

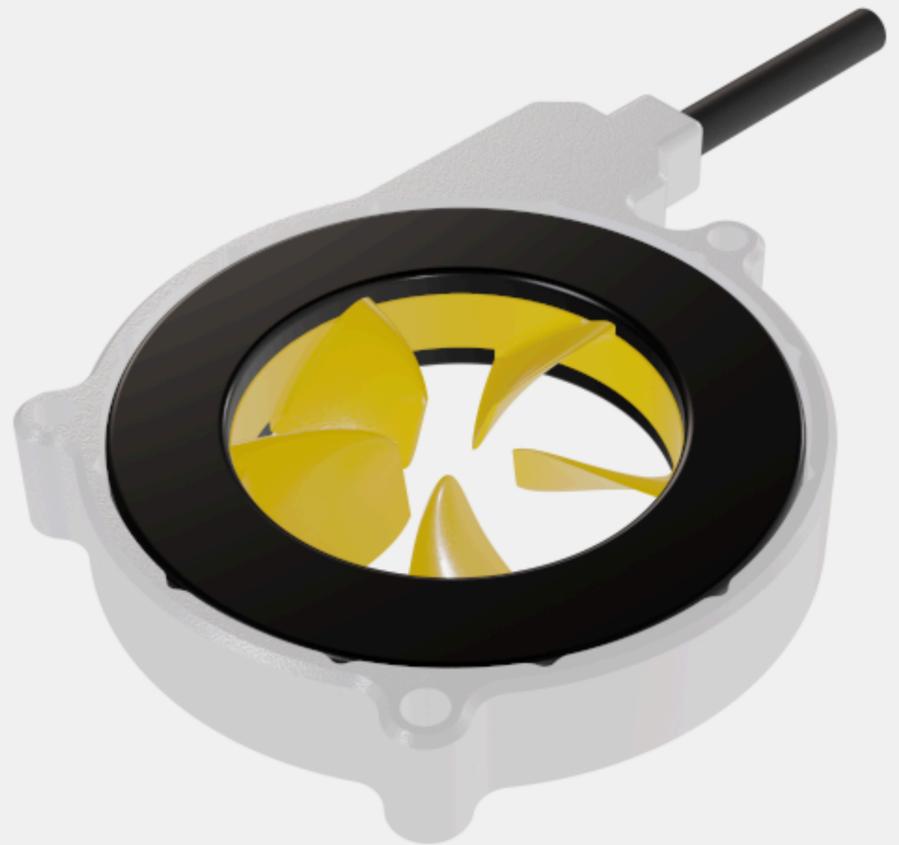
DISKDRIVE™ 50

The **DISKDRIVE™ 50** thruster is an ultra-slim, rim-driven, direct-drive propulsion unit designed for robust and efficient underwater performance. Its hubless propeller design minimizes the risk of entanglement from debris or marine vegetation, while its hydro-lubricated rotor ensures a completely oil-free, pressure-proof operation without dynamic seals.

The propeller is easily replaceable without tools, with a clockwise propeller included, an optional anti-clockwise versions available upon request. It comes with a CW propeller installed and a spare CCW propeller in the box.

To enhance efficiency, the thruster should be used with ducts, which can be integrated into the ROV body or purchased separately.

Compact and low-profile, the **DISKDRIVE™ 50** is ideal for stabilization in small ROVs/AUVs, deep-sea actuators, and applications requiring low drag.



OPERATIONAL SPECIFICATIONS

Supply Voltage	12 - 16 V
Maximum Current	25 A
Maximum RPM	3800
Thrust at 16V	3.0 kgf
Thrust at 12V	2.1 kgf
Interface	3-phase brushless sensorless control
Control	Compatible with most ESCs
Depth Rating	300 m (984 ft)

PHYSICAL SPECIFICATIONS

Outer Dimensions (LxWxH)	82 x 95 x 15 mm (3.23 x 3.74 x 0.59 in)
Propeller Diameter	50 mm (1.97 in)
Weight in Air (No cCable)	175 g (6 oz)
Weight in Water	115 g (4 oz)
Cable Dimensions	Ø 6.0 mm x 1.0 m
Mounting Holes	3 x Ø 5 mm



info@hydromea.com

V1.241007

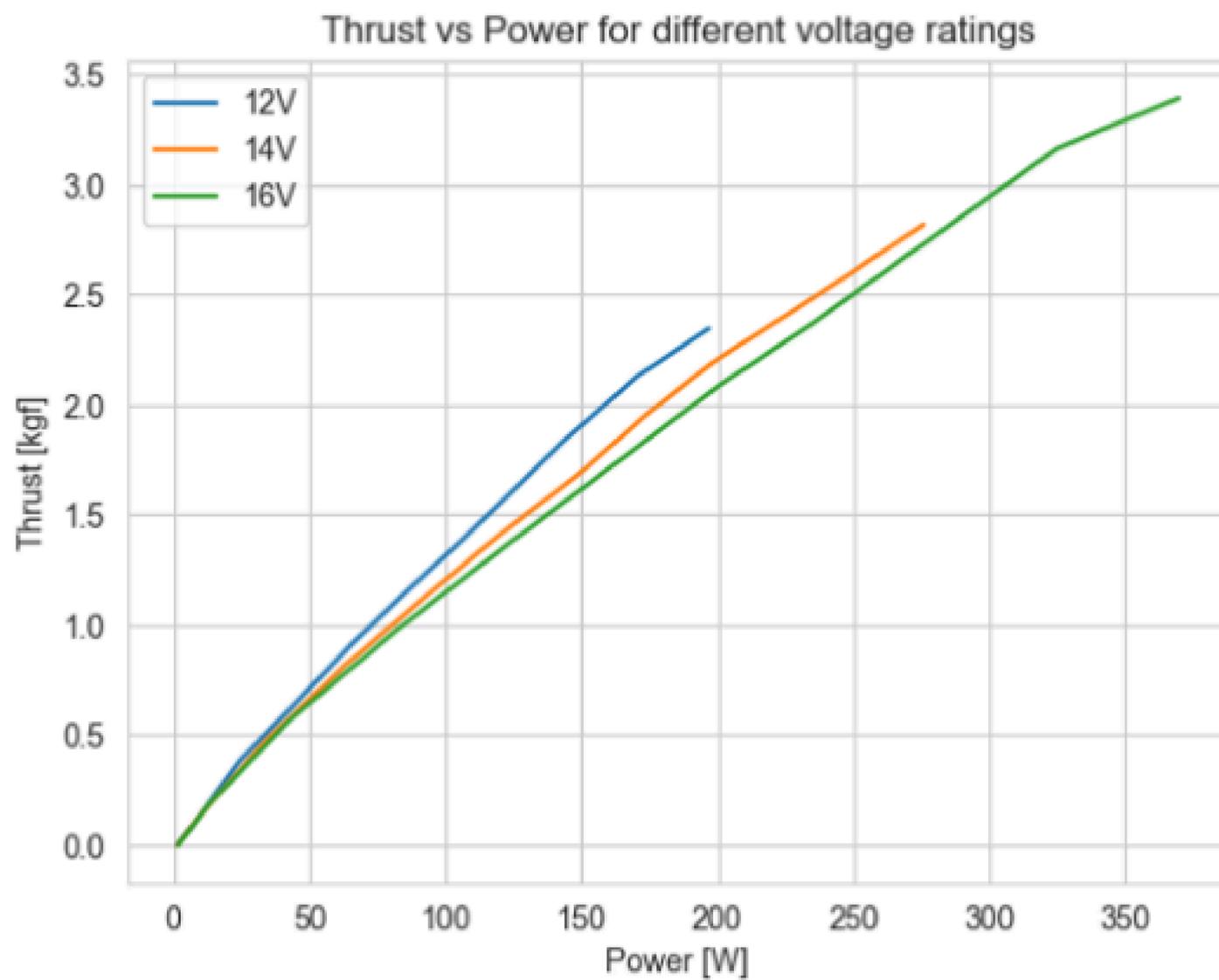
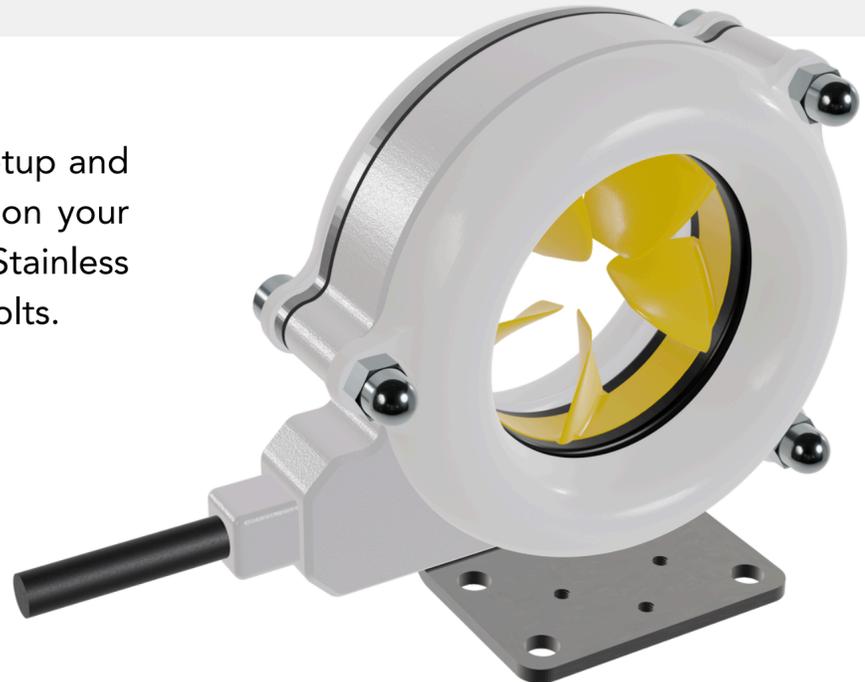
HYDROMEAA

DISKDRIVE™ 50

PERFORMANCE SPECIFICATIONS

ALL MEASUREMENTS WERE TAKEN USING HYDROMEAS DISKDRIVE 50 HYDRO DUCTS

The **DISKDRIVE™ 50** Thrust Kit allows for easy setup and optimal efficiency for motor test and installation on your ROV. The kit includes a mounting bracket in Stainless Steel, two water flow ducts and three connector bolts.



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