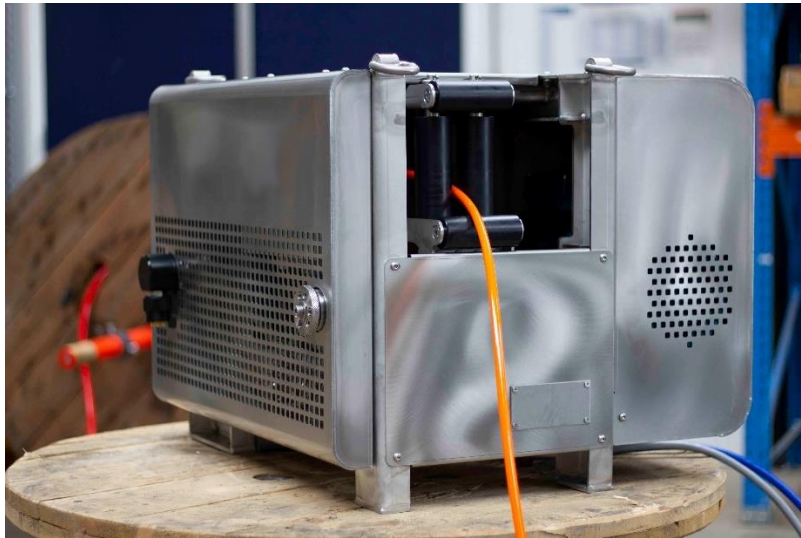


LIER 101

CT winch system



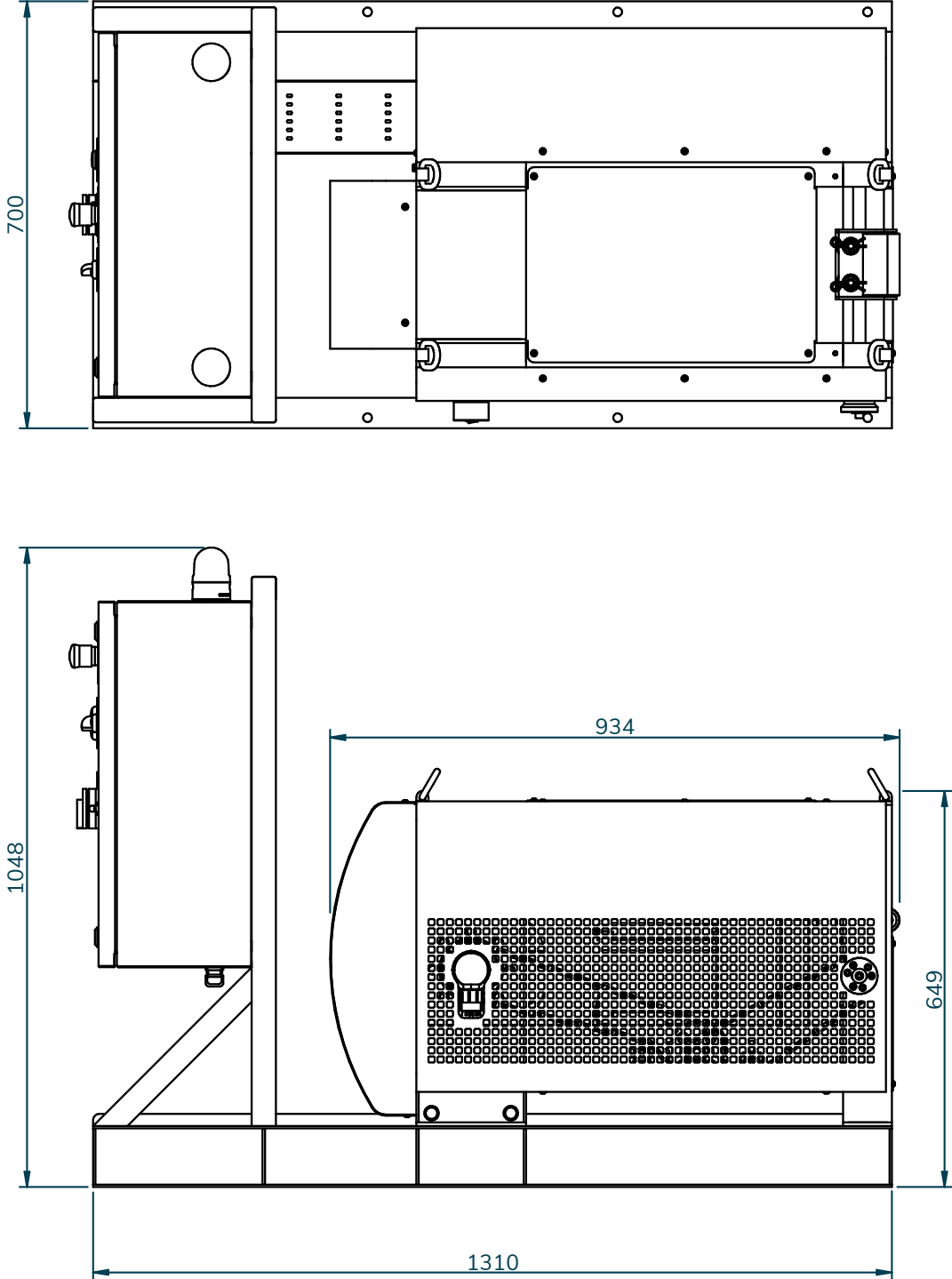
Highlights

- Constant tension load 75kg
- Speed 60m/min @ (bottom layer)
- All stainless steel construction
- Including umbilical and slipping
- Stainless steel control cabinet (AISI 316L)
- 230Vac 50-60Hz supply
- Integrated PLC control
- Incl switch to enable winch mode and constant tension mode

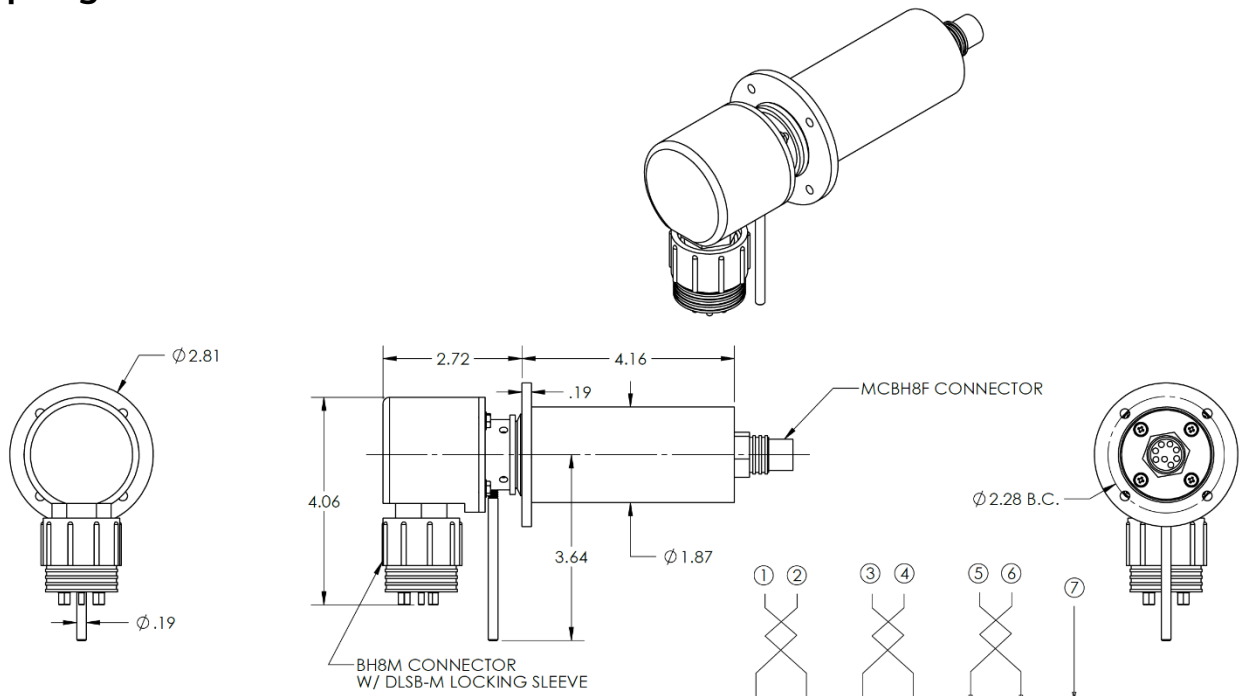
Specifications

Mechanical		Environmental	
- Frame dimensions	See next page	Temperature range	-10 ..+40 °C
- Drum dimensions	Ø260 x Ø425 x 150 dxDxl		
- Drum capacity	65 m		
- Cable/wire Ø	11 mm		
- Layers	5		
- Weight	236 kg (winch, frame, control cabinet and 65 m umbilical)		
Electrical			
- Voltage	230Vac (1 phase), double input w. change-over		
- Power of inverter	2,2 kW		
- Frequency	50-60Hz +/- 5%		
- Slipping	Yes, see below		
- PLC unit integrated	Yes, to control and interface winch		
Performance			
- Max. speed (bottom layer)	0 - 60 m/min		
- Constant tension load	+/- 75 kg		
Notes		Options	
Separate control box		Wireless remote control (details TBD)	
Incl. standard stainless steel control box on 10 m cable		Interfacing to external hardware/software	
Incl. connection cables 10mtr (from cabinet to winch)			
Incl. stainless steel spooling gear			
Incl. pressure roller			

Dimensions



Slipring

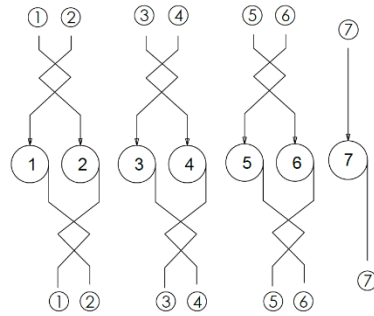


MECHANICAL SPECIFICATIONS:

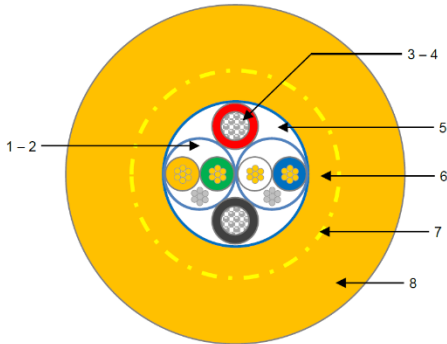
- COIN SILVER RINGS
- SILVER-GRAPHITE CONTACTS
- BALL BEARING ALIGNMENT
- O-RING SEALS
- FACE SEAL
- CONDENSATION SHIELD
- 316 SERIES STAINLESS STEEL ENCASEMENT PARTS
- IP RATING: 67

ELECTRICAL SPECIFICATIONS:

- NUMBER OF PASSES: 7
- CURRENT - 3A
- VOLTAGE - 300V
- WIRE INSULATION: TEFLON
- ELECTRICAL NOISE: +/- 5mOhm



Umbilical



No	Description	Colr	Dia mm
1 2	2 Position Screened Twisted Pairs 0.22mm ² (7/0.20mm) Plain Soft Copper Polyolefin Insulated to 1.10mm 2 no twisted together with tinned copper drain wire in interstice. Overall helical 12/23µm Al/PET foil screen, minimum overlap 50%	OR/GN WH/BU	2.30
3 4	2 Position Conductors 0.50mm ² (16/0.20mm) Tinned Copper HDPE insulated, 0.29mm nom RTI	RD BK	1.50
5	Lay Up Items 1 – 2 twisted together with items 3 – 4 in interstices. Overall Helical PET binding tape, minimum overlap 30%	N/A	4.70
6	Bedding Polyether Polyurethane 4350 85 Shore A UL94 V-2 Flame Retardant Halogen Free 0.75mm nom RTI	OR	6.20
7	Embedded Strength Member Vectran® Fibre Braid, 24/1/2/1666 dTex 20° Pitch	N/A	7.65
8	Jacket Polyether Polyurethane 85 Shore A Halogen Free 1.68mm nom RTI (Low Friction)	OR	11.00 +/- 0.30

Notes	
Electrical Characteristics 0.22mm² Screened Twisted Pairs Maximum Conductor Resistance Calculated Characteristic Impedance Calculated Mutual Capacitance Max Recommended Voltage	97.50 Ω/KM @ 20°C 85 Ω 82 pF/m 100 V
0.50mm² Conductors Maximum Conductor Resistance Max Recommended Voltage Max Recommended Current / Conductor	44.40 Ω/KM @ 20°C 500 V 3 A
General Minimum Insulation Resistance Core – Core Core – Screen	>900 MΩ/KM @ 250V >500 MΩ/KM @ 250V
Mechanical Characteristics Maximum Operating Temp Static Dynamic Cold Flex Temp Minimum Break Load Recommended Safe Workload Min Recommended Bend Radius Static Dynamic Nominal Weight In Air In Sea Water @ SG 1.025	+90°C +80°C -40°C 1,500 KGF 380 KGF 66 mm 130 mm 112 KG/KM 15 KG/KM
Print Details Text: Colour: Black Repeat: 1000mm	

