



CABLE LOADING SYSTEM

BOW CABLE ENGINE (10 TON)

Al Raiedah Underwater LTD SAL currently possesses and utilizes two hydraulic 10-tonne Bow Cable Engines. The Smartquadrant - E bow cable engine is specifically engineered to aid in the loading of various cable types, ranging from fiber optic cables to medium-sized power cables. The entire system comprises two quadrants and a central electrically powered hydraulic unit controlled by a wired remote. Thanks to its electric drive system, the equipment can be employed for both loading cables at jetties and for transpooling cables onto cable laying vessels or barges.



HIGHLIGHTS

- ▲ Year of Build: 2023
- ▲ Rated Tension: 10 Tons.
- ▲ Product Capacity: 25mm / max. 350mm.
- ▲ Speed Control: 0 - 50m/min (0 - 3,000m/h).
- ▲ Working Load Limits: 15 Tons
- ▲ MBR: 5m
- ▲ Track Direction/Speed: Two directions with variable speeds
- ▲ Wheel Pairs: 2 x wheel pairs (4 wheels in total).
- ▲ Lifting Points: Compliant with EN ISO 10855



SPECIFICATIONS

SYSTEM DIMENSIONS AND WEIGHTS

Length:	1.70 m (excluding quadrants)
Width:	1.41 m (excluding quadrants)
Height:	2.15 m (excluding quadrants)
Weight :	5.5 Tons (inclusive of quadrants)

SIDE QUADRANTS

90° Side Quadrants:	Suitable for upto 5m bending radius
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GENERAL SPECIFICATIONS

Working Load Limit:	15 Tons (soely related to cable weight)
Product Capacity:	25mm to 350mm
Linear Control:	0-50 m/min (0 -3,000m/h)
Max. Pulling Force:	20kN
Wheel Pairs:	2 x pairs (4 wheels 650mm/each)
Wheel Drive:	4 x hydraulic motors with cooled electric driven HPU
Working Pressure:	200 bar
Direction Control:	2 (variable speeds)
Power Supply:	380V, 50Hz, 32A or 440V, 60Hz, 32A

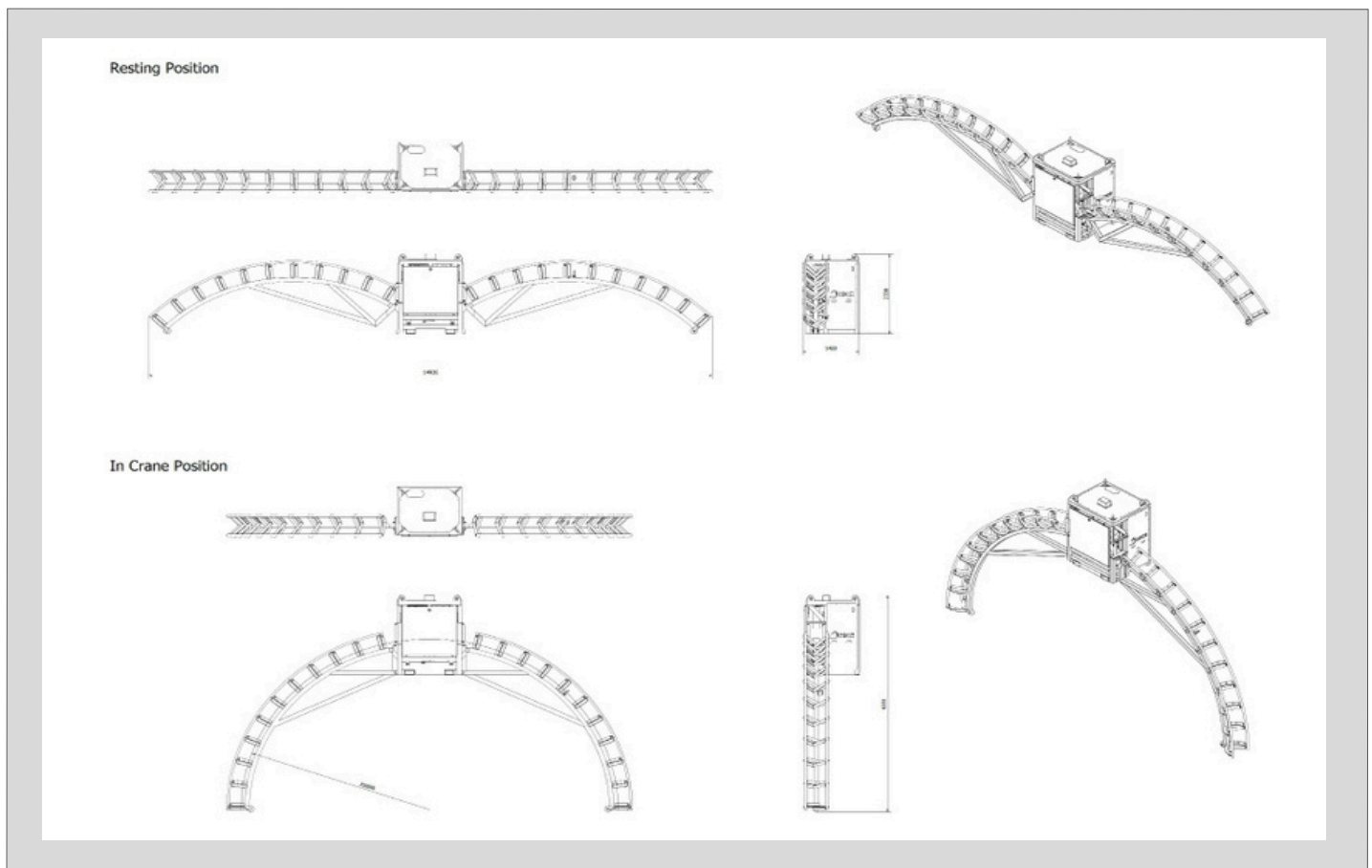
SYSTEM COMPOSITION

The 10Ton Bow Cable Engines comes with four lifting points and compliant with EN ISO 10855. Each unit consists of a built in electro-hydraulic HPU and 2-wheel pair cable engine c/w below system items:

- 1 Set cable quadrants with radius 5m
- 1 Set cable quadrants with radius 3m
- 1 Control cable 40m (length)
- 1 Power cable 440V (c/w CEE connector, 40m length)
- 1 Control panel enclosure (IP)
- 1 Set lifting gear



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.

