

Mission Specialist Defender Manipulator Eddyfi Technologies Inuktun Dual Axis

The Inuktun 2-Function Manipulator is a deep-sea articulating gripper with an array of interchangeable jaw sets. The device is capable of high closing forces and provides an additional rotation feature to position the jaws in relation to the work piece. The pressure compensated housing allows the manipulator to dive to the depths of the ocean, and anodized aluminum and stainless steel 316 parts and fasteners allow it to thrive there. Individual quick-change jaws are listed to the right.



Parallel Jaw



V-Jaw



Sampler Jaw



Trident Jaw



Cutter Jaw



Specifications

Maximum actuator axial shaft force	90 kgf (200 lbf)
Maximum Rotation Speed	14 RPM, 360 deg continuous
Maximum Depth (Sea Water)	5000 m (16,000 ft)
Dry weight	0.9 kgf (2.0 lbf)
Wet Weight (Sea Water)	0.6 kgf (1.4 lbf)
Working Temperature	0 °-50 °C (32 °-122 °F)

Jaw Set	Closing Force: kgf [lbf]		Weight: kg [lb]		Max Work Piece Size:	Time Open/ Close
	Min	Max	Dry	Wet (SW)	cm [in]	Seconds
Cutter	82 [180]		0.346 [0.763]	0.25 [0.55]	2.0 [0.78]	7
Trident	7 [15]	20 [45]	0.310 [0.683]	0.180 [0.397]	11.4 [4.5]	5
V Jaw	5 [10]	18 [40]	0.317 [0.699]	0.202 [0.445]	17.0 [6.7]	7
Parallel	11 [25]	23 [50]	0.325 [0.717]	0.207 [0.456]	5.6 [2.2]	7
Sampler	5 [10]	18 [40]	0.330 [0.728]	0.193 [0.425]	45ml [1.5oz]	7

*Min and max closing forces are at the tip and base of the jaws, respectively.