

1.4 Te WLL - 3000m - Electric Winch – DS111



TECHNICAL SPECIFICATION

Weight without cable (Kg)	Cable diameter (mm)	Capacity (m)	Line speed (m/min)	WLL (Kg)		Brake (Kg) Minimum 1.5 WLL	
				First Layer	Top Layer	First Layer	Top Layer
1480	8.18	3000	100	1400	690	2100	1035
Supply Required		380-440V-3 Ph- 50/60 Hz		Cable Lead-off Angle		+/-15° Horizontal plane Min + 0° Max + 45° Vertical plane	
Winch Electrical Motor		18.5 Kw IP56 IE3		Frame details		Crash frame with guards, fork lifting pockets and certified lifting lugs	
Local Proportional Control Hardwired Remote Control		Bi-directionally joystick and speed control potentiometer, 50m hard wired remote		Winch drum dimensions		Drum core Ø 368 mm, Drum Length 575 mm, Flange Ø 835 mm	
Level wind		Electrically automatic pulse driven level wind with manual adjustment		Drum details		Plain drum; the wire is stored in 26 lays with 66 turns per lay	
Dimensions (LxWxH) Footprint		1495 x 1275 x 1900 mm 1370 x 1275 mm		Cable		Rochester A302327	
Slip ring		Designed to accept Trolex 4849 Slip Ring or similar not within scope of supply		Render function		HMI and Load Pin to set and measure line tension and limit	

Principle of Operation:

The Winch drum is driven by a 18.5 kW SEW electric gearmotor through an output shaft. The drum motor Variable Speed Drive drives the electrical motor of the Drum with variable speed according to the control signals and rpm setpoint of the potentiometer. The non-drive side housings the bearing and slipping. The Slipping is not within the scope of supply.

The SEW Electric Motor combination is fitted with a failsafe brake unit. The brake, being failsafe, always defaults to on should, for any reason, the electrical supply is lost or the joystick is in its centre (neutral) position.

The level wind electrically driven from the 0.37 kW SEW Electric gearmotor. The level wind is PLC controlled, is automatic with a manual override. The Level wind can be adjusted to accept a variety of cable diameters if required.

The winch is controlled via a joystick and speed potentiometer which are mounted locally on the Electric SSS Winch Enclosure and are duplicated on the remote control console. All electrical motors are fitted with cable glands for EMC protection.

The winch is supplied with the following:

- 1 Set - sacrificial steel feet/mounting plates for mounting at ship
- Marine grade paint system (Details can be supplied on application)
- 12 Month Warranty
- 1 Off – Winch running flashing lights
- Cable glands for EMC protection
- Operation and Maintenance Manual in Electronic Format

Optional extras: - please note these are not in the scope of supply but can be offered at extra cost.

- 1 Off – Slip Ring details to be supplied with order
- 1 Set - Master Links and Shackles or a 4 leg lifting sling and shackles
- 1 Off – Full Spares Kit
- 1 Set - Master Links and Shackles or a 4 leg lifting sling and shackles
- 1 Set – Spare sacrificial feet/mounting plates
- Remote Control wireless
- 1 Off – Extended Warranty



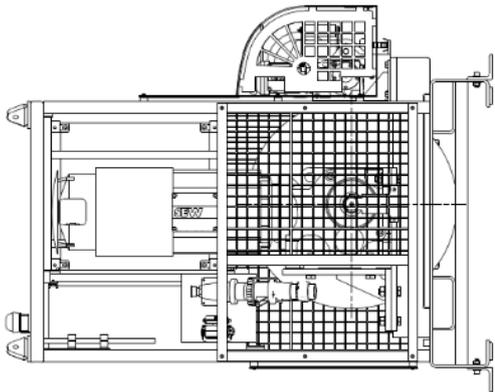
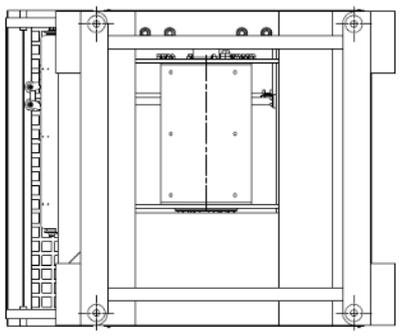
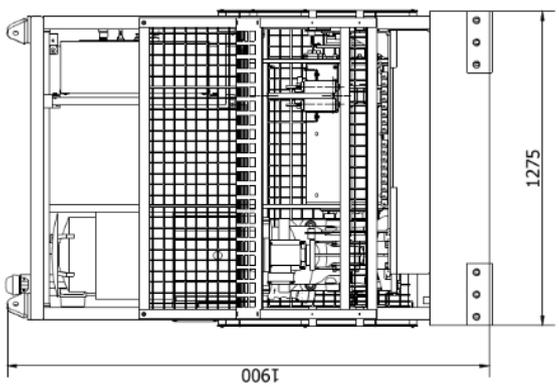
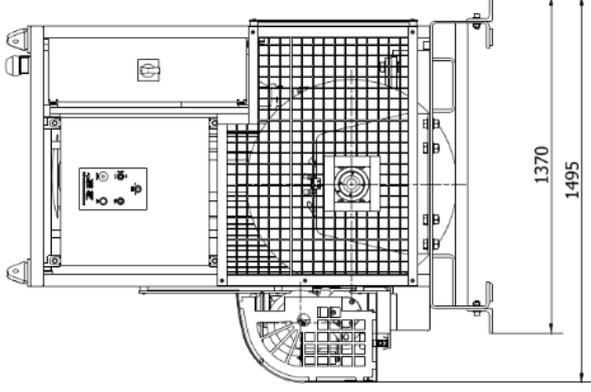
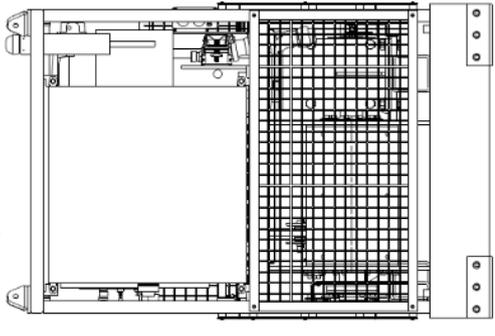
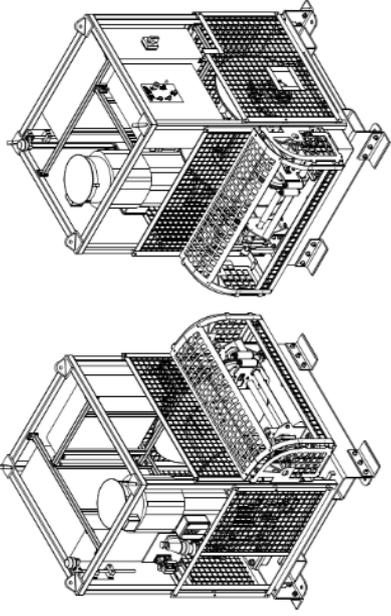
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REV.	DATE	DESCRIPTION	DESIGN.	CHKD.	APPD.
0	10.03.2022		BMI	BMS	BMS
1	01.04.2022		BMI	BMS	BMS



TECHNICAL SPECIFICATION

- Line pull @ BB WLL 1400kgf
- Brake hold 1.5 x WLL (BB) 2100kgf
- Drum capacity 3000m of 8.18mm diameter cable on 26 layers
- Drum core diameter 368mm
- Flange diameter 835mm
- Distance between flanges 575mm
- Line speed at mid layer 100m/min
- Electric motor size 18.5KW + 0.37 KW, 380/400V-3 Ph-50/60Hz
- Overall Dimensions (LxWxH) 1275mm x 1494mm x 1850mm
- Estimated weight (without cable) 1480 g
- Mounting interface for Trolex 4849 slipring
- Cable glands for EMC protection
- RAL colour TBC

ITEM	PART No.	DESCRIPTION	No. OFF.	MATL.	WEIGHT
		ROMICA TIE GROUP TIE RAY, CABLE, BARRIL, EVAS, SASSA@romica.eu www.romica.eu			
ORIGINAL SCALE	TITLE	1.4 TE WLL - 3000m - Electric Winch		DS111	A2 SFT 2 OF 4

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