

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
10 kg / 22 lb

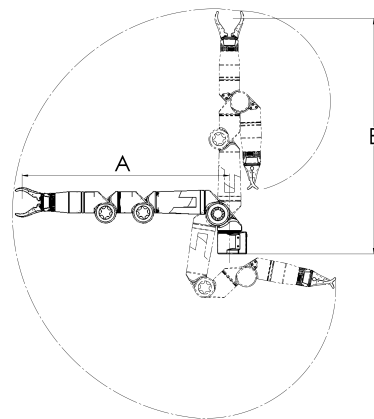
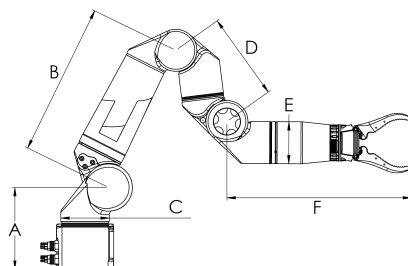
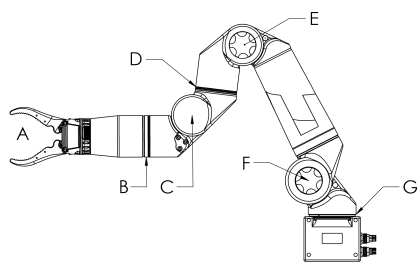
Reach
900 mm / 33.5 in

Functions
7

In-Air Weight
9.5 kg / 21 lb

Depth Rating
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