REACH ROBOTICS

RX7-AIS

X 7 AIS

ADVANCED INTERVENTION SYSTEM

Adaptive remote intervention for frontline critical forces.

LIGHTWEIGHT & COMPACT
Small footprint for easy integration

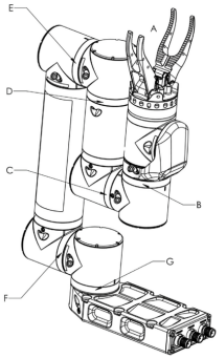
RELIABLE PERFORMANCE
Engineered for tough underwater conditions

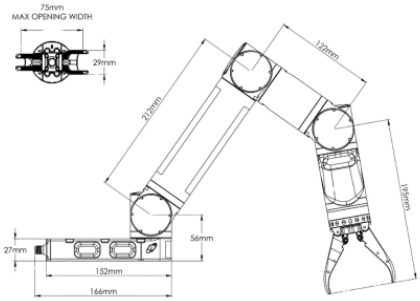
FIELD SERVICEABLE
Quick maintenance with replaceable components

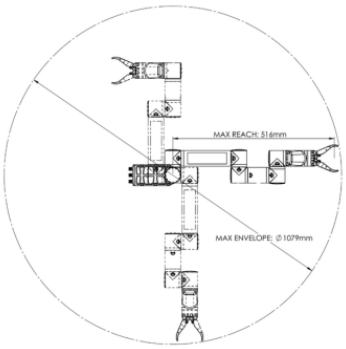
EASY TO INTEGRATE
Simple mechanical and electrical interfaces

Lift Capacity	Reach	Functions	In-Air Weight	Depth Rating
6 kg / 13.2 lb	**470 mm / 18.5 in**	**7**	**2.9 kg / 6.4 lb**	**300 MSW / 980 ft**

TECHNICAL DRAWINGS







JOINT ROTATION	
A	Max open 75 mm
B	360° (continuous)
C	360° (continuous)
D	360° (continuous)
E	360° (continuous)
F	360° (continuous)
G	360° (continuous)

COMPONENT DIMENSIONS	
A	Max open 75 mm
B	29 mm
C	166 mm
D	152 mm
E	27 mm
F	56 mm
G	212 mm
H	122 mm
I	195 mm

RANGE OF MOTION		
A	Max Reach	516 mm
B	Max Envelope	Ø1079mm

END EFFECTOR OPTIONS

CUTTER JAWS
RX-5030

PARALLEL JAWS
RX-5020

STANDARD JAWS
RX-5010

KEY FEATURES

- All-Electric.
- Dual RX-7s for Dextrous Manipulation.
- Designed and Tested for Harsh Environments.
- Collision Avoidance for Operator Peace of Mind.
- Intuitive User Interface with 3D Visualisation and Telemetry.
- Intelligent End-Effector Control and Collision Aware Path Planning.
- Integrated wrist camera for increased situational awareness.
- CommandPod Controllers.

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)