

VORTEX Sub Sea winch

180kg Hydraulic camera and tooling winch



Features Include

- ROV or topside hydraulics compatible.
- 1.93 in3 / rev powerful and constant operating torque motor with 180kg capacity.
- Heavy duty worm gearbox with 50:1 gear ratio provides smooth line speed.
- Stainless steel and Acetal construction.
- Oil filled Gearbox for operation at depth.
- load holding via worm gearbox provides controlled lowering and full load holding - no brake needed.
- Recommended for tooling packages and down hole cameras.
- Depth rating 3000mtr

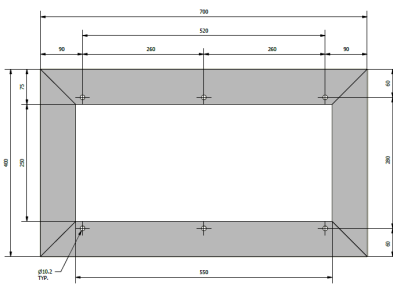
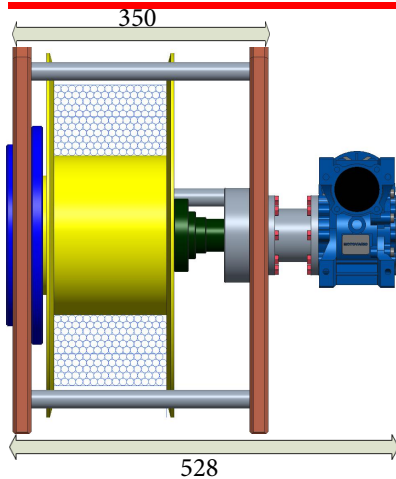
Specifications

• Rated Line Pull:	180 kg / 442 lb at 11th layer of cable
• Line Speed in:	@ 16 LPM oil flow = 6.8 mtr/min at first layer of cable @ 180kg lift
• Operation Pressure:	70 bar/ 1000 psi. Maximum pressure 100bar / 1450psi
• Max Oil Flow:	16 l / maximum
• Hydraulic Motor:	OMM32 1.93 in3 / rev
• Gear Train:	Worm drive gearbox to stainless chains and sprockets
• Gear box Ratio:	50:1
• Winch Construction:	Stainless steel and Acetyl
• Brake:	N/A. Winch uses worm drive gearbox for load holding
• Rotation of Winch:	Over-wound orientation only
• Drum Barrel Diameter:	214 mm
• Drum Flange Diameter:	400 mm
• Distance Between Flanges:	166 mm
• Cable size Recommended:	9mm +/- 0.1mm
• Level wind:	Stainless diamond bar with integral fairlead
• Total cable length:	Approximately 140 with 9mm OD cable
• Slip rings:	MOFLON MFS028-S08-IP68-VD OD 28mm, 8Xsignal, Max speed 200RPM, IP68, stainless steel housing, Industrial quality version(VD), Oil filled with comp tube

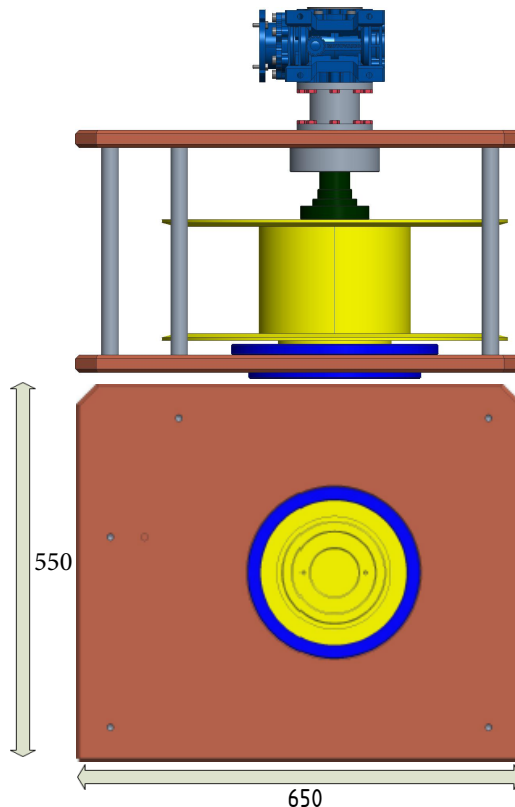
Line Pull and Rope Capacity

Layer of Wire Rope	Test pull weight kg / lb	Total cable on Drum (m)	Line Speed pulling in at 16 lpm (mtr/min)	Line Speed paying out at 16lpm (mtr/min)	Hyd pressure required Bar / psi
1 st	180 / 442	8.2	6.8	9.3	39.9 / 580
11th	180 / 442	70.1	10	12	55.1 / 800

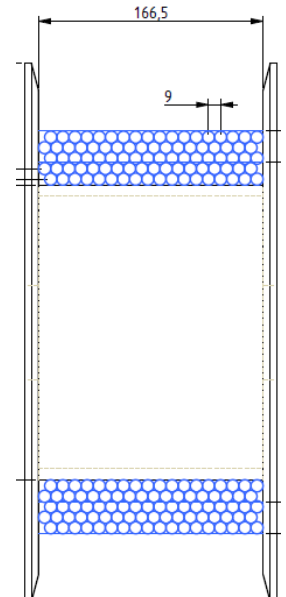
Dimensions mm



Mounting bolts pattern: M10.5 holes
260 x 260 & 280 mm



Row 1 (6 Pre-Wraps) = 4.128m @ ID 219
Row 1 (12 Wraps) = 8.257m @ ID 219
Total Of 6 Pre-Wraps = 4.13m
Total After 6 Pre-Wraps = 66.38m
Total Including 6 Pre-Wraps = 70.5m



Packaging

Weight in air: 59kg
Weight in water: 39kg
Dimensions: 650mm L x 550mm high x 528mm wide

Standard Accessories

Roller fairlead

- The rated line pull shown is based on the first layer of cable on the drum.
- ALWAYS have at least 6 wraps of cable on the drum at all times.

Warranty

Limited lifetime warranty for mechanical components and one year warranty for electrical components from date of purchase.