

TD28B thruster



- With great depth and high reliability, they (high voltage versions) are commonly used in job-level ROVs.
- Revolving speed open-loop and closed-loop are provided for selection; the revolving speed closed-loop is superior to revolving speed open-loop in achieving a high uniformity of multiple products.
- An analogue voltage signal of $\pm 5V$ or a PWM signal can be selected to control the rotation direction and speed of motors; and a pulse signal and a 0-5V analogue voltage signal are provided for selection to give feedback on motor speed.
- RS485, RS422 and CAN communication modes are provided for selection to control the rotation direction and speed of motors; and users may use appropriate software commands to customize product communication addresses and terminal resistance values.
- A super long service life version and a low noise version are provided for selection. They support performance index optimization of thrust, weight and efficiency, etc., and customization of higher voltage for power supply.
- Overheating protection, current-limiting protection and stalling protection functions are built-in; and users can use a program command to reset protection functions.

Thrust

Forward Thrust 28kg
Reverse Thrust 28kg

RPM / Power / Voltage

1300r/min
1.4KW
110-300VDC

Control mode

- ① $\pm 5V$ Analog voltage control
- ② PWM
- ③ CAN
- ④ RS485/RS422

RPM control

- ① Analog voltage feedback
- ② Pulse feedback
- ③ CAN
- ④ RS485/RS422

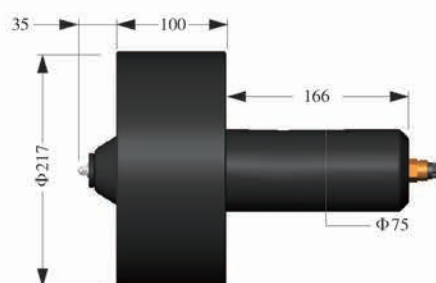
Dimension

Outer dia 217mm
Length 269-301mm
Notes: Dimensions of the connector are excluded, detailed to 106 page

Housing	Environment	Driving	Pressure	Depth rating	Weight in air & water	Connector model (Detailed to 106 page)
Aluminum alloy	Freshwater	Built in	Shell	0-850m	5.3kg & 3.8kg	110-300VDC(Micro 8-core)
Titanium alloy	Seawater	Built in	Shell	0-1500m	6.2kg & 4.6kg	110-300VDC(Micro 8-core)
Aluminum alloy	Freshwater	External	Shell	0-850m	5.0kg & 3.5kg	110-300VDC(Micro 16-core)
Titanium alloy	Seawater	External	Shell	0-1500m	5.8kg & 4.3kg	110-300VDC(Micro 16-core)
Titanium alloy	Seawater	External	Oil filled seal	0-6000m	6.0kg & 4.3kg	110-300VDC(Micro-oil 16-core)
Titanium alloy	Seawater	External	Oil filled seal	Full ocean depth	6.0kg & 4.3kg	110-300VDC(Standard-oil 8-core)

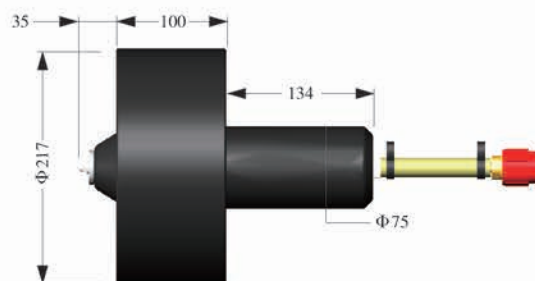
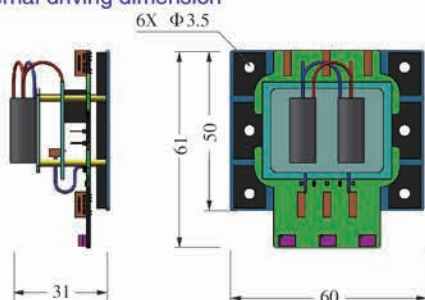
Weight variations of products undergoing oil charge compensation are under the influence of the length of oil tubes, for oil tube, each additional 0.1m increase, its weight adds 45g in air, adds 16g in water.

Built in driving dimension



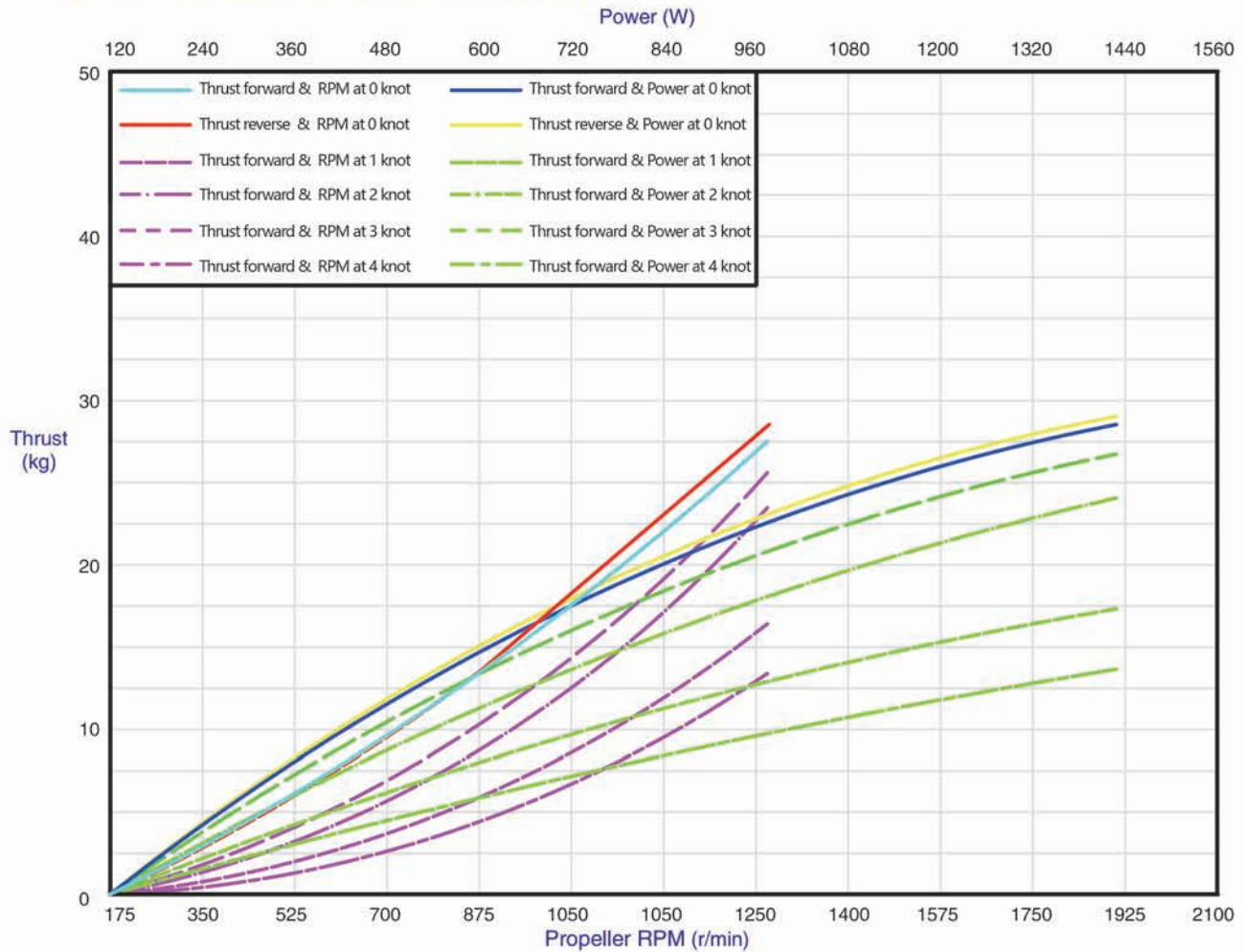
Unit:mm

External driving dimension



Unit:mm

Thrust vs Propeller RPM curve & Thrust vs Input power curve



The performance curve of each voltage class propeller under different power supply conditions

