



Thruster Catalogue



Visit Our Website

DWTEK Subsea Solution Provider
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ABOUT DWTEK

Who We Are

DWTEK was founded in 2008. Our core value is to help industries complete missions more easily through underwater technology. We are committed to providing a comprehensive solution comprising ROV, connector, component, vessel chartering, and OWF service. We strive to provide the best solution as well as the highest product quality and standard.

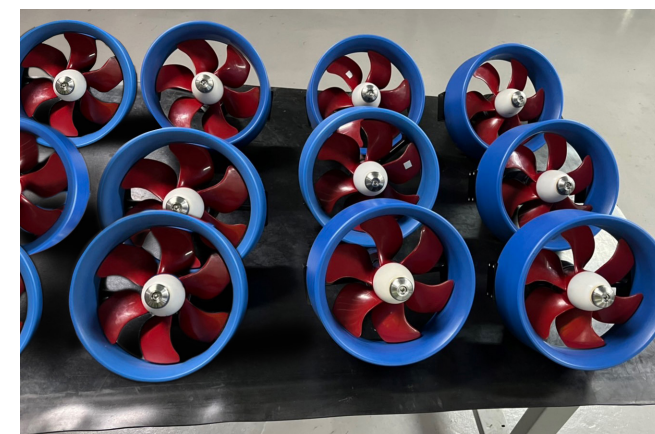
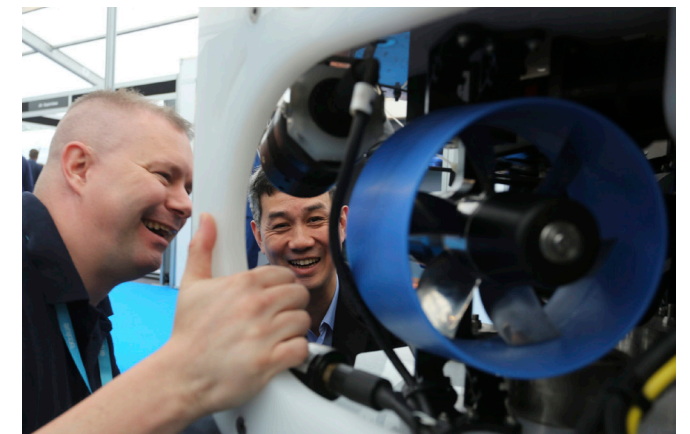
Our Mission

Underwater, where is one of the places that humans hard to access and the industries rely on the divers to implement underwater tasks, however, the limited human endurance of subsea depth and pressure made the tasks interrupted.

DWTEK was born and redefine the underwater world. We developed the quality ROVs and thrusters which can access up to 3,000m, and subsea connectors features of 600 bar pressure. Moreover, we also extended our fleet to offshore industries, providing ROV and ROV pilot team (trained according to the IMCA R002 guideline) support services. In 2019, we established a vessel chartering division, providing OSV and CTV services to global offshore developers.

Electric and High Efficiency Propulsion Technology

DWTEK is a trusted and world-leading thruster developer with several proven performances on the different markets such as ROV, ASV, AUV and USV. DWTEK's commitment to producing wide range, high efficiency, extremely robust electric propulsion products completing depth durability tests as well as multiple open water tests. Despite the significant performance, DWTEK has considerable expertise in underwater systems, we can provide the total solution and highly customized services.



Thruster Product Lines

1. Magnetically Coupling Brushless

(DWT6532, DWT6537, DWT1 ,DWT8537)

2. Shaft Drive (DWT085G1)



Feature

- Gear reducer mechanism
- Easy installation to plug in-and-out
- Static seals: easy to maintain and zero failure out
- Over-temperature protection, over-current protection, signal zero-crossing protection
- Internal isolation between the power supply and signal power supply system
- Customized service is available

3. Direct Drive

(DWT085D3, DWT135D4)

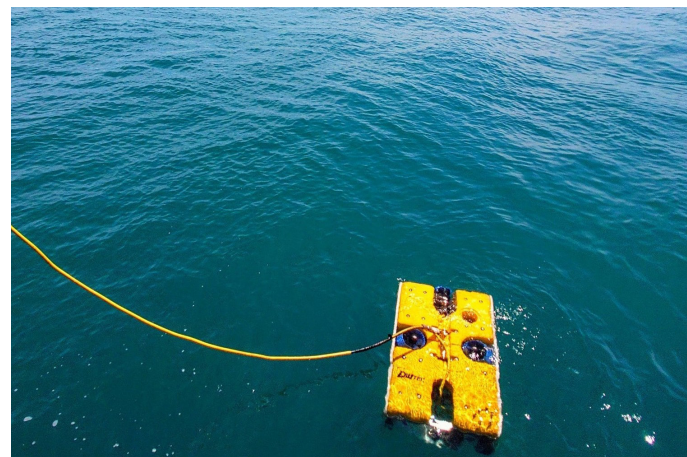


Feature

- Fast response
- Power efficiency
- Low power and high torque
- Internal isolation between the power supply and signal power supply system
- Over-temperature protection, over-current protection, signal zero-crossing protection
- Customized service is available

Applications

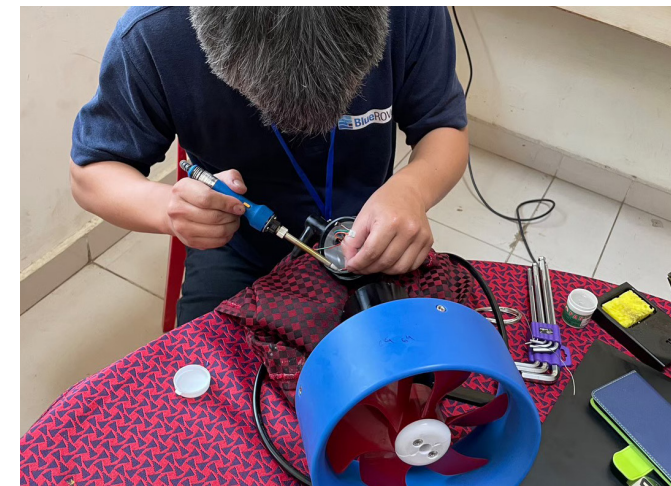
ROV
AUV
UUV
USV
TMS(Tether Management System)
Diving
Boat
Submersible
Fishing Boat
Rescue Boat
Cable Burial Vehicle
Robotic Surface Vehicle
Trencher Propulsion System



Global Support




Global Engineer to Solve Technical Challenges Shortly.

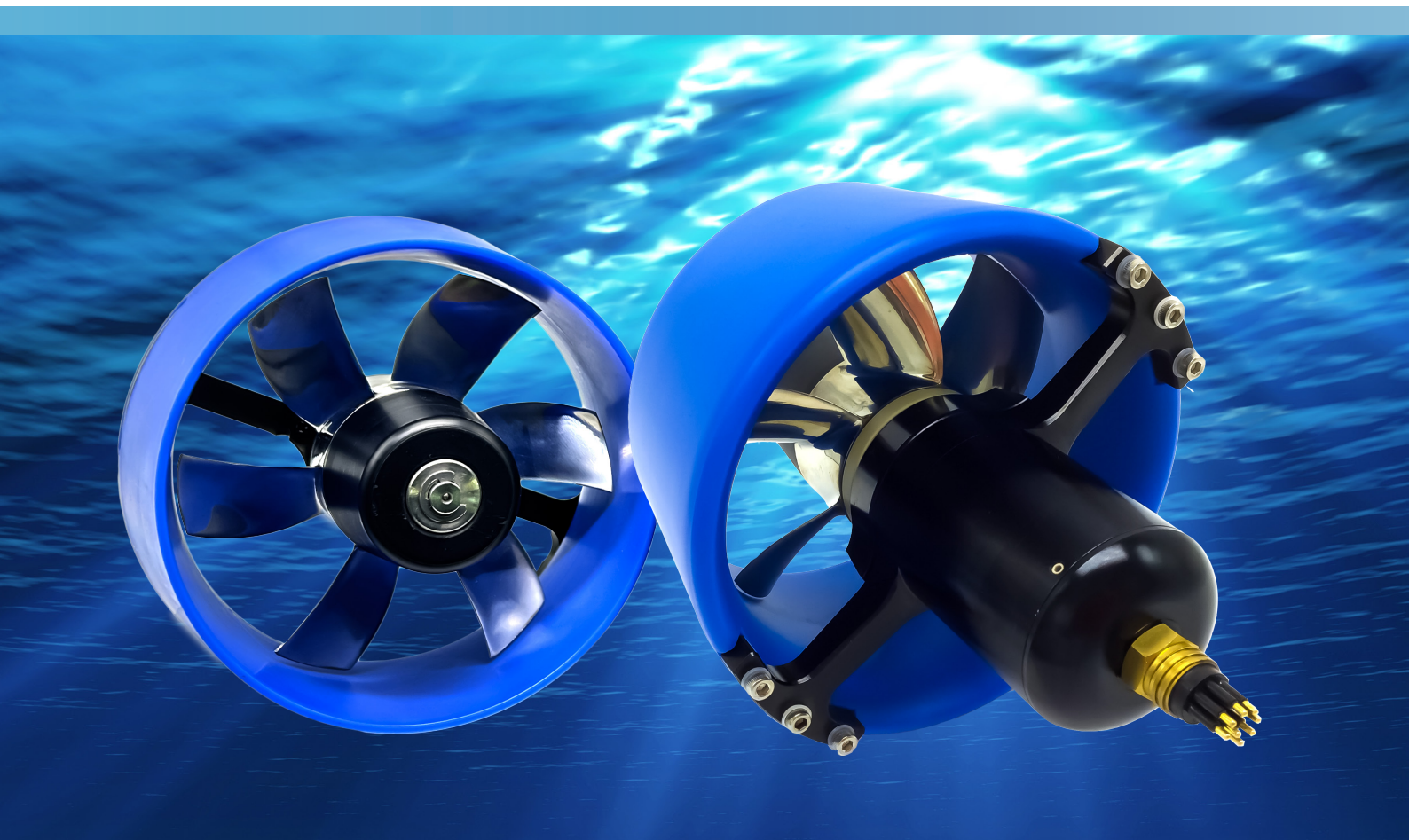
As a global and leading thruster solution provider, the headquarter is based in Taiwan Asia, with a global support team in UK, USA, Australia, France, etc to solve the complex technical issues faster and easier.



Specification

**All product descriptions and specifications are subject to be changed without notice

Thruster	Magnetically Coupling Brushless				Magnetically Coupling Brushless			Shaft Drive	Direct Drive Thruster	
Model Name	DWT6532		DWT6537		DWT1		DWT8537	DWT085G1	DWT085D3	DWT135D4
Operation Voltage	48 VDC	155 VDC	300 VDC	300 VDC	48 VDC	300 VDC	300VDC *Reducer	300VDC *Reducer	300 VDC	550 VDC
Input Power	500W	500W	500W	750W	500W	500W	850W	1,000W	1,500 W	5,000 W
W	10.5-11 kgf	11.4-12 kgf	11.9-12.5 kgf	16.6-17.5 kgf	12.4-13 kgf	14.3-15 kgf	23.8-25 kgf	22.8-24 kgf	30.4-32 kgf	90.3-95 kgf
CW	7.2-7.6 kgf	6.5-6.8 kgf	7.2-7.6 kgf	9.5-10 kgf	11.8-12.4 kgf	13.1-13.8 kgf	17.6-18.5 kgf	21.9-23 kgf	25.7-27 kgf	80.8-85 kgf
Speed Control	RS485 / ± 5V / PWM	RS485 / ± 5V / PWM	RS485 / ± 5V / PWM	RS485 / ± 5V / PWM	RS485 / ± 5V / PWM	RS485 / ± 5V / PWM	RS485 / ± 5V / PWM	RS485 / ± 5V / PWM	RS485 / ± 5V / PWM	RS485 / ± 5V / PWM
Weight in Air	2.8 kg	2.8 kg	2.8 kg	3.2 kg	4 kg	4 kg	5.5kg	4.6 kg	5.8 kg	17.8 kg
Weight in Water	1.5 kg	1.5 kg	1.5 kg	1.9 kg	1.6 kg	1.6 kg	5kg	2.3 kg	3.3 kg	10.3 kg
Depth	1,000m	1,000m	1,000m	1,000m	1,000m	1,000m	1,000m	1,000m	1,000m (3,000m optional)	3,000m (6,000m optional)
Operation Temperature	-10~50°C	-10~50°C	-10~50°C	-10~50°C	-10~50°C	-10~50°C	-10~50°C	-10~50°C	-10~50°C	-10~50°C
Body Material	AL 6061-T6	AL 6061-T6	AL 6061-T6	AL 6061-T6	AL 6061-T6	AL 6061-T6	AL 6061-T6	AL 6061-T6	AL 6061-T6	AL 6061-T6
Connector	MCBH8M	MCBH8M	MCBH8M	MCBH8M	MCBH8M	MCBH8M	MSGFR08MSS	MSGFR08MSS	MSGFR08MSS	MSGFR08MSS
Gear Box Ratio	1:6	1:6	1:6	1:6	1:6	1:6	1:6	1:6	N/A	N/A
Shaft Seal (Rotary Seal)	No	No	No	No	No	No	No	Yes	Yes	Yes
Self oil compensator	No	No	No	No	No	No	No	No, optional	Yes	Yes
Sealed	O-Ring	O-Ring	O-Ring	O-Ring	O-Ring	O-Ring	O-Ring	Rotary Seal	Rotary Seal	Rotary Seal
Download Datasheet										



ROV

Underwater Connector

Underwater Component

Offshore Wind Farm BoP

Construction Support

Vessel Chartering

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