MOT-P150ESC-24V Underwater Thruster — Technical Specification

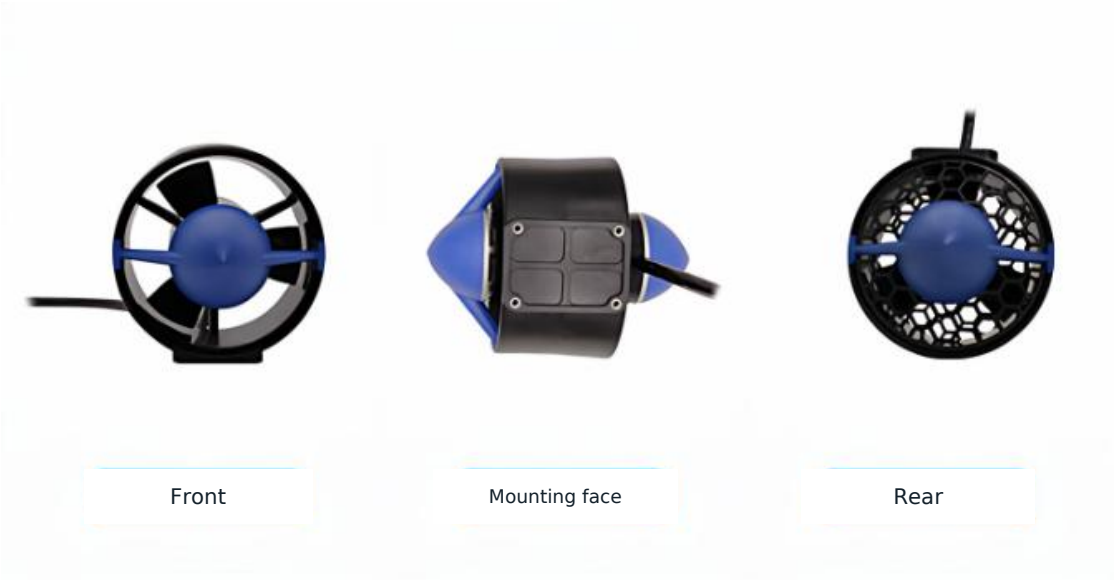


Company	AQUROV ROBOTICS
Document	MOT-P150ESC-24V Underwater Thruster Technical Specification
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1. Product application

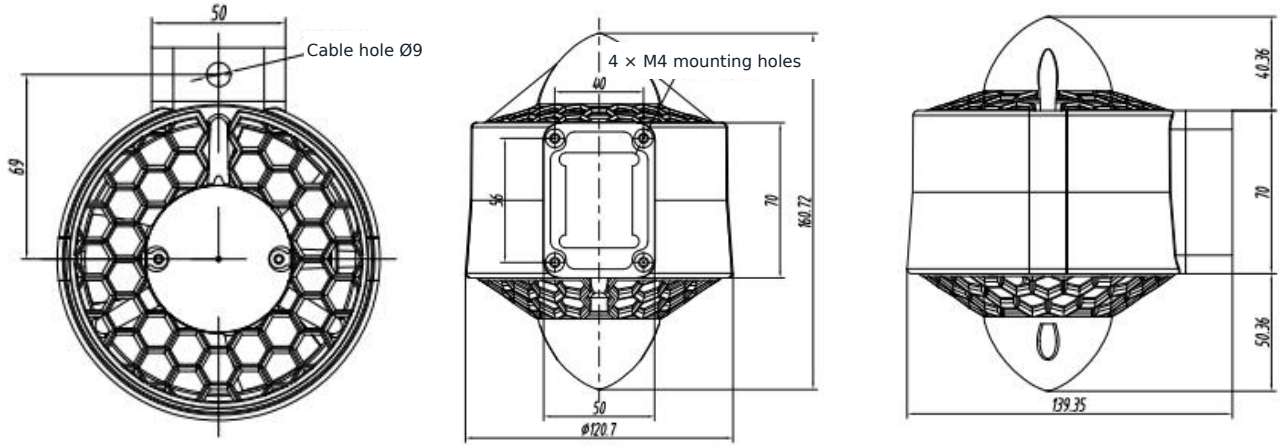
The MOT-P150ESC-24V underwater thruster is designed for underwater robots, uncrewed vessels and other submerged equipment. Its screwless quick-release design permits replacement of the propeller and the optional weed screen without removing the thruster mounting base. The open, water-tolerant motor uses materials selected for seawater exposure.

2. Product views



Front | Mounting face | Rear

3. Dimensioned views



4. Mechanical specifications

Model	MOT-P150ESC-24V		
Overall size	121 × 161 × 140 mm	Cable length	>90 mm
Propeller diameter	100 mm	Mounting-hole spacing	56 × 40 mm
Weight in air	≈650 g	Cable diameter	

5. Performance specifications

Max. forward / reverse thrust @ 24 V	7.68 / 13.44 kgf

* Values depend on the ESC used to drive the thruster.

6. Electrical specifications

Operating voltage	24 V	Motor Kv (no load)	488
Max. current @ 24 V	80 A	Max. torque	3.6 N·m
Max. no-load speed @ 24 V	9500 rpm	Max. power (24 V)	1900 W

MOT-P150-24V / MOT-P150ESC-24V · Without Screen					
Left rotation			Right rotation		
Pulse width	Thrust (kgf)	Current (A)	Pulse width	Thrust (kgf)	Current (A)
1378	0.8	2	1620	1.44	2
1349	1.44	4	1646	2.4	4
1323	2	6	1667	3.2	6
1297	2.56	8	1695	4.4	8
1281	2.88	10	1712	5.04	10
1267	3.28	12	1724	5.6	12
1251	3.6	14	1739	6.24	14
1242	3.92	16	1750	7.12	16
1224	4.16	18	1759	7.52	18
1213	4.48	20	1771	7.84	20
1203	4.96	22	1785	8.64	22
1189	5.28	24	1793	8.96	24
1179	5.44	16	1807	9.36	16
1169	5.6	28	1819	9.84	28
1156	5.84	30	1830	10.32	30
1143	6	32	1840	10.56	32
1136	6.24	34	1852	10.96	34
1124	6.4	36	1867	11.12	36
1113	6.48	38	1875	11.44	38
1104	6.96	40	1887	11.76	40
1090	7.28	42	1899	12.08	42
1000	7.68	52	2000	13.44	52

* With a screen fitted, thrust may fall by nearly half and current may rise slightly. A screen on one side may reduce thrust by approximately 1/2.