

TMI-Orion



Electrical Manipulator Arm



Reliable and rugged standard module for underwater manipulation operations.

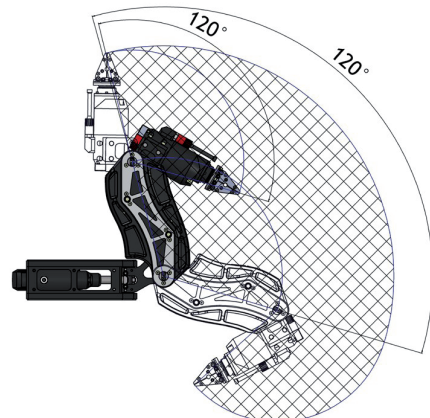
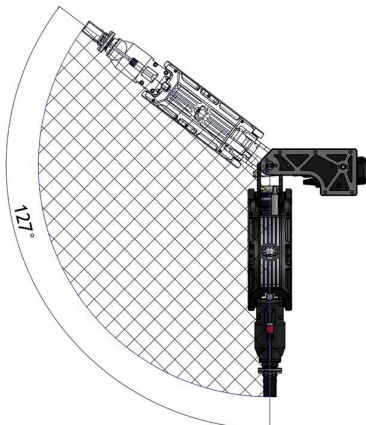
The Electrical manipulator arm (EMA) is a high performance, compact and reliable multi-function module designed for underwater operation.

- 3, 4 or 5 functions : slew, elevation, elbow, rotate, jaw (close/open)
- 3 connectors available for add-on capacities (cameras, projectors, lasers...)
- Easy to operate - Easy to switch
- Maintenance free
- Easy mounting for left or right arm
- Can be mounted on TMI-Orion ROV platforms or retrofitted to most ROV systems

TECHNICAL SPECIFICATIONS

Functions	Slew	Elevation	Elbow bend	Jaw	Jaw rotation
	127°	120°	120°	close/open	continuous

Depth rating	500 m
Lift capabilities (full extension)	16 kg dynamic 50 kg static strength
Full reach length (fully extended from slew pivot)	700 mm





TECHNICAL SPECIFICATIONS

Material	Polyethylene and hard anodized aluminum 5083
Weight	15 kg (in air) 8 kg (in fresh water)
Height in stowed position	459 mm
Operating temperature	-10°C to +45°C
Storage temperature	-30°C to 85°C
Power supply	9 to 24 Vdc / Power 150 W max
Serial control bus	RS 485
Connector	SubConn MCBH8M
Add-on capacity	3 connectors

SPECIAL FEATURES

- 3, 4 or 5 functions - Multiple jaws available
- 3 connectors available for add-on capacities (cameras, projectors, lasers...)
- Easy to operate - Easy to switch
- Compact design with embedded electronic controller (No additional POD required)
- Eco-friendly: oil-free, no oil contamination risk
- Maintenance free
- Easy mounting for left or right arm
- Skid mounted option on TMI-Orion platforms
- Compatible with most ROV systems

SOFTWARE AND RELATED PRODUCTS

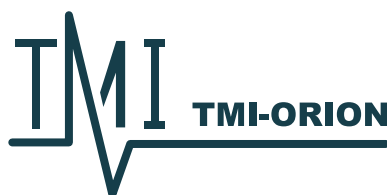
Monitoring software

The Electrical Manipulator Arm comes with a companion monitoring software dedicated to remote operation from surface control unit.

Other products

The Electrical Manipulator Arm can also be equipped with other TMI-Orion standard modules such as cameras, sensors...

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