TITANROB M501 5-F MINI MANIPULATOR

LOW WEIGHT HIGH FORCE RELIABLE



The TitanRob M501 is a five-function hydraulic manipulator made of titanium and developed for Observation- and Light Work Class ROVs. It is a manipulator with enhanced characteristics of weight/power ratio and capabilities: by using titanium as main material, lower weight and more mechanical characteristics are achieved which allows for improved dimensioning.

Resistant, lightweight, and reliable; it`s designed for heavy duty ROV works and robotics which require manipulation operations.

The grabber can be operated by any low power (1kW) HPU and solenoids(x5) valve pack fitted in the ROV vehicle.

Typical Operations

- Observation & Light Weight Work ROV
- Fish Farming
- Seabed exploration
- Seabed mining
- Robotics

Features

- Robust construction
- Low weight 11 kg submerged
- Corrosion resistant materials
- High force
- Submersible to 3 000m seawater
- Service- and user friendly
- Cost effective
- Left and right hand configuration
- Low power consumption



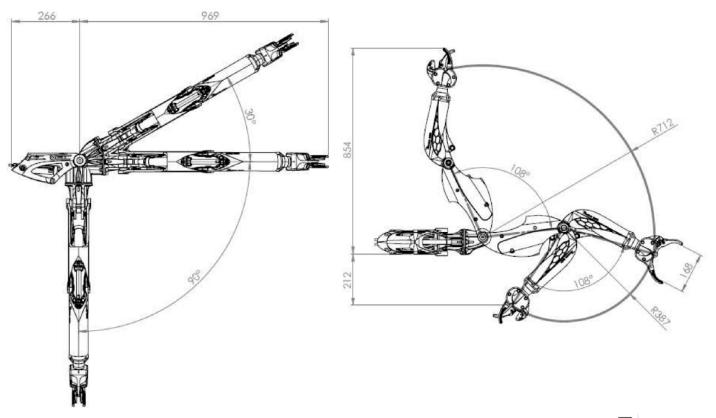
SPECIFICATIONS TITANROB M501 5-F MINI MANIPLULATOR

General technical specification

Type OEM Envirex part no Depth rating Weight (in air / Submerged) Max reach Lift at full extension Max lift	m kg mm kg kg	TitanRob M-501 5-F Mini Manipulator TianRob 2214908 (left hand) 3 000 14 / 11 950 40 @ 140bar 50 @ 140bar
Yaw grip	kgf	80
Yaw torque	Nm	45
Dimension stowed - LxWxH	mm	300 x 512 x 450
Operation temperature	°C	-5 to 55
Construction main materials		Ti6Al4V Titanium
		AISI 316 SS
Functions		
Shoulder Azimuth (yaw)	0	120 (+90 / -30)
Shoulder Pitch	0	108
Elbow Pitch	0	108
Jaw Rotate	0	360 continuous
Jaw Opening	mm	168
Hydraulic requirements		
Max WP	bar	140
Test pressure	bar	200
Min Flow	l/min	1,5
Max fluid temp.	°C	55
Fluids	-	Mineral based oils (ISO 32, etc)
		** UE Eluida en reguest / sensult sumplier

** HF-Fluids on request / consult supplier.

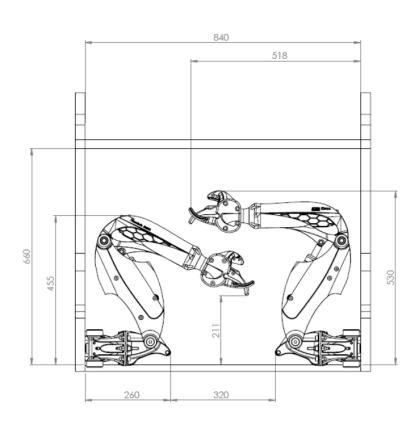
Dimensions

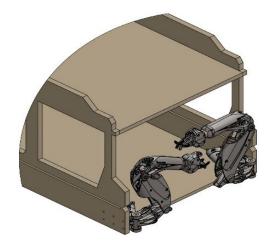


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