REACH ROBOTICS

RB-7XXX

BRAVO 7

7-FUNCTION MANIPULATOR

Work Class Capability on Inspection Class Vehicles.

LIGHTWEIGHT & COMPACT
Small footprint for easy integration

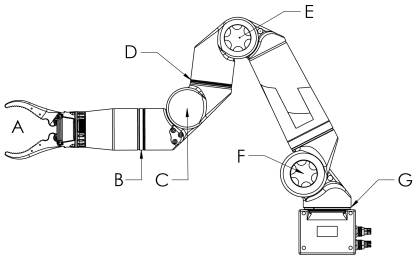
RELIABLE PERFORMANCE
Engineered for tough underwater conditions

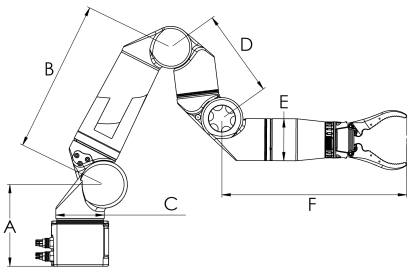
FIELD SERVICEABLE
Quick maintenance with replaceable components

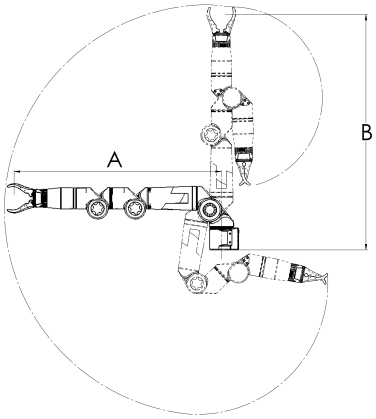
EASY TO INTEGRATE
Simple mechanical and electrical interfaces

Lift Capacity	Reach	Functions	In-Air Weight	Depth Rating
10 kg / 22 lb	**900 mm / 33.5 in**	**7**	**9.5 kg / 21 lb**	**450 MSW / 1480 ft**

TECHNICAL DRAWINGS







JOINT ROTATION	
A	118mm
B	360° (continuous)
C	180°
D	360° (continuous)
E	180°
F	180°
G	360° (continuous)

COMPONENT DIMENSIONS	
A	159mm
B	297mm
C	Ø94mm
D	170mm
E	Ø82mm
F	358mm

RANGE OF MOTION	
A	823mm
B	935mm

END EFFECTOR OPTIONS

CUTTER JAWS
RB-1042

END-EFFECTOR INTERFACE
RB-1054

PARALLEL JAWS
RB-1034

QUAD JAWS
RB-1041

WIDE QUAD JAWS
RB-1025

KEY FEATURES

- All-Electric.
- 7-Functions 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.

MOUNTING KITS

REACH BRAVO FALCON INTEGRATION KIT
Seamless integration kit for the Saab Seaeye Falcon ROV

CONTROLLER OPTIONS

7 FUNCTION MASTER ARM
Intuitive plug & play controllers for Reach Robotics manipulators

ACCESSORIES

REACH BRAVO IP WRIST CAMERA
A wrist camera for Reach Bravo manipulators

REACH BRAVO VACUUM PULLING KIT
Maintain and Monitor

SPECIFICATIONS	REACH BRAVO 7	REACH BRAVO 5	REACH BRAVO 3	REACH BRAVO 2
Functions	7	5	3	2
Reach	900 mm / 33.5 in	700 mm / 27.6 in	360 mm / 14.2 in	270 mm / 10.6 in
Wrist Rotation Torque	20 Nm / 177 lb-in	20 Nm / 177 lb-in	20 Nm / 177 lb-in	20 Nm / 177 lb-in
Wrist Rotation Speed	68° / s	68° / s	68° / s	68° / s
Grab Speed	3 s	3 s	3 s	3 s
Grab Force	80 kg / 44 lb	80 kg / 44 lb	80 kg / 44 lb	80 kg / 44 lb
Lift Capacity	10 kg / 22 lb	12 kg / 26 lb	15 kg / 33 lb	N/A
Weight (Air)	9.5 kg / 21 lb	7.5 kg / 16.5 lb	4 kg / 9 lb	2.8 kg / 6 lb
Weight (Water)	4.5 kg / 10 lb	4 kg / 9 lb	2.6 kg / 5.7 lb	1.6 kg / 3.5 lb
Outer Diameter	92 mm / 3.6 in	92 mm / 3.6 in	82 mm / 3.2 in	82 mm / 3.2 in
Connector Cable	8 Pin Subconn (Communications), 4 Pin Subconn (Power)	8 Pin Subconn (Communications), 4 Pin Subconn (Power)	13 Pin Ethernet Subconn (DBH13M)	13 Pin Ethernet Subcon (DBH13M)
Control Modes	Position, Velocity, Cartesian Velocity (X, Y, Z, R, P, Y)	Position, Velocity, Cartesian Velocity (X, Y, Z)	Position, Velocity	Position, Velocity
Voltage	24 - 48 V	24 - 48 V	24 - 48 V	24 - 48 V
Power (Nominal)	400 W	200 W	100 W	75 W
COMS	Serial (232 / 485) AND Ethernet	Serial (232 / 485) AND Ethernet	Serial (232 / 485) AND Ethernet	Serial (232 / 485) AND Ethernet
Rated Depth	450 MSW / 1480 ft	450 MSW / 1480 ft	450 MSW / 1480 ft	450 MSW / 1480 ft
Rated Temp	5 - 35 °C / 41 - 95 °F	5 - 35 °C / 41 - 95 °F	5 - 35 °C / 41 - 95 °F	5 - 35 °C / 41 - 95 °F
Storage Temp	-10 - 80 °C / 14 - 176 °F	-10 - 80 °C / 14 - 176 °F	-10 - 80 °C / 14 - 176 °F	-10 - 80 °C / 14 - 176 °F