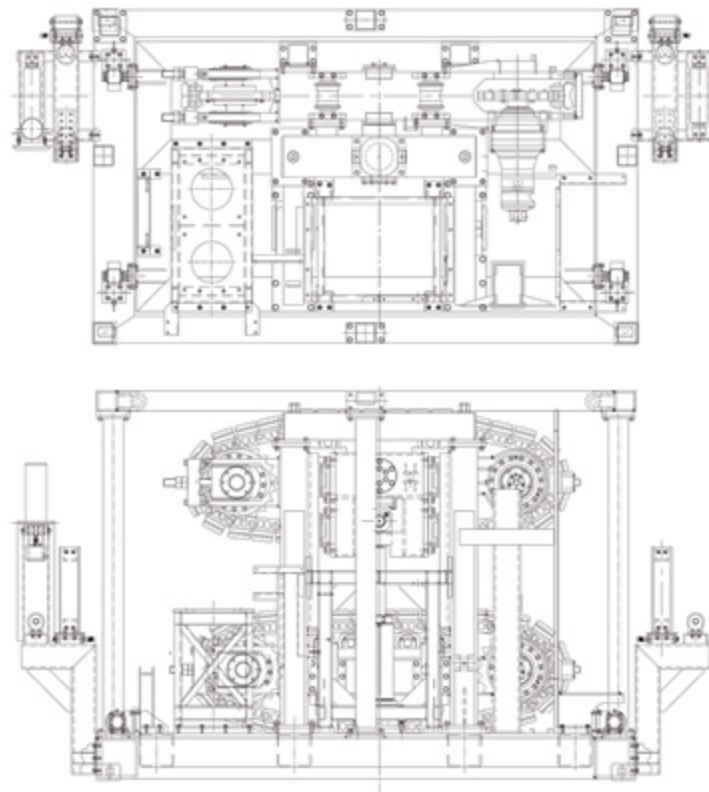
Rated Tension:	5 Tons.
Product Capacity:	500mm max opening
Linear Speed:	880 m/hour
Squeeze Force:	12 Te/m
Squeeze Pressure:	89 Bar
Track Contact Length:	1.3m
No. of Drives:	1 per track
Track Direction:	2
ASCII data out:	Speed, Line Out, Outboard Load (Te)

### HYDRAULIC SYSTEM SPECIFICATIONS

The hydraulic power unit (HPU) comprises of two main electric motor driven pump sets oil reservoir, hydraulic manifold blocks, filters, and electrical switchgear panels and junction boxes. The HPU assembly is fitted with a drip tray.

Hydraulic oil reservoir:	500Ltr nominal capacity +20% Air Space
Hydraulic oil:	ISO Grade 68
Main Electric motor:	2 x 30 kW @ nominal 1750 rpm 440V-3ph-60Hz
Main Hydraulic Pump:	2 x Kawasaki K3VL-80 (80cc/rev)
Flowrate:	90 l/min (45 lpm per pump)
Pump Working Pressure:	210 bar (nominal)
Squeeze Cylinder Pump:	2 x Bondioli & Pravesi SM A1
Flowrate:	20 lpm (10 lpm per pump)
Pump Working Pressure:	210 bar (nominal)
Servo Hydraulic Pump:	2 x Linde HPL PA2 gear pump
Flowrate:	16 lpm (8 lpm per pump)
Pump Working Pressure:	40 bar (nominal)

## LAYOUT



Note: The technical specifications presented within this document are subject to change without prior notification. The information presented within this document are believed to be correct, but no guarantees of accuracy can be given.