

TITANROB G501 5-F MINI GRABBER

LOW WEIGHT
HIGH FORCE
RELIABLE



The TitanRob G501 is a five-function hydraulic grabber 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 – 13 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 G501 5-F MINI GRABBER

General technical specification

Type		TitanRob G501 5-F Mini Grabber
OEM		TianRob
Envirex part no		2214910 (left hand)
Depth rating	M	3 000
Weight (in air / Submerged)	kg	15 / 13
Max reach	mm	800
Lift at full extension	kg	80 @ 150bar
Max lift	kg	100 @ 150bar
Yaw grip	kgf	250
Yaw torque	Nm	80
Dimension stowed - LxWxH	mm	290 x 230 x 783
Operation temperature	°C	-5 to 55
Construction main materials		Ti6Al4V Titanium AISI 316 SS

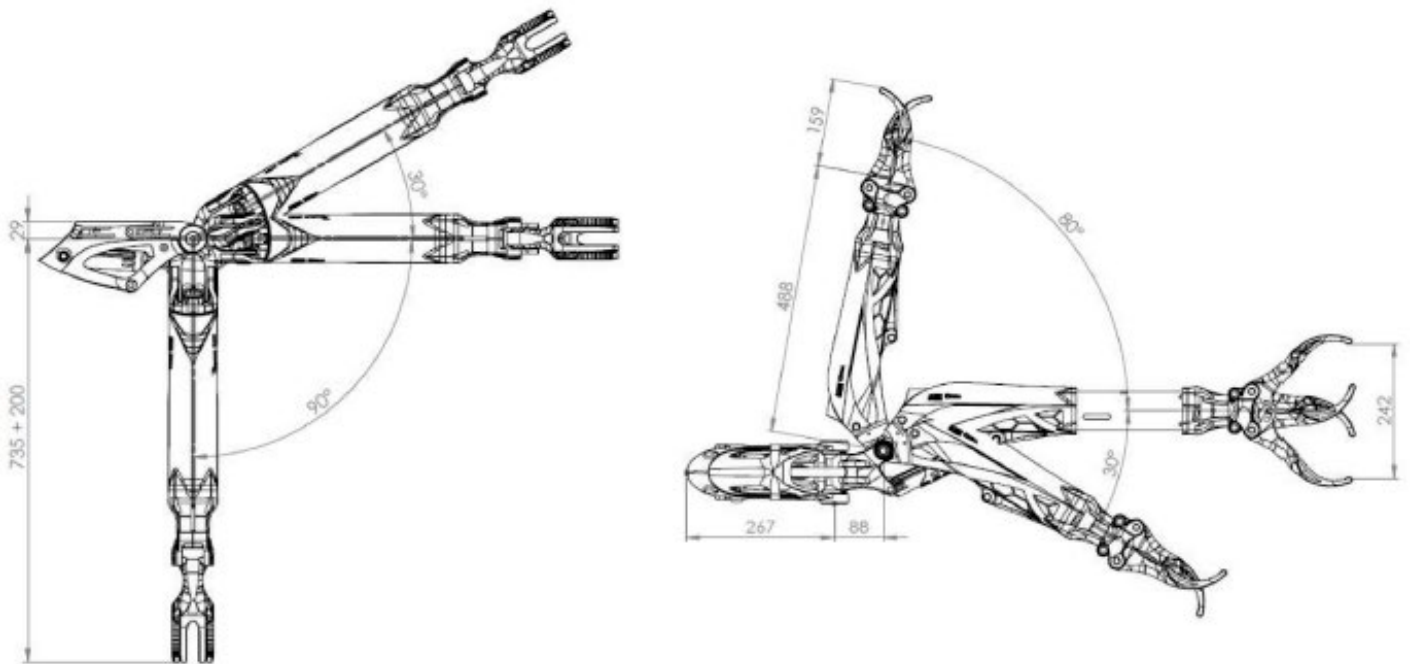
Functions

Shoulder Azimuth (yaw)	°	120 (+90 / -30)
Shoulder Pitch	°	110 (+80 / -30)
Shoulder Extension	mm	180
Jaw Rotate	°	360 continuous
Jaw Opening	mm	255

Hydraulic requirements

Max WP	bar	160
Test pressure	bar	200
Min Flow	l/min	1,5
Max fluid temp.	°C	55
Fluids		Mineral based oils (ISO 32, etc) ** HF-Fluids on request / consult supplier.

Dimensions



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