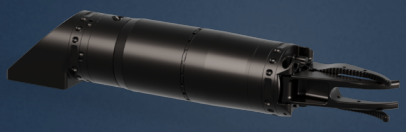
REACH ROBOTICS

RX-2XXX

X 2

2-FUNCTION MANIPULATOR

A durable, portable dual function manipulator for intervention in defence and commercial industry operations.



LIGHTWEIGHT & COMPACT
Small footprint for easy integration

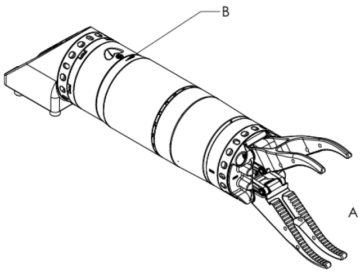
RELIABLE PERFORMANCE
Engineered for tough underwater conditions

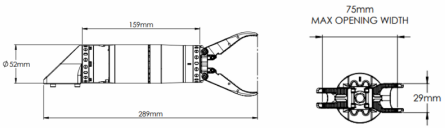
FIELD SERVICEABLE
Quick maintenance with replaceable components

EASY TO INTEGRATE
Simple mechanical and electrical interfaces

Lift Capacity	Reach	Functions	In-Air Weight	Depth Rating
N/A	**190 mm / 7.5 in**	**2**	**0.95 kg / 2 lb**	**300 MSW / 980 ft**

TECHNICAL DRAWINGS





JOINT ROTATION	
A	**Max open 75 mm**
B	**360° (continuous)**

COMPONENT DIMENSIONS	
A	**289 mm**
B	**159 mm**
C	**Ø52 mm**
D	**75 mm**
E	**29 mm**

END EFFECTOR OPTIONS

CUTTER JAWS
RX-5030

PARALLEL JAWS
RX-5020

STANDARD JAWS
RX-5010

KEY FEATURES

- All-Electric.
- Designed and Tested for Harsh Environments.
- Intuitive User Interface with 3D Visualisation and Telemetry.
- Software Developer Kit (SDK) for Custom Control Applications.
- Available with high force cutter attachment.

MOUNTING KITS

Contact us at sales@reachrobotics.com for mounting options.

CONTROLLER OPTIONS

You can use our Software Development Kit (SDK), available with the purchase of a manipulator, or map movements to your existing ROV controller. For more information, contact sales@reachrobotics.com.

ACCESSORIES

No accessories tagged for this product line.

SPECIFICATIONS	REACH X 7 AIS	REACH X 7	REACH X 5	REACH X 3	REACH X 2	REACH X 5 AIS
Functions	7	7	5	3	2	5
Reach	470 mm / 18.5 in	470 mm / 18.5 in	411 mm / 16.8 in	280 mm / 11.0 in	190 mm / 7.5 in	365 mm / 14.4 in
Wrist Rotation Torque	6 Nm / 53 lb-in	6 Nm / 53 lb-in	6 Nm / 53 lb-in	6 Nm / 53 lb-in	6 Nm / 53 lb-in	6 Nm / 53 lb-in
Wrist Rotation Speed	140° / s	140° / s	140° / s	140° / s	140° / s	140° / s
Grab Speed	3 s	3 s	3 s	3 s	3 s	3 s
Grab Force	25 kg / 55 lb	25 kg / 55 lb	25 kg / 55 lb	25 kg / 55 lb	25 kg / 55 lb	25 kg / 55 lb
Lift Capacity	6 kg / 13.2 lb	3 kg / 6.6 lb	3 kg / 6.6 lb	3 kg / 6.6 lb	N/A	6 kg / 13.2 lb
Weight (Air)	2.9 kg / 6.4 lb	2.9 kg / 6.4 lb	2.3 kg / 5 lb	1.6 kg / 3.5 lb	0.95 kg / 2 lb	2.3 kg / 5 lb
Weight (Water)	1.8 kg / 4 lb	1.8 kg / 4 lb	1.9 kg / 4.2 lb	0.95 kg / 2 lb	0.73 kg / 1.6 lb	1.6 kg / 3.5 lb
Outer Diameter	50 mm / 2 in	50 mm / 2 in	50 mm / 2 in	50 mm / 2 in	50 mm / 2 in	50 mm / 2 in
Connector Cable	Teledyne 6 Pin IE55 Impulse Cable	Teledyne 6 Pin IE55 Impulse Cable	Teledyne 6 Pin IE55 Impulse Cable	Teledyne 6 Pin IE55 Impulse Cable	Teledyne 6 Pin IE55 Impulse Cable	Teledyne 6 Pin IE55 Impulse Cable
Control Modes	Position, Velocity, Cartesian Velocity (X, Y, Z, R, P, Y)	Position, Velocity, Cartesian Velocity (X, Y, Z, R, P, Y)	Position, Velocity, Cartesian Velocity (X, Y, Z)	Position, Velocity	Position, Velocity	Position, Velocity, Cartesian Velocity (X, Y, Z, R, P, Y)
Voltage	24 - 30V	24 - 30V	24 - 30 V	24 - 30 V	24 - 30 V	24 - 30V
Power (Nominal)	360 W	180 W	120 W	90 W	60 W	240 W
COMS	Ethernet	Serial (232 / 485) AND Ethernet	Serial (232 / 485) OR Ethernet	Serial (232 / 485) OR Ethernet	Serial (232 / 485) OR Ethernet	Ethernet
Rated Depth	300 MSW / 980 ft	300 MSW / 980 ft	300 MSW / 980 ft	300 MSW / 980 ft	300 MSW / 980 ft	300 MSW / 980 ft
Rated Temp	5 - 30 °C / 41 - 86 °F (water)	5 - 30 °C / 41 - 86 °F (water)	5 - 30 °C / 41 - 86 °F (water)	5 - 30 °C / 41 - 86 °F (water)	5 - 30 °C / 41 - 86 °F (water)	5 - 30 °C / 41 - 86 °F (water)
Storage Temp	-10 - 80 °C / 14 - 176 °F (air)	-10 - 80 °C / 14 - 176 °F (air)	-10 - 80 °C / 14 - 176 °F (air)	-10 - 80 °C / 14 - 176 °F (air)	-10 - 80 °C / 14 - 176 °F (air)	-10 - 80 °C / 14 - 176 °F (air)