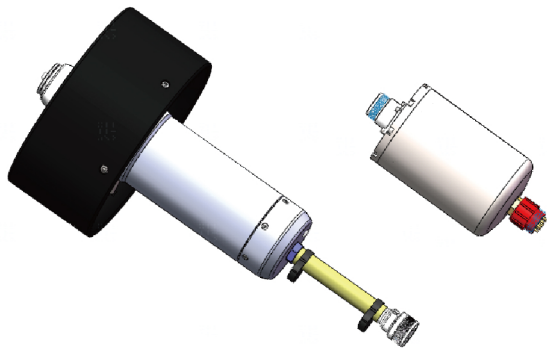


TZ2042S

- Rated power: 6.5 kW
- Forward thrust: ≤100 kg
- Backward thrust: ≤100 kg



Advantage

The TZ2042S thruster system is mainly arranged in the body of the underwater vehicle. It generates thrust through the rotation of the propeller to meet the requirements for vertical and lateral movement of the vehicle.

The vertical and lateral propulsion system consists of a thruster, controller, duct, and connecting cables. The thruster itself comprises a drive motor, magnetic coupling seal assembly, encoder, propeller, and housing. The controller communicates with the UUV's main control computer via a CAN BUS interface.

Technical parameters

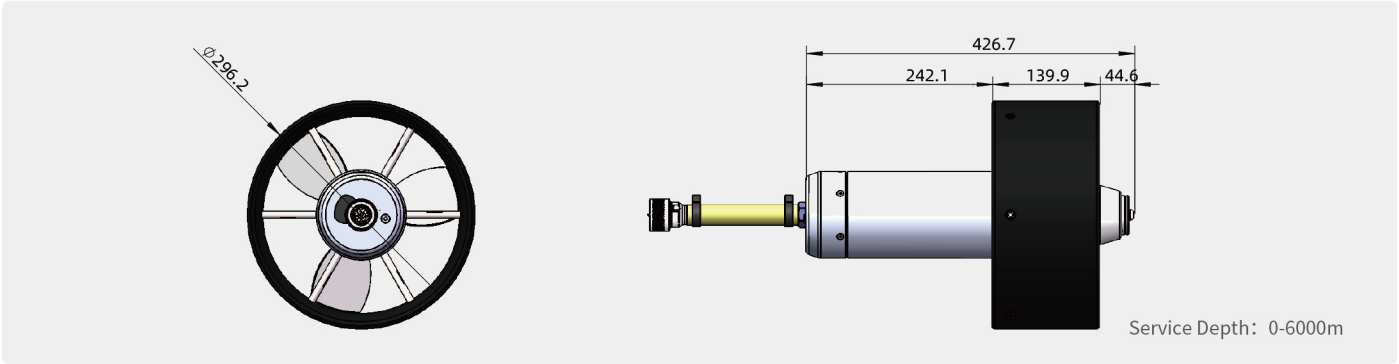
Rated speed	1800r/min	Sealing form	Leakless,magneically coupled
Rated voltage	300VDC	Depth rating	0-6000m
Shell material	Titanium Alloy	Electronics	External
Rotation direction	Left-handed / Right-handed rotation	Signal power	24VDC(±5%)
Material of propeller	Stainless Steel	Nozzle	Black
Temperature	Storage temperature: -30~80 °C, Service temperature: -5~40 °C	Control mode/ Speed feedback	CAN

Parameters for model selection

Working water depth	External dimensions	Length (mm)	Weight in the air (kg)	Connector Model
0-6000m	φ296.2mm	426.7mm	24kg	YMHD011(Thruster)/BH10M(Drive module)

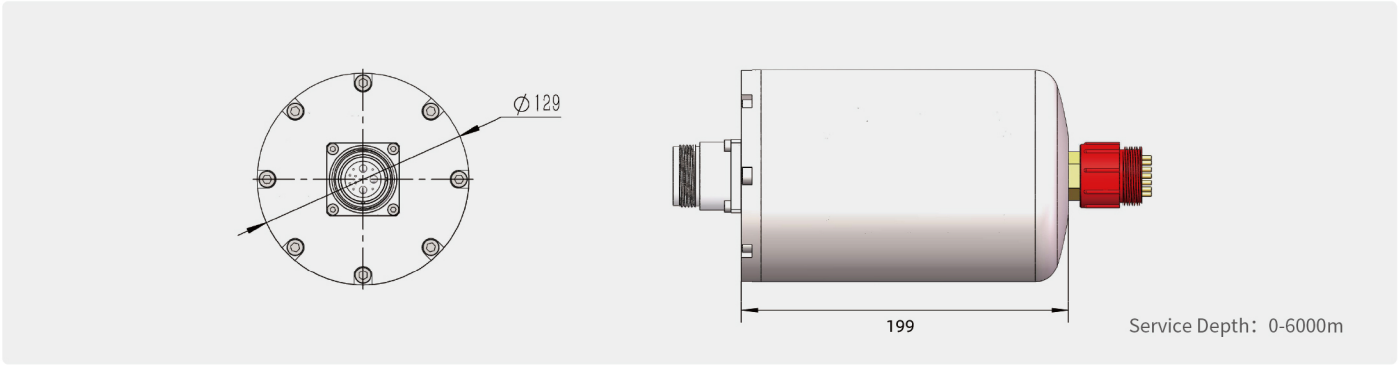
Propeller external dimensions

Unit: mm



Driver external dimensions

Unit: mm



Interface Definition(Drive module)

BH 10M		
Wire Sequence	Definition	Description
1, 2, 3	PGND	Power Supply Negative
4, 5, 6	+VDC	Power Supply Positive
7	Signal Power Negative	SGND
8	Signal Power Positive	+24VDC
9	CAN H	CAN
10	CAN L	CAN

