

A STRONG, DEXTEROUS SUBSEA MANIPULATOR FOR INSPECTION CLASS ROVS



Be Confident. The Reach 7 is an all-electric 7-Function arm that opens up a new set of compact inspection opportunities.

Designed to conduct tasks usually reserved for human divers, this seven-function manipulator is smart and tough. Its form factor was specifically designed for industry leading inspection-class ROVs making it a ready-to-go option for existing fleets.

The Reach 7 enables complex inspection tasks, underwater valve manipulation, and Special Recovery Operations. With a large operating envelope and master arm controller, the Reach 7 provides a previously unavailable capability multiplier to ROV operators.

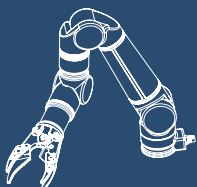
FEATURES

- Ready-built and designed for industry leading inspection-class vehicles
- Master Arm Controlled
- All-Electric, Zero Oil
- Highly Modular and Configurable; 1 to 7-function versions available
- End-effector interchangeable (grabbers, probes, cutters)
- Embedded controllers - no additional POD
- Adjustable grab force - pick up a sea urchin or cut a cable
- One-click home position
- Corrosion and scratch resistant anodized aluminium

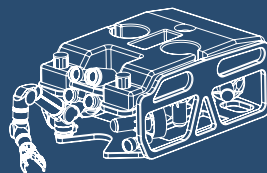
SPECS

- Reach: 0.85m
- Max Outer Diameter: 90mm
- Lift at full reach: 12kg
- Joint Speed: 120deg/s
- Grabber Opening: 210mm
- End-effector Accuracy: <1cm
- Water Weight: 4.5kg
- Depth Rating: 300MSW
- Voltage Input: 24-48V
- Power Requirement: 150W Nominal, 800W Max
- Bus Control: RS485/Ethercat

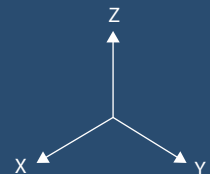
DEXTEROUS
7-Function and Modular



RUGGED
300-6000m Depth Rating



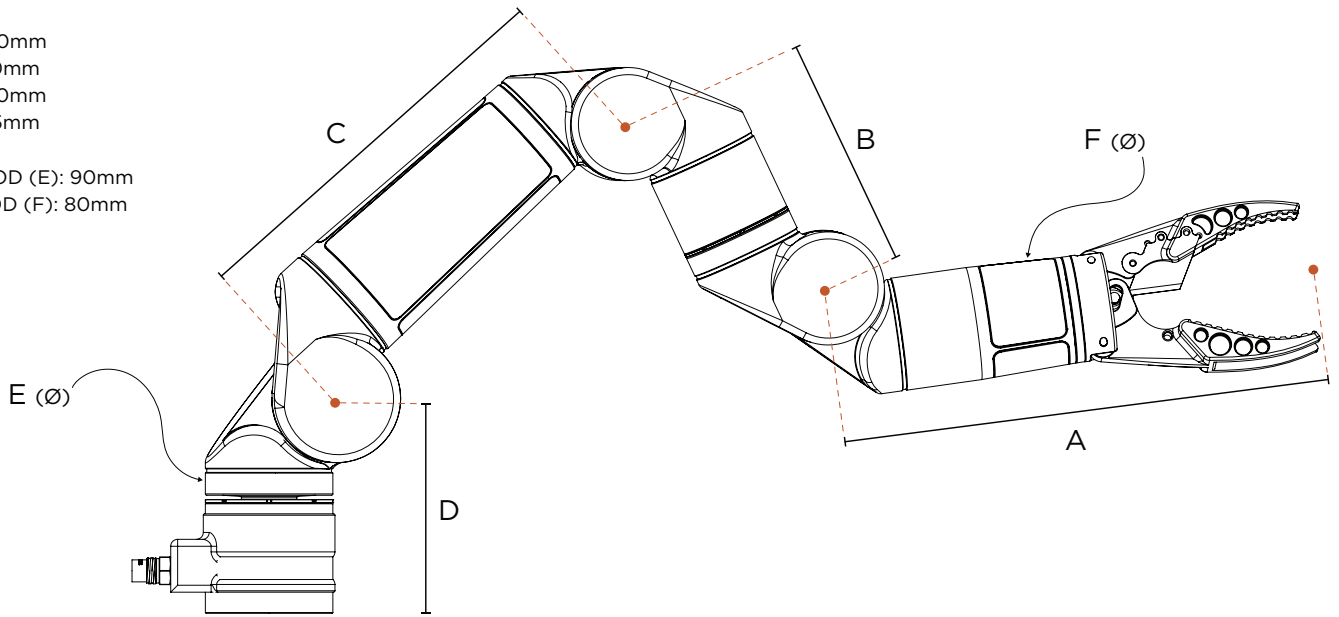
SMART
In-Built Kinematics



REACH 7

A: 350mm
 B: 170mm
 C: 290mm
 D: 155mm

Max OD (E): 90mm
 Min OD (F): 80mm



MECHANICAL

Lift Capacity 12kg
 Weight (air) 8kg
 Weight (water) 4.5kg



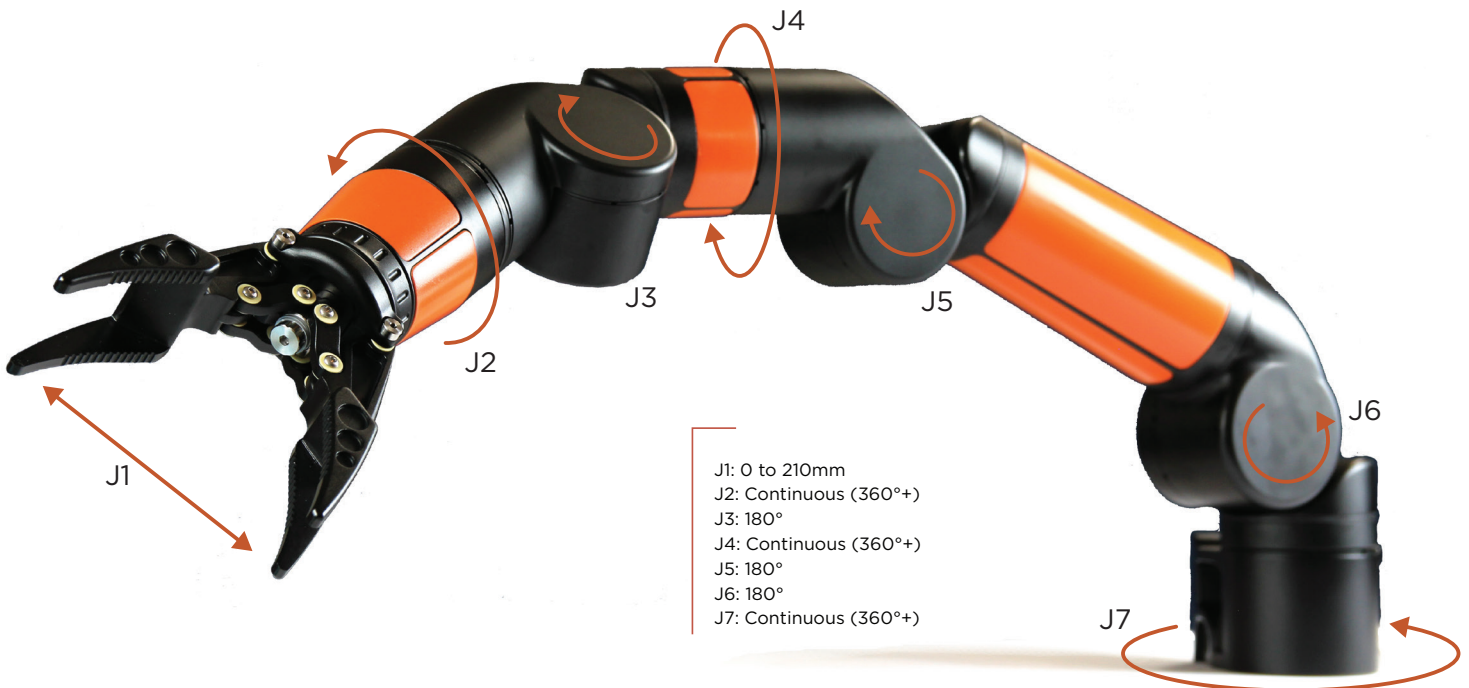
ELECTRICAL

Voltage 24-48V
 Wattage 800W Max
 COMS RS485/Ethercat



ENVIRONMENTAL

Depth 300MSW
 Temp -35°C to 35°C
 Material AL 6061



J1: 0 to 210mm
 J2: Continuous (360°+)
 J3: 180°
 J4: Continuous (360°+)
 J5: 180°
 J6: 180°
 J7: Continuous (360°+)