



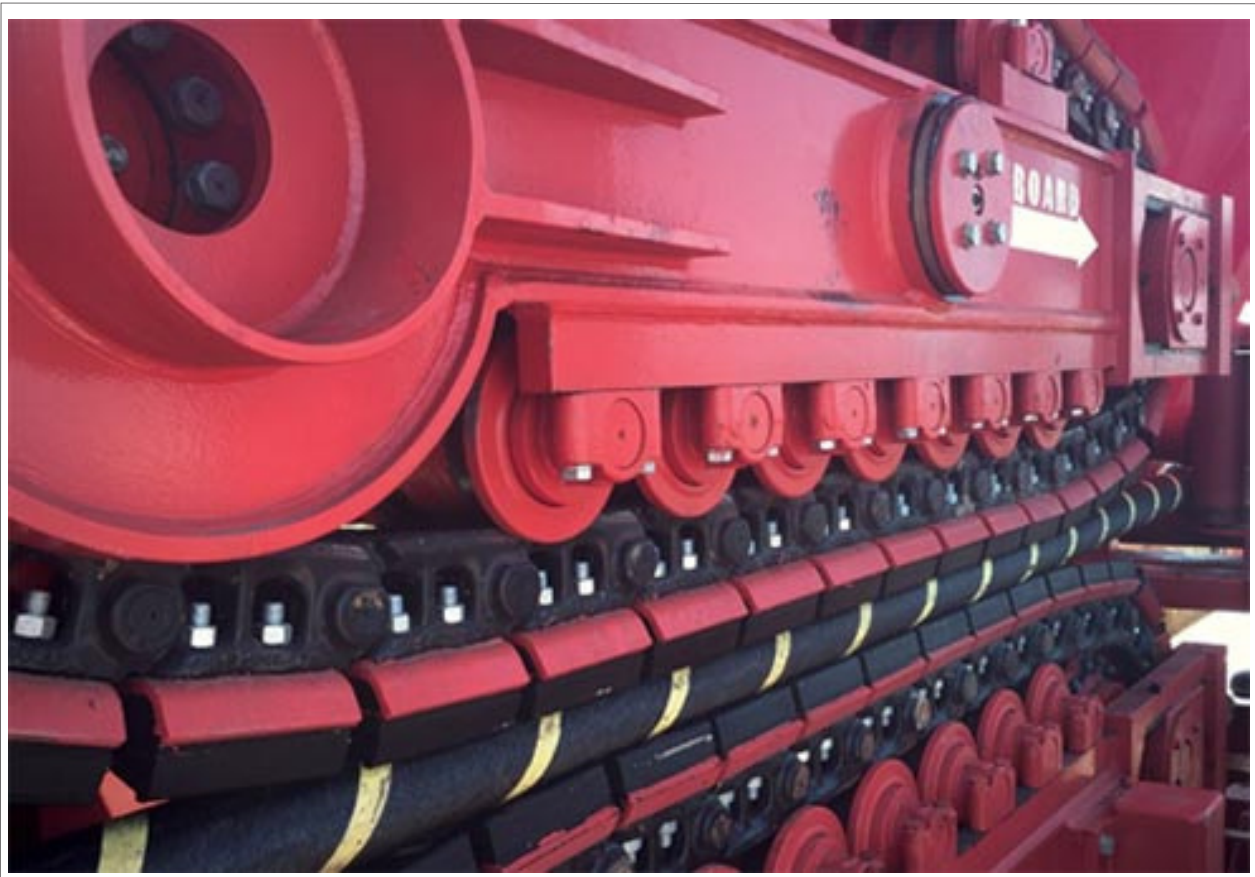
## CABLE TENSIONER

# TWO TRACK TENSIONER (5 TON)

Al Raiedah Underwater LTD SAL currently possesses and operates two (2) 5-tonne tensioners, each being a self-contained unit mounted on a box-section constructed base frame, which is further affixed to a container frame.

The unit is comprised of the following key components:

- Base frame assembly, supporting the Fixed Track, A-Frame, HPU, MCC, and Roller Support Brackets.
- Adjustable Upper Track Frame Assembly, supported by a cylinder, carriage, and pin assembly.
- Fixed Lower Track Frame Assembly.
- Adjustable Roller Support Frame Assembly, one of which includes an encoder for line-out measurement.
- HPU Assembly.
- Container 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	1.3m
Length: No. of Drives:	1 per track
Track Direction:	2
ASCII data out:	Speed, Line Out, Outboard Load
Certification Body:	(Te). Lloyds Register



# SPECIFICATIONS

## SYSTEM DIMENSIONS AND WEIGHTS

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

## GENERAL SPECIFICATIONS

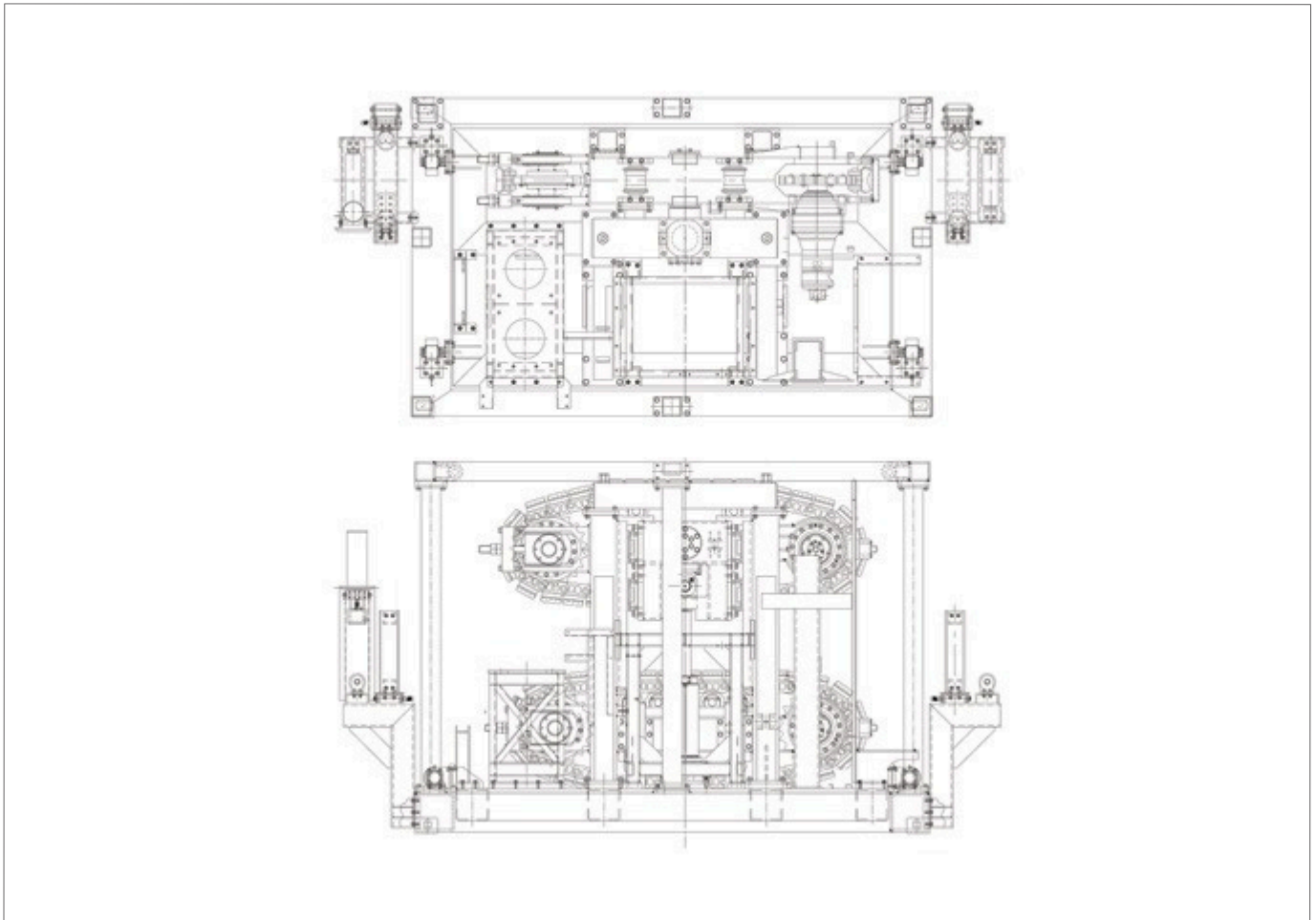
Rated Tension:	5 Tons.
Product Capacity:	500mm max opening
Linear Speed:	880 m/hour
Squeeze Force:	12 Te/m
Squeeze Pressure:	89 Bar
Track Contact Length:	1.3m
No. of Drives:	1 per track
Track Direction:	2
ASCII data out:	Speed, Line Out, Outboard Load (Te)

## 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.

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

