The best solution for underwater equipment industry

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Underwater Equipment | 2024



Products Catalog

Thruster

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Thruster



The best solution for underwater equipment industry

Mounting

Thruster



Saddle Mount

Stainless steel throat hoop is coated with a heat shrinkable tube to prevent scratching of the propeller housing (arrow pointing to the position shown)

Thin 1mm hard rubber pad between saddle and thruster to prevent slipping & damage of thruster housing(arrow pointing to green rubber pad) The structure form of saddle fixture can be customized. In order not to affect thrust, it is advisable to minimize the size of saddle fixture to meet the requirement of fixed strength.

Clamp Mount

Aluminum and engineering-plastics are available for clamp material, material strength must be considered, aluminum should be anodized, customized

Socket head cap screws machined

Machine inner diameter accurately matched with thruster housing, leave 1.0–1.5mm between clamp base and cap, customized

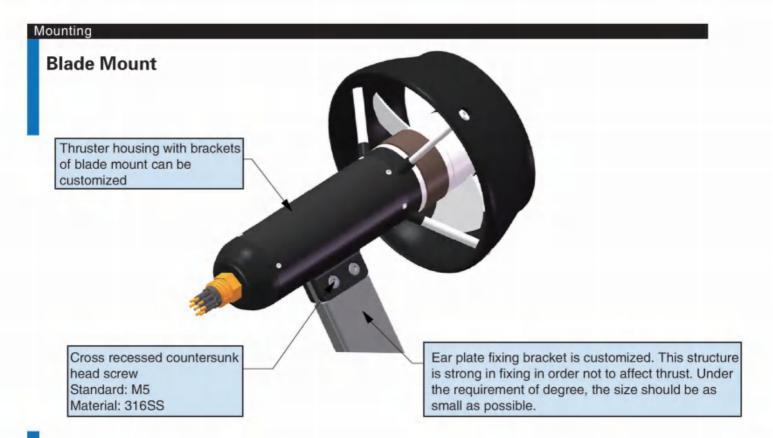
Material: 316SS

Standard: M5

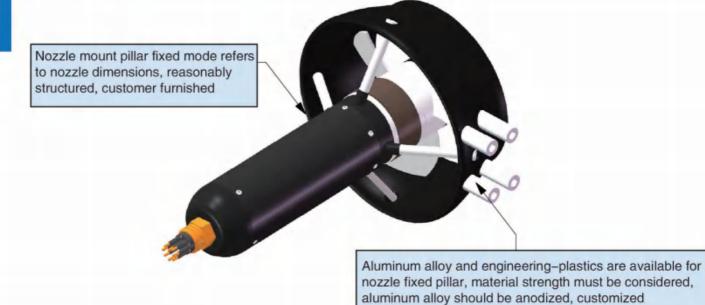
Mounting

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Thruster

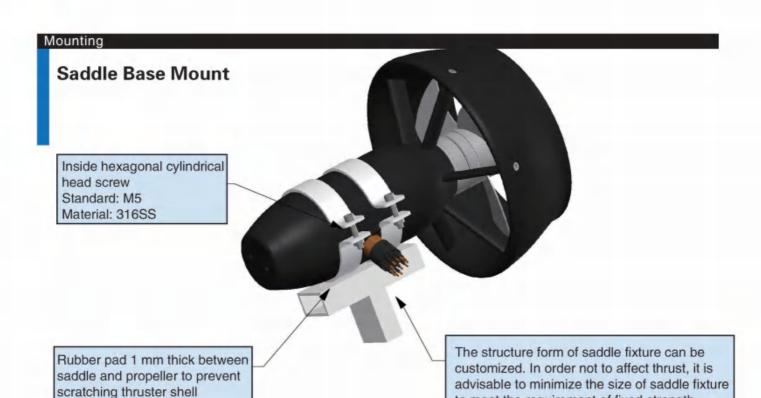


Nozzle Mount



Mounting

Thruster



Saddle Side Mount

Saddle material can be made of aluminium alloy or 316SS. Aluminum alloy needs anodic oxidation treatment, special materials need to meet the strength requirements, customized

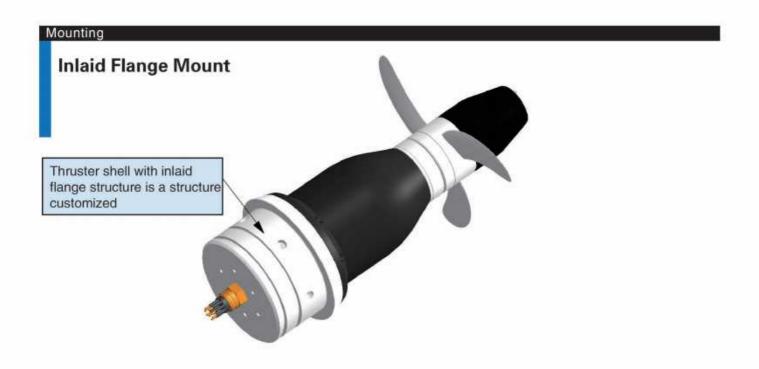
Hexagon socket head cap screws

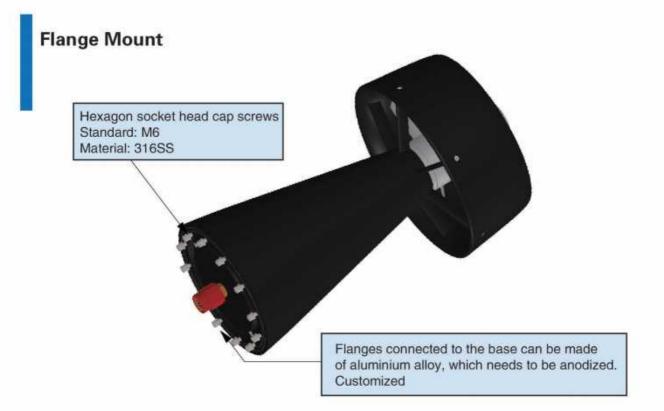
Standard: M6 Material: 316SS Inner diameter of the saddle needs to be precisely matched with the propeller shell. The fastening clearance should be "1–1.5mm". Customized

to meet the requirement of fixed strength.



Thruster





Technical information

Thruster



Features

The thruster applies advanced magnetic coupling driving technology, which greatly reduces the impact and vibration during the operation of the thruster and prolongs the service life of the propeller. All electrical components are absolutely sealed in a sealed cabin, reducing the risk of leakage. In view of the deep water ultra-high pressure working environment, the special oil-filled self-compensation structure is applied to the thruster. On the one hand, the thruster independently overcomes the risk of leakage of the sealed cabin under the ultra-high pressure working environment, on the other hand, it greatly reduces the maintenance difficulty of the thruster. The integration design and precision process of mechanical, electrical and propeller make the product efficiency, noise, power density and other parameters reach the maximum. Excellent functions of overtemperature protection and overcurrent protection ensure the reliability of product operation. Special metal surface treatment technology ensures the mechanical strength and corrosion resistance of products.

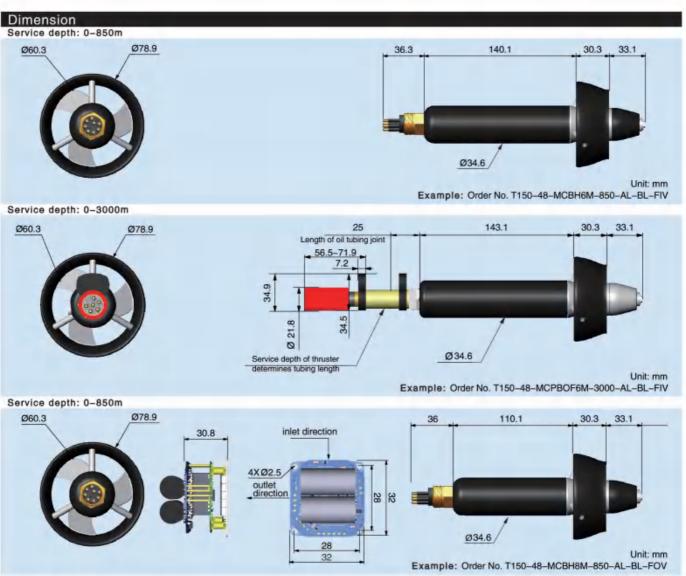
Advantages

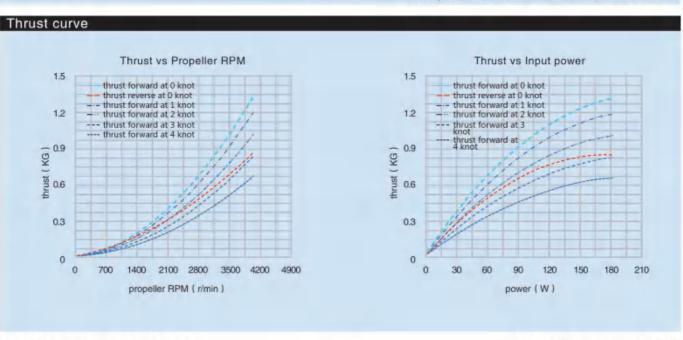
- Magnetically coupled seal
- Oil-filled pressure compensation structure can adapt to different ocean depths
- Large thrust, small volume, light weight and high efficiency
- Over-temperature protection, over-current protection signal zero-crossing protection
- Internal isolation between power supply and signal power supply system

T150 thruster

ers					
182w					
12VDC	24VDC	48VDC			
4000r/min					
thrust forwar	rd 1.4 KG	thrust revers	se 0.9 KG		
black					
left O	right O				
stainless ste	el				
Aluminum al	lloy Tital	nium alloy			
leakless, ma	igneically coupl	ed			
0-850m	0-1500m	0-3000m	0-6000m	full ocean depth	service depth >850m, oil filled seal
supply volta	ge is 12VDC(±	5%),≤250mA			
analog volta	ge control (0V	~+5V forward, 0	V~-5V reverse)	CAN
pulse feedba	ack and	log voltage feed	lback	CAN	
storage ten	nperature: -4	0~70°C	service temp	erature: -5~40°C	
built in	external				
	12VDC 4000r/min thrust forwa black left O stainless ste Aluminum a leakless, ma 0-850m supply volta analog volta pulse feedbo storage ter	182w 12VDC 24VDC 4000r/min thrust forward 1.4 KG black left O right C stainless steel Aluminum alloy Tital leakless, magneically coupl 0-850m 0-1500m supply voltage is 12VDC(± analog voltage control (0V pulse feedback and storage temperature; -40	182w 12VDC 24VDC 48VDC 4000r/min thrust forward 1.4 KG thrust revers black left ○ right C stainless steel Aluminum alloy Titanium alloy leakless, magneically coupled 0-850m 0-1500m 0-3000m supply voltage is 12VDC(±5%),≤250mA analog voltage control (0V→5V forward, 0 pulse feedback analog voltage feed storage temperature: -40~70°C	182w 12VDC 24VDC 48VDC 4000r/min thrust forward 1.4 KG thrust reverse 0.9 KG black left ○ right C stainless steel Aluminum alloy Titanium alloy leakless, magneically coupled 0-850m 0-1500m 0-3000m 0-6000m supply voltage is 12VDC(±5%),≤250mA analog voltage control (0V→5V forward, 0V-5V reverse pulse feedback analog voltage feedback storage temperature: -40-70°C service temp	182w 12VDC 24VDC 48VDC 4000r/min thrust forward 1.4 KG thrust reverse 0.9 KG black left ○ right C stainless steel Aluminum alloy Titanium alloy leakless, magneically coupled 0-850m 0-1500m 0-3000m 0-6000m full ocean depth supply voltage is 12VDC(±5%),≤250mA analog voltage control (0V-+5V forward, 0V5V reverse) pulse feedback analog voltage feedback CAN storage temperature: -40~70°C service temperature: -5~40°C

12 Control						~-5V reverse)	D 111		C	10.7			
13 RPM co			edback		voltage feedb		CAN	1000					
14 Tempera				ture: -40~7 emal	0°C s	ervice tempe	rature: -5	-40°C					
15 Electron	iics	built in	exte	emai									
VENEZUE	-												
Mechanica	param	eters											
Service depth:													
Item Housing	Driv		Outer		Weight in	Weight in	Connect	tor	Optional	voltag	ge(VDC)	comr	non mode
	2000		ia(mm)	(mm)	air(KG)	water(KG)	model						
1 Aluminum a	to the second second	ilt in	ø78.9	239.8	1.1	0.8	MCBH6M		12	24	48		
2 Aluminum a		ilt in	ø78.9	227.8	1.1	0.8	MCBHRA	914	12	24	48		
3 Aluminum a 4 Aluminum a		ernal ernal	ø78.9 ø78.9	209.5 197.5	1.0	0.7	MCBH8M MCBHRA		12	24	48		
5 Titanium al		ilt in	ø78.9	239.8	1.2	0.9	MCBH6M		12	24	48		
6 Titanium al		ilt in	ø78.9	227.8	1.2	0.9	MCBHRA		12	24	48		
7 Titanium al		ernal	ø78.9	209.5	1.1	0.8	MCBH8M	Professional Confession Confessio	12	24	48		
8 Titanium al	and the same of th	ernal	ø78.9	197.5	1.1	0.8	MCBHRA		12	24	48		
X TOMESTO S			SCT Sector	10,110						-			
Service depth:	0-1500n		0m & 0-					Oil tube					
THE RESERVE OF THE PARTY OF THE	Driving	Outer	Length	Weight in		Connector	Oil tube	Oil tube bending		Weig			
ALL REAL PROPERTY.					Weight in water(KG)	Connector model	Oil tube	bending outer dia	f. all the	chan	ge		Ve miles
Item Housing	Driving	Outer	Length	Weight in				bending		chan e, each	ge additional	1m increase	, its weigh
Item Housing Aluminum alloy	Driving position built in	Outer dia(mm) ø78.9	Length (mm) 231.5	Weight in air(KG) 1.4	water(KG) 1.0	model MCPBOF6M	dia 3/4"	bending outer dia 3"	adds 331	chan e, each 1g in air,	ge additional adds 46g	in water	
Item Housing Aluminum alloy	Driving position	Outer dia(mm)	Length (mm)	Weight in air(KG)	water(KG)	model	dia	bending outer dia	adds 331 for oil tub adds 353	chan e, each 1g in air, be, each 3g in air	gé additional adds 46g additional adds 68g	in water 1m increase in water	, its weigh
Item Housing Aluminum alloy Aluminum alloy	Driving position built in	Outer dia(mm) ø78.9	Length (mm) 231.5	Weight in air(KG) 1.4	water(KG) 1.0	model MCPBOF6M	dia 3/4"	bending outer dia 3"	adds 331 for oil tub adds 353 for oil tub	chan be, each 1g in air, be, each 3g in air be, each	ge additional adds 46g additional adds 68g additional	in water 1m increase in water 1m increase	, its weigh
Item Housing I Aluminum alloy 2 Aluminum alloy 3 Titanium alloy	Driving position built in external built in	Outer dia(mm) ø78.9 ø78.9	Length (mm) 231.5 201.5 231.5	Weight in air(KG) 1.4 1.2 1.5	water(KG) 1.0 0.9 1.1	model MCPBOF6M MCPBOF6M MCPBOF6M	dia 3/4* 3/4* 3/4*	bending outer dia 3" 3"	adds 331 for oil tub adds 353 for oil tub adds 331	chan- be, each 1g in air, be, each 3g in air be, each 1g in air	ge additional adds 46g additional adds 68g additional adds 46g	in water 1m increase in water 1m increase in water	e, its weigh
Item Housing 1 Aluminum alloy 2 Aluminum alloy 3 Titanium alloy	Driving position built in external	Outer dia(mm) ø78.9	Length (mm) 231.5 201.5	Weight in air(KG) 1.4 1.2	water(KG) 1.0 0.9	model MCPBOF6M MCPBOF8M	dia 3/4" 3/4"	bending outer dia 3"	adds 331 for oil tub adds 353 for oil tub adds 331 for oil tub	chan- be, each 1g in air, be, each 1g in air be, each 1g in air	ge additional adds 46g additional adds 68g additional adds 46g	in water Im increase in water Im increase in water Im increase	e, its weigh
Service depth: Item Housing 1 Aluminum alloy 2 Aluminum alloy 3 Titanium alloy 4 Titanium alloy	Driving position built in external built in	Outer dia(mm) ø78.9 ø78.9	Length (mm) 231.5 201.5 231.5	Weight in air(KG) 1.4 1.2 1.5	water(KG) 1.0 0.9 1.1	model MCPBOF6M MCPBOF6M MCPBOF6M	dia 3/4* 3/4* 3/4*	bending outer dia 3" 3"	adds 331 for oil tub adds 353 for oil tub adds 331 for oil tub	chan- be, each 1g in air, be, each 1g in air be, each 1g in air	ge additional adds 46g additional adds 68g additional adds 46g additional	in water Im increase in water Im increase in water Im increase	e, its weigh
Item Housing I Aluminum alloy 2 Aluminum alloy 3 Titanium alloy	Driving position built in external built in	Outer dia(mm) ø78.9 ø78.9	Length (mm) 231.5 201.5 231.5	Weight in air(KG) 1.4 1.2 1.5	water(KG) 1.0 0.9 1.1	model MCPBOF6M MCPBOF6M MCPBOF6M	dia 3/4* 3/4* 3/4*	bending outer dia 3" 3"	adds 331 for oil tub adds 353 for oil tub adds 331 for oil tub	chan- be, each 1g in air, be, each 1g in air be, each 1g in air	ge additional adds 46g additional adds 68g additional adds 46g additional	in water Im increase in water Im increase in water Im increase	e, its weigh
Item Housing I Aluminum alloy 2 Aluminum alloy 3 Titanium alloy	Driving position built in external built in	Outer dia(mm) ø78.9 ø78.9	Length (mm) 231.5 201.5 231.5	Weight in air(KG) 1.4 1.2 1.5	water(KG) 1.0 0.9 1.1	model MCPBOF6M MCPBOF6M MCPBOF6M	dia 3/4* 3/4* 3/4*	bending outer dia 3" 3"	adds 331 for oil tub adds 353 for oil tub adds 331 for oil tub	chan- be, each 1g in air, be, each 1g in air be, each 1g in air	ge additional adds 46g additional adds 68g additional adds 46g additional	in water Im increase in water Im increase in water Im increase	e, its weigh
tem Housing Aluminum alloy Aluminum alloy Titanium alloy	Driving position built in external built in	Outer dia(mm) ø78.9 ø78.9	Length (mm) 231.5 201.5 231.5	Weight in air(KG) 1.4 1.2 1.5	water(KG) 1.0 0.9 1.1	model MCPBOF6M MCPBOF6M MCPBOF6M	dia 3/4* 3/4* 3/4*	bending outer dia 3" 3"	adds 331 for oil tub adds 353 for oil tub adds 331 for oil tub	chan- be, each 1g in air, be, each 1g in air be, each 1g in air	ge additional adds 46g additional adds 68g additional adds 46g additional	in water Im increase in water Im increase in water Im increase	e, its weigh
Aluminum alloy Aluminum alloy Titanium alloy	Driving position built in external built in	Outer dia(mm) ø78.9 ø78.9	Length (mm) 231.5 201.5 231.5	Weight in air(KG) 1.4 1.2 1.5	water(KG) 1.0 0.9 1.1	model MCPBOF6M MCPBOF6M MCPBOF6M	dia 3/4* 3/4* 3/4*	bending outer dia 3" 3"	adds 331 for oil tub adds 353 for oil tub adds 331 for oil tub	chan- be, each 1g in air, be, each 1g in air be, each 1g in air	ge additional adds 46g additional adds 68g additional adds 46g additional	in water Im increase in water Im increase in water Im increase	e, its weig
tem Housing Aluminum alloy Aluminum alloy Titanium alloy	Driving position built in external built in	Outer dia(mm) ø78.9 ø78.9	Length (mm) 231.5 201.5 231.5	Weight in air(KG) 1.4 1.2 1.5	water(KG) 1.0 0.9 1.1	model MCPBOF6M MCPBOF6M MCPBOF6M	dia 3/4* 3/4* 3/4*	bending outer dia 3" 3"	adds 331 for oil tub adds 353 for oil tub adds 331 for oil tub	chan- be, each 1g in air, be, each 1g in air be, each 1g in air	ge additional adds 46g additional adds 68g additional adds 46g additional	in water Im increase in water Im increase in water Im increase	e, its weigh
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Aluminum alloy Aluminum alloy Aluminum alloy Titanium alloy	Driving position built in external built in	Outer dia(mm) ø78.9 ø78.9	Length (mm) 231.5 201.5 231.5	Weight in air(KG) 1.4 1.2 1.5	water(KG) 1.0 0.9 1.1	model MCPBOF6M MCPBOF6M MCPBOF6M	dia 3/4* 3/4* 3/4*	bending outer dia 3" 3"	adds 331 for oil tub adds 353 for oil tub adds 331 for oil tub	chan- be, each 1g in air, be, each 1g in air be, each 1g in air	ge additional adds 46g additional adds 68g additional adds 46g additional	in water Im increase in water Im increase in water Im increase	e, its weigh
tem Housing Aluminum alloy Aluminum alloy Titanium alloy	Driving position built in external built in	Outer dia(mm) ø78.9 ø78.9	Length (mm) 231.5 201.5 231.5	Weight in air(KG) 1.4 1.2 1.5	water(KG) 1.0 0.9 1.1	model MCPBOF6M MCPBOF6M MCPBOF6M	dia 3/4* 3/4* 3/4*	bending outer dia 3" 3"	adds 331 for oil tub adds 353 for oil tub adds 331 for oil tub	chan- be, each 1g in air, be, each 1g in air be, each 1g in air	ge additional adds 46g additional adds 68g additional adds 46g additional	in water Im increase in water Im increase in water Im increase	e, its weigl
Aluminum alloy Aluminum alloy Aluminum alloy Titanium alloy	Driving position built in external built in	Outer dia(mm) ø78.9 ø78.9	Length (mm) 231.5 201.5 231.5	Weight in air(KG) 1.4 1.2 1.5	water(KG) 1.0 0.9 1.1	model MCPBOF6M MCPBOF6M	dia 3/4* 3/4* 3/4*	bending outer dia 3" 3"	adds 331 for oil tub adds 353 for oil tub adds 331 for oil tub	chan- be, each 1g in air, be, each 1g in air be, each 1g in air	ge additional adds 46g additional adds 68g additional adds 46g additional	in water Im increase in water Im increase in water Im increase	e, its weigl
tem Housing Aluminum alloy Aluminum alloy Titanium alloy Titanium alloy	Driving position built in external built in external	Outer dia(mm) Ø78.9 Ø78.9 Ø78.9 Ø78.9	Length (mm) 231.5 201.5 231.5	Weight in air(KG) 1.4 1.2 1.5	water(KG) 1.0 0.9 1.1	model MCPBOF6M MCPBOF6M	dia 3/4* 3/4* 3/4*	bending outer dia 3* 3* 3* 3*	adds 331 for oil tub adds 353 for oil tub adds 331 for oil tub	chan- be, each 1g in air, be, each 1g in air be, each 1g in air	ge additional adds 46g additional adds 68g additional adds 46g additional	in water Im increase in water Im increase in water Im increase	e, its weigl
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tem Housing Aluminum alloy Aluminum alloy Titanium alloy Titanium alloy Service depth tem Housing	Driving position built in external built in external built in external briving position	Outer dia(mm) ø78.9 ø78.9 ø78.9 ø78.9 ø078.9	Length (mm) 231.5 201.5 231.5 201.5 Length (mm)	Weight in air(KG) 1.4 1.2 1.5 1.3 Weight in air(KG)	water(KG) 1.0 0.9 1.1 1.0 Weight in water(KG)	model MCPBOF8M MCPBOF8M MCPBOF8M CPBOF8M COnnector model	dia 3/4* 3/4* 3/4* 3/4* Oil tube dia	outer dia 3" 3* 3* 3* Oil tube bending outer dia	adds 331 for oil tub adds 355 for oil tub adds 331 for oil tub adds 350	channe, each lg in air, e, each 3g in air e, each 1g in air e, each 3g in air	ge additional adds 46g additional adds 68g additional	in water Im increase in water	e, its weight, its weigh
tem Housing Aluminum alloy Aluminum alloy Titanium alloy Titanium alloy Titanium alloy Service depth Item Housing	Driving position built in external built in external crime of the control of the	Outer dia(mm) ø78.9 ø78.9 ø78.9	Length (mm) 231.5 201.5 201.5 201.5 Length	Weight in air(KG) 1.4 1.2 1.5 1.3	water(KG) 1.0 0.9 1.1 1.0	model MCPBOF8M MCPBOF8M MCPBOF8M CPBOF8M CPBOF8M	die 3/4* 3/4* 3/4* 3/4*	outer dia 3* 3* 3* 3* Oil tube bending outer dia 3*	adds 331 for oil tub adds 351 for oil tub adds 351 for oil tub adds 351	channe, each dg in air, be, each 3g in air be, each 3g in air be, each 3g in air	ge additional adds 46g additional additional additional additional adds 68g additional adds 68g additional adds 68g additional adds 46g	in water Im increase in water	a, its weight, its weight, its weight
tem Housing Aluminum alloy Aluminum alloy Titanium alloy Titanium alloy Service depth tem Housing Aluminum alloy	Driving position built in external built in external built in external briving position	outer dia(mm) ø78.9 ø78.9 ø78.9 ø78.9 ø78.9 ø78.9 ø78.9	Length (mm) 231.5 201.5 231.5 201.5 Length (mm)	Weight in air(KG) 1.4 1.2 1.5 1.3 Weight in air(KG)	water(KG) 1.0 0.9 1.1 1.0 Weight in water(KG)	model MCPBOF8M MCPBOF8M MCPBOF8M CPBOF8M COnnector model	dia 3/4* 3/4* 3/4* 3/4* Oil tube dia	outer dia 3" 3* 3* 3* Oil tube bending outer dia	for oil tub adds 353 for oil tub adds 333 for oil tub adds 350	channe, each lg in air, be, each 3g in air be, each 1g in air be, each 3g in air whee, each lg in air, be, each	ge additional adds 46g additional additional additional additional adds 68g additional adds 68g additional adds 68g additional adds 46g	in water Im increase in water Im increase in water Im increase in water Im increase in water	a, its weig a, its weig a, its weig
Aluminum alloy Aluminum alloy Aluminum alloy Titanium alloy Titanium alloy Aluminum alloy Aluminum alloy Aluminum alloy	Driving position built in external built in external built in external briving position built in external	outer dia(mm) ø78.9 ø78.9 ø78.9 ø78.9 ø78.9 ø78.9 ø78.9 ø78.9	Length (mm) 231.5 201.5 231.5 201.5 Length (mm) 231.5 201.5	Weight in air(KG) 1.4 1.2 1.5 1.3 Weight in air(KG) 1.4 1.2	water(KG) 1.0 0.9 1.1 1.0 Weight in water(KG) 1.0 0.9	model MCPBOF6M MCPBOF6M MCPBOF6M MCPBOF8M Connector model PBOF6M PBOF6M	dia 3/4* 3/4* 3/4* Oil tube dia 3/4* 3/4*	outer dia 3" 3" 3" 3" 3" Oil tube bending outer dia 3" 3"	for oil tub adds 353 for oil tub	channe, each gin air, be, each 3g in air, be, each 3g in air be, each 3g in air when air be, each 3g in air be, each 3g in air, be, each 4g in air	ge additional adds 46g additional adds 68g additional adds 68g additional adds 68g additional adds 68g additional adds 46g additional adds 46g additional adds 46g additional adds 68g additional additio	In water Im increase in water	a, its weight,
Aluminum alloy Aluminum alloy Aluminum alloy Titanium alloy Titanium alloy Aluminum alloy Aluminum alloy Aluminum alloy	Driving position built in external built in external built in external built in external built in built in built in built in built in built in	outer dia(mm) ø78.9 ø78.9 ø78.9 ø78.9 ø78.9 ø78.9 ø78.9	Length (mm) 231.5 201.5 201.5 201.5 Length (mm) 231.5	Weight in air(KG) 1.4 1.2 1.5 1.3 Weight in air(KG) 1.4	water(KG) 1.0 0.9 1.1 1.0 Weight in water(KG) 1.0 0.9 1.1	model MCPBOF6M MCPBOF6M MCPBOF6M MCPBOF6M Connector model PBOF6M	dia 3/4* 3/4* 3/4* Oil tube dia 3/4*	outer dia 3" 3" 3" 3" 3" 3" 3" 3" 3" 3" 3" 3"	for oil tub adds 333 for oil tub adds 333 for oil tub adds 353 for oil tub adds 333 for oil tub adds 333 for oil tub adds 333	channe, each gin air, be, each 1g in air, be, each 1g in air be, each 3g in air we, each 1g in air, be, ea	ge additional adds 46g a additional adds 68g additional adds 46g additional adds 46g additional adds 46g additional adds 46g	In water Im increase in water	e, its weight, its
tem Housing Aluminum alloy Aluminum alloy Titanium alloy	Driving position built in external built in external built in external briving position built in external	Outer dia(mm) ø78.9 ø78.9 ø78.9 ø78.9 ø78.9 ø78.9 ø78.9 ø78.9	Length (mm) 231.5 201.5 231.5 201.5 Length (mm) 231.5 201.5	Weight in air(KG) 1.4 1.2 1.5 1.3 Weight in air(KG) 1.4 1.2	water(KG) 1.0 0.9 1.1 1.0 Weight in water(KG) 1.0 0.9	model MCPBOF6M MCPBOF6M MCPBOF6M MCPBOF8M Connector model PBOF6M PBOF6M	dia 3/4* 3/4* 3/4* Oil tube dia 3/4* 3/4*	outer dia 3" 3" 3" 3" 3" Oil tube bending outer dia 3" 3"	for oil tub adds 353 for oil tub adds 333 for oil tub adds 335 for oil tub adds 335 for oil tub adds 353 for oil tub adds 353 for oil tub	channe, each lg in air, ee, each lg in air, ee, each lg in air ee, each lg in air ee, each lg in air, ee,	ge additional adds 46g a additional adds 68g additional adds 46g additional adds 46g additional adds 46g additional adds 46g	In water I'm increase I'm water I'm increase I	e, its weight, its weight



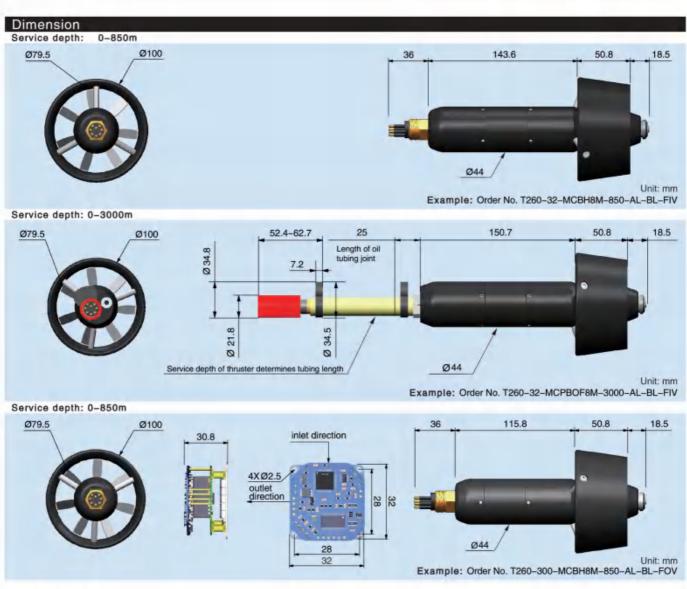


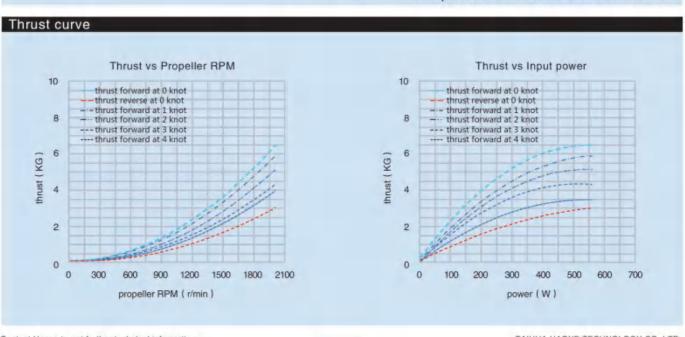
T260 thruster

1 Rated power	530W							
2 Rated voltage	32VDC	48VDC	60VDC	72VDC	90VDC	110VDC	140VDC	
	180VDC	220VDC	300VDC					
3 Max RPM	2000r/min							
4 Thrust	Thrust forw	ard 6.5 KG	Thrust reve	erse 3 KG				
5 Nozzle	Black							
6 Propeller handing	left O	right C						
7 Material of propeller	Stainless st							
8 Housing	Aluminum a	alloy Tita	nium alloy					
9 Seal	Leakless, n	nagnetically cou	pled					
10 Depth rating	0-850m	0-1500m	0-3000m	0-6000m	full ocean dep	oth se	ervice depth> 1500m,	oil filled seal
11 Signal power	Supply valt	age is 12VDC(±5%) ≤210mA					
12 Control mode	analog volt	age control (0V	-+5V forward,	0V5V reverse	a)		CAN	
13 RPM feedback	pulse feedb	oack anak	og voltage leed	sack	CAN			
14 Temperature	storage te	mperature: -4	0~70°C	service temp	erature: -5-4	00		
15 Electronics	built-in	external						

14 Tempera 15 Electron		storage built-in	temperati extern	ure: -40~70 al	°C se	rvice temper	ature: -	5-40℃				
Mechnical p	arame	ters										
Service depth:	0-850m	& 0-1500r	n									
Item Housing	Driving			Weight in air(KG)	Weight in water(KG	Connector model		Option	nal vo	Itage(V	DC)	common mode
1 Aluminum alloy	built in	n ø100	249	1.2	8.0	MCBH6M	90	110	140	180	220	300
2 Aluminum alloy	built is	n Ø100	249	1.2	0.8	MCBHBM	32	48	60	72		
 Aluminum alloy 	built in	n ø100	237	1.2	0.8	MCBHRA6M	90	110	140	180	220	300
4 Aluminum alloy	built in	n ø100	237	1.2	8.0	MCBHRA8M	32	48	60	72		
5 Aluminum alloy	extern		221	1.1	0.7	MCBH8M	110	140	180	220	300	
 Aluminum alloy 	extern	al Ø100	231	11	0.7	MCBH12M	48	60	72	90		
7 Aluminum alloy	Committee of the late of the	al ø100	231	1.1	0.7	MCBH16M	32					
8 Aluminum alloy	2000	al Ø100	209	11	0.7	MCBHRA8M	110	140	180	220	300	
g Aluminum alloy		120	217	1.1	0.7	MCBHRA12M		60	72	90		
10 Aluminum alloy	extern		217	1.1	0.7	MCBHRA16M						
11 Titanium alloy			249	1.3	0.9	MCBH6MSS	90	110	140	180	220	300
12 Titanium alloy	41 350 0	77 4 7 7	249	1.3	0.9	MCBH8MSS	32	48	60	72		
13 Titanium alloy		10000	237	1.3	0.9	MCBHFIA6MS		110	140	180	220	300
14 Titanium alloy			237	1.3	0.9	MCBHRA8MS		48	60	72		
15 Titanium alloy		20.100	221	1.2	0.8	MCBH8MSS	110	140	180	220	300	
16 Titanium alloy	4-4-4-2-1		231	1.3	0.9	MCBH12MSS	48	60	72	90		
17 Titanium alloy			231	1.3	0.9	MCBH16MSS	32		-			
18 Titanium alloy		7.4	209	1.2	8.0	MCBHRA8MS	CS 1 1107	140	180		300	0
19 Titanium alloy	The second second second		217	1.3	0.9	MCBHRA12M		60	72	90		
20 Titanium alloy	extern	al ø100	217	1.3	0.9	MCBHRA16M	SS 32					
Service depth: Item Housing	0-3000r Driving position	n & 0-600 Outer dia(mm)	Length 1		Weight in water(KG)	Connector model	Oil tube	Oil lub bendir outer	ng		Weig	
1 Aluminum alloy	built in	ø100	245	1.7	1.1	MCPBOF6M	3/4"	3	1	for oil tul adds 33	oe, each 1g in air	n additional 1m increase, its weigh r, adds 46g in water
2 Aluminum alloy	tiult in	ø100	245	17	1.1	MCPBOF8M	3/4"	-3		for oil tut	oe, each	n additional 1m increase, its weigh r, adds 68g in water
3 Aluminum alloy	external	ø100	215	1.6	1.0	MCPBOF8M	3/4"	3	9	adds 35	3g in ai	h additional 1m increase, its weigh r, adds 68g in water
4 Aluminum alloy	external	ø100	215	1.6	1.0	MCPBOF12M	3/4"	3		adds 39	8g in ai	h additional 1m increase, its weigh r, adds 113g in water
5 Aluminum alloy	external	ø100	215	1.6	1.0	MCPBOF16M	3/4"	3'		adds 44	3g in ai	h additional 1m increase, its weigl r, adds 158g in water h additional 1m increase, its weigh
6 Titanium alloy	built in	ø100	245	1.9	1.2	MCPBOF6M	3/4"	3,		adds 33	1g in ai	r, adds 46g in water
7 Titanium alloy	built in	Ø100	245	1.9	1.2	MCPBOF8M	3/4"	3,		adds 35	3g in ai	h additional 1m increase, its weigh r, adds 68g in water h additional 1m increase, its weigh
B Titanium alloy	external		215	1.8	1.1	MCPBOF8M	3/4"	3,		adds 35	3g in ai	r, adds 68g in water h additional 1m increase, its weigh
9 Titanium alloy	external	ø100	215	1.9	1.2	MCPBOF12M	3/4"	3,		adds 39	8g in air	r, adds 113g in water h additional 1m increase, its weigh
10 Titanium alloy	external	0100	215	1.9	1.2	MCPBOF16M	3/4"	3'		adds 44	3g in ai	r, adds 158g in water
Service depth Item Housing	Driving position	Outer dia(mm)	Length (mm)	Weight in air(KG)	Weight in water(KG)	Section 10 (0) (1)	Oil tube	Oil tub bendi	ng			/eight hange
1 Aluminum alloy	built in	ø100	245	1.7	1.1	PBOF6M	3/4"	3"	-	for oil tub	e, each	n additional 1m increase, its weigh
2 Aluminum alloy	external	ø100	215	1.6	1.0	PBOF8M	3/4"	3"		for oil tul	be, each	r, adds 46g in water n additional 1m increase, its weigh r, adds 68g in water
3 Titanium alloy	built in	ø100	245	1.9	1.2	PBOF6M	3/4"	3"		for oil tul	be, each	h additional 1m increase, its weigh r, adds 46g in water
4 Titanium allow	Sulpensi	0100	215	1.8	1.1	PROFRM	2/4"	3"		for all tub	oe, each	n additional 1m increase, its weigh





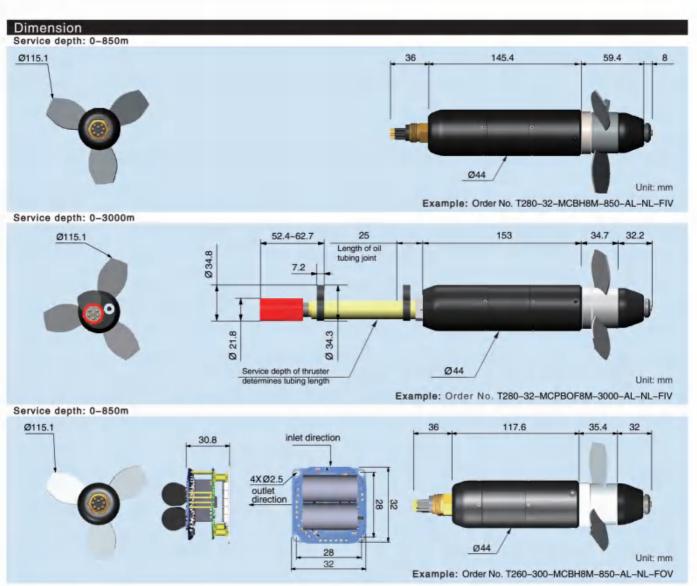


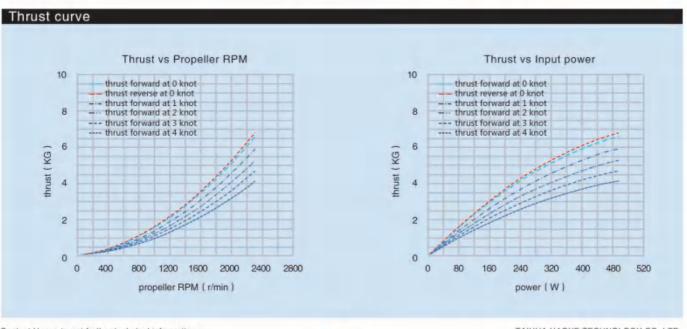
T280 thruster

echnical paramete								
1 Rated power	490W	and the second					CONTRACTOR OF STREET	design la
2 Rated voltage	32VDC	48VDC	65VDC	80VDC	100VDC	130VDC	150VDC	200VDC
	250VDC	300VDC						
3 Max RPM	2300r/min							
4 Thrust	thrust forwar	d 6.7 KG	thrust reverse	6.7 KG				
5 Nozzle	none		A					
6 Propeller handing	Left O	Right C						
7 Materical of propeller	stainless stee	el						
8 Housing	Aluminum all	oy Titar	ium alloy					
9 Seal	leakless, may	gnetically coup	ed					
10 Depth rating	0-850m	0-1500m	0-3000m	0-6000m	full ocean de	oth	service depth >1	500m, oil filled seal
11 Signal power	supply voltag	ge is 12VDC(±	5%),≤210mA					
12 Control mode	analog voltag	ge control (0V	+5V forward, 0V	5V reverse	1		CAN	
13 RPM feedback	pulse feedba	ick analog	voltage feedbad	c C	AN			
14 Temperature	storage tem	perature: -40	~70°C se	rvice temp	erature: -5-4	10°C		
15 Electronics	built in e	external						

Service depth:		ters & 0-150	0m										
Item Housing	Driv posi	ing	Outer dia(mm)	Length (mm)	Weight in air(KG)	Weight in Water(KG)	Connt		Optional	voltage	(VDC)	-	common mod
1 Aluminum alloy	built	in	Ø115	249	1.2	8.0	МСВН	6M	130	150	200	250	300
2 Aluminum altoy	built	in	Ø115	249	1.2	0.8	MCBH	BM	32	48	65	80	100
3 Aluminum alloy	built	in	ø115	237	1.2	0.8	MCBH	RA6M	130	150	200	250	300
4 Aluminum alloy	built	in in	Ø115	237	1.2	0.8	MCBH	RA8M	32	48	65	80	100
5 Aluminum alloy	exte	rnal	Ø115	221	1.1	0.7	MCBH	N/8	130	150	200	250	300
6 Aluminum alloy	exte	rnal	Ø115	231	1.1	0.7	MCBH	12M	65	80	100		
7 Aluminum alloy	exte	rnai	Ø115	231	1.1	0.7	MCBH		32	48			
8 Aluminum alloy		rnal	Ø115	209	11	0.7	MCBH		130	150	200	250	300
9 Aluminum alloy		rnal	Ø115	217	1.1	0.7		RA12M	65	80	100		
10 Aluminum altoy			Ø115	217	1.1	0.7		RA16M	32	48			
11 Titanium alloy	bulli		ø115	249	1,3	0,9	MCBH		130	150	200	250	300
12 Titanium alloy	built		Ø115	249	1.3	0.9	MCBH		32	48	65	80	100
13 Titanium alloy	built		Ø115	237	1.3	0,9		RA6MSS	130	150	200	250	300
14 Titanium alloy	bullt		Ø115	237	1.3	0.9		RA8MSS	32	48	65	80	100
15 Titanium alloy	exte		Ø115	221	1.2	0.8	MCBH		130	150	200	250	300
16 Titanium alloy	exte		Ø115	231	13	0.9	115	12MSS	65	80	100		
7 Titanium alloy	exte		Ø115	231	1.3	0.9		16MSS	32	48	44.	-	- 44
18 Titanium alloy	exte		ø115	209	1.2	0.8	7.5	RA8MSS	130	150	200	250	300
19 Titanium alloy	exte		ø115	217	1.3	0.9		RA12MSS	65	80	100		
20 Titanium alloy	exte	rnal	Ø115	217	1.3	0,9	MCBH	RA16MSS	32	48			
Service depth: tem Housing	0-3000r Driving	n & 0-60 Outer	000m Length	Weight in	Weight in	Connector	Oil tube	Oil tube bending		Weigh			
term Theatening	position	dia(mm)	(mm)	air(KG)	water(KG)	model	dia	outer dia		change	9		
Aluminum alloy	built in	Ø115	245	1.7	1.1	MCPBOF6M	3/4"	3,	adds 331	g in air, a	dds 46g	in wate	
2 Aluminum alloy	ni Huid	ø115	245	17	1.1	MCPBOF8M	3/4"	3"	adds 353	g in air, a	idds 68g	in wate	
Aluminum alloy	external	ø115	215	1.6	1.0	MCPBOF8M	3/4"	3"	adds 353	g in air, a	edds 68g	in wate	rease, its wei er rease, its wei
Aluminum alloy	external	0115	215	1.6	1.0	MCPBOF12M	3/4"	3"	adds 398	g in air, a	edds 113	g in wa	
Aluminum alloy	external	ø115	215	1.6	1.0	MCPBOF16M	3/4"	3"	adds 443	g in air, a	dds 158	g in wa	
Titanium alloy	built in	Ø115	245	1.9	1.2	MCPBOF6M	3/4"	3,	adds 331	g in air, a	idds 46g	in water	
Titanium alloy	built in	Ø115	245	1.9	1.2	MCPBOF8M	3/4"	3*	adds 353	lg in air, a	idds 68g	in water	
Titanium alloy	external	0115	215	1.8	1.1	MCPBOF8M	3/4"	3.	adds 353	ig in air, a	idds 68g	in wate	r
Titanium alloy	external	Ø115	215	1.9	1.2	MCPBOF12M	3/4"	3.	adds 398	g in air, a	edds 113	g in wat	rease, its wei ter rease, its wei
Titanium alloy	external	0115	215	1.9	1.2	MCPBOF16M	3/4"	3.	adds 443	lg in air, a	idds 158	g in wat	er is no
Service depth	full oc	ean dept	th					Oil tube					
lem Housing	Driving	Outer dia(mm	Length (mm)	Weight in air(KG)	Weight in water(KG)	Connector	Oli tube dia	bending outer dia			ight nge		
Aluminum alloy	built in	ø115	245	1.7	1.1	PBOF6M	3/4"	3"	adds 331	e, each a g in air, a	dditional dds 46g	in water	rease, Its weig r
Aluminum alloy	external	0115	215	1.6	1.0	PBOF8M	3/4"	3"	for oil tub adds 353	e, each a lg in air, a	dditional dds 68g	1m inc in wate	rease, its weight
3 Titanium alloy	built in	ø115	245	1.9	1.2	PBOF6M	3/4"	3"	adds 331	g in air, a	idds 46g	in wate	rease, its weig r
4 Titanium alloy	external	Ø115	215	1.8	1.1	PBOF8M	3/4"	3"	for oil tub adds 353	e, each a	dditional	Im inci	rease, its weig



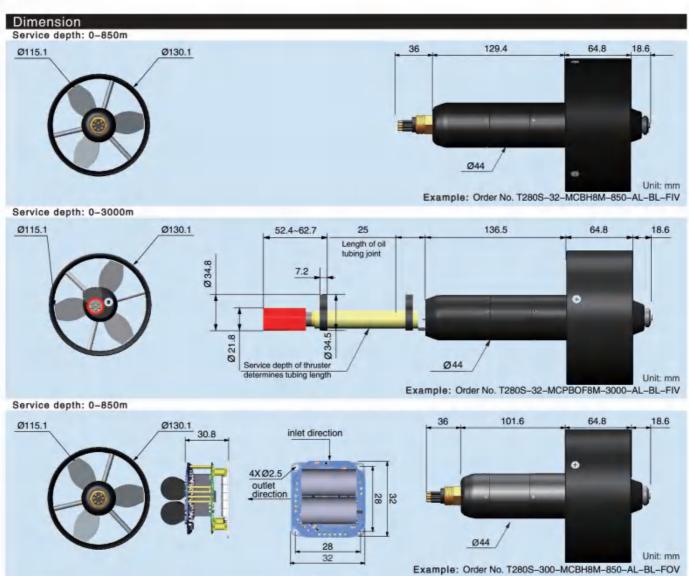


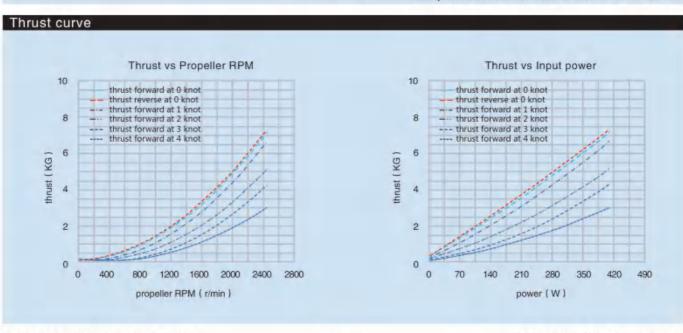


T280S thruster

1 Rated power	400W								
2 Rated voltage	32VDC	48VD	C	65VDC	80VDC	100VDC	130VDC	150VDC	200VDC
	250VDC	300V	DC						
3 Max RPM	2480r/min								
4 Thrust	thrust forw	ard 7.3 K	G	thrust reverse	7.3 KG				
5 Nozzle	black								
6 Propeller handing	left O	right	C						
7 Material of propeller	stainless st	teel							
8 Housing	Aluminum	alloy	Tita	nium alloy					
9 Seal	leakless, m	nagnetical	ly coup	oled					
10 Depth rating	0-850m	0-15	00m	0-3000m	0-6000m	full ocean de	epth	service dept	th >1500m, oil filled seal
11 Signal power	supply volt	lage is 12	VDC(±	5%),≤210mA					
12 Control mode	analog volt	tage contr	ol (OV	-+5V forward, 0V-	-5V reverse)		CAN	
13 RPM feedback	pulse feed	back	analog	voltage feedback	(CAN			
14 Temperature	storage te	emperatu	re: -40	0-70°C se	rvice temp	erature: -5-	40°C		
15 Electronics	built-irr	externa	1						

14 Tempera 15 Electron		storag built-ir	the second second second second	ature: -40- mal	70°C 8	service tempe	erature: -	5-40°C					
Mechnical p	arame	ters											
Service depth:	0-850m	80-1500	m										
Item Housing	Drivi				the second second second		Connector model		Op	tional s	oltage	(VDC)	common mode
1 Aluminum allo	buil yo	tin ø	130	249	1.3	7.0	MCBH6M		130	150	200	250	300
2 Aluminum allo	buil	tin ø	130	249	1.3	1.0	MCBH8M		32	48	65	80	100
3 Aluminum allo	buil	tin ø	130	237	1.3	1.0	MCBHRA6M		130	150	200	250	300
4 Aluminum allo			130	237	1.3	300	MCBHRA8M		32	48	65	80	100
5 Aluminum allo			130	221	1.2		MCBH8M		130	150	200	250	300
6 Aluminum allo		2777	130	231	1.2	700	MCBH12M		65	80	100		
7 Aluminum allo		The second second	130	231	1.2	nin .	MCBH16M		32	48			nui h
8 Aluminum allo			130	209	1.2		MCBHRA8M		130	150	200	250	300
9 Aluminum allo 10 Aluminum allo		~	130 130	217	1.2	0,0	MCBHRA12f MCBHRA16f		65 32	48	100		
11 Titanium allo		7-12	130	249	1.5	10141	MCBH6MSS		130	150	200	250	300
12 Titanium allo			130	249	1.5		MCBH8MSS		32	48	65	80	100
13 Titanium allo			130	237	1.5		MCBHRA6M		130	150	200	250	300
14 Titanium allo			130	237	1.5		MCBHRA8M		32	48	65	80	100
15 Titanium allo		3113. 40	130	221	1.3		MCBH8M5S	and the same of	130	150	200	250	300
16 Titanium allo		ernal ø	130	231	1.3		MCBH12MS		65	80	100		
17 Titanium allo	y exte	ernal ø	130	231	1.3		MCBH16MS	S	32	48			
18 Titanium allo	y exte	ernal ø	130	209	1.3	1.1	MCBHRA8M	ISS	130	150	200	250	300
19 Titanium allo	y exte	ernal ø	130	217	1.3	1.1	MCBHRA12	MSS	65	80	100		
20 Titánium allo	y exte	ernal ø	130	217	1.3	1.1 1	MCBHRA16	MSS	32	48			
Service depth: Item Housing	Driving position	Outer dia(mm)	Length (mm)	Weight in air(KG)	Weight in water(KG)	Connector model	Oil tube dia	Oil tube bending outer dia			Weight change		
1 Aluminum alloy	built in	ø130	245	1.8	1.3	MCPBOF6M	3/4"	3"	a	dds 331g	in air, a	dds 46g	1m increase, its weigh in water 1m increase, its weigh
2 Aluminum alloy	built in	ø130	245	1.8	1.3	MCPBOF8M	3/4"	3"	a	dds 353g	j in air, a	dds 68g	in water
3 Aluminum alloy	external	ø130	215	1.7	1.2	мсрвогем	3/4"	3"	a	dds 353	g in air, a	dds 68g	
4 Aluminum alloy	external	0130	215	1.7	1.2	MCPBOF12N	A 3/4"	3"	a	dds 398	g in air, a	dds 113	1m increase, its weig g in water
5 Aluminum alloy	external	ø130	215	1.7	1.2	MCPBOF16N	A 3/4"	3"	a	dds 443 ₀	g in air, a	dds 158	1m increase, its weigi g in water
6 Titanium alloy	built in	ø130	245	2.1	1.4	MCPBOF6M	3/4"	3*	a	dds 331g	g in air, a	dds 46g	
7 Titanium alloy	built in	ø130	245	2.1	1.4	MCPBOF8M	3/4"	3.	a	dds 353g	g in air, a	dds 68g	
8 Titanium alloy	external	ø130	215	1.8	1.3	MCPBOF8M	3/4"	3.	a	dds 353g	g in air, a	dds 68g	
9 Titanium alloy	external	ø130	215	1.8	1.3	MCPBOF12N	A 3/4"	3.	a	dds 3980	in air, a	dds 1130	1m increase, its weight g in water
0 Titanium alloy	external	0130	215	1.8	1.3	MCPBOF16N	A 3/4"	3*	a	dds 443g	g in air, a	dds 158	1m increase, its weigh g in water
Service depth	: full oca	ean depti	n					Oil tube					
Item Housing	Driving position	Outer dia(mm	Length	Weight in air(KG)	n Weight in water(KG		Oil tube	bending outer dia			Wei		
1 Aluminum alloy	built in	ø130	245	1.8	1.3	PBOF6M	3/4"	3"	fo	r oil tube		dditional	1m increase, its weigh
2 Aluminum alloy	external	ø130	215	1,7	1.2	PBOF8M	3/4"	3"	fo	r oil tube	each a	dditional	1m increase, its weigh
3 Titanium alloy	built in	ø130	245	2.1	1.4	PBOF6M	3/4"	3"	fo	or oil tube		dditional	1m increase, its weigh





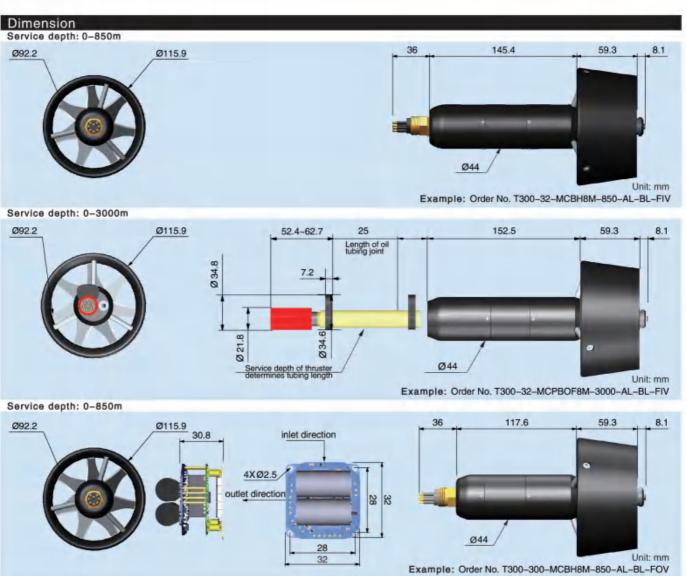
T300 thruster

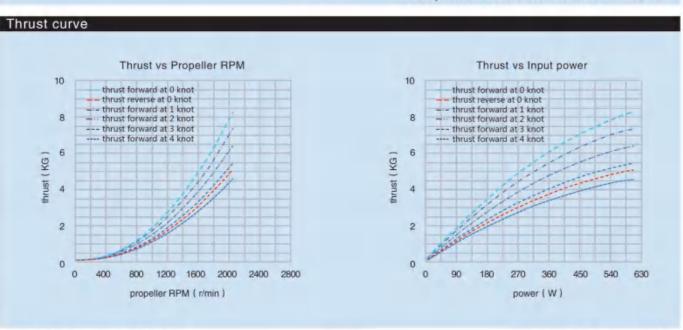
1 Rated power	580W							
2 Rated voltage	32VDC	48VDC	60VDC	72VDC	90VDC	110VDC	140VDC:	180VDC
- Card and and	220VDC	300VDC						11.77 6.0
3 Max RPM	2080r/min							
4 Thrust	thrust forwa	rd 8.3 KG	thrust reverse	5.1 KG				
5 Nozzle	black							
6 Propeller handing	Left O	Right C						
7 Material of propeller	stainless ste	eel						
8 Housing	Aluminum a	lloy Titar	nium alloy					
9 Seal	leakless, ma	ignetically coup	led					
10 Depth rating	0-850m	0-1500m	0-3000m	0-6000m	full ocean	depth	service depth >1	1500m, oil filled seal
11 Signal power	supply volta	ge is 12VDC(±	5%).≤210mA					
12 Control mode	analog volta	ige control (0V	-+5V forward, 0	V5V reverse)		CAN	
13 RPM feedback	pulse feedb	ack anak	og voltage feedb	ack C	AN			
14 Temperature	storage ten	nperature: -40	0~70°C s	ervice temp	erature: -5-	-40°C		
15 Electronics	built in	external						

ı	Mechr	ncai	рa	rame	ters
	Comiton	Acces		0.00-	

3 Aluminum alloy built in #116 237 1.3 0.9 MCBHRA6M 140 180 220 300 4 Aluminum alloy built in #116 237 1.3 0.9 MCBHRA6M 32 48 60 72 5 Aluminum alloy external #116 221 1.1 0.8 MCBHBM 140 180 220 300 6 Aluminum alloy external #116 231 1.1 0.8 MCBH12M 60 72 90 110 7 Aluminum alloy external #116 231 1.1 0.8 MCBH16M 32 48 8 Aluminum alloy external #116 209 1.1 0.8 MCBHRA6M 140 180 220 300 9 Aluminum alloy external #116 217 1.1 0.8 MCBHRA12M 60 72 90 110 10 Aluminum alloy external #116 217 1.1 0.8 MCBHRA12M 60 72 90 110 11 Titanium alloy built in #116 249 1.5 1.1 MCBH6MSS 140 180 220 300 12 Titanium alloy built in #116 249 1.5 1.1 MCBH6MSS 32 48 60 72 13 Titanium alloy built in #116 237 1.5 1.1 MCBHBMSS 32 48 60 72 15 Titanium alloy built in #116 237 1.5 1.1 MCBHRA6MSS 32 48 60 72 15 Titanium alloy external #116 221 1.4 1.0 MCBHBMSS 140 180 220 300 14 Titanium alloy external #116 231 1.4 1.0 MCBHBMSS 140 180 220 300 15 Titanium alloy external #116 231 1.4 1.0 MCBHBMSS 140 180 220 300 16 Titanium alloy external #116 231 1.4 1.0 MCBHBMSS 140 180 220 300 17 Titanium alloy external #116 231 1.4 1.0 MCBHBMSS 140 180 220 300 19 Titanium alloy external #116 231 1.4 1.0 MCBHBMSS 140 180 220 300 19 Titanium alloy external #116 231 1.4 1.0 MCBHBMSS 140 180 220 300 19 Titanium alloy external #116 217 1.4 1.0 MCBHBMSS 32 48 Service depth: 0-3000m & 0-6000m Item Housing Driving Outer Lerigth Weight in Weight in Connector Oil tube bending	comman mo
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	each additional 1m increase, its wei n air, adds 68g in water
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4 Aluminum alloy external with 215 1.5 1.1 WCPBUF12W 3/4 3 adds 398g ii	each additional 1m increase, its wei n air, adds 113g in water
adds 443g ir	each additional 1m increase, its wei n air, adds 158g in water each additional 1m increase, its wei
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adds 398g in	n air, adds 113g in water each additional 1m increase, its wei
o financian alloy external area 215 1.9 1.3 MCPBOF16WI 3/4 3 adds 443g in	n air, adds 158g in water
Service depth: full ocean depth Oil tube	Weight
position dia(mm) (mm) airrKG) water(KG) model dia outerdia	change
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a adds 331gi	air, adds 68g in water
4 Titanium alloy external Ø116 215 2.0 1.4 PBOF8M 3/4" 3" 10r oli 1ube, e adds 353g ir	n air, adds 68g in water each additional 1m increase, its wei n air, adds 46g in water each additional 1m increase, its wei



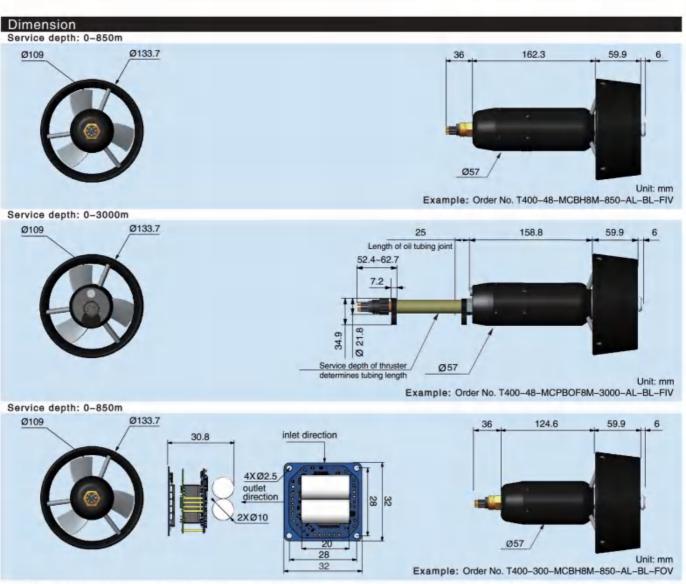


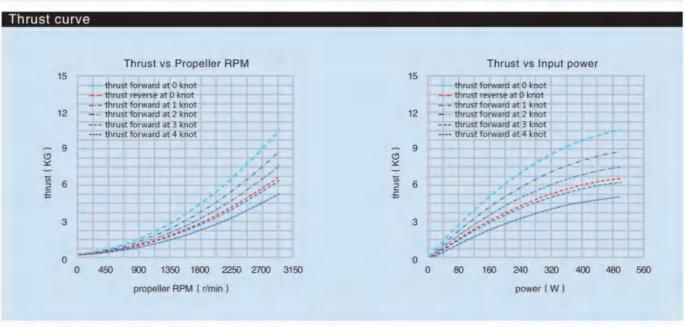


T400 thruster

1 Rated po														
THE RESERVE AND ADDRESS OF THE PARTY OF THE		500W			Mary and a	nan-ti	arbare i			er al	10.000	No.	and the same same	
2 Rated vo	ltage	24VDC			48VDC	65VDC	80V	DC:	10	OVDC	130	/DC:	150VD	C
e		200VD(VDC :	300VDC									
3 Max RPN	Л	2940r/n		- 1/0										
4 Thrust			irward 10.	5 KG I	hrust reverse	b.b KG								
5 Nozzle	handina	black	e einbt											
6 Propeller I 7 Material of		left C		C										
8 Housing	brobener	Alumini		Titanium	allow									
9 Seal				ally coupled	diay									
10 Depth rat	tina	0-850n		A	0-3000m	0-6000m	full	ocean	denth		service	e denth	>1500m. c	il filled seal
11 Signal po	75			2VDC(±5%)		0 0000111	10.11	oodan	aopar		Our viol	o oupar	z ragoin, c	an initia dear
12 Control m					V forward, 0V-	-5V reverse)					CAN	1		
13 RPM leed	dback	pulse fe			voltage feedba		MAC							
14 Temperat	ture	storage	temperat	ure: -40-70	o°C	service ter	mpe	ratur	e: -5-	40℃				
15 Electronia	cs	built in	exte	emal			***							
lechnical p	arame	ters												
ervice depth; (0-850m	& 0-1500r	n											
em Housing	Driving positio		Length (mm)	h Weight i air(KG)	п Weight in water(KG	Connector model		(Optiona	al volta	ige(VDC	}		common mo
1 Aluminum alloy	built ir	ø134	264	1.7	1.1	MCBH6M		130	150	200	250	300		
2 Aluminum alloy	built ir	0134	264	1.7	1.1	МСВНВМ		24	36	48	65	80	100	
3 Aluminum alloy	built ir		252	1.7	1.1	MCBHRA6M		130	150	200	250	300		
Aluminum alloy			252	1.7	3,1	MCBHRA8M		24	36	48	65	80	100	
5 Aluminum alloy	the state of the s	The second second	227	1.6	1.1	MCBH8M		130	150	200	250	300		
Aluminum alloy			236	1.6	1.1	MCBH12M		65	80	100				
7 Aluminum alloy	extern		236	1.6	1.1	MCBH16M		24	36	48				
Aluminum alloy		-	215	1.6	1.1	MCBHRA8M		130	150	200	250	300		
Aluminum alloy	extern		222	1.6	1.1	MCBHRA12M		65	80	100				
Aluminum alloy	extern		222	1.67	1.1	MCBHRA16M		24	36	48	200			
1 Titanium alloy	built in		264	2.0	1.4	MCBH6MSS		130	150	200	250	300	100	
2 Titanium alloy	built in	77 17 1	264	2.0	1.4	MCBH8MSS		130	36 150	200	65 250	300	100	
3 Titanium alloy 4 Titanium alloy	built ir		252 252	2.0	1.4	MCBHRA8MS		24	36	48	65	80	100	
5 Titanium alloy	extern		227	1.9	1.4	MCBH8MSS	ici.	130	150	200	14.5	300	100	
6 Titanium alloy	extern		236	1.9	1.4	MCBH12MSS		65	80	100	230	300		
7 Titanium alloy	extern	-	236	1.9	1.4	MCBH16MSS		24	36	48				
B Titanium alloy	extern	Annual Control on	215	1.9	14	MCBHRA8MS		130	150	200	250	300		
9 Titanium alloy	extern	77.7	222	1.9	1.4	MCBHRA12M	C30 11	65	80	100	400	0.00		
Titanium alloy	extern	the second second	222	1.9	1.4	MCBHRA16M		24	36	48				
ervice depth:	0-3000m	8 0-600	0m						Oll ius	ne.				
	Driving position	Outer dia(mm)			Weight in water(KG)	Connector model	Oil dia	tube.	bendi	ng		Weight change		
Aluminum alloy	built in	Ø134	251	2.0	1.2	MCPBOF6M	3/	4"	3		for oil tube, adds 331g			n increase, its wei water
Aluminum alloy	hi fliud	ø134	251	2.0	1/2	MCPBOF8M	3/	4"	-3	. 1		each ac	dditional 1r	n increase, its wei
Numinum alloy	external	ø134	214	1.6	1.2	MCPBOF8M	3	4"	3			each a	dditional 1r	n increase, its we
Aluminum alloy	external	ø134	214	1.6	1.2	MCPBOF12M	3	4"	3			each a	dditional 1r	n increase, its we
Aluminum alloy	external	ø134	214	1.6	1.2	MCPBOF16M	3	4"	3		for oil tube adds 443g	each a in air, a	dditional 1r dds 158g i	n increase, its we n water
Titanium alloy	built in	ø134	251	2.3	1.5	MCPBOF6M	3/	4"	3		adds 331g	in air, ai	dds 46g in	
Titanium alloy	built in	ø134	251	2.3	1,5	MCPBOF8M	3/	4"	3		adds 353g	in air, a	dds 68g in	
Titanium alloy	external	Ø134	214	1.9	1.5	MCPBOF8M	3/	4"	3		adds 353g	in air, a	dds 68g in	
	external	ø134	214	1.9	1,5	MCPBOF12M		4"	3		adds 398g	in air, a	dds 113g ir	n increase, its wei n water n increase, its wei
Titanium alloy	external	0134	214	1.9	1.5	MCPBOF16M	3/	4"	3	1 3	adds 443g	in air, a	dds 158g li	n water
Service depth;	full oce	an depth							Oil tul	00				
em Housing	Driving position	Outer dia(mm)	Length (mm)	Weight in air(KG)	Weight in water(KG)	Connector	Oil I	tube	bendi	ng		Weig		
Aluminum alloy	built in	ø134	251	2.0	1.2	PBOF6M	3/4	4"	3"	1	for oil tube, adds 331g	each ac	ditional 1n	n increase, its wei water
Aluminum alloy	external	ø134	214	1.6	1.2	PBOF8M	3/4	4"	3"		for oil tube, adds 353g	each ac	daitional 1r dds 68g in	n increase, its wei water
	built in	Ø134	251	2.3	1.5	PBOF6M	3/4	4"	3		for oil tube, adds 331 g	each ac	dditional 1r	n increase, its wei
Titanium alloy	SESSION III													







			_			_							
T430 th	rust	ter											
Technical pa	1.1	_											
1 Rated por		500W	_								-		
2 Rated vol		24VDC	36VD	C 48	BVDC	65VDC 8	OVDC	1	OOVDC	130	VDC:	150\	/DC
4.110044.741	THUR THUR	200VDC	250V		DOVDC	deat di la constanti	DOME		2018/0	(100)	San Pro-	- 100	1800
3 Max RPM		2700r/min											
4 Thrust			vard BKG	thr	ist reverse 8	KG							
5 Nozzle		black	and bire	- 400	oc reverse o	rte.							
6 Propeller I	randing	Left O	Right	C									
7 Material of c		stainless s		0									
8 Housing	порыни	Aluminum		Titanium a	allow								
9 Seal		leakless, r			siloy								
10 Depth rat	ina	0-850m	0-15	A Control of the Control	-3000m	0-6000m fi	ill ocean	denth		ennic	e denth	~1500m	n, oil filled seal
11 Signal po				VDC(±5%)		0-0000111 11	un Octoballi	dehin		Servic	e depin	~1000H	i on mileu sear
12 Control m						-5V reverse)				CA	N.		
13 RPM feed	and the last of	pulse feed			tage feedback		N			UA			
14 Temperat	.411.11	Branch Control		re: -40-70		rvice tempera		103					
15 Electronic		built in	emperatu exten	and the second s	o sei	rvice tempera	tute: -:	3~40 C					
150-900000		7,9407.001	exten	id.									
Mechnical pa	aramete	rs											
Service depth: 0	-850m & 0	-1500m											
Item Housing	Driving		Lanalis	Maight in	Weight in	Connector		Delin	al volta	n=/\/DC			ALC: UNKNOWN
item nousing	position	Outer dia(mm)	(mm)	air(KG)	water(KG)		,	Option	ai voita	getvuc	0		common mod
1 Aluminum alloy	built in	ø135	264	1.8	1.2	MCBH6M	130	150	200	250	300		
2 Aluminum alloy	built in	Ø135	264	1.8	1.2	МСВНВМ	24	36	48	65	80	100	
3 Aluminum alloy	built in	ø135	252	1.8	1.2	MCBHRA6M	130	150	200	250	300		
4 Aluminum alloy	built in	ø135	252	1.8	1.2	MCBHRA8M	24	36	48	65	80	100	
5 Aluminum alloy	external	ø135	227	1.7	1.2	MCBH8M	130	150	200	250	300		
6 Aluminum alloy	external	ø135	236	1.7	1.2	MCBH12M	65	80	100		1000		
7 Aluminum alloy	external	ø135	236	1.7	1.2	MCBH16M	24	36	48				
8 Aluminum alloy	external	ø135	215	1.7	1.2	MCBHRASM	130		200	250	300		
g Aluminum alloy	external	Ø135	222	1.7	1.2	MCBHRA12M	65	80	100	200	240		
10 Aluminum alloy	external	ø135	222	1.7	1.2	MCBHRA16M	24	36	48				
11 Titanium alloy	built in	ø135	264	21	1.5	MCBH6MSS	130	150	200	250	300		
12 Titanium alloy	built in	ø135	264	2.1	1.5	MCBH8MSS	24	36	200	65	80	100	
13 Titanium alloy	built in	Ø135	252	2.1	1.5	MCBHRA6MSS		150	200	250	300	100	
14 Titanium alloy	built in	Ø135	252	2.1	1.5	MCBHRA8MSS		36	48	65	80	100	
15 Titanium alloy	external	ø135	227	1.9	1.4	MCBH8MSS	130	150	200	250	300	100	
and the second of the second o		and the latest terminal and th	236							250	300		
16 Titanium alloy	external	Ø135		1.9	1.4	MCBH12MSS	65	80	100				
17 Titanium alloy	external	ø135	236	1.9	1.4	MCBH16MSS	24	36	48	056	200		
18 Titanium alloy	external	p 135	215	1.9	1.4	MCBHRA8MSS		150	200	250	300		
19 Titanium alloy	external	ø135	222	1.9	1.4	MCBHRA12MS		80	100				
20 Titanium allov	external	@135	222	1.9	1.4	MCBHRA16MS	S 24	36	48				

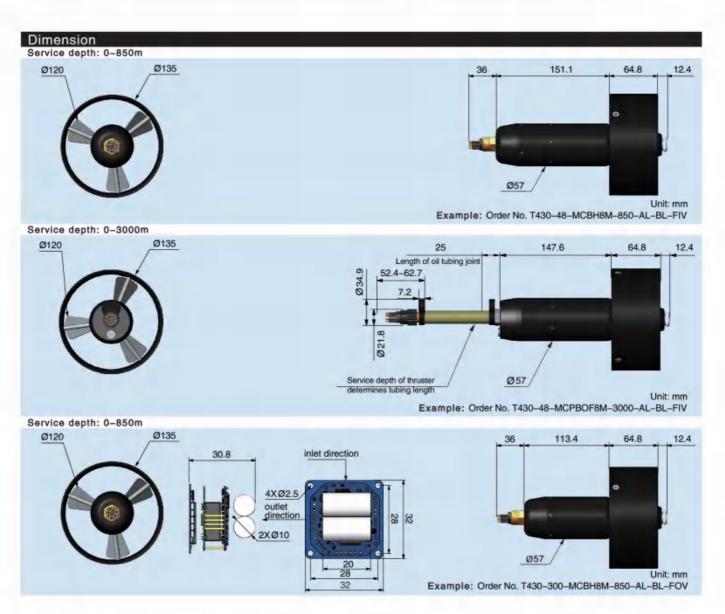
	18 Fitanium alloy	extern	BI 0135	215	1.9	1.4	MUBHRASMS	S 130	150 20	00 250 300
	19 Titanium alloy	/ extern	al Ø135	222	1.9	1.4	MCBHRA12M	SS 65	80 10	00
	20 Titanium alloy	extern	al @135	222	1.9	1.4	MCBHRA16M	SS 24	36 4	3
	Service depth: Item Housing	0-3000r Driving position	n & 0-60 Outer dia(mm)	Length (mm)	Weight in air(KG)	Weight in water(KG)	Connector model	Oil tube	Oll lube bending outer dia	Weight change
	1 Aluminum alloy	built in	ø135	251	2.1	1.3	мсрвог6м	3/4"	3"	for oil tube, each addit adds 331g in air, adds
	2 Aluminum alloy	ni fliud	ø135	251	2,1	1.3	MCPBOF8M	3/4"	3"	for oil tube, each addit adds 353g in air, adds
	3 Aluminum alloy	external	ø135	214	1.7	1.3	MCPBOF8M	3/4"	3"	for oil tube, each addit adds 353g in air, adds
	4 Aluminum alloy	external	ø135	214	1.7	1.3	MCPBOF12M	3/4"	3"	for oil tube, each addit adds 398g in air, adds
	5 Aluminum alloy	external	ø135	214	1.7	1.3	MCPBOF16M	3/4"	3"	for oil tube, each addit adds 443g in air, adds
	5 Titanium alloy	built in	ø135	251	2.4	1.6	MCPBOF6M	3/4"	3,	for oil tube, each addit adds 331g in air, adds
	7 Titanium alloy	built in	ø135	251	2.4	1.6	MCPBOF8M	3/4"	3*	for oil tube, each addit adds 353g in air, adds
	B Titanium alloy	external	Ø135	214	2.0	1.6	MCPBOF8M	3/4"	3*	for oil tube, each addit adds 353g in air, adds
	9 Titanium alloy	external	ø135	214	2.0	1.6	MCPBOF12M	3/4"	3*	for oil tube, each addit adds 398g in air, adds
Ų,	O. The sures william	with state of 1	-400	and	Arc	4.0	MODBOTANA	-brasil	ni.	for oil tube, each addit

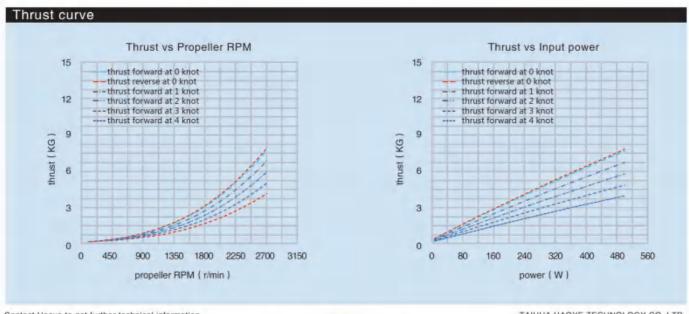
B Titanium alloy	external	Ø135	214	2.0	1.6	MCPBOF8M	3/4"	3.
9 Titanium alloy	external	ø135	214	2.0	1.6	MCPBOF12M	3/4"	3*
10 Titanium alloy	external	0135	214	2.0	1.6	MCPBOF16M	3/4"	3.
Service depth	; full oce	an depth						Oil tube
Item Housing	Driving position	Outer dia(mm)	Length (mm)	Weight in air(KG)	Weight in water(KG)	Connector	Oil tube dia	bending outer dia
1 Aluminum alloy	built in	ø135	251	2.1	1.3	PBOF6M	3/4"	3"
2 Aluminum alloy	external	ø135	214	17	1.3	PBOF8M	3/4"	3"
3 Titanium alloy	built in	ø135	251	2.4	1.6	PBOF6M	3/4"	3"
4 Titanium alloy	external	ø135	214	2.0	1.6	PBOF8M	3/4"	3"

change	
for oil tube, each additional 1m increase, its weight adds 331g in air, adds 46g in water	
for oil tube, each additional 1m increase, its weight adds 353g in air, adds 68g in water	
for oil tube, each additional 1m increase, its weight adds 353g in air, adds 68g in water	
for oil tube, each additional 1m increase, its weight adds 398g in air, adds 113g in water	
for oil tube, each additional 1m increase, its weight adds 443g in air, adds 158g in water	
for oil tube, each additional 1m increase, its weight adds 331g in air, adds 46g in water	
for oil tube, each additional 1m increase, its weight adds 353g in air, adds 68g in water	
for oil tube, each additional 1m increase, its weight adds 353g in air, adds 68g in water	
for oil tube, each additional 1m increase, its weight adds 398g in air, adds 113g in water	
for oil tube, each additional 1m increase, its weight adds 443g in air, adds 158g in water	

change	
for oil tube, each additional 1m increase, its weil adds 331g in air, adds 46g in water	ght
for oil tube, each additional 1m increase, its weil adds 353g in air, adds 68g in water	ght
for oil tube, each additional 1m increase, its wei adds 331g in air, adds 46g in water	ght
for oil tube, each additional 1m increase, its weil adds 353g in air, adds 68g in water	ght







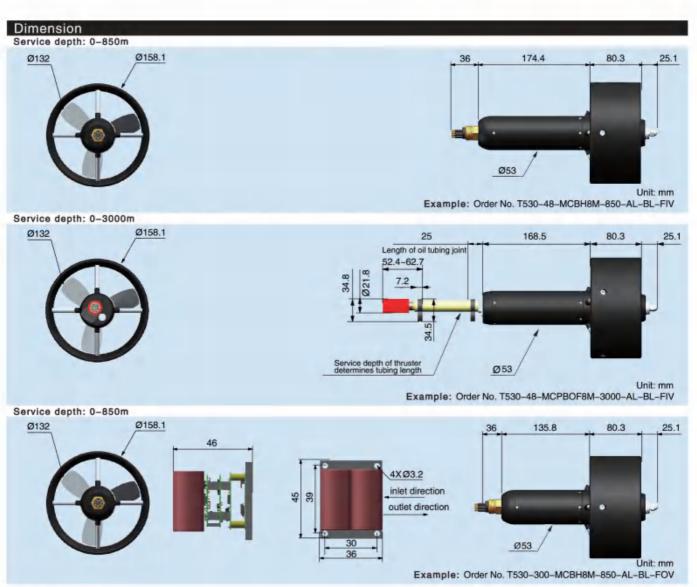
1kw

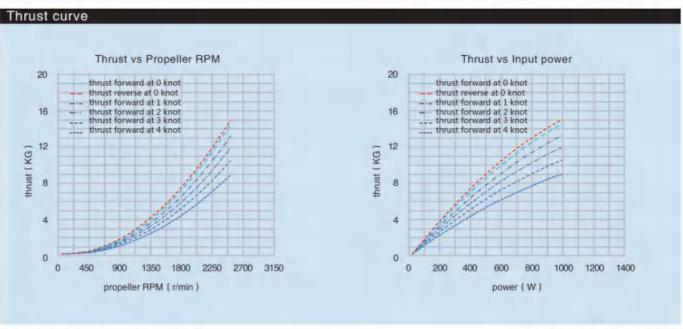
T530 thruster

Technical paramete	ers
1 Rated power	1kw
2 Rated voltage	48VDC 60VDC 75VDC 90VDC 120VDC 150VDC 200VDC 240VDC
	300VDC
3 Max RPM	2500r/min
4 Thrust	thrust forward 15 KG thrust reverse 15 KG
5 Nozzie	black
6 Propeller handing	left O right C
7 Material of propeller	stainless steel
8 Housing	Aluminum alloy Titanjum alloy
9 Seal	leakless, magnetically coupled
10 Depth rating	0-850m 0-1500m 0-3000m 0-6000m full ocean depth service depth >1500m, oil filled seal.
11 Signal power	supply voltage is 12VDC(±5%),≤250mA
12 Control mode	analog voltage control (0V-+5V forward, 0V5V reverse) CAN
13 RPM feedback	pulse feedback analog voltage feedback CAN
14 Temperature	storage temperature: -40-70°C service temperature: -5-40°C
15 Electronics	built in external

	4 Tempera 5 Electroni		storage built IIT	tempera	ture: –40-70 al	s s	ervice temperat	ure: -5-40	I C						
Med	chnical p	arame	ters												
Serv	ice depth:	0-850m	8 0-1500r	n											
Item	Housing		ving sition	Outer dia(mm)		Weight in air(KG)	Weight in water(KG)	Gonnec model	tor	Option	al volt	age(VD	C)	CON	nmon mode
1	Aluminum all	lay bui	ilt in	ø158	316	2.3	1.5	MCBH6N	4	200	240	300			
2	Aluminum all	lay bui	ilt in	ø158	316	2.3	1.5	MCBH8N	1	48	60	75	90	120	150
3	Aluminum all		It in	ø158	304	2.3	1.5	MCBHRA	1341.31	200	240	300			0.000
4	Aluminum all		III in	Ø158	304	2.3	1.5	MCBHR/		46	60	75	90	120	150
5	Aluminum al		emal	ø158	277	2.2	1.4	MCBH8N		200	240	300			
6	Aluminum al	-	ernal	Ø158	287	2.2	1.4	MCBH12		90	120	150			
7	Aluminum all Aluminum all		ernal emal	ø158 ø158	287 265	2,2	1.4	MCBH16 MCBHRA		200	240	75 300			
9	Aluminum all	7	emal	Ø158	274	2.2	1.4	MCBHRA		90	120	150			
10	Aluminum al	And the second second second	ernal	Ø158	274	2.2	1.4	MCBHRA		48	60	75			
11	Titanium all		ilt in	ø158	316	2.6	1.7	MCBH6N	the state of the s	200	240	300			
12	Titanium all		ilt in	ø158	316	2.6	1.7	MCBH8M		48	60	75	90	120	150
13	Titanium all		ilt in	Ø158	304	2.6	1.7	MCBHR4		200	240	300			
14	Titanium all	oy bu	ill-irr	ø158	304	2.6	1.7	MCBHRA	ABMSS	48	60	75	90	120	150
15	Titanium all	oy ext	emal	Ø158	277	2,8	1.8	MCBH8N	MSS	200	240	300			
15	Titanium all	oy ext	erna!	ø158	287	2.8	1.8	MCBH12		90	120	150			
17	Titanium all	oy ext	emal	ø158	287	2.8	1.8	MCBH16	Section 2 starts and	48	60	75			
18	Titanium all		ernal	Ø158	265	2.8	1.8	MCBHR/	M44-1-1	200	240	300			
19	Titanium all	and the second second	ernal	ø158	274	2.9	1.9	MCBHR/		90	120	150			
20	Titanium all	oy ext	emal	ø158	274	2.9	1.9	MCBHRA	ATEMSS	48	60	75			
	loe depth: Housing	0-3000m Driving position	Ouler	Om Length (mm)	COLUMN TO THE REAL PROPERTY.	Weight in water(KG)	Connector	Oil lube	Oil tube bending outer dia			Weigh			
1 Alun	ninum alloy	built in	ø158	299	2.7	1.8	MCPBOF6M	3/4"	3"	for d	sil tube, s 331a	each add in air, add	litional Is 46a	1m increasin water	se, its weigh
2Alum	ninum alloy	built in	ø158	299	2.7	1.8	мсрвогвм	3/4*	3"	for c	oil tube.		itional	1m increas	se, its weigh
3 Alun	ninum alloy	external	ø158	260	2.6	1.7	MCPBOF8M	3/4"	3'	ford	sil tube.		itional	1m increas	se, its weigh
4 Alun	ninum alloy	external	ø158	260	2.6	1.7	MCPBOF12M	3/4"	3"					1m increas g in water	se, its weigh
5 Alum	ninum alloy	external	ø158	260	2.6	1.7	MCPBOF16M	3/4"	3"					1m increa: g in water	se, its weigh
6Tital	nium alloy	built in	ø158	299	3.3	2.2	MCPBOF6M	3/4"	3,	add	s 331g	in air, add	Is 46g	in water	se, its weigh
7 Tital	nium alloy	bullt in	ø158	299	3.3	2.2	MCPBOF8M	3/4"	3'	add	s 353g	in air, add	ls 68g	in water	se, its weigl
8Tital	nium alloy	external	ø158	260	3.2	2.1	MCPBOF8M	3/4"	3'	add	s 353g	in air, add	Is 68g	in water	se, its weigh
9T/tai	nium alloy	external	ø158	260	3.2	2.1	MCPBOF12M	3/4"	3'	add	s 398g	in air, add	is 113	g in water	se, its weigh
OTital	nium alloy	external	ø158	260	3.2	21	MCPBOF16M	3/4"	3'					in water	se, its weigh
	ice depth: Housing	full ocea Driving position	Outer	Length (mm)	Weight in air(KG)	Weight in water(KG		Oil tube	Oil tube bending outer di	, ,	Veight change				
1. Alui	minum alloy	built in	ø158	299	2.7	1.8	PBOF6M	3/4"	3"	for	oil tube ds 331 d	, each ad in air, ad	ditiona ds 46c	I 1m increa in water	ise, its weig
2 Alu	minum alloy	nuitt in	ø158	299	2.7	1.8	PBOF8M	3/4"	3"	for	oil tube		ditiona	1 m increa	ise, its weig
з Аіш	minum alloy	externa	ø158	260	2,6	1.7	PBOF8M	3/4"	3"	for add	oil tube	, each ad	ditiona ds 68d	I im increa	ise, its weig
4 Tita	anium alloy	puilt in	Ø158	299	3,3	2.2	PBOF6M	3/4"	3"	for	oil tube ds 331g	each ad in air, ad	ditiona ds 46c	I 1m increa	ise, its weig
5 Tita	anium alloy	built in	ø158	299	3.3	2.2	PBOF8M	3/4"	3"	ade	ds 353g	in air, ad	ds 68g	in water	ise, its weig
6 Tita	anium alloy	externa	ø158	260	3.3	2.2	PBOF8M	3/4"	3"	for	oil tube ds 353d	, each ad in air, ad	ditiona ds 68d	Im increa	ise, its weig



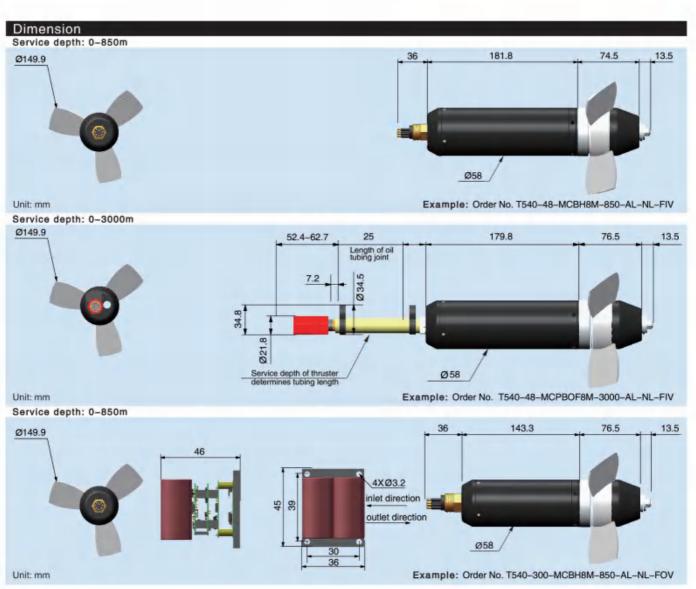


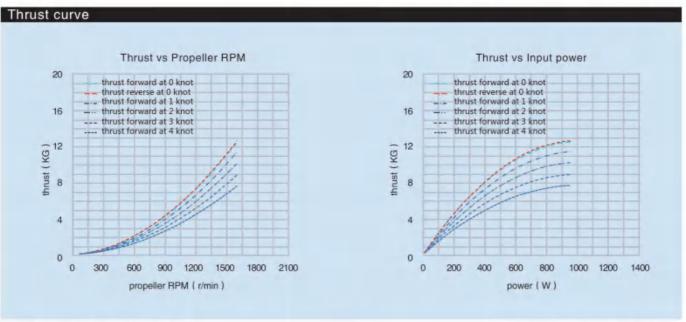


T540thruster

echnical paramete	rs								
1 Rated power	950W								
2 Rated voltage	48VDC	60VDC	72VDC	100VDC	120VDC	160VDC	200VDC	250VDC	300VDC
3 Max RPM	1600r/min								
4 Thrust	thrust forwar	rd 12.7 KG	thrust reverse	127 KG					
5 Nozzle	none								
6 Propeller handing	left O	right O							
7 Material of propeller	stainless ste	eel							
8 Housing	Aluminum a	floy Tita	nium alloy						
9 Seal	leakless, ma	agneically coup	led						
10 Depth rating	0-850m	0-1500m	0-3000m	0-6000m	full ocean d	lepth	service dept	h >1500m, oil f	illed seal
11 Signal power	supply volta	ge is 12VDC(±	±5%),≤250mA			**			
12 Control mode	analog volta	ige control (0\	/-+5V forward, 0	V-5V reverse	1		CAN		
13 RPM feedback	pulse feedb	ack an	alog voltage fee	dback	CAN		4		
14 Temperature	storage ter	nperature: -4	0-70°C	service temp	erature: -5-	-40°C			
15 Electronics	built in	external							

	13 RPM fee 14 Temper	777		eedback ie tempera	analog ture: -40-7	voltage feed	back ervice tempe	CAN rature: -	5-40 C						
	15 Electron	and the same of	built in				ontros tompo	Car at the car							
Иe	chnical	parame	eters												
-	vice depth:		A STATE OF THE STA	m				_			_	_	_		
	Housing			Outer	Length	Weight in	n Weight in	Conn	ector	Ontion	al volt	age(VDC	15	20	
itetii	Housing			dia(mm)	(mm)	air(KG)	water(KG			- Coprision	ui voii	ogolvos	7	comm	non mod
1	Aluminum a		ilt in	ø150	306	2.4	1.4	MCBH		200	250	300			
2	Aluminum a		ilt-in	Ø150	306	2.4	1.4	MCBI		48	60	72	100	120	160
3	Aluminum a	200	ilt in	ø150	294	2.4	1.4	11,000,000	HRA6M	200	250	300			
4	Aluminum a	illoy bu	III. In	ø150	294	2.4	1.4	MCBH	HRA8M	48	60	72	100	120	160
5	Aluminum a	2 5000	ternal	Ø150	269	2.2	1.2	MCBH	H8M	200	250	300			
6	Aluminum a		ternal	Ø150	279	2.2	1.2	MCBH	112M	100	120	160			
7	Aluminum a		ternal	ø150	279	2.2	1.2	MCBI		48	60	.72			
8	Aluminum a	100	ternal	ø150	257	2.2	12		HRA8M	200	250	300			
9	Aluminum a		ternal	ø150	265	2.2	1.2		HRA12M	100	120	160			
10	Aluminuma		ternal	Ø150	265	2,2	12	-	HRA16M	48	60	72			
11	Titanium a		ilt in	@150	306	2.5	1.6		H6MSS	200	250	300	100	100	450
12	Tilanium a		III in	Ø150.	306	2.5	1.6		H8MSS	48	60	72	100	120	180
13	Titanium a	the second second	ilt in	Ø150	294	2.5	1.6		HRA6MSS	200	250	300	100	400	****
14	Titanium a	100	ilt im	Ø150	294	2.5	1.6		HRA8MSS	48		72	100	120	160
15	Titanium a		ternal ternal	Ø150 Ø150	269 279	2.4	1.3		HBMSS H12MSS	200	120	160			
17	Titanium al Titanium al	(C)		Ø150	279	2.4	1.3	177	HI6MSS	100	60	72			
18	Titanium a		ternal ternal			2.4	1.3		HRABMSS		250	300			
19	Titanium a		ternal	ø150 ø150	257 265	2.4	1.3	Annual Contract of the Contrac	HRA12MSS	100	120	160			
20	Titanium a		ternal	ø150	265	2.4	1.3		HRA16MSS		60	72			
	Lipatinanti di	may .on	ioniei.	E IOO	200	407	1.40	INCIDI	ILIVITONIOO	M.A.	00	14			
	vice depth: Housing	Driving position	m & 0-60 Quter dia(mm)	Length (mm)	Weight in air(KG)	Weight in water(KG)	Connector model	Oil lube dia	Oil tube bending outer dia		cha	eight ange			
1 Alu	minum alloy	built in	ø150	295	2.8	1.7	MCPBOF6M	3/4"	3'	adds 3	331g in a	ich addition air, adds 4	6g in w	ater	
2 Alu	minum alloy	buill in	ø150	295	2.8	1.7	MCPBOF8M	3/4"	3"	adds 3	353g in a	ich addition air, adds 6	8g in w	aler	
3 Alu	minum alloy	external	Ø150	258	2.7	1,5	MCPBOF8M	3/4"	3,	adds 3	353g in 1	ich addition air, adds 6	8g in w	ater	
4-Alu	minum alloy	external	Ø150	258	27	1.5	MCPBOF12M	3/4"	3"	adds 3	398g in i	ich addition air, adds 1	13g in v	vater	
5 Alu	minum alloy	external	ø150	258	2.7	1.5	MCPBOF16M	3/4""	3"	adds 4	143g in a	ch addition air, adds 1	58g in v	vater	
6 Tita	anium alloy	buill in	ø150	295	3.1	21	MCPBOF6M	3/4"	3"	adds 3	31g in	ich addition air, adds 4	6g in w	ater	
7 Tita	anium alloy	built in	ø150	295	3.1	2.1	MCPBOF8M	3/4"	31	adds 3	353g in a	ich addition air, adds 6	8g in w	ater	
B Tita	anium alloy	external	ø150	258	2.8	1.6	MCPBOF8M	3/4"	3.	adds 3	353g in 1	ich additio air, adds 6	8g in w	ater	
9 Tit	anium alloy	external	ø150	258	2.8	1.6	MCPBOF12M	3/4"	3"	adds 3	398g in a	ich addition air, adds 1	13g in v	vater	
O Tita	anium alloy	external	พ150	258	2.8	1.6	MCPBOF16M	3/4"	3'			ich addition air, adds 1			its weig
100	vice depth: Housing	full oce: Driving position	Outer		Weight in air(KG)	Weight in water(KG)	Connector	Oil tube dia	Oil tube bending outer dia			Weight change			
i Alu	minum alloy	built in	ø150	295	2.8	1.7	РВОГ6М	3/4"	3"	for oil t	ube, ea	ich addition air, adds 4	nal tm i 6g in w	ncrease ater	Its weig
2 Alu	uminum alloy	built in	ø150	295	2.8	1.7	PBOF8M	3/4"	3"	for oil t	ube, ea	ch additionair, adds 6	nal 1mi	ncrease	its weig
3 Alu	minum alloy	external	ø150	258	2.7	1.5	PBOF8M	3/4"	3'	for oil t adds 3	ube, ea 353g in a	ch additionair, adds 6	nal 1m i 8g in w	ncrease ater	
4 Tita	anium alloy	built in	ø150	295	3.1	2.1	PBOF6M	3/4"	3,	adds 3	31g in a	ch additionair, adds 4	6g in w	ater	
5 Tita	anium alloy	built in	ø150	295	3.1	2.1	PBOF8M	3/4"	3"	adds 3	353g in a	ich addition air, adds 6	8g in w	ater	
Tita	anium alloy	external	ø150	258	2.9	1.7	PBOF8M	3/4"	31			ch additionair, adds 6			its weig

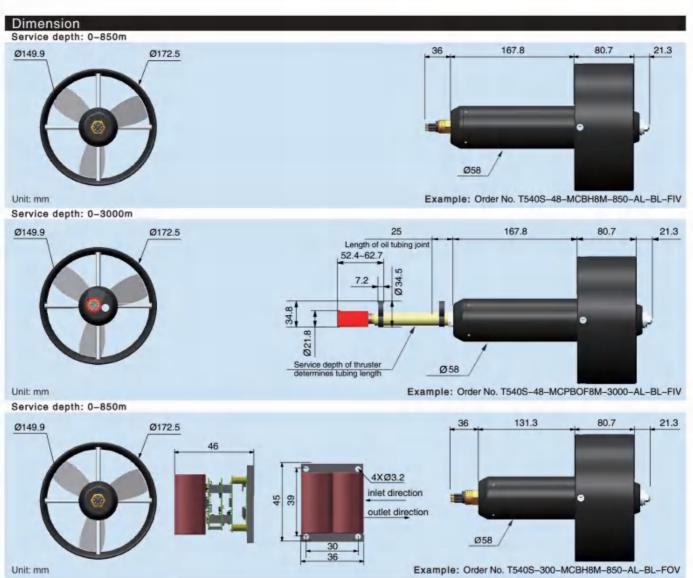


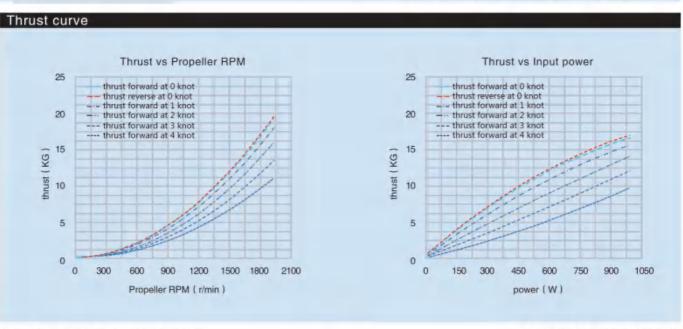


T540S thruster

Technical paramete	'S							
1 Rated power	980W							
2 Rated voltage	48VDC 60VD0	C 72VDC	100VDC:	120VDC	160VDC	200VDC	250VDC	300VDC
3 Max RPM	1900r/min							
4 Thrust	thrust forward 19 KG	5 thrust reverse	19 KG					
5 Nozzle	black							
6 Propeller handing	left O right	C						
7 Material of propeller	stainless steel							
8 Housing	Aluminum alloy	Titanium alloy						
9 Seal	leakless, magneticall	ly coupled						
10 Depth rating	0-850m 0-150	00m 0-3000m	0-6000m	full ocean de	oth	service depth >	1500m, oil filled	seal
11 Signal power	supply voltage is 12\	VDC(±5%),≤250mA						
12 Control mode	analog voltage contri	oi (0V~+5V forward, (V5V reverse	()		CAN		
13 RPM feedback	pulse feedback	analog voltage feedb	ack C	AN				
14 Temperature	storage temperatur	re: -40-70°C	service temp	rerature: -5-	40°E			
15 Electronics	built in exter	nal						

	cs	built in	ех	1102												
Mechnical p	arame	ters														
Service depth:	0-850m	& 0-1500	m													
tem Housing	ng Driving position		Outer dia(mm)	Length (mm)	Weight in air(KG)	Weight in water(KG)	Connect model	or	Optio	onal vo	ltage(V	DC)	noo.	mon mod		
1 Aluminum allo	y built	in	Ø173	306	2.9	1.7	мсвн6м		200	250	300					
2 Aluminum allo	y built	in	Ø173	306	2.9	1.7	МСВНВМ		48	50	72	100	120	160		
3 Aluminum allo		in	ø173	294	2.9	1.7	MCBHRA	No. According to the Contract of the Contract	200	250	300					
4 Aluminum allo		4000	Ø173	294	2.9	1.7	MCBHRA	BM	48	60	72	100	120	160		
5. Aluminum allo	The second second		ø173	269	2.7	1,6	MCBH8M		200	250	300					
6 Aluminum alio			Ø173	279	2.7	1.6	MCBH12N		100	120	160					
7 Aluminum allo			Ø173	279	2.7	1.6	MCBH16N		48	60	72					
8 Aluminum allo	,		Ø173	257	2.7	1.6	MCBHRA		200	250	300					
9 Aluminum allo			Ø173	265	2.7	1,6	MCBHRA		100	120	160					
10 Aluminum allo			p173 p173	265 306	3.1	1.6	MCBHRA MCBH6M		48 200	250	72 300					
11 Tilanium alloy 12 Titanium alloy			Ø173	306	3.1	2.0	MCBH8M		48	60	72	100	120	160		
13 Titanium alloy			Ø173	294	3.1	2.0	MCBHRA		200	250	300	100	12.0	100		
14 Tilanium alloy			0173	294	3.1	2.0	MCBHRA		48	60	72	100	120	160		
15 Titanium alloy			Ø173	269	2.9	1.8	MCBHBM		200	250	300	100	120	100		
16 Titanium alloy			Ø173	279	2.9	1.8	MCBH12N		100	120	160					
17 Titanium alloy		7.7	ø173	279	2.9	1.8	MCBH16N		48	60	72					
16 Titanium alloy			ø173	257	2.9	1.8	MCBHRA		200	250	300					
19 Titanium alloy			ø173	265	2.9	1.8	MCBHRA		100	120	160					
20 Titanium alloy	Control of the Contro		ø173	265	2.9	1.8	MCBHRA		48	60	72					
Service depth:	the disease		00m						***							
tem Housing	Driving position	Outer dia(mm)	Lerigth (mm)	Weight in air(KG)	Weight in water(KG)	Connector model	Oil tube	Oil lube bending outer dia	Weight change							
Aluminum alloy	built in	ø173	295	3.2	1.9	МСРВОГ6М	3/4"	3"	for oil tube, each additional adds 331g in air, adds 46g					e, its weig		
2 Aluminum alloy	ni Hiya	ø173	295	3.2	1.9	MCPBOF8M	3/4"	3"	for o	oi tube,		itional 1	1m increase, its weigh in water 1m increase, its weigh			
3 Aluminum alloy	external	ø173	258	2.6	1.5	мсрвогем	3/4"	3"	add	s 353g	in air, add	ts 68g in				
Aluminum alloy	external	0173	258	2.6	1.5	MCPBOF12M	3/4"	3"	for c	oil tube, is 398g	each add in air, add	titional 1 ds 113g				
5 Aluminum alloy	external	ø173	258	2.6	1.5	MCPBOF16M	3/4"	3"			each add in air, add			se, its weig		
Titanium alloy	built in	ø173	295	3.3	2.1	MCPBOF6M	3/4"	3*			each add n air, add		lm increas n water	se, ils weig		
7 Titanium alloy	built in	ø173.	295	3.3	2.1	MCPBOF8M	3/4"	3*	add	s 353g	in air, add	is 68g ii				
3 Titanium alloy	external	0173	258	3.0	1.9	MCPBOF8M	3/44	3,	add	s 353g i	in air, add	ts 68g ii	n water	se, its weig		
Titanium alloy	external	ø173	258	3.0	1.9	MCPBOF12M	3/4"	3*	add	s 398g i	in air, add	is 113g	in water	se, its weig		
Titanium alloy	external	0173	258	3.0	1.9	MCPBOF16M	3/4"	3,	add	s 443g	each ago In air, ado	is 158g	in water	se, ils weig		
Service depth: Item Housing	full oce Driving position	Outer dia(mm)		Weight in air(KG)	Weight in water(KG)	Connector	Oil tube	Oil tube bending outer dia			Weigh					
Aluminum alloy	built in	ø173	295	3.2	1.9	PBOF6M	3/4"	3"	for o	il tube,	each add	litional 1	m increas	e, its weig		
2 Aluminum alloy	built in	Ø173	295	3.2	1.9	PBOF8M	3/4"	3"	for o	i tube,	n air, add each add in air, add	itional 1	im increas	se, its weig		
3 Aluminum alloy	external	ø173	258	2.6	1,5	PBOF8M	3/4"	3"	for o	oil tube,		fitional 1	m increas	se, its weig		
4 Titanium alloy	built in	ø173	295	3.3	2,1	PBOF6M	3/4"	3"	for o	il tube,	each add n air, add	itional 1	m increas	e, its weig		
5 Titanium alloy	built in	ø173	295	3.3	2.1	PBOF8M	3/4"	3"	for o	il tube,	each add	litional 1	m increas	se, its weig		
									adds 353g in air, adds 68g in water for oil tube, each additional 1 m increase,			and the second				



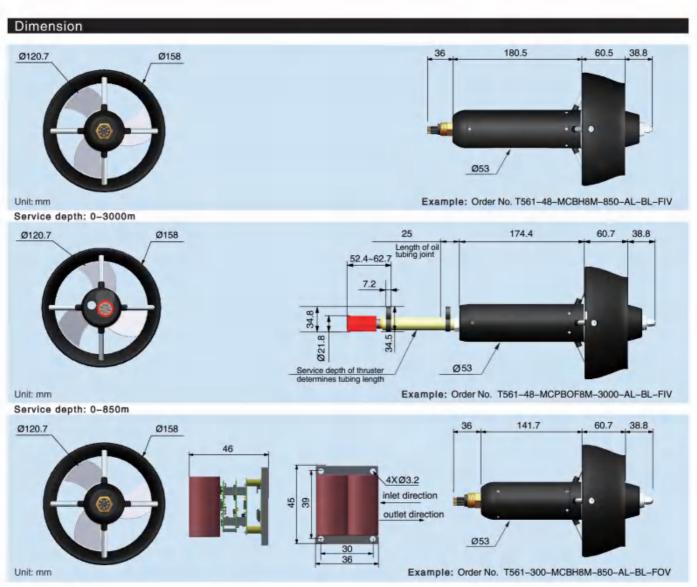


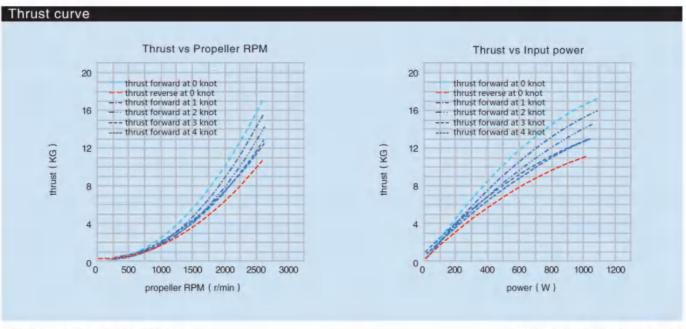
1.1kw

T561 thruster

Technical paramete	rs								
1 Rated power	1.1kw								
2 Rated voltage	48VDC	60VDC	75VDC	90VDC	120VDC	150VDC	200VDC	240VDC	300VDC
3 Max RPM	2600r/min				15.11-5				
4 Thrust	Ihrust forwa	ard 17,3 KG	thrust revers	e 10 KG					
5 Nozzle	black								
6 Propeller handing	left O	right C							
7 Material of propeller	stainless st	eel							
8 Housing	Aluminum a	alloy Titar	lum alloy						
9 Seal	leakless, m	agneically couple	ed						
10 Depth rating	D-850m	0-1500m	0-3000m	0-6000m	full ocean dep	oth	service depth >13	500m, oil filled s	eal
11 Signal power	supply volta	age is 12VDC(±	5%),≤250mA						
12 Control mode	analog volt	age control (0V-	-+5V forward, 0	V-5V reverse			CAN		
13 RPM control	pulse feedt	oack ana	log voltage feed	fback	CAN				
14 Temperature	storage te	mperature: -40	70°C	service temp	erature: -5-4	0.0			
15 Electronics	built in	external							

Mechanical	param	eters												
Service depth:	0-850m	& 0-150)m											
Item Housing	Driv		Outer dia(mm)	and the second second	Weight in air(KG)	Weight in water(KG)	Connec	tor	Option	nal vol	tage(V[(C)	comm	non mod
1 Aluminum alk	y buil	It in	ø158	316	2.3	1.5	MCBH6N	1	200	240	300			
2 Aluminum alk	A Committee of the Comm		ø158	316	2.3	1.5	MCBH8N		-48	60	75	90	120	150
3 Aluminum alk	4	-	ø158	304	2.3	1.5	MCBHRA	M6M	200	240	300			
4 Aluminum alk			ø158	304	2.3	1.5	MCBHRA	MBA	48	60	75	90	120	150
5 Aluminum alk	y exte	rnal	ø158	277	2.2	1.4	MCBH8M	-	200	240	300			
6 Aluminum allo	y exte	mal	w158	287	2.2	1.4	MCBH12	M	90	120	150			
7 Aluminum alk	y exte	rnal	ø158	287	2.2	1.4	MCBH16	M	48	60	75			
8 Aluminum alk	y exte	rnal	Ø158	265	2.2	1.4	MCBHRA	M8M	200	240	300			
9 Aluminum alk		rnal	ø158	274	2.2	1.4	MCBHRA	12M	90	120	150			
10 Aluminum alk	y exte	rnal	Ø158	274	2.2	1.4	MCBHRA	16M	48	60	75			
 Titanium allo 	y buil	It in	ø158	316	2.6	1.7	MCBH6N	ISS	200	240	300			
12 Titanium allo		t in	ø158	316	2.6	1.7	MCBH8N		48	60	75	90	120	150
13 Titanium allo			ø158	304	2.6	1.7	MCBHRA		200	240	300	-	Aco	
14 Titanium allo			ø158	304	26	1,7	MCBHRA	April 1	48	50	75	90	120	150
15 Titanium allo			ø158	277	2.8	1.8	MCBH8N		200	240	300			
16 Titanium allo	A		Ø158	287	2.8	1.8	MCBH12		90	120	150			
17 Titanium allo			Ø158	287	2.8	1.8	MCBH16		48	60	75			
18 Thanlum allo			ø158	265	2.8	1.8	MCBHRA		200	240	300			
19 Titanium allo	4		Ø158	274	2.9	1.9	MCBHRA		90	120	150			
20 Titanium allo	y exte	rnat	ø158	274	29	1.9	MCBHRA	16MSS	48	60	75			
Service depth: Item: Housing	0-3000n Driving	n & 0-60 Outer	00m Length	Weight In	Weight in	Connector	Oil tube	Oil lube bending		W	eight			
	position	dia(mm)	(mm)	air(KG)	water(KG)	model	tila	outer dia		ch	ange			
Aluminum alloy	built in	Ø158	299	2.7	1.8	мсрвог6м	3/4"	3*	adds	for oil tube, each additional 1m increase, its wadds 331g in air, adds 46g in water				
2 Aluminum alloy	built in	p158	299	2.7	1,8	MCPBOF8M	3/4"	3'	adds	363g in	air, adds	68g in v	increase valer increase	-
3 Aluminum alloy	external	Ø158	260	2,6	1.7	MCPBOFBM	3/4"	-3,	adds	353g in	air, adds	68g in v	vater increase	
4 Aluminum alloy	external	Ø158	260	2.6	1.7	MCPBOF12M	3/4"	-3'	adds	398g in	air, adds	113g in		
5 Aluminum alloy	external	Ø158	260	3.3	1.7	MCPBOF6M MCPBOF6M	3/4"	3"	adds	443g in	air, adds	158g in		
5 Titanium alloy	puitt in	Ø158	230	3.0	2.2	MOLDOLOM	-2/4	-			air, adds			Name of Street
7 Titanlum alloy	point in	ø158	299	3.3	2.2	MCPBOF8M	3/4"	3"	adds	353g in	air, adds	68g in v		
8 Titanium alloy	external	ø158.	260	3.2	2.1	МСРВОЕВМ	3/4"	3"	adds	353g in	air, adds	68g in v	rincrease water rincrease	
9 Titanium alloy	external	ø158	260	3.2	2.1	MCPBOF12M	3/4"	3"	adds	398g in	air, adds	113g in		
0 Titanium alloy	external	Ø158	260	3.2	21	MCPBOF16M	3/4"	3"			air, adds			no mo
Service depth: Item Housing	Driving position	Outer dia(mrt	Length (mm)	Weight in air(KG)	Weight in water(KG)	Connector	Oil tube	Oil tube bending outer dia			Weight			
Aluminum alloy	built in	ø158	299	2.7	1.8	PBOF6M	3/4"	3"	adds	331g in	air, adds	46g in v		
Aluminum alloy	built in	ø158	299	2.7	1.8	PBOF8M	3/4*	3*	adds	353g in	air, adds	68g in v		
3 Aluminum alloy	external		260	2.6	1.7	PBOF8M	3/4"	3"	adds	353g in	air, adds	68g in v	increase. valer increase.	
Titanium alloy	built in	Ø158	299	3.3	2.2	PBOF6M	3/4"	3"	adds	331g in	air, adds	46g in v	rincrease, vater increase,	
5 Titanium alloy	built in	Ø158	299	3.3	2.2	PBOF8M	3/4"	3"	adds	353g in	air, adds	68g in v	vater norease	
6 Titanium alloy	external	w158	260	3,3	2.2	PBOF8M	3/4"	3.			air, adds			, as well

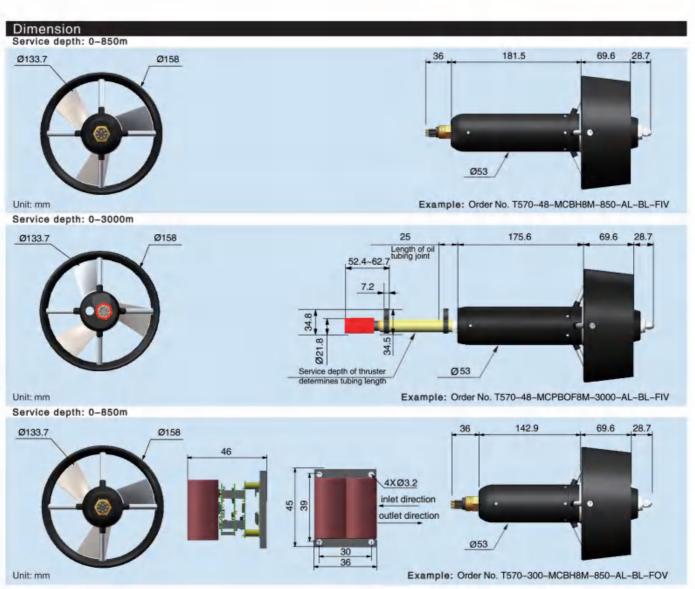


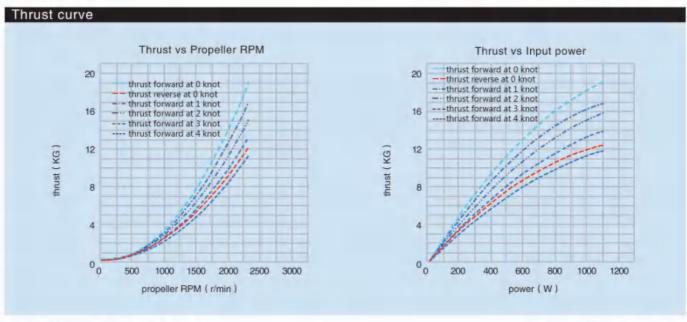


1.1kw

T570 thruster

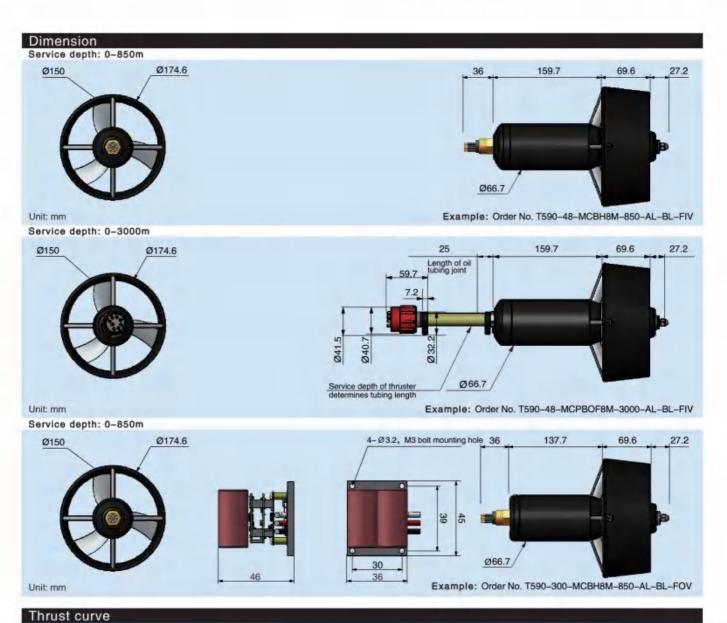
2 Rated vs	aramei ower	1.1kW												
	4	4BVDI		VDC	72VDC	100VDC	120VD(C 160\	/DC	200V	DC	250VD	C .	300VDC
3 Max RPI	М	2300n		. 170	- Amount of the Control of the Contr	- JAPA								
4 Thrust 5 Nozzle		black	forward 19	KG	thrust rever	se 12 KG								
6 Propeller	handing		O right	1 0										
7 Material o			ss steel											
8 Housing		Alumir	num alloy	Titani	um alloy									
9 Seal	The contract of		and the second second second second	ically couple									No.	
10 Depth ra		0-850		-1500m	0–3000m %),≤250mA	0-6000m	full oce	ean depth	8	ervice c	lepth >15	500m, oi	filled se	al
11 Signal p	Transport State Communication					0V-5V reverse	1.			CAN				
13 RPM fee		10.4	feedback		log voltage fer		CAN			-				
14 Tempera	lure	storer	ge temper	ature: -40-	70°C	service ter	nperature	e: -5-40°C						
15 Electron	ics	built in	е е	xtemal										
1echanical	param	ters												
ervice depth:			0m											
m Housing	Drivin			ength 1	Neight in	Weight in	Connec	etor	Optio	nal vo	Itage(V	DC)		
	position		The same of the sa		air(KG)	water(KG)	model	-,					con	nmon mo
1 Aluminum alio	y built	in ø1	58	316	2.3	1.5	MCBH6	M	200	250	300			
2 Aluminum allo		in øt		316	2.3	15	MCBH8	M	48	60	72	100	120	160
3 Aluminum allo				304	2.3	1.5	MCBHR		200	250	300			
4 Aluminum alio				304	2.3	1.5	MCBHR	7.00	46	60	72	100	120	160
6 Aluminum allo		77.		277 287	22	1.4	MCBH1		100	120	160			
7 Aluminum allo				287	2.2	1.4	MCBH1		48	60	72			
8 Aluminum allo				265	22	1.4	MCBHR		200	250	300			
9 Aluminum allo	y extern	nal ø18	58	274	2,2	1.4	MCBHR	A12M	100	120	160			
O Aluminum allo				274	2.2	1.4	MCBHR		48	60	72			
1 Titanium allo	Charles and the Control of the Contr			316	2.6	1.7	MCBH6		200	250	300	100	120	160
2 Titanium allo 3 Titanium allo				316 304	2.6	1.7	MCBH8 MCBHR		200	250	72 300	100	120	1.00
4 Titanium allo	Comment of the commen	Address of the last of the las		304	2.6	1.7	MCBHR		48	60	72	100	120	160
5 Titanium allo				277	2.8	1.8	MCBH8		200	250	300			
6 Titanium allo				287	2.8	1.8	MCBH1		100	120	160			
7 Titanium allo	Annual court of the latest		41.0	287	2.8	1.8	MCBH1	A large decision	48	50	72			
18 Titanium allo 19 Titanium allo				265 274	2.8	1.8	MCBHR	A12MSS	100	250 120	300 160			
20 Titanium allo	All residence in the second second	F 21		274	2.9	1.9	and the same of the same	A16MSS	48	60	72			
service depth:	MCTO-CAPACIO	The state of		TAN	-	- 17		Oil tube	- / -		-			
em Housing	Driving position	Outer dia(mm)	Length	Weight in air(KG)	Weight in water(KG)	Connector model	Oil tube dia	bending outer dia		lght ange				
Aluminum alloy	built in	ø158	299	2.7	1.8	MCPBOF6M	3/4"	3"			ch additi air, adds			, its weigh
Aluminum alloy	built in	ø158	299	2.7	1.8	мсрвогам	3/4"	31	for oil	tube, ea		onal 1m.	increase	, its (veigh
Aluminum alloy	external	ø158	260	2.6	1.7	MCPBOF8M	3/4"	3*	for oil	tube, ea		onal 1m	increase	, its weigh
Aluminum alloy	external	ø158	260	2.6	1.7	MCPBOF12M	3/4"	3*	for oil	tube, ea		onal 1m	increase	, its weigh
Aluminum alloy			260	2.6	1.7	MCPBOF16M	3/4"	3"	for oil	tube, ea	ch additi	onal 1m	increase	, its weigl
		Ø158	299	3.3	2.2	MCPBOF6M	3/4"	31	for oil	tube, ea	air, adds ich additi	onal 1m	inczease	, its weigi
Titanium alloy	built in	ø15B	299	3.3	2.2	MCPBOF8M	3/4"	3"	for oil	tube, ea	air, adds ich additi	onal 1m	increase	, its weig
Titanium alloy			260	3.2	2.1	MCPBOF8M	3/4"	3'	for oil	tube, ea	air, adds ich additi	onal 1m	increase	, its weig
			260	3.2	2.1	MCPBOF12M	3/4"	3'	for oil	lube, ea		onal 1m	increase	, its weig
I itanium allov		Ø15B	260	32	2.1	MCPBOF16M	3/4"	3.	for oil	tube, ea		onal 1m	increase	its weigh
	2012/11/01	2000	778	N.		nast reet tell		A.W.	adds	443g in a	air, adds	158g in 1	vater	
Titanium alloy	full ones	Outer	Length	Weight In	Weight in water(KG)	Connector model	Oil tube dia	Oi tube bending outer dia		Weight change				
Titanium alloy ervice depth:	full oces Driving position	dia(mm)	(mm)	an(VO)			en com	3"		tube, ea	oth antititi	onal fine	increace	, its weigh
Titanium alloy Titanium alloy iervice depth: em Housing Aluminum alloy	Driving	dia(mm) ø158	(mm) 299	2.7	1.8	PBOF6M	3/4"	3	adds:					
Titanium alloy ervice depth: em. Housing Aluminum alloy	Driving position			10.400	1.8	PBOF8M PBOF8M	3/4"	3.	for oil	331g in a lube, ea	air, adds ich additi	46g in w onal 1m	ater increase	, its weig
Titanium alloy ervice depth: em. Housing Aluminum alloy Aluminum alloy	Driving position built in built in	ø158	299	2.7		The state of the s		-	for oil adds:	331g in a lube, ea 353g in a tube, ea	air, adds ich additi air, adds ich additi	46g in w onal 1m 68g in w onal 1m	ater increase ater increase	
Titanium alloy ervice depth: em Housing	Driving position built in built in	ø158 ø158	299 299	2.7	1.8	PBOF8M	3/4"	3*	for oil adds: for oil adds: for oil	331g in a lube, ea 353g in a tube, ea 353g in a	air, adds ich additi air, adds ich additi air, adds ich additi	46g in w onal 1m 68g in w onal 1m 68g in w onal 1m	ater increase ater increase ater increase	, its weigh , its weigh , its weigh
Titanium alloy ervice depth: em Housing Aluminum alloy Aluminum alloy Aluminum alloy	Driving position built in built in external built in	ø158 ø158 ø158	299 299 260	2.7 2.7 2.6	1.8	PBOF8M PBOF8M	3/4" 3/4"	3"	for oil adds: for oil adds: for oil adds: for oil	331g in a lube, ea 353g in a lube, ea 353g in a lube, ea 331g in a lube, ea	air, adds ach additi air, adds ach additi air, adds ach additi air, adds	46g in woonal 1m 68g in woonal 1m 68g in woonal 1m 46g in woonal 1m 46g in woonal 1m	ater increase ater increase ater increase ater increase	, its weig



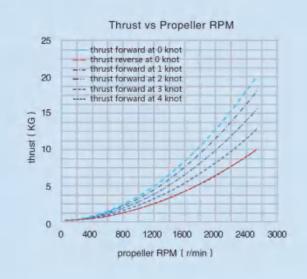


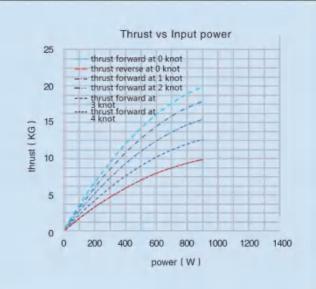
T590 thruster

1 Rated po 2 Rated vo		ers 900W												
		48VDC	pa and	VDC	75VDC	90VDC	120VDC	150VI	00	200VE	ne .	240VD		DOVDG
3 Max RPN	10	2600r/n		VEALS	/HYLIC	BUADO	120100	1500 VI	30	2000	A.	240413		MAYEL
4 Thrust			orward 20	KG	thrust reverse	TOKG								
5 Nozzle		black												
6 Propeller	hariding	left C) right	0										
7 Material of	propeller	stainles												
8 Housing		Alumino			m alloy									
9 Seal	Maria			ally coupled		0.0000-	Add annual of	der with	-		daniel de	-	7 011 - 4 - 4	at.
10 Depth rat			0-850m 0-15 supply voltage is 12		0-3000m	0-6000m	full ocean	depth	S	ervice	depth > 18	buum, o	ii filled se	al
12 Control n						/5V reverse)				CAN				
13 RPM feet			edback		g voltage feedl		V							
14 Temperal	ture			ature: -40~		ervice tempe	rature: -5	-40°C						
15 Electroni	os	built in	exte	mai										
Mechanical	param	eters												
Service depth:			m											
tem Housing	Drivin			ength	Weight in	Weight in	Connecto	r	Option	al voli	age(VD	C)		
ioni theophila	positio	-			air(KG)	water(KG)	model				44.10		cornn	non mo
t Aluminum alloy	y built	in Ø174	4.6	292.5	2.8	2.1	MCBH6M		200	240	300			
2 Aluminum alloy				292.5	2.8	21	MCBH8M		48	60	75	90	120	150
3 Aluminum alloy				280.5	2.8	2.1	MCBHRA6		200	240	300		-	and a second
4 Aluminum alloy				280.5	2.8	21	MCBHRA8	M	-IB	60	75	90	120	150
5 Aluminum alloy		200000000000000000000000000000000000000		271.5	2.7	2.0	MCBH8M		200	240	300			
5 Aluminum alloy			-	280.5 280.5	2.7	2.0	MCBH12M MCBH16M		90	120	150 75			
 Aluminum alloy Aluminum alloy 		-		259.5	2.7	2.0	MCBHRA8	M	200	240	300			
9 Aluminum alioy		-		267.5	2.7	2.0	MCBHRA1		90	120	150			
1.D. Aluminum alloy	The second second			267.5	2.7	2.0	MCBHRAT		48	60	75			
11 Titanium alloy		in Ø174	4.6	292.5	3.1	2.4	MCBH6MS		200	240	300			
12 Titanium alloy	lind,	in 1917	1.6	292.5	3.1	2.4	MCBH8MS	S	46	60	75	90	120	150
13 Titanium alloy				280,5	3.1	2.4	MCBHRA6		200	240	300			
14 Titanium alloy			-	280.5	3.1	24	MCBHRA8		48	60	75	90	120	150
15 Titanium alloy	the second second	And in case of the last of the		271.5 280.5	3.0	2.3	MCBH8MS MCBH12M		200 90	120	300 150			
16 Titanium alloy 17 Titanium alloy			4.77	280.5	3.0	2.3	MCBH12M	7.5-7	48	60	75			
16 Titanium alloy		icei		259.5	3.0	2.3	MCBHRAB		200	240	300			
19 Titanium alloy	now a local	appear of the		267.5	3.0	2.3	MCBHRA1		90	120	150			
20 Titanium alloy		The state of		267.5	3.0	2.3	MCBHRA1		48	60	75			
Service depth:	0-30000	8 0-600	00m					Oil tube.						
tem Housing	Driving	Outer	Length	Weight in	Committee of the Commit	Connector	Oil tube	bending			eight			
	position	dia(mm)	(mm)	air(KG)	water(KG)	model	dia	buter dia	Van de		ange		fall and	Sec. 11161
Aluminum alloy	built in	ø174.6	281,5	3.2	2.4	MCPBOF6M	3/4"	3"	adds	331a in	ach addit air, adds	46a in v	i increase vater	, its wei
Aluminum alloy	buill in	p174.6	281.5	3.2	2.4	MCPBOF8M	3/4*	3"			ach addil			, its wei
A CHAIRMAN CONTRACTOR	Dunt in	DITT-10	201.0	4.4	2.4	MOLDOLDM	4.4	-	104-100		air, adds	-		
Aluminum alloy	external	ø174.6	257.5	3.1	2.3	MCPBOF8M	3/4"	3"	for oil	Jube, e 353a in	ach addit air, adds	ional 1m	rincrease	, its wei
	in the second		0000 m	W. W.	an	HOODOCHNIA	600	-	for oil	tube, e	ach addit	ional Im	increase	its wei
A Decidence of the last	external	ø174.6	257.5	3.1	2.3	MCPBOF12M	3/4"	3"	adds	398g in	air, adds	113g in	water	105313
Aluminum alloy									ards 398g in air, adds 113g in water for oil tube, each additional 1m increase, its				increase	, its wei
12	external	ø174.6	257.5	3.1	2.3	MCPBOF16M	3/4*	3"	for of	lube, e	ach addit	1EO-	water	
	external		257.5	3.1	2.3				for oil adds	443g in	air, adds	158g In	inner	ile
Aluminum alloy	external built in	ø174.6 ø174.6	257.5 281.5	3.1	2.3	MCPBOF16M MCPBOF6M	3/4"	3" 3"	for oil adds for oil	443g in tube, e	ach addit air, adds ach addit air, adds	158g in ional 1m	increase valer	i, its wei
Aluminum alloy Titanium alloy	built in	ø174.6	281.5	3.5	2.7	MCPBOF6M	3/4"	9"	for oil adds for oil adds for oil	443g in tube, e 331g in tube, e	air, adds ach addit air, adds ach addit	158g in ional 1m 46g in v ional 1m	vater increase	
Aluminum alloy Titanium alloy									for oil adds for oil adds for oil adds	443g in tube, e 331g in tube, e 353g in	air, adds ach addit air, adds ach addit air, adds	i 158g in ional 1m : 46g in v ional 1m : 68g in v	vater increase vater	, its we
Aluminum alloy Titanium alloy Titanium alloy	built in	ø174.6	281.5	3.5	2.7	MCPBOF6M	3/4"	9"	for oil adds for oil adds for oil adds	443g in tube, e 331g in tube, e 353g in tube, e	air, adds ach addit air, adds ach addit air, adds ach addit	ional 1m ional 1m 46g in v ional 1m 68g in v ional 1m	vater increase vater increase	, its we
Aluminum alloy Titanium alloy Titanium alloy Titanium alloy	built in built in external	Ø174.6 Ø174.6 Ø174.6	281.5 281.5 257.5	3.5 3.5 3.4	2.7 2.7 2.6	MCPBOF6M MCPBOF8M MCPBOF8M	3/4" 3/4" 3/4"	3" 3"	for oil adds for oil adds for oil adds for oil adds for oil	443g in tube, e 331g in tube, e 353g in tube, e 353g in tube, e	air, adds ach addit air, adds ach addit air, adds ach addit ach addit	5 158g in ional 1m 5 46g in v ional 1m 5 68g in v ional 1m ional 1m	vater increase vater increase vater increase	, its wei
5 Aluminum alloy 5 Titanium alloy 7 Titanium alloy 3 Titanium alloy	built in built in	ø174.6 ø174.6	281.5 281.5	3.5 3.5	2.7	MCPBOF6M MCPBOF8M	3/4" 3/4" 3/4"	9"	for oil adds for oil adds for oil adds for oil adds for oil adds	443g in tube, e 331g in tube, e 353g in tube, e 353g in tube, e 398g in	air, adds ach addit air, adds ach addit air, adds ach addit air, adds ach addit air, adds	5 158g in ional 1m 5 46g in v ional 1m 6 68g in v ional 1m 5 68g in v ional 1m 5 113g in	vater increase vater increase vater increase water water	a, its wei a, its wei a, its wei
Aluminum alloy Titanium alloy Titanium alloy Titanium alloy Titanium alloy	built in built in external	Ø174.6 Ø174.6 Ø174.6	281.5 281.5 257.5	3.5 3.5 3.4	2.7 2.7 2.6	MCPBOF6M MCPBOF8M MCPBOF8M	3/4" 3/4" 3/4" 3/4"	3" 3"	for oil adds for oil adds for oil adds for oil adds for oil adds	443g in tube, e 331g in tube, e 353g in tube, e 359g in tube, e 398g in tube, e	air, adds ach addit air, adds ach addit air, adds ach addit air, adds ach addit air, adds	tonal 1m 46g in v 68g in v 68g in v ional 1m 68g in v ional 1m 113g in ional 1m	vater increase vater increase vater increase water increase water	a, its wei a, its wei a, its wei
5 Aluminum alloy 5 Titanium alloy 7 Titanium alloy 8 Titanium alloy 9 Titanium alloy 0 Titanium alloy	built in built in external external	Ø174.6 Ø174.6 Ø174.6 Ø174.6	281.5 281.5 257.5 257.5	3.5 3.5 3.4 3.4	2.7 2.7 2.6 2.6	MCPBOF6M MCPBOF8M MCPBOF12M	3/4" 3/4" 3/4" 3/4"	3, 3, 3,	for oil adds for oil adds for oil adds for oil adds for oil adds	443g in tube, e 331g in tube, e 353g in tube, e 359g in tube, e 398g in tube, e	air, adds ach addit air, adds ach addit air, adds ach addit air, adds ach addit air, adds	tonal 1m 46g in v 68g in v 68g in v ional 1m 68g in v ional 1m 113g in ional 1m	vater increase vater increase vater increase water increase water	a, its wei a, its Wei a, its Wei
Aluminum alloy Titanium alloy Service depth:	built in built in external external external full ocea	Ø174.6 Ø174.6 Ø174.6 Ø174.6 Ø174.6 n depth	281.5 281.5 257.5 257.5 257.5	3.5 3.5 3.4 3.4 3.4	2.7 2.7 2.6 2.6 2.6	MCPBOF6M MCPBOF8M MCPBOF12M MCPBOF16M	3/4" 3/4" 3/4" 3/4" 3/4"	9" 3" 3" 3" Oli tube	for oil adds for oil adds for oil adds for oil adds for oil adds	443g in tube, e 331g in tube, e 353g in tube, e 359g in tube, e 398g in tube, e	air, adds ach addit air, adds ach addit air, adds ach addit air, adds ach addit air, adds ach addit air, adds	t 158g in vional 1m; 46g in vional 1m; 68g in vional 1m; 68g in vional 1m; 113g in ional 1m; 158g in vional 1m; 158g in	vater increase vater increase vater increase water increase water	a, its wei a, its Wei a, its Wei
Aluminum alloy Titanium alloy Service depth:	built in built in external external external full ocea Driving	Ø174.6 Ø174.6 Ø174.6 Ø174.6 Ø174.6 n depth Outer	281.5 281.5 257.5 257.5 257.5 Length	3.5 3.5 3.4 3.4 3.4 Weight in	2.7 2.6 2.6 2.6 2.6	MCPBOF6M MCPBOF8M MCPBOF12M MCPBOF16M Connector	3/4" 3/4" 3/4" 3/4" Oil tube	g" g" g" g" g" g"	for oil adds for oil adds for oil adds for oil adds for oil adds	443g in tube, e 331g in tube, e 353g in tube, e 359g in tube, e 398g in tube, e	air, adds ach addit air, adds ach addit air, adds ach addit air, adds ach addit air, adds ach addit air, adds	t 158g in victoral 1 m s 46g in victoral 1 m s 68g in victoral 1 m s 68g in victoral 1 m s 113g in victoral 1 m s 158g in victoral 1 m s 1	vater increase vater increase vater increase water increase water	a, its wei a, its Wei a, its Wei
Aluminum alloy Titanium alloy Titanium alloy Titanium alloy Titanium alloy Titanium alloy Titanium alloy Service depth:	built in built in external external full ocea Driving position	ø174.6 ø174.6 ø174.6 ø174.6 ø174.6 n depth Outer dia(mim)	281.5 281.5 257.5 257.5 257.5 Length (mm)	3.5 3.5 3.4 3.4 3.4 Weight in air(KG)	2.7 2.6 2.6 2.6 2.6 Weight in water(KG)	MCPBOF6M MCPBOF8M MCPBOF12M MCPBOF18M Connector model	3/4" 3/4" 3/4" 3/4" Oil tube dia	9" 3" 3" 3" Oil tube bending outer dia	for oil adds for oil adds for oil adds for oil adds for oil adds for oil adds	443g in tube, e 331g in tube, e 353g in tube, e 359g in tube, e 443g in	air, adds ach addir air, adds	t 158g in vional 1 m : 46g in vional 1 m : 68g in vional 1 m : 68g in vional 1 m : 113g in vional 1 m : 158g in vi	vater increase vater increase vater increase water increase water increase	a, its wei a, its wei a, its wei a, its wei
Aluminum alloy Titanium alloy Titanium alloy Titanium alloy Titanium alloy Titanium alloy Titanium alloy Service depth:	built in built in external external external full ocea Driving	Ø174.6 Ø174.6 Ø174.6 Ø174.6 Ø174.6 n depth Outer	281.5 281.5 257.5 257.5 257.5 Length	3.5 3.5 3.4 3.4 3.4 Weight in air(KG)	2.7 2.6 2.6 2.6 2.6	MCPBOF6M MCPBOF8M MCPBOF12M MCPBOF16M Connector	3/4" 3/4" 3/4" 3/4" Oil tube	g" g" g" g" g" g"	for oil adds	443g in tube, e 331g in tube, e 353g in tube, e 398g in tube, e 443g in tube, e 331g in	air, adds ach addir air, adds	t 158g in vicenal 1 m 46g in vicenal 1 m 68g in vicenal 1 m 113g in vicenal 1 m 158g in vicenal 1 m 158g in vicenal 1 m 158g in vicenal 1 m 146g in vicenal 1 m 146g in vicenal 1 m 158g i	vater Increase vater increase water increase water increase water	a, its wei
Aluminum alloy Titanium alloy Aluminum alloy Aluminum alloy	built in built in external external full ocea Driving position	ø174.6 ø174.6 ø174.6 ø174.6 ø174.6 n depth Outer dia(min) ø174.6	281.5 281.5 257.5 257.5 257.5 Length (mm)	3.5 3.5 3.4 3.4 3.4 Weight in air(KG)	2.7 2.6 2.6 2.6 2.6 Weight in water(KG)	MCPBOF6M MCPBOF8M MCPBOF12M MCPBOF18M Connector model	3/4" 3/4" 3/4" 3/4" Oil tube dia	9" 3" 3" 3" Oil tube bending outer dia	for oil adds	443g in tube, e 331g in tube, e 353g in tube, e 398g in tube, e 443g in tube, e 331g in tube, e	air, adds ach addin air, adds ach addir air, adds ar, adds air, adds air, adds	to 158g in vicenal 1 m s 48g in vicenal 1 m s 68g in vicenal 1 m s 113g in vicenal 1 m s 158g in vicenal 1 m s 158g in vicenal 1 m s 46g in vicenal 1 m s 158g in vicenal 1 m s 158	vater Increase vater increase vater increase water increase water increase vater increase vater increase increase	a, its wei
Aluminum alloy Titanium alloy Titanium alloy Titanium alloy Titanium alloy Titanium alloy Titanium alloy Service depth: tem Housing Aluminum alloy	built in built in external external external full ocea Driving position built in	ø174.6 ø174.6 ø174.6 ø174.6 ø174.6 n depth Outer dia(min) ø174.6 ø174.6	281.5 281.5 257.5 257.5 257.5 Length (mm) 281.5	3.5 3.4 3.4 3.4 Weight in air(KG) 3.2	2.7 2.6 2.6 2.6 2.6 Weight in water (KG) 2.4	MCPBOF6M MCPBOF8M MCPBOF12M MCPBOF16M Connector model PBOF6M PBOF6M	3/4" 3/4" 3/4" 3/4" Oil tube dia 3/4" 3/4"	g" g	for oil adds	443g in tube, e 331g in tube, e 353g in tube, e 398g in tube, e 331g in tube, e 3443g in tube, e 344g in tube, e 344g in tube, e 344g in tube, e 344g in tube, e 34	air, adds ach addit air, adds	to 158g in vice at 158g in vic	valer Increase vater Increase vater Increase water Increase vater Increase	o, its wei
Aluminum alloy Titanium alloy Titanium alloy Titanium alloy Titanium alloy Titanium alloy Titanium alloy Service depth: tem Housing Aluminum alloy	built in built in external external external full ocea Driving position built in	ø174.6 ø174.6 ø174.6 ø174.6 ø174.6 n depth Outer dia(min) ø174.6	281.5 281.5 257.5 257.5 257.5 Length (mm) 281.5	3.5 3.4 3.4 3.4 Weight in air(KG) 3.2	2.7 2.6 2.6 2.6 2.6 Weight in water(KG)	MCPBOF6M MCPBOF8M MCPBOF12M MCPBOF16M Connector model PBOF6M	3/4" 3/4" 3/4" 3/4" Oil tube dia 3/4"	g" g	for oil adds	443g in tube, e 331g in tube, e 353g in tube, e 398g in tube, e 331g in tube, e 331g in tube, e 331g in tube, e 353g in tube, e 3553g i	air, adds ach addit air, adds ar, adds	to 158g in vice at 158g in vice at 158g in vice at 158g in vice at 113g in vice at 158g in vic	valer Increase vater Increase vater Increase water Increase water Increase vater Increase vater Increase vater Increase vater Increase vater Increase vater	a, its wei b, its wei b, its wei c, its wei c, its wei
Aluminum alloy Titanium alloy Titanium alloy Titanium alloy Titanium alloy Titanium alloy Titanium alloy Aluminum alloy Aluminum alloy Aluminum alloy	built in built in external external external full ocea Driving position built in	ø174.6 ø174.6 ø174.6 ø174.6 ø174.6 n depth Outer dia(min) ø174.6 ø174.6	281.5 281.5 257.5 257.5 257.5 Length (mm) 281.5	3.5 3.5 3.4 3.4 3.4 Weight in air(KG) 3.2 3.2	2.7 2.6 2.6 2.6 2.6 Weight in water (KG) 2.4	MCPBOF6M MCPBOF8M MCPBOF12M MCPBOF16M Connector model PBOF6M PBOF6M	3/4" 3/4" 3/4" 3/4" Oil tube dia 3/4" 3/4"	g" g	for oil adds	443g in tube, e a 353g in tube, e a 353g in tube, e a 398g in tube, e a 331g in tube, e a 331g in tube, e a 331g in tube, e a 353g in tube, e a 398g in tube	air, adds ach ardiii air, adds ach addii air, adds	a 158g in vional 1 m; 46g in vional 1 m; 158g in vional 1 m; 158g in vional 1 m; 46g in vional 1 m; 46g in vional 1 m; 68g in vional 1 m; 68g in vional 1 m; 68g in vional 1 m; 113g in vi	valer Increase vater Increase vater Increase water Increase water Increase vater	i, its wei
Aluminum alloy Titanium alloy Aluminum alloy Aluminum alloy Aluminum alloy	built in built in external external full ocea Driving position built in external external	ø174.6 ø174.6 ø174.6 ø174.6 ø174.6 n depth Outer dia(mm) ø174.6 ø174.6	281.5 281.5 257.5 257.5 257.5 Length (mm) 281.5 257.5 257.5	3.5 3.4 3.4 3.4 Weight ir air(KG) 3.2 3.2 3.1 3.1	2.7 2.6 2.6 2.6 2.6 2.6 2.4 2.4 2.4 2.3 2.3	MCPBOF6M MCPBOF8M MCPBOF12M MCPBOF16M Connector model PBOF6M PBOF6M PBOF8M PBOF8M PBOF12M	3/4" 3/4" 3/4" 3/4" Oil tube dia 3/4" 3/4" 3/4"	g" g	for oil adds	443g in tube, e a 353g in tube, e a 353g in tube, e a 353g in tube, e a 331g in tube, e a 331g in tube, e a 331g in tube, e a 353g in tube, e a 353g in tube, e a 353g in tube, e a a 358g in tube, e a a a a a a a a a a a a a a a a a a	air, adds ach addir air, adds air, adds ach addir air, adds	to 158g in victorial 1 ms a 46g in victorial 1 ms a 68g in victorial 1 ms a 113g in victorial 1 ms a 158g in victorial 1	valer increase vater increase vater increase water increase water increase vater increase	i, its wei
Aluminum alloy Titanium alloy Titanium alloy Titanium alloy Titanium alloy Titanium alloy Service depth: Iem Housing Aluminum alloy Aluminum alloy Aluminum alloy Aluminum alloy Titanium alloy	built in built in external external full ocea Driving position built in external external external built in	ø174.6 ø174.6 ø174.6 ø174.6 ø174.6 n depth Outer dia(min) ø174.6 ø174.6 ø174.6	281.5 281.5 257.5 257.5 257.5 Length (mm) 281.5 257.5 257.5 257.5 257.5 281.5	3.5 3.5 3.4 3.4 3.4 Weight in air(KG) 3.2 3.1 3.1 3.5	2.7 2.6 2.6 2.6 2.6 2.6 2.4 2.4 2.3 2.3 2.7	MCPBOF6M MCPBOF8M MCPBOF12M MCPBOF16M Connector model PBOF6M PBOF8M PBOF8M PBOF12M PBOF6M	3/4" 3/4" 3/4" 3/4" Oil tube dia 3/4" 3/4" 3/4" 3/4"	g" g	for oil adds	443g in tube, e a 353g in tube, e a 353g in tube, e a 353g in tube, e a 331g in tube, e a 353g in tube, e a 355g in tube	air, adds ach additi air, adds ar, adds ar, adds ar, adds ar, adds ar, adds	to 158g in victorial 1 mr. 68g in victorial 1 mr. 68g in victorial 1 mr. 113g in victorial 1 mr. 158g in victorial 1 mr. 68g in victorial 1 mr. 113g in victorial 1 mr. 1 m	valer increase vater increase vater increase water increase vater	ts wei
Aluminum alloy Titanium alloy Titanium alloy Titanium alloy Titanium alloy Titanium alloy Service depth: Iem Housing Aluminum alloy Aluminum alloy Aluminum alloy Aluminum alloy Titanium alloy	built in built in external external full ocea Driving position built in external external	ø174.6 ø174.6 ø174.6 ø174.6 ø174.6 n depth Outer dia(mm) ø174.6 ø174.6	281.5 281.5 257.5 257.5 257.5 Length (mm) 281.5 257.5 257.5	3.5 3.5 3.4 3.4 3.4 Weight in air(KG) 3.2 3.1 3.1 3.5	2.7 2.6 2.6 2.6 2.6 2.6 2.4 2.4 2.4 2.3 2.3	MCPBOF6M MCPBOF8M MCPBOF12M MCPBOF16M Connector model PBOF6M PBOF6M PBOF8M PBOF8M PBOF12M	3/4" 3/4" 3/4" 3/4" Oil tube dia 3/4" 3/4" 3/4"	g" g	for oil adds	443g in tube, a 353g in tube, a 353g in tube, a 443g in tube, a 353g in tube, a 443g in tube,	air, adds ach addit air, adds	a 158g in ional 1 ms 46g in vional 1 ms 68g in vional 1 ms 1 m	valer increase vater increase vater increase water increase vater	ts wei
Aluminum alloy Titanium alloy Titanium alloy Titanium alloy Titanium alloy Titanium alloy Service depth: tem Housing Aluminum alloy Aluminum alloy Aluminum alloy Aluminum alloy Titanium alloy Titanium alloy	built in built in external external full ocea Driving position built in external external external built in	ø174.6 ø174.6 ø174.6 ø174.6 ø174.6 n depth Outer dia(min) ø174.6 ø174.6 ø174.6	281.5 281.5 257.5 257.5 257.5 Length (mm) 281.5 257.5 257.5 257.5 257.5 281.5	3.5 3.5 3.4 3.4 3.4 Weight in air(KG) 3.2 3.2 3.1 3.5 3.5	2.7 2.6 2.6 2.6 2.6 2.6 2.4 2.4 2.3 2.3 2.7	MCPBOF6M MCPBOF8M MCPBOF12M MCPBOF16M Connector model PBOF6M PBOF8M PBOF8M PBOF12M PBOF6M	3/4" 3/4" 3/4" 3/4" Oil tube dia 3/4" 3/4" 3/4" 3/4"	g" g	for oil adds	443g in tube, e a 353g in tube, e a 335g in tube, e a 353g in tube	air, adds ach addir air, adds ar, adds ar, adds ar, adds ach addir air, adds	a 158g in ional 1 m s 48g in v ional 1 m s 158g in v ional 1 m s 1	valer increase vater increase vater increase water increase vater increase	ts wei









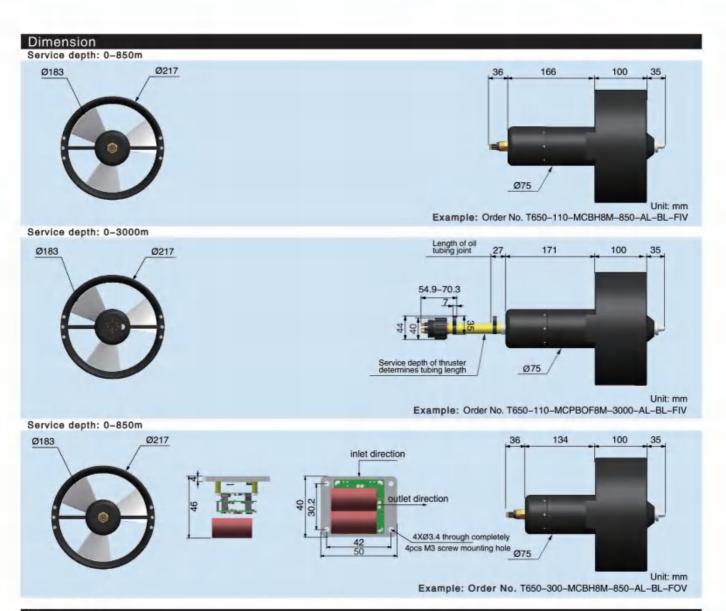
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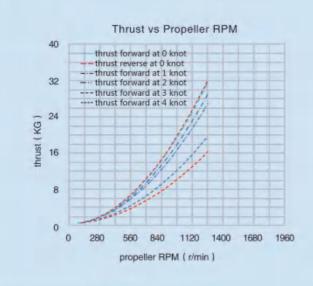
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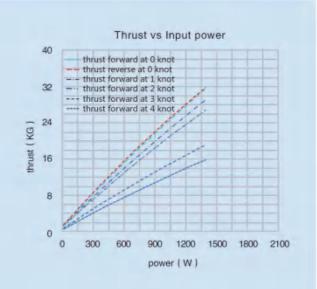
11 Titanium alloy 12 Titanium alloy 13 Titanium alloy 14 Titanium alloy 15 Titanium alloy 16 Titanium alloy Service depth: 0-3 Item Housing Dri	B50m & 0- Driving position built in built in built in built in external external external built in built in built in external external external external external external external	-1500m Out	ter (mm) 17 17 17 17 17 17 17 17 17 17 17 17 17		Weight in air(KG) 5.3 5.4 5.4 5.0 5.0 5.1 6.1 6.1 6.2 6.2 5.7 5.7 5.8 5.8	Weight in water(KG) 3.8 3.9 3.9 3.5 3.5 3.6 4.5 4.6 4.6 4.2 4.2 4.3 4.3	Connect model MCBH6M MCBHRA MCBHRA MCBH12I MCBHRA MCBHRA MCBHRA MCBHRA MCBHRA MCBHRA MCBHRA MCBHRA MCBHRA	6M 8M 12M SS SS 6MSS 8MSS SS WSS	300 110 300 110 300 110 300 110 300 110 300 110 300	140 140 140 140 140	160 160 160 160 160 160 160	230 230 230 230 230 230 230 230	
terrice depth: 0-8 tem Housing 1 Aluminum alloy 2 Aluminum alloy 3 Aluminum alloy 4 Aluminum alloy 5 Aluminum alloy 6 Aluminum alloy 7 Aluminum alloy 8 Aluminum alloy 9 Titanium alloy 1 Titanium alloy 1 Titanium alloy 2 Titanium alloy 2 Titanium alloy 3 Titanium alloy 4 Titanium alloy 5 Titanium alloy 6 Titanium alloy 6 Titanium alloy 7 Titanium alloy 8 Titanium alloy 9 Titanium alloy	B50m & 0- Driving position built in built in built in built in external external external built in built in built in external external external external external external external	-1500m Out	ter (mm) 17 17 17 17 17 17 17 17 17 17 17 17 17	(mm) 337 337 323 323 323 303 303 313 291 304 337 327 327 323 323 303 313 291	air(KG) 5.3 5.3 5.4 5.4 5.0 5.0 5.1 6.1 6.1 6.2 6.2 5.7 5.7 5.8	water(KG) 3.8 3.8 3.9 3.9 3.5 3.5 3.6 4.5 4.5 4.6 4.8 4.2 4.2 4.3	MCBHRA MCBHRA MCBHRA MCBHRA MCBH12I MCBHRA MCBHRA MCBHRA MCBHRA MCBHRA MCBHRA MCBHRA MCBHRA	6M 8M 12M SS SS 6MSS 8MSS SS WSS	300 110 300 110 300 110 300 110 300 110 300 110 300	140 140 140 140 140 140	160 160 160 160 160 160	230 230 230 230 230 230 230	
1 Aluminum alloy 2 Aluminum alloy 3 Aluminum alloy 4 Aluminum alloy 5 Aluminum alloy 6 Aluminum alloy 7 Aluminum alloy 7 Titanium alloy 10 Titanium alloy 11 Titanium alloy 12 Titanium alloy 13 Titanium alloy 14 Titanium alloy 15 Titanium alloy 16 Titanium alloy 17 Titanium alloy 18 Titanium alloy 19 Titanium alloy 19 Titanium alloy 10 Titanium alloy 10 Titanium alloy 11 Titanium alloy 12 Titanium alloy 13 Titanium alloy 14 Titanium alloy 15 Titanium alloy 16 Titanium alloy 17 Titanium alloy 18 Titanium alloy 19 Titanium alloy 19 Titanium alloy 10 Titanium alloy 10 Titanium alloy 11 Titanium alloy 12 Titanium alloy 13 Titanium alloy 14 Titanium alloy 15 Titanium alloy 16 Titanium alloy 17 Titanium alloy 18 Titanium alloy 19 Titanium alloy	Driving position built in built in built in external external external built in built in built in built in external external external external external external external	Outility dia() dia	ter (mm) 17 17 17 17 17 17 17 17 17 17 17 17 17	(mm) 337 337 323 323 323 303 303 313 291 304 337 327 327 323 323 303 313 291	air(KG) 5.3 5.3 5.4 5.4 5.0 5.0 5.1 6.1 6.1 6.2 6.2 5.7 5.7 5.8	water(KG) 3.8 3.8 3.9 3.9 3.5 3.5 3.6 4.5 4.5 4.6 4.8 4.2 4.2 4.3	MCBHRA MCBHRA MCBHRA MCBHRA MCBH12I MCBHRA MCBHRA MCBHRA MCBHRA MCBHRA MCBHRA MCBHRA MCBHRA	6M 8M 12M SS SS 6MSS 8MSS SS WSS	300 110 300 110 300 110 300 110 300 110 300 110 300	140 140 140 140 140 140	160 160 160 160 160 160	230 230 230 230 230 230 230	
1 Aluminum alloy 2 Aluminum alloy 3 Aluminum alloy 4 Aluminum alloy 5 Aluminum alloy 6 Aluminum alloy 7 Aluminum alloy 7 Titanium alloy 9 Titanium alloy 11 Titanium alloy 12 Titanium alloy 13 Titanium alloy 14 Titanium alloy 15 Titanium alloy 16 Titanium alloy 17 Titanium alloy 18 Titanium alloy 19 Titanium alloy 19 Titanium alloy 10 Titanium alloy 11 Titanium alloy 12 Titanium alloy 13 Titanium alloy 14 Titanium alloy 15 Titanium alloy 16 Titanium alloy 17 Titanium alloy 18 Titanium alloy 19 Titanium alloy 10 Titanium alloy 10 Titanium alloy 11 Titanium alloy 12 Titanium alloy 13 Titanium alloy 14 Titanium alloy 15 Titanium alloy 16 Titanium alloy	position built in built in built in built in external external external built in built in built in built in external external external external external external	dia()	(mm) 17 17 17 17 17 17 17 17 17 17 17 17 17	(mm) 337 337 323 323 323 303 303 313 291 304 337 327 327 323 323 303 313 291	air(KG) 5.3 5.3 5.4 5.4 5.0 5.0 5.1 6.1 6.1 6.2 6.2 5.7 5.7 5.8	water(KG) 3.8 3.8 3.9 3.9 3.5 3.5 3.6 4.5 4.5 4.6 4.8 4.2 4.2 4.3	MCBHRA MCBHRA MCBHRA MCBHRA MCBH12I MCBHRA MCBHRA MCBHRA MCBHRA MCBHRA MCBHRA MCBHRA MCBHRA	6M 8M 12M SS SS 6MSS 8MSS SS WSS	300 110 300 110 300 110 300 110 300 110 300 110 300	140 140 140 140 140 140	160 160 160 160 160 160	230 230 230 230 230 230 230	
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3 Aluminum alloy 4 Aluminum alloy 5 Aluminum alloy 6 Aluminum alloy 7 Aluminum alloy 9 Titanium alloy 10 Titanium alloy 11 Titanium alloy 12 Titanium alloy 13 Titanium alloy 14 Titanium alloy 15 Titanium alloy 16 Titanium alloy 17 Titanium alloy 18 Titanium alloy 19 Titanium alloy 19 Titanium alloy 10 Titanium alloy 11 Titanium alloy 11 Titanium alloy 12 Titanium alloy 13 Titanium alloy 14 Titanium alloy 15 Titanium alloy 16 Titanium alloy 17 Titanium alloy 18 Titanium alloy 19 Titanium alloy 19 Titanium alloy	built in built in external external external built in built in built in built in external external external	921 921 921 921 921 921 921 921 921 921	17 17 17 17 17 17 17 17 17 17 17	323 323 303 313 291 304 337 337 323 323 323 303 313 291	5.4 5.0 5.0 5.1 5.1 6.1 6.1 6.2 6.2 5.7 5.7 5.8	3.9 3.5 3.5 3.6 3.6 4.5 4.5 4.6 4.6 4.2 4.2	MCBHRA MCBH8M MCBH12I MCBHRA MCBHRA MCBH8M MCBHRA MCBHRA MCBHRA MCBHRA MCBHRA MCBHRA	6M 8M 8M 12M 5S 5S 66MSS 8MSS 8S WSS	300 300 110 300 110 300 110 300 110 300 110 300	140 140 140 140 140	160 160 160 160 160	230 230 230 230 230 230	
4 Aluminum alloy 5 Aluminum alloy 6 Aluminum alloy 7 Aluminum alloy 8 Aluminum alloy 9 Titanium alloy 10 Titanium alloy 11 Titanium alloy 12 Titanium alloy 13 Titanium alloy 14 Titanium alloy 15 Titanium alloy 16 Titanium alloy 17 Titanium alloy 18 Titanium alloy 19 Titanium alloy 19 Titanium alloy 10 Titanium alloy 10 Titanium alloy 11 Titanium alloy 12 Titanium alloy 13 Titanium alloy 14 Titanium alloy 15 Titanium alloy 16 Titanium alloy 17 Titanium alloy 18 Titanium alloy 19 Titanium alloy 10 Titanium alloy	built in external external external built in built in built in external external external external external	921 921 921 921 921 921 921 921 921 921	17 17 17 17 17 17 17 17 17 17	323 303 313 291 304 337 337 323 323 323 303 313 291	5.4 5.0 5.0 5.1 5.1 6.1 6.2 6.2 5.7 5.7	3.9 3.5 3.5 3.6 3.6 4.5 4.5 4.6 4.2 4.2 4.2	MCBHRA MCBHRA MCBHRA MCBHRA MCBHRA MCBHRA MCBHRA MCBHRA MCBHRA MCBHRA	8M M 8M 112M SS SS SS 8MSS SS WSS 8MSS	300 110 300 110 300 110 300 110 300 110 300	140 140 140 140 140	160 160 160 160	230 230 230 230 230	0
5 Aluminum alloy 6 Aluminum alloy 7 Aluminum alloy 8 Aluminum alloy 9 Titanium alloy 10 Titanium alloy 11 Titanium alloy 12 Titanium alloy 13 Titanium alloy 14 Titanium alloy 15 Titanium alloy 16 Titanium alloy 17 Titanium alloy 18 Titanium alloy 19 Titanium alloy 19 Titanium alloy 10 Titanium alloy 11 Titanium alloy 12 Titanium alloy 13 Titanium alloy 14 Titanium alloy 15 Titanium alloy 16 Titanium alloy 17 Titanium alloy 18 Titanium alloy 19 Titanium alloy 19 Titanium alloy 10 Titanium alloy	external external external built in built in built in built in external external external external		17 17 17 17 17 17 17 17 17	303 313 291 304 337 337 323 323 323 303 313 291	5.0 5.0 5.1 5.1 6.1 6.2 6.2 5.7 5.7 5.8	3.5 3.5 3.6 3.6 4.5 4.5 4.6 4.6 4.2 4.2	MCBH8M MCBHRA MCBHRA MCBH6M MCBH8M MCBHRA MCBHRA MCBHRA MCBHRA MCBHRA	M 8M 12M SS SS 6MSS 8MSS SS MSS 8MSS	300 110 300 110 300 110 300 110 300 110 300	140 140 140 140 140	160 160 160 160	230 230 230 230 230	0
6 Aluminum alloy 7 Aluminum alloy 8 Aluminum alloy 9 Titanium alloy 10 Titanium alloy 11 Titanium alloy 12 Titanium alloy 13 Titanium alloy 14 Titanium alloy 15 Titanium alloy 16 Titanium alloy 16 Titanium alloy 17 Titanium alloy 18 Titanium alloy 19 Titanium alloy 19 Titanium alloy 10 Titanium alloy 11 Titanium alloy 12 Titanium alloy 13 Titanium alloy 14 Titanium alloy 15 Titanium alloy 16 Titanium alloy 17 Titanium alloy 18 Titanium alloy 19 Titanium alloy 19 Titanium alloy 10 Titanium alloy	external external external built in built in built in external external external external	Ø21 Ø21 Ø21 Ø21 Ø21 Ø21 Ø21 Ø21 Ø21	17 17 17 17 17 17 17 17	313 291 304 337 337 323 323 303 313 291	5.0 5.1 5.1 6.1 6.2 6.2 5.7 5.7 5.8	3.5 3.6 3.6 4.5 4.5 4.6 4.6 4.2 4.2 4.3	MCBH12I MCBHRA MCBH6M MCBH8M MCBHRA MCBHRA MCBHRA MCBH12I MCBHRA	M 8M 12M SS SS 6MSS 8MSS SS MSS 8MSS	110 300 110 300 110 300 110 300 110 300	140 140 140 140	160 160 160 160	230 230 230 230	0
7 Aluminum alloy 8 Aluminum alloy 9 Titanium alloy 10 Titanium alloy 11 Titanium alloy 12 Titanium alloy 13 Titanium alloy 14 Titanium alloy 15 Titanium alloy 16 Titanium alloy 16 Titanium alloy 17 Titanium alloy 18 Titanium alloy 19 Titanium alloy 19 Titanium alloy 10 Titanium alloy 11 Titanium alloy 12 Titanium alloy 13 Titanium alloy 14 Titanium alloy 15 Titanium alloy 16 Titanium alloy 17 Titanium alloy 18 Titanium alloy 19 Titanium alloy 19 Titanium alloy	external external built in built in built in external external external external	Ø21 Ø21 Ø21 Ø21 Ø21 Ø21 Ø21 Ø21	17 17 17 17 17 17 17 17	291 304 337 337 323 323 303 313 291	5.1 5.1 6.1 6.2 6.2 5.7 5.7	3.6 3.6 4.5 4.5 4.6 4.6 4.2 4.2 4.3	MCBHRA MCBH6M MCBH8M MCBHRA MCBHRA MCBHRA MCBH12I MCBHRA	8M 112M SS SS 6MSS 8MSS 8MSS SS WSS	300 110 300 110 300 110 300 110 300	140 140 140 140	160 160 160 160	230 230 230 230	0
8 Aluminum alloy 9 Titanium alloy 10 Titanium alloy 11 Titanium alloy 12 Titanium alloy 13 Titanium alloy 14 Titanium alloy 15 Titanium alloy 16 Titanium alloy 16 Fitanium alloy Service depth: 0-3 tem Housing Dri	external built in built in built in built in external external external	Ø21 Ø21 Ø21 Ø21 Ø21 Ø21 Ø21 Ø21	17 17 17 17 17 17 17	304 337 337 323 323 303 313 291	5.1 6.1 6.2 6.2 5.7 5.7 5.8	3.6 4.5 4.5 4.6 4.6 4.2 4.2 4.3	MCBHRA MCBH8M MCBHRA MCBHRA MCBHRA MCBH12I MCBHRA	12M SS SS 6MSS 8MSS SS VISS 8MSS	110 300 110 300 110 300 110 300	140 140 140	160 160 160	230	0
9 Titanium alloy 10 Titanium alloy 11 Titanium alloy 12 Titanium alloy 13 Titanium alloy 14 Titanium alloy 15 Titanium alloy 16 Titanium alloy Service depth: 0-3 tem Housing Dri	built in built in built in built in external external external	Ø21 Ø21 Ø21 Ø21 Ø21 Ø21 Ø21	17 17 17 17 17 17	337 337 323 323 303 313 291	6.1 6.2 6.2 5.7 5.7 5.8	4.5 4.5 4.6 4.6 4.2 4.2 4.3	MCBH6M MCBHRA MCBHRA MCBH8M MCBH12l MCBHRA	SS SS 6MSS 8MSS SS MSS 8MSS	300 300 110 300 110 300 110 300	140 140 140	160 160 160	230	0
10 Titanium alloy 11 Titanium alloy 12 Titanium alloy 13 Titanium alloy 14 Titanium alloy 15 Titanium alloy 16 Titanium alloy 16 Fitanium alloy Service depth: 0-4 tem Housing Dri	built in built in built in external external external external	Ø21 Ø21 Ø21 Ø21 Ø21 Ø21 Ø21	17 17 17 17 17	337 323 323 303 313 291	6.1 6.2 6.2 5.7 5.7 5.8	4.5 4.6 4.6 4.2 4.2 4.3	MCBHRA MCBHRA MCBHRA MCBHRA MCBHRA	SS 6MSS 8MSS SS MSS 8MSS	300 110 300 110 300 110 300	140	160 160	230	0
11 Titanium alloy 12 Titanium alloy 13 Titanium alloy 14 Titanium alloy 15 Titanium alloy 16 Titanium alloy Service depth: 0-3 tem Housing Dri	built in built in external external external external	921 921 921 921 921 921	17 17 17 17 17	323 323 303 313 291	6.2 6.2 5.7 5.7 5.8	4.6 4.6 4.2 4.2 4.3	MCBHRA MCBHRA MCBHRA MCBHRA	6MSS 8MSS ISS MSS 8MSS	300 110 300 110 300	140	160 160	230	0
12 Titanium alloy 13 Titanium alloy 14 Titanium alloy 15 Titanium alloy 16 Titanium alloy 16 Service depth: 0-3 tem Housing Dri	built in external external external external	Ø21 Ø21 Ø21 Ø21 Ø21	17 17 17 17	323 303 313 291	6.2 5.7 5.7 5.8	4.6 4.2 4.2 4.3	MCBHRA MCBH8M MCBH12I MCBHRA	BMSS SS MSS BMSS	300 110 300	140	160	230	0.
13 Titanlum alloy 14 Titanium alloy 15 Titanium alloy 16 Titanium alloy 16 Titanium alloy Service depth: 0-3 tem. Housing Dri	external external external external	Ø21 Ø21 Ø21 Ø21	17 17 17	303 313 291	5.7 5.7 5.8	4.2 4.2 4.3	MCBH8M MCBH12M MCBHRA	ISS MSS 8MSS	300 110 300	140	160	230	0.
14 Titanium alloy 15 Titanium alloy 16 Titanium alloy Service depth: 0-3	external external external	Ø21 Ø21 Ø21	17	313 291	5.7 5.8	4.2 4.3	MCBH12I MCBHRA	MSS 8MSS	300				
15 Titanium alloy 16 Titanium alloy Service depth: 0-3 Item. Housing Dri	external external	Ø21	17		5.8	4.3	MCBHRA	8MSS	300			230	0
Service depth: 0-3	3000m &		117	304	5.8	4.3	MCBHRA	12MSS	110	140	160	230	0
tem Housing Dri		0 6000											
	-	ter L	Length (mm)	Weight in air(KG)	Weight in water(KG)	Connector model	Oil tube dia	Oil tube bending outer dia		cha	eight angé		
Aluminum alloy but	ilt in Ø2	17 :	331	5.6	4.1	МСРВОР6М	3/4"	3"	adds 3	331g in a	air, adds	46g ir	
Aluminum alloy bu	uilt in ø2	17	331	5.6	4.1	MCPBOFBM	3/4"	3,	adds 3	353g in	air, adds	68g ir	SERVICE SERVIC
	ternal ø2		298	5.3	3.7	MCPBOF8M	3/4"	3,	adds 3	353g in	air, adds	68g in	Im increase, its weigl n water Im increase, its weigl
	ternal ø2		298	5.3	3.7	MCPBOF12M	3/4"	3,	adds 3	398g in	air, adds	113g	in water m increase, its weigh
.,	illt in Ø2		331	6.3	4.8	MCPBOF6M	3/4"	3"	adds3	31g in a	air, adds	46g in	
	uilt in Ø2 ktemal Ø2		298	6.3	4.8	MCPBOF8M MCPBOF8M	3/4"	3"	adds 3	353g in tube, ea	air, adds ach addit	68g ir tional 1	n water I'm increase, its weigi
- Samuel Street CA	Marinal Me		200	910	Trist.		W 1			-	air, adds	_	n water Im increase, its weig
3 Titanium alloy ext	ternal ø2	217	298	6.0	4.3	MCPBOF12M	3/4"	3"					in water
	riving C	Duter	Length (mm)	Weight in air(KG)	Weight in water(KG)	Connector	Oil tube dia	Oil tube bending outer dia			Weight		
Titanium alloy bu	uilt in Ø	217	331	6.3	4.8	PBOF8M	3/4"	3*			ach addit air, adds		m increase, its weigh
Titanium alloy ex		217	298	6.0	4.3	PBOF8M	3/4"	3*	for oil t	tube, ea		ional 1	m increase, its weigh









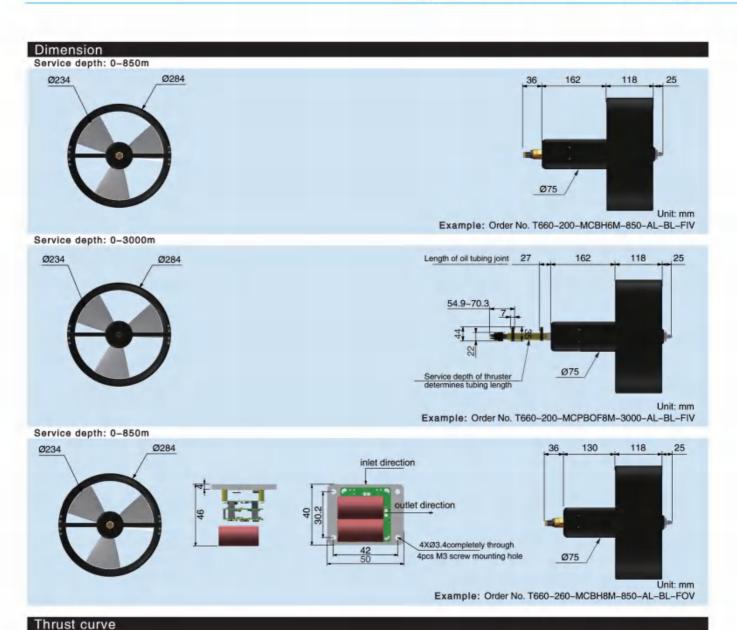


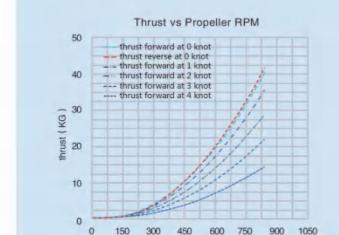
T660 thruster Technical parameters

echnical paramete	ers
1 Rated power	1.4kw
2 Rated voltage	80VDC 100VDC 120VDC 160VDC 200VDC 260VDC 320VDC
3 Max RPM	830r/min
4 Thrust	thrust forward 42 KG thrust reverse 42 KG
5 Nozzle	black
6 Propeller handing	left O right C
7 Material of propeller	stainless steel
8 Housing	Aluminum alloy Titanium alloy
9 Seal	leakless, magneically coupled
10 Depth rating	0-850m 0-1500m 0-3000m 0-6000m full ocean depth service depth >1500m, oil filled seal
11 Signal power	supply voltage is 12VDC ± 5%, ≤ 250mA
12 Control mode	analog voltage control (0V-+5V forward, 0V5V reverse) CAN
13 RPM feedback	pulse feedback analog voltage feedback CAN
14 Temperature	storage temperature: -40-70°C service temperature: -5-40°C
15 Electronics	built in external

Mechanical	param	eters											
Service depth:	0-850m	& 0-1500)m								_		
Item Housing	Driv	ing (Outer tia(mm)		Weight in air(KG)	Weight in water(KG)	Connect	tor	Option	al volt	age(Vi)C)	common mod
1 Aluminum alk	buil	t in	ø284	341	7.8	4.6	MCBH6M		260	320			
2 Aluminum alk	buil	t in	ø284	341	7.8	4.6	MCBH8M		80	100	120	160	200
3 Aluminum alk		t in	ø284	329	7.9	4.7	MCBHRA	6M	260	320			
4 Aluminum alk	buil buil	t in	ø284	329	7.9	4.7	MCBHRA	MB	- 80	100	120	160	200
5 Aluminum alk			ø284	309	7.5	4.3	MCBH8M		260	320			
6 Aluminum alk	9	197941	ø284	309	7.5	4.3	MCBH12		80	100	120	160	200
7 Aluminum alk			ø284	297	7.6	4.4	MCBHRA		260	320			7000
8 Aluminum alk		12270	ø284	305	7.6	4.4	MCBHRA		80	100	120	160	200
9 Titanium allo			ø284	341	9.3	6.1	MCBH6N		260	320	100	186	0.00
0 Titanium allo			Ø284	341	9.3	6.1	MCBH8N	70.0	80	100	120	160	200
1 Titanium allo			ø284	329	9.4	6.2	MCBHRA		260	320	100	100	200
2 Titanium allo			ø284	The second second	9.4	1000	MCBHRA	THE REAL PROPERTY.	260	100	120	160	200
13 Titanium allo			ø284 «284	309 309	9.0	5.8	MCBH8N		80	100	120	160	200
14 Titanium allo 15 Titanium allo			ø284 ø284	297	9.0	5.8 5.9	MCBHRA		260	320	120	100	200
6 Titanium allo	The second second		ø284	305	9.1	5.9	MCBHRA		80	100	120	160	200
Service depth:				Materia	****			Oil tube		164	-to-to-a		
	0-3000n Driving position	0-60 Outer dia(mm)	00m Length (mm)	Weight in air(KG)	Weight in water(KG)	Connector model	Oil tube	bending outer dia	for all	cha	eight ange		
tem Housing	Driving	Outer	Length					bending	adds 3	cha tube, ea 331g in	ange ch addit air, adds	46g in v	vater
tem Housing Aluminum alloy	Driving position	Outer dia(mm)	Length (mm)	air(KG)	water(KG)	model	dia	bending outer dia	for oil adds	cha tube, ea 331g in tube, ea 353g in	ange ich addit air, adds ich addit air, adds	46g in v ional 1m 68g in v	i încrease, îts weigi valer
Aluminum alloy Aluminum alloy	Driving position built in	Outer dia(mm) ø284	Length (mm) 332	air(KG) 8.4	water(KG) 4.7	model MCPBOF6M	dia 3/4*	bending outer dia 3"	for oil adds: for oil adds:	cha tube, ea 331g in tube, ea 353g in tube, ea 353g in	arige ich addit air, adds ich addit air, adds ach addit air, adds	46g in v ional 1m 68g in v ional 1m 68g in v	vater i increase, its weig vater i increase, its weig water
Aluminum alloy Aluminum alloy Aluminum alloy	Driving position built in built in	Outer dia(mm) ø284 ø284	Length (mm) 332 332	8.4 8.4	4.7 4.7	model MCPBOF6M MCPBOF6M	dia 3/4* 3/4*	bending outer dia 3"	for oil adds of for oil adds of for oil adds of	cha tube, ea 331g in tube, ea 353g in tube, ea 353g in tube, ea 398g in	arige ich addit air, adds ich addit air, adds ich addit air, adds ich addit	46g in v ional 1m 68g in v ional 1m 68g in v ional 1m 113g in	vater i increase, its weig vater i increase, its weig water i Increase, its weig water
tem. Housing Aluminum alloy Aluminum alloy Aluminum alloy Aluminum alloy	Driving position built in built in external	Outer dia(mm) Ø284 Ø284 Ø284	Length (mm) 332 332 300	8.4 8.4 8.1	water(KG) 4.7 4.7 4.4	model MCPBOF6M MCPBOF8M MCPBOF8M	dia 3/4* 3/4* 3/4*	bending outer dia 3° 3°	adds (for oil adds (for oil adds (for oil adds (chi tube, ea 331g in tube, ea 353g in tube, ea 398g in tube, ea 331g in a	arige ach addit air, adds ach addit air, adds ach addit air, adds ach addit air, adds	46g in vional 1m 68g in vional 1m 68g in vional 1m 10nal 1m 113g in 146g in v	vater i increase, its weig vater n increase, its weig water i increase, its weig water i increase, its weig water n increase, its weig vater
tem. Housing Aluminum alloy Aluminum alloy Aluminum alloy Aluminum alloy Aluminum alloy	Driving position built in built in external external	Outer dia(mm) ø284 ø284 ø284 ø284 ø284	Length (mm) 332 332 300 300	8.4 8.4 8.1 8.1	water(KG) 4.7 4.7 4.4 4.4	model MCPBOF6M MCPBOF8M MCPBOF12M	dia 3/4* 3/4* 3/4* 3/4*	bending outer dia 3° 3° 3° 3°	adds s for oil adds s	chube, ea 331g in a tube, ea 353g in tube, ea 353g in tube, ea 331g in a tube, ea 353g in	ange ich addit air, adds ich addit air, adds ich addit air, adds ich addit air, adds ich addit air, adds	46g in vional 1m 68g in vional 1m 68g in vional 1m 113g in 113g in 146g in vional 1m 68g in vi	vater i increase, its weig vater vater
tem. Housing Aluminum alloy Aluminum alloy Aluminum alloy Aluminum alloy Aluminum alloy Aluminum alloy	Driving position built in external external built in	Outer dia(mm) Ø284 Ø284 Ø284 Ø284 Ø284 Ø284	Length (mm) 332 332 300 300 332	8.4 8.4 8.1 8.1 9.1	water(KG) 4.7 4.7 4.4 4.4 5.4	model MCPBOF6M MCPBOF8M MCPBOF8M MCPBOF12M MCPBOF6M	dia 3/4* 3/4* 3/4* 3/4* 3/4*	bending outer dia 3° 3° 3° 3° 3°	adds s for oil adds s	chube, ea 331g in it tube, ea 353g in tube, ea 353g in tube, ea 351g in it tube, ea 353g in tube, ea 353g in	ange ich addit air, adds ich addit air, adds ich addit air, adds ich addit air, adds ich addit air, adds ich addit air, adds	46g in vional 1m; 68g in vional 1m; 68g in vional 1m; 113g in vional 1m; 46g in vional 1m; 68g in vion	vater i increase, its weig vater increase, its weig water i increase, its weig water i increase, its weig vater i increase, its weig vater i increase, its weig vater i increase, its weig water i increase, its weig water
tem Housing Aluminum alloy Aluminum alloy Aluminum alloy Aluminum alloy Aluminum alloy Titanium alloy	Driving position built in external external built in built in	Outer dia(mm) ø284 ø284 ø284 ø284 ø284 ø284 ø284	Length (mm) 332 332 300 300 332 332	8.4 8.4 8.1 8.1 9.1	water(KG) 4.7 4.7 4.4 4.4 5.4 5.4	model MCPBOF8M MCPBOF8M MCPBOF12M MCPBOF6M MCPBOF8M	dia 3/4" 3/4" 3/4" 3/4" 3/4" 3/4"	bending outer dia 3° 3° 3° 3° 3°	adds 5 for oil adds 5 for oil adds 5 for oil adds 3 for oil adds 5 for oil adds 5 for oil adds 5 for oil	chube, ea 331g in itube, ea 353g in tube, ea 353g in tube, ea 398g in itube, ea 353g in itube, ea 353g in tube, ea	ange ich addit air, adds ich addit air, adds ich addit air, adds ich addit air, adds ich addit air, adds ich addit air, adds	46g in vional 1m; 68g in vional 1m; 68g in vional 1m; 113g in vional 1m; 46g in vional 1m; 68g in vion	vater increase, its weig
Service depth: tem. Housing Aluminum alloy Aluminum alloy Aluminum alloy Aluminum alloy Titanium alloy Titanium alloy	Driving position built in external built in built in built in built in built in external	Outer dia(mm) Ø284 Ø284 Ø284 Ø284 Ø284 Ø284 Ø284 Ø284	Length (mm) 332 332 300 300 332 332 330	air(KG) 8.4 8.4 8.1 8.1 9.1 9.1	water(KG) 4.7 4.7 4.4 4.4 5.4 5.4 5.1	model MCPBOF8M MCPBOF8M MCPBOF12M MCPBOF6M MCPBOF8M MCPBOF8M MCPBOF8M	dia 3/4" 3/4" 3/4" 3/4" 3/4" 3/4"	bending outer dia 3° 3° 3° 3° 3° 3° 3°	adds 5 for oil adds 5 for oil adds 5 for oil adds 3 for oil adds 5 for oil adds 5 for oil adds 5 for oil	chube, ea 331g in itube, ea 353g in tube, ea 353g in tube, ea 398g in itube, ea 353g in itube, ea 353g in tube, ea	ange ch addit air, adds ach addit air, adds air, adds air, adds ach addit air, adds ach addit air, adds ach addit air, adds	46g in vional 1m; 68g in vional 1m; 68g in vional 1m; 113g in vional 1m; 46g in vional 1m; 68g in vion	vater increase, its weig
tem. Housing Aluminum alloy Aluminum alloy Aluminum alloy Aluminum alloy Aluminum alloy Aluminum alloy Titanium alloy	Driving position built in external built in external built in external external external external	Outer dia(mm) Ø284 Ø284 Ø284 Ø284 Ø284 Ø284 Ø284 Ø284 Ø284	Length (mm) 332 332 300 300 332 332 330	air(KG) 8.4 8.4 8.1 8.1 9.1 9.1	water(KG) 4.7 4.7 4.4 4.4 5.4 5.4 5.1	model MCPBOF8M MCPBOF8M MCPBOF12M MCPBOF6M MCPBOF8M MCPBOF8M MCPBOF8M	dia 3/4" 3/4" 3/4" 3/4" 3/4" 3/4"	bending outer dia 3" 3" 3" 3" 3" 3"	adds 5 for oil adds 5 for oil adds 5 for oil adds 3 for oil adds 5 for oil adds 5 for oil adds 5 for oil	chube, ea 331g in itube, ea 353g in tube, ea 353g in tube, ea 398g in itube, ea 353g in itube, ea 353g in tube, ea	ange ch addit air, adds ach addit air, adds air, adds air, adds ach addit air, adds ach addit air, adds ach addit air, adds	46g in vional 1m; 68g in vional 1m; 68g in vional 1m; 113g in vional 1m; 46g in vional 1m; 68g in vion	vater increase, its weig
tem. Housing Aluminum alloy Aluminum alloy Aluminum alloy Aluminum alloy Aluminum alloy Titanium alloy Titanium alloy Titanium alloy	Driving position built in external built in external built in external external external external	Outer dia(mm) Ø284 Ø284 Ø284 Ø284 Ø284 Ø284 Ø284 Ø284 Ø284	Length (mm) 332 332 300 300 332 332 300 300 Length	air(KG) 8.4 8.4 8.1 8.1 9.1 9.1	water(KG) 4.7 4.7 4.4 4.4 5.4 5.4 5.1	model MCPBOF8M MCPBOF8M MCPBOF12M MCPBOF6M MCPBOF8M MCPBOF8M MCPBOF8M	dia 3/4" 3/4" 3/4" 3/4" 3/4" 3/4"	bending outer dia 3° 3° 3° 3° 3° 3° 3°	adds 5 for oil adds 5 for oil adds 5 for oil adds 3 for oil adds 5 for oil adds 5 for oil adds 5 for oil	chube, ea 331g in itube, ea 353g in tube, ea 353g in tube, ea 398g in itube, ea 353g in itube, ea 353g in tube, ea	ange ch addit air, adds ach addit air, adds air, adds air, adds ach addit air, adds ach addit air, adds ach addit air, adds	46g in vioral 1m; 68g in vioral 1m; 68g in vioral 1m; 68g in vioral 1m; 66g in vioral 1m; 68g in vioral 1m; 68g in vioral 1m; 68g in vioral 1m; 61g in viora	vater increase, its weig
tem Housing Aluminum alloy Aluminum alloy Aluminum alloy Aluminum alloy Titanium alloy Titanium alloy Titanium alloy Titanium alloy Titanium alloy	Driving position built in external built in external external external external external external external external	Outer dia(mm) Ø284 Ø284 Ø284 Ø284 Ø284 Ø284 Ø284 Ø284 Ø284 Ø200 Ø200	Length (mm) 332 332 300 300 332 332 300 300 Length	air(KG) 8.4 8.4 8.1 8.1 9.1 9.1 8.8 8.8	water(KG) 4.7 4.7 4.4 4.4 5.4 5.1 5.1	model MCPBOF6M MCPBOF8M MCPBOF12M MCPBOF6M MCPBOF8M MCPBOF8M MCPBOF12M CPBOF12M	dia 3/4" 3/4" 3/4" 3/4" 3/4" 3/4" Oil tube	bending outer dia 3" 3" 3" 3" 3" 3" 3" Oil tube bending	adds (for oil add) (for oil adds (chi tube, ea 331g in tube, ea 353g in tube, ea 398g in tube, ea 353g in tube, ea 353g in tube, ea 353g in tube, ea	ange ch addit alr, adds uch addit alr, adds uch addit alr, adds uch addit air, adds uch addit uc	46g in vioraal 1m; 68g in vioraal 1m; 68g in vioraal 1m; 613g in vioraal 1m; 68g in vioraal 1m; 68g in vioraal 1m; 613g in vioraal 1m; 113g in vio	vater i increase, its weig i water







propeller RPM (r/min)

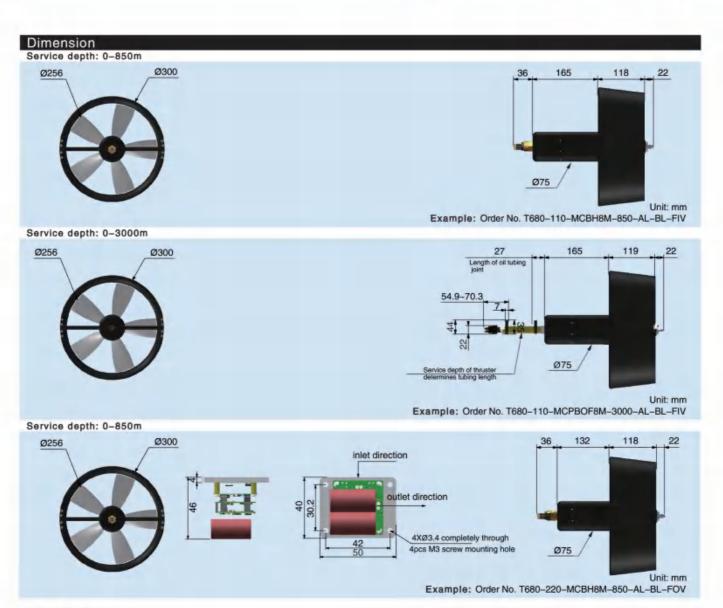


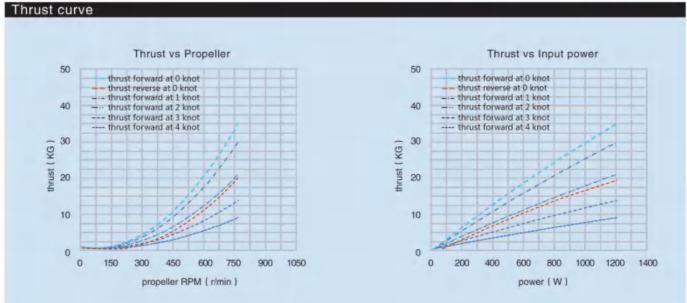
T680 thruster

Technical paramete	rs								
1 Rated power	1.2kw								
2 Rated voltage	60VDC	72VDC	80VDC	110VDC	140VDC	180VDC	220VDC	280VDC	350VDC
3 Max RPM	760r/min								
4 Thrust	thrust forwa	rd 38 KG	thrust reverse	e 22 KG					
5 Nozzle	black								
6 Propeller handing	left O	right C							
7 Material of propeller	stainless ste	eel							
8 Housing	Aluminum a	illoy Titar	nium alloy						
9 Seal	leakless, ma	agnetically coup	led						
10 Depth rating	0-850m	0-1500m	0-3000m	0-6000m	full ocean de	epth	service depth >15	500m, oil filled se	al
11 Signal power	supply volta	ge is 12VDC ± 5	5%,≤250mA			-			
12 Control made	analog volta	age control (0V-	-+5V forward, 0	V-5V reverse			CAN		
13 RPM feedback	pulse feedba	ack an	alog voltage fe	edback C/	N.				
14 Temperature	storage ten	nperature: -40	-70°C	service	temperature	: -5-40°C			
15 Electronics	built in	external							

14 Temper	ature	storage	a tempera	ture: -40-7	0.0	service re	mperatu	re: -5-40'	_				
15 Electro	nics	built in	exte	mal									
Mechanica	l param	eters											
Service depth			m				_		_		_		
tem Housing	Driv		outer ia(mm)		Weight in air(KG)	Weight in water(KG)	Connec	tor	Option	nal vol	tage(Vi	DC)	eommon n
1 Aluminum al	loy buil	t in g	284	341	7.6	4.4	MCBH6N	1	140	180	220	280	350
2 Aluminum al	loy buil	t in e	284	341	7.6	4.4	MCBH8N		60	72	80	110	
3 Aluminum al		t in g	284	329	7.7	4.5	MCBHRA	M6M	140	180	220	280	350
4 Aluminum al	loy buil	t in g	284	329	7.7	4.5	MCBHRA		60	72	80	110	
5 Aluminum al			284	309	7.3	4.1	MCBH8N		140	180	220	280	350
6 Aluminum al			1284	309	7.3	4.1	MCBH12		60	72	80	110	444
7 Aluminum al			284	297	7.4	4.2	MCBHRA			180	220	280	350
8 Aluminum al			284	305	7.4	4.2	MCBHRA		60	72	80	110	0.50
9 Titanium all			284	341	9.1	5.9	MCBH6N		140	180	220	280	350
10 Titanium all			284 284	341 329	9.1 9.2	5.9 6.0	MCBH8N MCBHRA		140	72 180	80 220	280	350
 Titanium all Titanium all 			284	329	9.2	6.0	MCBHRA		60	72	80	110	330
12 Titanium all 13 Titanium all			284	309	8.8	5.6	MCBH8N		140	180	220	280	350
14 Titanium all	the second second second		284	309	8.8	5.6	MCBH12		60	72	80	110	200
5 Titanium all		NAME OF TAXABLE PARTY.	284	297	8.9	5.7	MCBHRA		140	180	220	280	350
6 Titanium all			284	305	8.9	5.7	MCBHRA		60	72	80	110	
AND DESCRIPTIONS		A 200		Maratales Inc.	Administ in		Burke	Oil tube		167	a indus		
em. Housing Aluminum alloy Aluminum alloy Aluminum alloy	0-3000n Driving position built in built in external	0-600 Outer dia(mm) Ø284 Ø284 Ø284	DOM Length (mm) 332 332 300	Weight in air(KG) 8.2 8.2 7.9 7.9	Weight in water(KG) 4.5 4.5 4.2 4.2	Connector model MCPBOF6M MCPBOF8M MCPBOF12M	Oil tube dia 3/4* 3/4* 3/4*	bending outer dia 3° 3° 3° 3°	for oil adds for oil adds for oil adds	tube, ea 331g in tube, ea 353g in tube, ea 353g in tube, ea 398g in	air, adds ach addi air, adds ach addi air, adds ach addi air, adds	s 46g in v tional 1 m s 68g in v tional 1 m s 68g in v tional 1 m s 113g in	increase, its w valer increase, its w vater increase, its w water
tem. Housing Aluminum alloy Aluminum alloy Aluminum alloy Aluminum alloy Aluminum alloy	Driving position built in external built in	Outer dia(mm) Ø284 Ø284 Ø284 Ø284 Ø284	Length (mm) 332 332 300 300 332	air(KG) 8.2 8.2 7.9 7.9 9.7	water(KG) 4.5 4.5 4.2 4.2 5.2	model MCPBOF6M MCPBOF8M MCPBOF12M MCPBOF6M	dia 3/4" 3/4" 3/4" 3/4" 3/4"	bending outer dia 3° 3° 3° 3° 3°	adds for oil adds for oil adds for oil adds for oil adds	tube, ea 331g in tube, ea 353g in tube, ea 353g in tube, ea 398g in tube, ea 331g in	ange ach addit air, adds ach addit air, adds ach addit air, adds ach addit air, adds	s 46g in v tional 1m s 68g in v tional 1m s 68g in v tional 1m s 113g in 46g in w	vater increase, its w vater increase, its w vater increase, its w water increase, its w water increase, its w vater
em. Housing Aluminum alloy Aluminum alloy Aluminum alloy Aluminum alloy Aluminum alloy	Driving position built in built in external	Outer dia(mm) Ø284 Ø284 Ø284 Ø284	Length (mm) 332 332 300 300	8.2 8.2 7.9	water(KG) 4.5 4.5 4.2 4.2	model MCPBOF6M MCPBOF8M MCPBOF12M	dia 3/4" 3/4" 3/4" 3/4"	bending outer dia 3° 3° 3° 3°	adds for oil adds	chtube, es 331g in tube, es 353g in tube, es 353g in tube, es 398g in tube, es 331g in tube, es 353g in	ange ach addi air, adds ach addi air, adds ach addi air, adds ach addi air, adds ach addi air, adds	46g in v tional 1m 66g in v tional 1m 66g in v 113g in 46g in w tional 1m 46g in w	vater increase, its w vater increase, its w vater increase, its w water increase, its w vater increase, its w vater increase, its w vater
tem. Housing Aluminum alloy Aluminum alloy Aluminum alloy Aluminum alloy Aluminum alloy Titanium alloy	Driving position built in external built in	Outer dia(mm) Ø284 Ø284 Ø284 Ø284 Ø284	Length (mm) 332 332 300 300 332	air(KG) 8.2 8.2 7.9 7.9 9.7	water(KG) 4.5 4.5 4.2 4.2 5.2	model MCPBOF6M MCPBOF8M MCPBOF12M MCPBOF6M	dia 3/4" 3/4" 3/4" 3/4" 3/4"	bending outer dia 3° 3° 3° 3° 3°	adds for oil adds	chtube, ea 331g in tube, ea 353g in tube, ea 353g in tube, ea 353g in tube, ea 353g in tube, ea 353g in	arige ach addit air, adds	: 46g in v ional 1m s 68g in v tional 1m s 68g in v tional 1m tional 1m s 68g in v tional 1m s 68g in v	vater vater increase, its w vater
em. Housing Aluminum alloy Aluminum alloy Aluminum alloy Aluminum alloy Aluminum alloy Titanium alloy Titanium alloy	Driving position built in external external built in built in	Outer dia(mm) Ø284 Ø284 Ø284 Ø284 Ø284 Ø284	Length (mm) 332 332 300 300 332 332	air(KG) 8.2 8.2 7.9 7.9 9.7	water(KG) 4.5 4.5 4.2 4.2 5.2 5.2	model MCPBOF8M MCPBOF8M MCPBOF12M MCPBOF6M MCPBOF8M	dia 3/4* 3/4* 3/4* 3/4* 3/4* 3/4*	bending outer dia 3° 3° 3° 3° 3°	adds for oil adds	chtube, ea 331g in tube, ea 353g in tube, ea 353g in tube, ea 353g in tube, ea 353g in tube, ea 353g in tube, ea	ange ach addi air, adds	: 46g in v ional 1m s 68g in v tional 1m s 68g in v tional 1m tional 1m s 68g in v tional 1m s 68g in v	vater increase, its w vater increase, its w vater increase, its w water increase, its w vater increase, its w
Service depth tem. Housing Aluminum alloy Aluminum alloy Aluminum alloy Aluminum alloy Titanium alloy Titanium alloy Titanium alloy Titanium alloy Titanium alloy	Driving position built in external built in external external external external external external external external	Outer dia(mm) Ø284 Ø284 Ø284 Ø284 Ø284 Ø284 Ø284 Ø284 Ø284	Length (mm) 332 332 300 300 332 332 300 300 300	air(KG) 8.2 8.2 7.9 7.9 9.7 9.7 9.4	water(KG) 4.5 4.5 4.2 4.2 5.2 5.2 4.9 4.9	model MCPBOF8M MCPBOF8M MCPBOF12M MCPBOF6M MCPBOF8M MCPBOF8M MCPBOF8M MCPBOF12M	dia 3/4" 3/4" 3/4" 3/4" 3/4" 3/4" 3/4"	bending outer dia 3° 3° 3° 3° 3° 3° 3° 3° 3° 3° 3° 3° 3°	adds for oil adds	chtube, ea 331g in tube, ea 353g in tube, ea 353g in tube, ea 353g in tube, ea 353g in tube, ea 353g in tube, ea	ange ach addi alr, adds ach addi alr, adds ach addi air, adds ach addi air, adds ach addi air, adds ach addi air, adds	46g in vitorial 1 ms 68g in vitorial 1 ms 68g in vitorial 1 ms 68g in vitorial 1 ms 46g in vitorial 1 ms 68g in vitorial 1 ms 68g in vitorial 1 ms 68g in vitorial 1 ms 61g in vitorial 1 ms 61g in vitorial 1 ms 1 m	vater increase, its w vater increase, its w vater increase, its w water increase, its w vater increase, its w
tem. Housing Aluminum alloy Aluminum alloy Aluminum alloy Aluminum alloy Aluminum alloy Titanium alloy Titanium alloy Titanium alloy	Driving position built in external built in external built in external external external external	Outer dia(mm) Ø284 Ø284 Ø284 Ø284 Ø284 Ø284 Ø284 Ø284 Ø284	Length (mm) 332 332 300 300 332 332 300	air(KG) 8.2 8.2 7.9 7.9 9.7 9.7	water(KG) 4.5 4.5 4.2 4.2 5.2 5.2 4.9 4.9	model MCPBOF8M MCPBOF8M MCPBOF12M MCPBOF6M MCPBOF8M MCPBOF8M	dia 3/4" 3/4" 3/4" 3/4" 3/4" 3/4"	bending outer dia 3° 3° 3° 3° 3° 3° 3°	adds for oil adds	chtube, ea 331g in tube, ea 353g in tube, ea 353g in tube, ea 353g in tube, ea 353g in tube, ea 353g in tube, ea 353g in	ange ach addit alr, adds ach addit alr, adds ach addit alr, adds ach addit air, adds	46g in visited from the second transfer from t	vater increase, its w vater
tem. Housing Aluminum alloy Aluminum alloy Aluminum alloy Aluminum alloy Titanium alloy Titanium alloy Titanium alloy Titanium alloy	Driving position built in external built in external external external external external external external external full ocean priving	Outer dia(mm) Ø284 Ø200 Ø200	Length (mm) 332 332 330 300 332 332 300 300 Length	air(KG) 8.2 8.2 7.9 7.9 9.7 9.7 9.4 9.4	water(KG) 4.5 4.5 4.2 4.2 5.2 5.2 4.9 4.9 Weight in	model MCPBOF6M MCPBOF8M MCPBOF12M MCPBOF6M MCPBOF8M MCPBOF8M MCPBOF12M CPBOF12M	dia 3/4* 3/4* 3/4* 3/4* 3/4* 3/4* 3/4* Oil tube	bending outer dia 3° 3° 3° 3° 3° 3° 3° 3° 3° 3° 3° 3° 3°	adds i for oil adds i adds for oil adds i adds for oil adds i addis i adds i addis i adds i addis i adds	tube, ea 331g in tube, ea 353g in tube, ea 398g in tube, ea 353g in tube, ea 353g in tube, ea 353g in	ange ach addi alr, adds ach addi alr, adds ach addi air, adds	s 46g in visiting in visiting in visiting in visiting at 1 mg s 68g in visiting at 1 mg s 11 g in visiting at 1 mg s 68g in visiting at 1 mg s 68g in visiting at 1 mg s 68g in visiting at 1 mg s 11 g in visiting at 1 mg s 11 g in visiting at 1 mg s 1 mg s 68g in visiting at 1 mg s	vater increase, its w vater



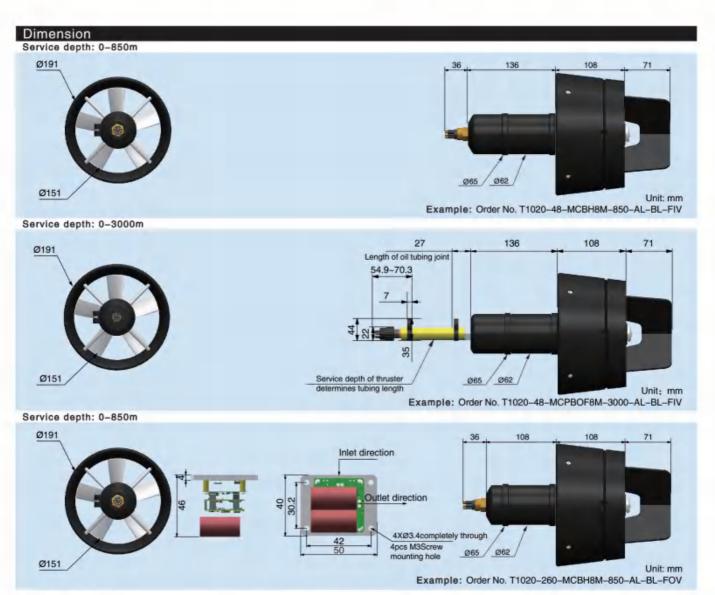


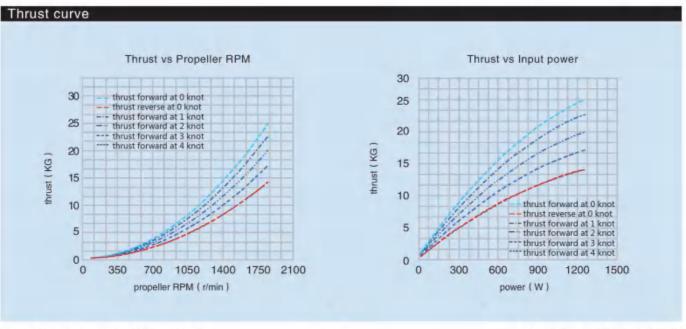


T1020 thruster

	-								
Technical paramete	ers								
1 Rated power	1.25kw								
2 Rated vollage	48VDC	60VDC	95VDC	120VDC	150VDC	175VDC	200VDC	260VDC	330VDC
3 Max RPM	1850r/min				174.7				
4 Thrust	thrust forwa	rd 25 KG	thrust reverse	14 KG					
5 Nozzle	black								
6 Propeller handing	left O	right C							
7 Material of propeller	stainless ste	el							
8 Housing	Aluminum a	lloy Tit	tanium alloy						
9 Seal	leakless, ma	agnetically cou	upled						
10 Depth rating	D-850m	0-1500m	0-3000m	0-6000m	full ocean de	epth se	rvice depth > 150	iom, all filled sea	d
11 Signal power	supply volta	ge is 12VDC	± 5%,≤250mA						
12 Control made	analog volta	age control (0	OV-+5V forward, OV	-5V reverse)		CAN		
13 RPM feedback	pulse feedb	ack anal	og voltage feedback	CAN					
14 Temperature	storage ter	nperature: -	40-70°C	service te	mperature: -	-5-40°C			
15 Electronics	built in	external							
14 Temperature	storage fer	nperature: -			mperature: -	-5-40°C			

ervice depth:														
em Housing	12 - 12 - 12 - 12 - 12 - 12 - 12 - 12 -	ring	Outer	Length	Weight in	Weight in	Connec	tor	Option	al volt	age(VI	(C) _		
		-	dia(mm)		air(KG)	Water(KG)	model		- Christian			1111	comn	non moe
1 Aluminum alk	ov bui	lt in	ø191	351	3.7	2.2	MCBH6M	1	220	260	330			
2 Aluminum alk	oy but	It in	Ø191	351	3.7	2.2	MCBH8M	L	48	60	95	120	150	175
3 Aluminum alk	bui	lt in	ø191	339	3.8	2.3	MCBHRA	6M	220	260	330			
4 Aluminum alk	bui	lt in	ø191	339	3.8	2.3	MCBHRA	MB.	4.8	60	95	120	150	175
5 Aluminum alk	oy exte	rnal	ø191	323	3,5	2.0	MCBH8M	1	220	260	330			
6 Aluminum all		mal	w191	323	3.5	2.0	MCBH12		95	120	150	175		
7 Aluminum alk	7 7/11/2	rnal	ø191	323	3.5	2.0	MCBH16	A name	48	60	-1000			
8 Aluminum alk	-	rnal	Ø191	311	3.6	2.1	MCBHRA	1000	220	260	330			
9 Aluminum all	A.		ø191	319	3.6	2.1	MCBHRA		95 48	120	150	175		
 Aluminum alk Titanium alk 		rnal It in	Ø191 Ø191	319	3.6 4.4	2.1	MCBHRA MCBH6N		220	260	330			
 Titanium allo Titanium allo 	The second second	it in	ø191	351	4.4	2.9	MCBH8N		48	60	95	120	150	175
3 Titanium alic		t in	ø191	339	4.5	3.0	MCBHRA	And the second	220	260	330	16.17	13474	110
4 Titanium allo	The second second second	lt in	ø191	339	4.5	3.0	MCBHRA	100	4.8	60	95	120	150	175
5 Titanium allo		rnal	Ø191	323	4.2	2.7	MCBH8N	DESPRIES	220	260	330			10.4
6 Titanium allo		rnal	ø191	323	42	2.7	MCBH12		95	120	150	175		
7 Titarium allo	y exte	rnal	Ø191	323	4.2	2.7	MCBH16	MSS	48	60				
8 Titanium alk	y exte	rnal	@191	311	4.3	2.8	MCBHRA	BMSS	220	260	330			
9 Titanium allo	y exte	rnal	ø191	319	4.3	2.8	MCBHRA	12MSS	95	120	150	175		
 Titanium allo 	by exte	rnal	Ø191	319	4.3	2.8	MCBHRA	16MSS	48	60				
ervice depth: em. Housing	0-3000r Driving position	Outer	Length (mm)	Weight in air(KG)	Weight in water(KG)	Connector	Oil tube	Oil tube bending outer dia			eight ange			
Aluminum alloy	built in	ø191	342	4	2.4	MCPBOF6M	3/4"	3.	for oil	tube, ea	ch addit	onal 1m 46g in w	increase,	its weig
Aluminum alloy	built in	p191	342	4	2.4	мсрвогвм	3/4"	3'	for oil	tube, ea	ch addit		increase	its weig
Aluminum alloy	external	ø191	314	3,8	22	MCPBOF8M	3/4"	3,				ional 1m 68g in v	increase vater	its weig
Aluminum alloy	external	ø191	314	3,8	2.2	MCPBOF12M	3/4*	3,				ional 1m 113g in	increase water	its weig
Aluminum alloy	external	ø191	314	3.8	22	MCPBOF16M	3/4"	3,	adds	443g in	air, adds	158g in		
Titanium alloy	puilt in	ø191	342	4.8	3.2	MCPBOF6M	3/4"	3"	adds:	331g in	air, adds	46g in v		
Titanium alloy	polit in	ø191	342	4.8	3.2	MCPBOF8M	3/4"	3"	adds	353g in	air, adds	68g in v		
Titanium alloy	external	ø191	314	4.6	3.0	МСРВОГВМ	3/4"	3"	adds	353g in	air, adds	68g in v		
Titanium alloy	external	ø191	314	4.6	3.0	MCPBOF12M	3/4"	3"	adds	398g in	air, adds	113g in		
Titanium alloy	external	Ø191	314	4.6	3.0	MCPBOF16M	3/4"	3"				158g in	increase water	us well
ervice depth: em Housing	full ocea Driving position	Outer dia(mn	Length (mm)	Weight in air(KG)	Weight in water(KG)	Connector model	Oil tube	Oil tube bending outer dia			Weight			
Titanium alloy	built in	ø191	342	4.8	3.2	PBOF6M	3/4"	3"	adds:	331g in-	air, adds	46g in w		
Titanium alloy	built in	ø191	342	4.8	3.2	PBOF8M	3/4"	3"	for oil adds :	tube, ea 353g in	ich additi air, adds	onal 1m. 68g in w	increase, rater	
District in surely														
Titanium alloy	external	ø191	314	4.6	3.0	PBOF8M	3/4"	3"				ional 1m 68g in w	increase vater	its wei





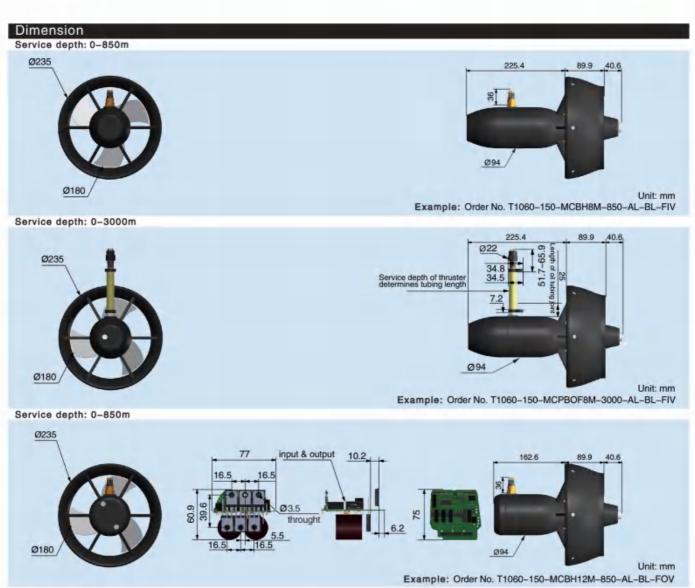
2.3kw

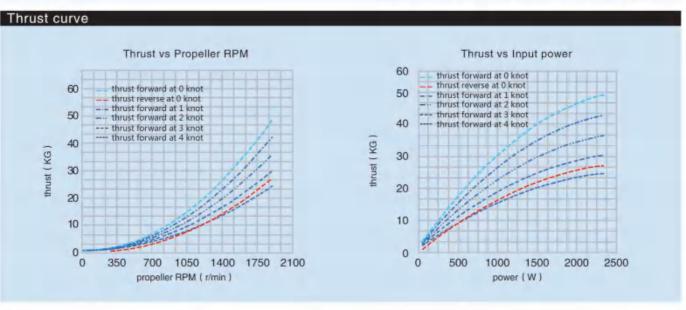
T1060 thruster

Technical paramete	ers
1 Rated power	2.3kw
2 Rated voltage	72VDC 100VDC 120VDC 150VDC 260VDC 300VDC
3 Max RPM	1880r/min
4 Thrust	thrust forward 48 KG thrust reverse 24 KG
5 Nozzle	black
6 Propeller handing	left O right C
7 Material of propeller	stainless steel
8 Housing	Aluminum alloy Titanium alloy
9 Seal	leakless, magnetically coupled
10 Depth rating	0-850m 0-1500m 0-3000m 0-6000m full ocean depth service depth >1500m, oil filled seal
11 Signal power	none
12 Control made	analog voltage control (0V-+5V forward, 0V5V reverse) CAN
13 RPM feedback	pulse feedback analog voltage feedback CAN
14 Temperature	storage temperature: -40-70°C service temperature: -5-30°C
15 Electronics	built-in external

1 Aluminum alloy 2 Aluminum alloy 3 Aluminum alloy 4 Aluminum alloy 5 Aluminum alloy 5 Titanium alloy 7 Titanium alloy 8 Titanium alloy 9 Titanium alloy	Driving positio built in externa externa externa built in externa	n dia(n ø23 n ø23 al ø23 al ø23 n ø23	mm) 35 35 35 35 35	Length (mm) 356 356 294 294	Weight in air(KG) 6.5 6.5	Weight in water(KG) 4.1	Connec	ctor	Optio	nai vo	ltage(VDC)	common mor
2 Aluminum alloy 3 Aluminum alloy 4 Aluminum alloy 5 Aluminum alloy 6 Titanium alloy 7 Titanium alloy 8 Titanium alloy	externa externa externa externa built in externa	n ø23 al ø23 al ø23 al ø23 n ø23	35 35 35 35	356 294	6.5	4.1						
3 Aluminum alloy 4 Aluminum alloy 5 Aluminum alloy 6 Titanium alloy 7 Titanium alloy 8 Titanium alloy	externa externa externa built in built in	al ø23 al ø23 al ø23 n ø23	35 35 35	294			MCBH8	M	150	260	300	
4 Aluminum alloy 5 Aluminum alloy 6 Titanium alloy 7 Titanium alloy 8 Titanium alloy	externa externa built in built in	al ø23 al ø23 n ø23	35 35		200 200	4.1	MCBH1	2M	72	100	120	
5 Aluminum alloy 6 Titanium alloy 7 Titanium alloy 8 Titanium alloy	externa built in built in externa	al ø23 n ø23	35	294	6,0	4.0	BH12M		72	100	120	
6 Titanium alloy 7 Titanium alloy 8 Titanium alloy	puilt in built in externa	n ø23	-		6.0	4.0	MCBH1:		260	300		
7 Titanium alloy 8 Titanium alloy	built is externa	9.70	a dec	294	6.0	4.0	MCBH1		150		- Usb	
8 Titanium alloy	extern			356	7,5	5.1	MCBH8	are a	150	260	300	
The second second second				356	7.5	5.1	MCBH1		72	100	120	
a maritum alloy		1000		302	7.1	5.0	BH12MS MCBH1		72 260	100	120	
10 Titanium alloy	extern:			294	7.0	5.0	MCBH1	Charles of the Control of the Contro	150	300		
to marnum alloy	GARGITI	ai (02.0	30	234	7.0	5.0	MCDUI	OWIGO	150			
Service depth: 0	0-3000m	& 0-600	00m					Oil tube				
Item Housing	Driving position	Outer dia(mm)	Length (mm)	Weight in air(KG)	Weight in water(KG)	Connector model	Oil tube dia	bending outer dia		ight inge		
1 Aluminum alloy	built in	ø235	356	7.3	4.1	MCPBOF8M	3/4"	3"	adds 3	353g in	air, adds 68g ir	
2 Aluminum alloy	built in	ø235	356	7.3	4.1	MCPBOF12M	3/4"	3"	adds 3	398g in	air, adds 113g	
3 Aluminum alloy	external	ø235	294	6.8	4.0	MCPBOF12M	3/4"	3"	adds 3	398g in	air, adds 113g	m increase, its weigh in water m increase, its weigh
4 Aluminum alloy		ø235	294	6.8	4.0	MCPBOF16M	3/4"	3"	adds 4	143g in	air, adds 158g	
5 Aluminum alloy 6 Titanium alloy	built in	ø235	294 356	7,3	5.1	PBOF12M MCPBOF8M	1.25"	4.75"	adds 8	380g in tube, ea	air, adds 88g in ach additional 1	n water m increase, its weigh
7 Titanium alloy	built in	Ø235	356	8.3	5.1	MCPBOF12M	3/4"	3"	for oil t	tube, ea		m increase, its weigh
	external	ø235	294	7.8	5.0	MCPBOF12M	3/4*	3."	for oil	lube, es	air, adds 113g ach additional 1 air, adds 113g	m increase, its weigh
9 Titanium alloy	external	ø235	294	7.8	5,0	MCPBQF16M	3/4"	3"	for oil t	tube, ea	The state of the	m increase, its weigh
0 Titanium alloy	external	ø235	294	8.3	5.0	PBOF12M	1.25"	4.75"	foroil	tube, ea		m increase, its weigi
Service depth: f	ton accoun	21046							2700000		m1	, mpane
tem Housing D	Driving position	Outer dia(mm)	Length (mm)	Weight in air(KG)	Weight in water(KG)	Connector model	Oil tube dia	Oil tube bending outer dia	Wei	-		
Aluminum alloy	buill in	ø235	356	7.3	4.1	PBOF6M	3/4"	3"	adds 3	331g in	air, adds 46g ir	
Aluminum alloy	boilt in	ø235	356	7.3	4.1	PBOFBM	3/4"	3"	adds 3	353g in	air, adds 68g ir	
3 Aluminum alloy	external	ø235	294	6.8	4.0	PBOF8M	3/4"	3"	adds 3	353g in	air, adds 68g ir	
	external.	ø235	294	7.3	4.0	PBOF12M	1.25"	4.75*	adds 8	380g in	air, adds 88g ir	m increase, its weigh water m increase, its weigh
	built in	ø235	356	8.3	5.1	PBOF6M	3/4*	3"	adds 3	331g in	air, adds 46g ir	
Titanium alloy	built in	Ø235	356	8.3	5.1	PBOF8M	3/4"	3"	adds 3	353g in	air, adds 68g ir	
N	external	ø235 ø235	294	7.8	5.0	PBOF8M PBOF12M	3/4"	4.75	adds 3	353g in	air, adds 68g ir	n water m increase, its weig



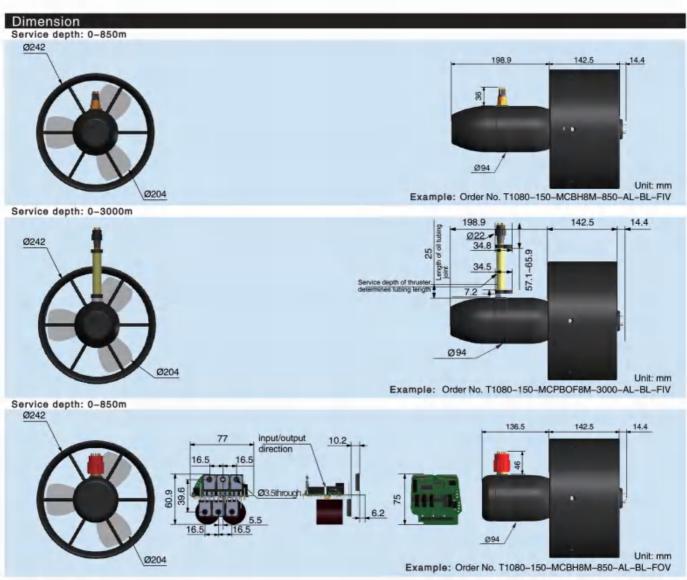


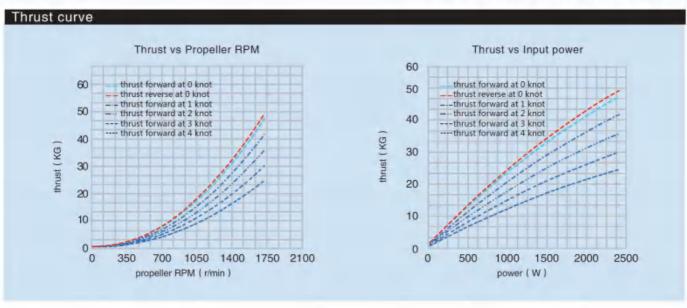


T1080 thruster

Technical paramete	ers
1 Rated power	2.4kw
2 Raled voltage	72VDC 100VDC 120VDC 150VDC 260VDC 300VDC
3 Max RPM	1730r/min
4 Thrust	thrust forward 48 KG thrust reverse 48 KG
5 Nozzle	black
6 Propeller handing	left O right O
7 Material of propeller	stainless steel
8 Housing	Aluminum alloy Titanium alloy
9 Seal	leakless, magnetically coupled
10 Depth rating	0-850m 0-1500m 0-3000m 0-6000m full ocean depth service depth >1500m, oil filled seal
11 Signal power	none
12 Control made	analog voltage control (0V~+5V forward, 0V~-5V reverse) CAN
13 RPM feedback	pulse feedback analog voltage feedback CAN
14 Temperature	storage temperature: -40-70°C service temperature: -5-40°C
15 Electronics	built in external

Mechnical												
Service depth:	0-850m	& O-1500	m									
Item Housing	Driving	01	er (mm)	Length (mm)	Weight in air(KG)	Weight in water(KG)	Conne model	ctor	Optio	inal vo	htage(VDC)	common mo
1 Aluminum alloy	built i	n ø24	42	356	7.3	4.2	MCBH8	M	150	260	300	
2 Aluminum alloy	built i	n Ø24	12	356	7.3	4.2	MCBH1	2M	72	100	120	
3 Aluminum alloy				294	6,8	3.7	MCBH1		260	300		
4 Aluminum alloy		100		294	6.8	3.7	MCBH1	6M	150			
5 Aluminum alloy				294	6.8	3.7	BH12M	105	72	100	120	
6 Titanium alloy				356	8.3	5.2	MCBH8	1400 00 0	150	260	300	
7 Titanium alloy			A. C.	356	8.3	5.2	MCBH1		72	100	120	
8 Titanium alloy				294	7.8 7.8	4.7	MCBH1		260	300		
9 Titanium alloy				294 302			MCBH1		150	400	100	
10 Titanium alloy	extern	iai 624	42	302	7.8	4.7	BH12M	55	72	100	120	
Service depth:	0-3000m	8 0-60	00m					DILLE				
Item Housing	Driving position	Outer dia(mm)	Length (mm)	Weight in air(KG)	Weight in water(KG)	Connector	Oil tube	Oil tube bending outer dia		eight ange		
1 Aluminum alloy	built in	ø242	356	8.1	4.2	MCPBOF8M	3/4"	3"	for oil	tube, e	ach additional 1 air, adds 68g i	m increase, its weig water
2 Aluminum alloy	built in	ø242	356	8.1	42	MCPBOF12M	3/4"	3"	adds	398g in	air, adds 113g	
3 Aluminum alloy	external	ø242	294	7.6	3.7	MCPBOF12M	3/4"	3"	adds:	398g in	air, adds 113g	
4 Aluminum alloy	external	ø242	294	7.6	3.7	MCPBOF16M	3/4"	3."	adds	443g in	air, adds 158g	m increase, its weig in water m increase, its weig
5 Aluminum alloy		ø242	294	8.1	3.7	PBOF12M	1.25"	4.75"	adds	880g in	air, adds 88g in	
6 Titanium alloy 7 Titanium alloy	built in	ø242 ø242	356 356	9.1	5.2	MCPBOFBM MCPBOF12M	3/4"	3"	adds:	353g in tube, e	air, adds 68g in ach additional 1	m increase, its weig
8 Titanium alloy	external	Ø242	294	8.6	4.7	MCPBOF12M	3/4*	3."	foroil	tube, e		m increase, its weig
9 Titanium alloy	external	ø242	294	8,6	4.7	MCPBQF16M	3/4"	3"	for oil	tube, e	air, adds 113g ach additional 1 air, adds 158g	m increase, its weig
ð Titanium alloy	external	ø242	294	9.1	4.7	PBOF12M	1.25"	4.75"	foroil	tube, e		m increase, its weig
Service depth:	full ocean	n denth										y mp. m.
tem Housing	Driving position	Outer dia(mm)	Length (mm)	Weight in air(KG)	Weight in water(KG)	Gonnector model	Oil tube dia	Oil tube bending outer dia		nge		
Aluminum alloy	built in	ø242	356	8,1	4.2	PBOF6M	3/4"	3"	adds	331g in	air, adds 46g ir	The state of the s
Aluminum alloy	boilt in	ø242	356	8.1	4.2	PBOF8M	3/4"	3"	adds	353g in	air, adds 68g ir	
Aluminum alloy	external	ø242	294	7.6	3.7	PBOF8M	3/4"	3"	adds:	353g in	air, adds 68g ir	
Aluminum alloy	external	Ø242	294	8.1	3.7	PBOF12M	1.25"	4.75*	adds i	880g in	air, adds 88g in	
Titanium alloy	built in	ø242	356	9.1	5.2	PBOF6M	3/4*	3"	adds:	331g in	air, adds 46g in	m increase, its weig n water m increase, its weig
Titanium alloy	built in	Ø242	356	9.1	5.2	PBOF8M	3/4"	3"	adds:	353g in	air, adds 68g in	m increase, its weight m increase, its weight
Titanium alloy	external	ø242	294	8.6	4.7	PBOF8M	3/4"	3"	adds:	353g in	air, adds 68g ir	water
3 Titanium alloy	external	Ø242	294	9.1	4.7	PBOF12M	1.25"	4.75	adds	880g in	ach additional 1 air, adds 88g ii	m increase, its we water

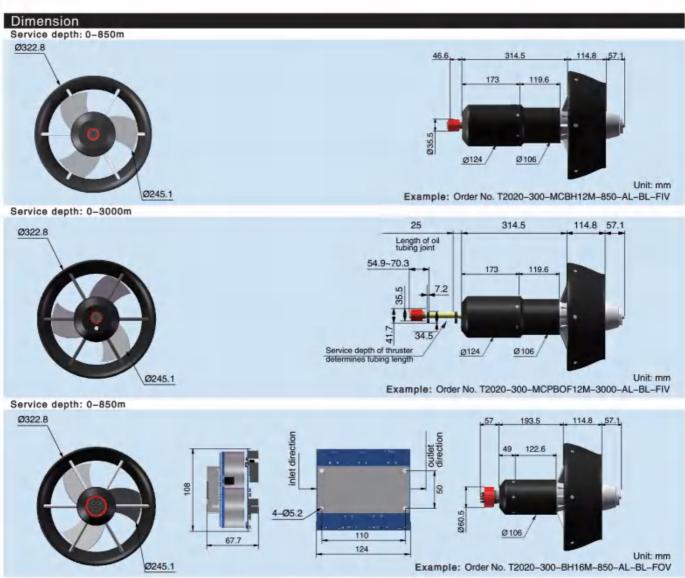


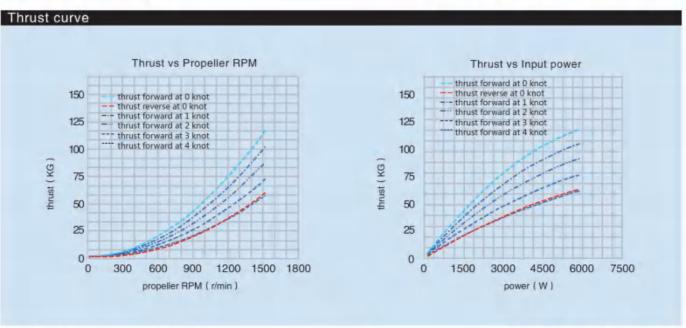


T2020 thruster

Technical paramete	rs				
1 Rated power	6.5kw				
2 Rated voltage	260VDC 300VDC	330VDC	600VDC		
3 Max RPM	1600r/min				
4 Thrust	thrust forward 120 KG	thrust reverse	60 KG		
5 Nozzle	black				
6 Propeller handing	left O right O				
7 Material of propeller	stainless steel				
8 Housing	Aluminum alloy Titani	um alloy			
9 Seal	leakless, magnetically couple	ed			
10 Depth rating	0-850m 0-1500m	0-3000m	0-6000m	full ocean depth	service depth >850m, oil filled seal
11 Signal power	none				
12 Control made	analog voltage control (0V~	+5V forward, 0V	5V reverse		CAN
13 RPM feedback	pulse feedback analog w	oltage feedback	CAN		
14 Temperature	storage temperature: -40	-70°C s	ervice temp	erature: -5-40°C	
15 Electronics	built-in external				

14 Temperature		made					5V reverse)			CAN
Machanical parameters							CAN	wastien.	E 4090	
Connector Conn				The second		oc s	ervice tempe	rature; -	5-40 C	
Service depth: 0-1500 South Common Com	15 Electron	100	Duit-ii	CAIG	riai					
Service depth: 0-1500 South Common Com	Machanical	naram	otore							
				_						
Aluminum alloy	THE RESERVE OF THE PARTY OF THE)utor	Length	Mojoht in	Weight in	Connac	tor	Ontional voltage/VDC)
Aurnium alloy built in e322.8 533 14.8 8.9 MCRH12M 250 300 330 600	item Housing								LOT	common mod
2 Abuminum alloy built in e322.8 530 14.8 8.9 McBHRA12M 260 300 330 600 3 30 600 3 30 600 3 30 600 3 30 600 3 30 600 3 30 600 3 30 600 3 30 600 3 30 600 3 30 600 3 30 600 3 30 600 5 Titanium alloy built in e322.8 530 16.3 10.4 McBHRA12MS 260 300 330 600 6 Titanium alloy external e322.8 422.4 13.7 9.4 BH16MSS 260 300 330 600 6 Titanium alloy external e322.8 142.4 13.7 9.4 BH16MSS 260 300 330 600 6 Titanium alloy built in e322.8 511.4 16.4 11.9 MCPBOF12M 34* 3* add 398g in air, adds 5113g in water for oil tube bending outer dia diamm. (mm) air(KG) model dia control of oil tube bending outer dia 34* 3* add 398g in air, adds 5113g in water for oil tube bending outer dia 34* 3* add 398g in air, adds 113g in water for oil tube bending outer dia 34* 3* add 398g in air, adds 113g in water for oil tube bending outer dia 34* 3* adds 398g in air, adds 113g in water for oil tube bending outer dia 34* 3* add 398g in air, adds 113g in water for oil tube bending outer dia 34* 3* adds 398g in air, adds 113g in water for oil tube bending outer dia 34* 3* adds 398g in air, adds 113g in water for oil tube, each additional 1 microsase, its weight dia 3* adds 398g in air, adds 113g in water for oil tube, each additional 1 microsase, its weight dia 3* adds 398g in air, adds 68g in water for oil tube, each additional 1 microsase, its weight dia 3* adds 398g in air, adds 68g in water for oil tube, each additional 1 microsase, its weight of oil tube, each additional 1 microsase, its weight of oil tube, each additional 1 microsase, its weight of oil tube, each additional 1 microsase, its weight of oil tube, each additional 1 microsase, its weight of oil tube, each additional 1 microsase, its weight of oil tube, each additional 1 microsase, its weight of oil tube, each additional 1 microsase, its weight of oil tube, each additional 1 microsase, its weight of oil tube, each additional 1 microsase, its weight of oil tube, each additional 1 microsase, its weight of oil tube, each additional 1 microsase, its weight of oil tube, each addition	1 Aluminum alle	20.00			-				М	260 300 330 600
3 Aluminum alloy built in e322.8 533 16.3 10.4 MCBHRA12MSS 260 300 330 600 5 Titanium alloy built in e322.8 530 16.3 10.4 MCBHRA12MSS 260 300 330 600 6 Titanium alloy external e322.8 422.4 13.7 9.4 BH16MSS 260 300 330 600 6 Titanium alloy external e322.8 142.4 13.7 9.4 BH16MSS 260 300 330 600 6 Titanium alloy external e322.8 511.4 18.1 11.9 MCPBOF12M Service depth: 0-1500m & 0-3000m & 0-6000m weight in condens and condens										
Service depth: 0-1500m & 0-3000m & 0-6000m lem Housing Driving Outer Length position dia(mm) adis(760) min) air(KG) min) a			12,012							
Service depth: 0-1500m & 0-3000m & 0-6000m Weight in position diagram (mm) main air(KG) water(KG) model dia a consistency model diagram (mm) main air(KG) water(KG) model diagram (mm) main air(KG) water(KG) model diagram (mm) di	4 Titanium allo	y buil	lt in	322.8	533	16.3	10.4	MCBH12	MSS	260 300 330 600
Service depth: 0-1500m & 0-3000m & 0-8000m Weight in water(KG) Connector model Meight in water (KG) Weight in water (KG) Weig	5 Titanium allo	y buil			520	16.3	10.4	MCBHRA	12MSS	260 300 330 600
tem Housing Driving Outer position dia(mm) water (KG) water (KG) and a connector model of the mo	6 Titanium allo	y exte	rnal	×322.8	422.4	13.7	9.4	BH16MS	S	260 300 330 600
tem Housing Driving Outer position dia(mm) water (KG) water (KG) and a connector model of the mo										
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Service depth: full ocean depth Item Housing Driving Outer position dia(mm) Alluminum alloy built in \$322.8 511.4 16.4 10.2 PBOF8M 3/4* 3* for oil tube, each additional 1m increase, its weight in water (KG) and adds 398g in air, adds 133g in water (For oil tube, each additional 1m increase, its weight adds 398g in air, adds 398g in a	Aluminum alloy	built in	ø322.8	511.4	16.4	10.2	MCPBOF12M	3/4"	3,	adds 398g in air, adds 113g in water
Service depth: full ocean depth Item Housing Driving Outer position dia(mm) (mm) air(KG) water(KG) model dia outer dia outer dia dds 353g in air, adds 68g in water (KG) altube bending outer dia outer dia outer dia outer dia dds 353g in air, adds 68g in water (KG) altube bending outer dia dds 353g in air, adds 68g in water (KG) altube bending outer dia ou	Titanium allov	built in	a322 B	511.4	19.1	11 0	MCPROF12M	3/4"	3"	for oil tube, each additional 1m increase, its weigh
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Titanium alloy built in ø322.8 511.4 18.1 11.9 PBOF8M 3/4" 3" for oil tube, each additional 1m increase, its weight adds 353g in air, adds 68g in water	tem Housing	Driving position		511.4	16.4	10.2	1 DOI GIII			
Thesis of the second control c	tem Housing Aluminum alloy	Driving position built in	ø322.8	100	1000	4.00		1,25"	4.75"	for oil tube, each additional 1m increase, its weigh
Titanium alloy external ø322.8 393.4 15.1 10.1 PBOF16M 1.25" 4.75 adds 925g in air, adds 133g in water	Aluminum alloy	Driving position built in external	ø322.8 ø322.8	393,4	14.3	9.3	PBOF16M			for oil tube, each additional 1m increase, its weight adds 925g in air, adds 133g in water for oil tube, each additional 1m increase, its weight
	Aluminum alloy	Driving position built in external	ø322.8 ø322.8	393,4	14.3	9.3	PBOF16M			for oil tube, each additional 1m increase, its weigh adds 925g in air, adds 133g in water for oil tube, each additional 1m increase, its weigh adds 353g in air, adds 68g in water
	Aluminum alloy Aluminum alloy Aluminum alloy Titanium alloy	Driving position built in external built in	ø322.8 ø322.8 ø322.8	393,4 511,4	14.3 18.1	9.3 11.9	PBOF16M PBOF8M	3/4"	3*	for oil tube, each additional 1m increase, its weigh adds 925g in air, adds 133g in water for oil tube, each additional 1m increase, its weigh adds 353g in air, adds 68g in water for oil tube, each additional 1m increase, its weigh
	Aluminum alloy Aluminum alloy Titanium alloy	Driving position built in external built in	ø322.8 ø322.8 ø322.8	393,4 511,4	14.3 18.1	9.3 11.9	PBOF16M PBOF8M	3/4"	3*	for oil tube, each additional 1m increase, its weight adds 925g in air, adds 133g in water for oil tube, each additional 1m increase, its weigh adds 353g in air, adds 68g in water for oil tube, each additional 1m increase, its weight

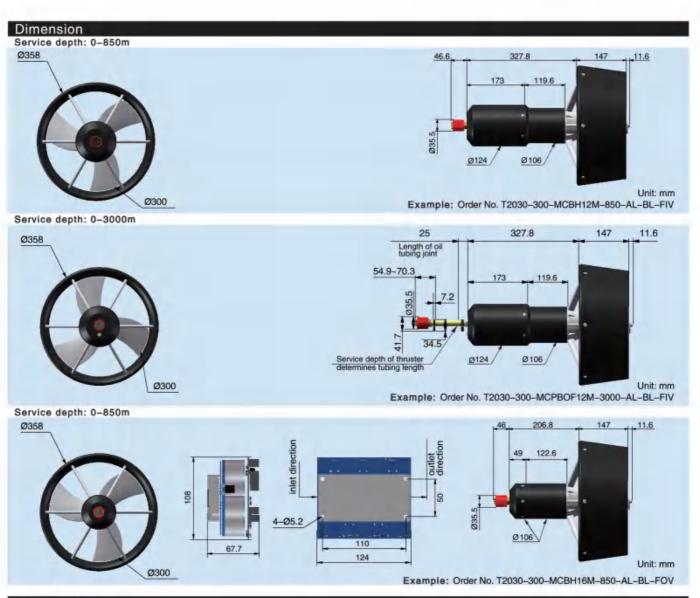




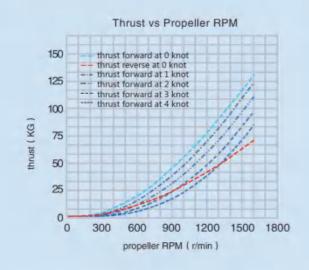
T2030 thruster

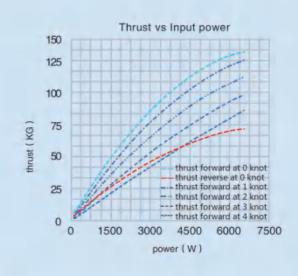
ers					
6.5kw					
260VDC	300VDC	330VDC			
1600r/min					
thrust forwa	rd 130 KG	thrust reverse	70 KG		
black					
left O	right C				
stainless ste	eel				
Aluminum a	alloy Titar	nium alloy			
leakless, ma	agnetically coup	led			
0-850m	0-1500m	0-3000m	0-6000m	full ocean depth	service depth >850m, oil filled seal
none					
analog volta	age control (0V	-+5V forward, 0V	-5V reverse		CAN
pulse feedb	ack ana	alog voltage feedb	ack	CAN	
storage ter	mperature: -40	0-70°C s	ervice temp	erature: -5-40°C	
built-in	external				
	6.5kw 260VDC 1600r/min thrust forwa black left O stainless sta Aluminum a leakless, m 0–850m none analog volts pulse feedb storage tei	6.5kw 260VDC 300VDC 1600r/min thrust forward 130 KG black left O right C stainless steel Aluminum alloy Tita: leakless, magnetically coup 0-850m 0-1500m none analog voltage control (0V pulse feedback and storage temperature: -40	6.5kw 260VDC 300VDC 330VDC 1600r/min thrust forward 130 KG thrust reverse black left O right C stainless steel Aluminum alloy Titanium alloy leakless, magnetically coupled 0–850m 0–1500m 0–3000m none analog voltage control (0V-+5V forward, 0V pulse feedback analog voltage feedb storage temperature: -40~70°C s	6.5kw 260VDC 300VDC 330VDC 1600r/min thrust forward 130 KG thrust reverse 70 KG black left O right C stainless steel Aluminum alloy Titanium alloy leakless, magnetically coupled 0–850m 0–1500m 0–3000m 0–6000m none analog voltage control (0V–+5V forward, 0V—5V reverse pulse feedback analog voltage feedback storage temperature: -40-70°C service temp	6.5kw 260VDC 300VDC 330VDC 1600r/min thrust forward 130 KG thrust reverse 70 KG black left O right C stainless steel Aluminum alloy Titanium alloy leakless, magnetically coupled 0-850m 0-1500m 0-3000m 0-6000m full ocean depth none analog voltage control (0V-+5V forward, 0V-5V reverse) pulse feedback analog voltage feedback CAN storage temperature: -40-70°C service temperature: -5-40°C

	ature	storag	e tempera	analog ture: -40~7	0°C s	ervice tempe	rature: -	5-40°C				
15 Electron		built-in				erosae sampa						
/lechanica	param	eters										
ervice depth:												
tem Housing	Driv		uter ia(mm)		Weight in air(KG)	Weight in water(KG)	Connect	tor	Option	al volt	age(VDC)	common mod
1 Aluminum all	ov buil		358	533	15.9	9.2	MCBH12	М	260	300	330	
2 Aluminum all			358	520	15.9	9.2	MCBHRA	12M		300	330	
3 Aluminum all	oy exte	rnal g	358	411.4	14	8.9	MCBH16	M	260	300	330	
4 Aluminum all	by exte	rnal g	358	397.2	14	8.9	MCBHRA	16M	260	300	330	
5 Titanium alle			358	533	17.4	10.7	MCBH12		260	300	330	
6 Titanium alle			×358	520	17.4	10.7	MCBHRA		260	300	330	
7 Titanium alle	Annual Print, Spirit,		358	411.4	14.8	9.7	MCBH16	The second second		300	330	
8 Titanium alle	by exte	rnal 6	358	397.2	14.8	9.7	MCBHRA	16MSS	260	300	330	
A CONTRACTOR OF THE PARTY OF TH					Maight in	Lance See	60.	Oil tube		187	inht	
A CONTRACTOR OF THE PARTY OF TH	Driving	Outer	Length	Weight in	Weight in	Connector	Oil tube	bending			eight	
em Housing	Driving position	Outer dia(mm)	Length (mm)	Weight in air(KG)	water(KG)	model	dia	bending outer dia	for oil t	cha	ange	Im involveno, its union
em Housing	Driving	Outer	Length	Weight in				bending	for oil to	cha ube, ea	ange ch additional	1m increase, its weig
ervice depth: em Housing Aluminum alloy Aluminum alloy	Driving position	Outer dia(mm)	Length (mm)	Weight in air(KG)	water(KG)	model	dia	bending outer dia	adds 3	cha ube, ea 198g in a	ange ch additional air, adds 113	1m increase, its weigh
em Housing Aluminum alloy Aluminum alloy	Driving position built in	Outer dia(mm) ø358	Length (mm) 511.4	Weight in air(KG) 17.5	water(KG) 10.5	model MCPBOF12M	dia 3/4*	bending outer dia 3"	adds 3 for oil t adds 4 for oil t	cha ube, ea 198g in a 143g in a 143g ea	ange ch additional air, adds 113 ich additional air, adds 158 ich additional	g in water 1m increase, its weig g in water 1m increase, its weig
em Housing Aluminum alloy Aluminum alloy Titanium alloy	Driving position built in external built in	Outer dia(mm) ø358 ø358 ø358	Length (mm) 511.4 390.4 511.4	Weight in air(KG) 17.5 14.8 19.2	water(KG) 10.5 9.5 12.2	model MCPBOF12M MCPBOF16M MCPBOF12M	dia 3/4" 3/4" 3/4"	bending outer dia 3" 3"	adds 3 for oil t adds 4 for oil t adds 3	cha ube, ea 198g in a tube, ea 143g in a tube, ea 198g in a	ange ch additional air, adds 113 ich additional air, adds 158 ich additional air, adds 113	g in water 1m increase, its weig g in water 1m increase, its weig g in water
em Housing Aluminum alloy Aluminum alloy Titanium alloy	Driving position built in external	Outer dia(mm) ø358 ø358	Length (mm) 511.4 390.4	Weight in air(KG) 17.5 14.8	water(KG) 10.5 9.5	model MCPBOF12M MCPBOF16M	dia 3/4* 3/4*	bending outer dia 3"	adds 3 for oil t adds 4 for oil t adds 3 for oil t	cha ube, ea 198g in a tube, ea 143g in a tube, ea 198g in a	ange ch additional air, adds 113 ich additional air, adds 158 ich additional air, adds 113	g in water 1m increase, its weig g in water 1m increase, its weig g in water 1m increase, its weig g in water
em Housing Aluminum alloy	Driving position built in external built in	Outer dia(mm) ø358 ø358 ø358	Length (mm) 511.4 390.4 511.4	Weight in air(KG) 17.5 14.8 19.2	water(KG) 10.5 9.5 12.2	model MCPBOF12M MCPBOF16M MCPBOF12M	dia 3/4" 3/4" 3/4"	bending outer dia 3" 3"	adds 3 for oil t adds 4 for oil t adds 3 for oil t	cha ube, ea 198g in a tube, ea 143g in a tube, ea 198g in a	ange ch additional air, adds 113 ich additional air, adds 158 ich additional air, adds 113 ich additional	g in water 1m increase, its weig g in water 1m increase, its weig g in water 1m increase, its weig g in water
em Housing Aluminum alloy Aluminum alloy Titanium alloy	Driving position built in external built in	Outer dia(mm) ø358 ø358 ø358	Length (mm) 511.4 390.4 511.4	Weight in air(KG) 17.5 14.8 19.2	water(KG) 10.5 9.5 12.2	model MCPBOF12M MCPBOF16M MCPBOF12M	dia 3/4" 3/4" 3/4"	bending outer dia 3" 3"	adds 3 for oil t adds 4 for oil t adds 3 for oil t	cha ube, ea 198g in a tube, ea 143g in a tube, ea 198g in a	ange ch additional air, adds 113 ich additional air, adds 158 ich additional air, adds 113 ich additional	g in water 1m increase, its weig g in water 1m increase, its weig g in water 1m increase, its weig g in water
em. Housing Aluminum alloy Aluminum alloy Titanium alloy	Driving position built in external built in	Outer dia(mm) ø358 ø358 ø358	Length (mm) 511.4 390.4 511.4	Weight in air(KG) 17.5 14.8 19.2	water(KG) 10.5 9.5 12.2	model MCPBOF12M MCPBOF16M MCPBOF12M	dia 3/4" 3/4" 3/4"	bending outer dia 3" 3"	adds 3 for oil t adds 4 for oil t adds 3 for oil t	cha ube, ea 198g in a tube, ea 143g in a tube, ea 198g in a	ange ch additional air, adds 113 ich additional air, adds 158 ich additional air, adds 113 ich additional	g in water 1m increase, its weig g in water 1m increase, its weig g in water 1m increase, its weig g in water
em Housing Aluminum alloy Aluminum alloy Titanium alloy	Driving position built in external built in	Outer dia(mm) ø358 ø358 ø358	Length (mm) 511.4 390.4 511.4	Weight in air(KG) 17.5 14.8 19.2	water(KG) 10.5 9.5 12.2	model MCPBOF12M MCPBOF16M MCPBOF12M	dia 3/4" 3/4" 3/4"	bending outer dia 3" 3"	adds 3 for oil t adds 4 for oil t adds 3 for oil t	cha ube, ea 198g in a tube, ea 143g in a tube, ea 198g in a	ange ch additional air, adds 113 ich additional air, adds 158 ich additional air, adds 113 ich additional	g in water 1m increase, its weig g in water 1m increase, its weig g in water 1m increase, its weig g in water
em Housing Aluminum alloy Aluminum alloy Titanium alloy	Driving position built in external built in	Outer dia(mm) ø358 ø358 ø358	Length (mm) 511.4 390.4 511.4	Weight in air(KG) 17.5 14.8 19.2	water(KG) 10.5 9.5 12.2	model MCPBOF12M MCPBOF16M MCPBOF12M	dia 3/4" 3/4" 3/4"	bending outer dia 3" 3"	adds 3 for oil t adds 4 for oil t adds 3 for oil t	cha ube, ea 198g in a tube, ea 143g in a tube, ea 198g in a	ange ch additional air, adds 113 ich additional air, adds 158 ich additional air, adds 113 ich additional	g in water 1m increase, its weig g in water 1m increase, its weig g in water 1m increase, its weig g in water
em Housing Aluminum alloy Aluminum alloy Titanium alloy	Driving position built in external built in	Outer dia(mm) ø358 ø358 ø358	Length (mm) 511.4 390.4 511.4	Weight in air(KG) 17.5 14.8 19.2	water(KG) 10.5 9.5 12.2	model MCPBOF12M MCPBOF16M MCPBOF12M	dia 3/4" 3/4" 3/4"	bending outer dia 3" 3"	adds 3 for oil t adds 4 for oil t adds 3 for oil t	cha ube, ea 198g in a tube, ea 143g in a tube, ea 198g in a	ange ch additional air, adds 113 ich additional air, adds 158 ich additional air, adds 113 ich additional	g in water 1m increase, its weig g in water 1m increase, its weig g in water 1m increase, its weig g in water
em Housing Aluminum alloy Aluminum alloy Titanium alloy	Driving position built in external built in	Outer dia(mm) ø358 ø358 ø358	Length (mm) 511.4 390.4 511.4	Weight in air(KG) 17.5 14.8 19.2	water(KG) 10.5 9.5 12.2	model MCPBOF12M MCPBOF16M MCPBOF12M	dia 3/4" 3/4" 3/4"	bending outer dia 3" 3"	adds 3 for oil t adds 4 for oil t adds 3 for oil t	cha ube, ea 198g in a tube, ea 143g in a tube, ea 198g in a	ange ch additional air, adds 113 ich additional air, adds 158 ich additional air, adds 113 ich additional	g in water 1m increase, its weig g in water 1m increase, its weig g in water 1m increase, its weig g in water
em Housing Aluminum alloy Aluminum alloy Titanium alloy	Driving position built in external built in	Outer dia(mm) ø358 ø358 ø358	Length (mm) 511.4 390.4 511.4	Weight in air(KG) 17.5 14.8 19.2	water(KG) 10.5 9.5 12.2	model MCPBOF12M MCPBOF16M MCPBOF12M	dia 3/4" 3/4" 3/4"	bending outer dia 3" 3"	adds 3 for oil t adds 4 for oil t adds 3 for oil t	cha ube, ea 198g in a tube, ea 143g in a tube, ea 198g in a	ange ch additional air, adds 113 ich additional air, adds 158 ich additional air, adds 113 ich additional	g in water 1m increase, its weig g in water 1m increase, its weig g in water 1m increase, its weig g in water
em Housing Aluminum alloy Aluminum alloy Titanium alloy	Driving position built in external built in	Outer dia(mm) ø358 ø358 ø358	Length (mm) 511.4 390.4 511.4	Weight in air(KG) 17.5 14.8 19.2	water(KG) 10.5 9.5 12.2	model MCPBOF12M MCPBOF16M MCPBOF12M	dia 3/4" 3/4" 3/4"	bending outer dia 3" 3"	adds 3 for oil t adds 4 for oil t adds 3 for oil t	cha ube, ea 198g in a tube, ea 143g in a tube, ea 198g in a	ange ch additional air, adds 113 ich additional air, adds 158 ich additional air, adds 113 ich additional	g in water 1m increase, its weig g in water 1m increase, its weig g in water 1m increase, its weig g in water
em Housing Aluminum alloy Aluminum alloy Titanium alloy	Driving position built in external built in	Outer dia(mm) ø358 ø358 ø358	Length (mm) 511.4 390.4 511.4	Weight in air(KG) 17.5 14.8 19.2	water(KG) 10.5 9.5 12.2	model MCPBOF12M MCPBOF16M MCPBOF12M	dia 3/4" 3/4" 3/4"	bending outer dia 3" 3"	adds 3 for oil t adds 4 for oil t adds 3 for oil t	cha ube, ea 198g in a tube, ea 143g in a tube, ea 198g in a	ange ch additional air, adds 113 ich additional air, adds 158 ich additional air, adds 113 ich additional	g in water 1m increase, its weig g in water 1m increase, its weig g in water 1m increase, its weig g in water
em Housing Aluminum alloy Aluminum alloy Titanium alloy Titanium alloy	Driving position built in external built in external	Outer dia(mm) Ø358 Ø358 Ø358 Ø358	Length (mm) 511.4 390.4 511.4	Weight in air(KG) 17.5 14.8 19.2	water(KG) 10.5 9.5 12.2	model MCPBOF12M MCPBOF16M MCPBOF12M	dia 3/4" 3/4" 3/4"	bending outer dia 3* 3* 3* 3*	adds 3 for oil t adds 4 for oil t adds 3 for oil t	cha ube, ea 198g in a tube, ea 143g in a tube, ea 198g in a	ange ch additional air, adds 113 ich additional air, adds 158 ich additional air, adds 113 ich additional	g in water 1m increase, its weig g in water 1m increase, its weig g in water 1m increase, its weig g in water
am Housing Aluminum alloy Aluminum alloy Titanium alloy Titanium alloy	Driving position built in external built in external	Outer dia(mm) Ø358 Ø358 Ø358 Ø358	Length (mm) 511.4 390.4 511.4 390.4	Weight in air(KG) 17.5 14.8 19.2 15.6	water(KG) 10.5 9.5 12.2 10.3	model MCPBOF12M MCPBOF16M MCPBOF16M MCPBOF16M	dia 3/4* 3/4* 3/4* 3/4*	bending outer dia 3* 3* 3* 3*	adds 3 for oil t adds 4 for oil t adds 3 for oil t	cha ube, ea 198g in a 143g in a 1ube, ea 143g in a 143g in a	ange ch additional air, adds 113, cch additional air, adds 158, cch additional air, adds 113, cch additional air, adds 158	g in water 1m increase, its weig g in water 1m increase, its weig g in water 1m increase, its weig g in water
am Housing Aluminum alloy Aluminum alloy Titanium alloy Titanium alloy	Driving position built in external built in external external control of the cont	Outer dia(mm) ø358 ø358 ø358	Length (mm) 511.4 390.4 511.4 390.4 Length	Weight in air(KG) 17.5 14.8 19.2 15.6 Weight in	water(KG) 10.5 9.5 12.2 10.3	model MCPBOF12M MCPBOF16M MCPBOF16M MCPBOF16M Connector	dia 3/4* 3/4* 3/4* 3/4* Oil tube	bending outer dia 3* 3* 3* 3*	adds 3 for oil t adds 4 for oil t adds 3 for oil t	cha ube, ea 198g in a tube, ea 198g in a tube, ea 143g in a	enge ch additional air, adds 113 cch additional air, adds 158 cch additional	g in water 1m increase, its weig g in water 1m increase, its weig g in water 1m increase, its weig g in water
Aluminum alloy Aluminum alloy Titanium alloy Titanium alloy Ervice depth em Housing	Driving position built in external briving position	Outer dia(mm) ø358 ø358 ø358 ø358	Length (mm) 511.4 390.4 511.4 390.4 Length (mm)	Weight in air(KG) 17.5 14.8 19.2 15.6 Weight in air(KG)	water(KG) 10.5 9.5 12.2 10.3 Weight in water(KG)	model MCPBOF12M MCPBOF16M MCPBOF16M MCPBOF16M Connector model	dia 3/4* 3/4* 3/4* 3/4* Oil tube dia	bending outer dia 3" 3* 3* 3*	adds 3 for oil t adds 4 for oil t adds 3 for oil t adds 4	cha ube, ea 198g in a tube, ea 198g in a tube, ea 143g in a 143g in a	enge ch additional air, adds 113 ich additional air, adds 158 ich additional	g in water 1m increase, its weig g in water
em. Housing Aluminum alloy Aluminum alloy Titanium alloy	Driving position built in external built in external external control of the cont	Outer dia(mm) ø358 ø358 ø358	Length (mm) 511.4 390.4 511.4 390.4 Length	Weight in air(KG) 17.5 14.8 19.2 15.6 Weight in	water(KG) 10.5 9.5 12.2 10.3	model MCPBOF12M MCPBOF16M MCPBOF16M MCPBOF16M Connector	dia 3/4* 3/4* 3/4* 3/4* Oil tube	bending outer dia 3* 3* 3* 3*	adds 3 for oil t adds 4 for oil t adds 3 for oil t adds 4	cha ube, ea 98g in a ube, ea 43g in a ube, ea 143g in a 143g in a	weight chadditional air, adds 113, adds 113, adds 158, and additional air, adds 158, and additional air, adds 158, adds 158, additional air, adds 158, additional air, adds 158, additional air, adds 158, additional air, adds 68, additional air, additional air, adds 68, additional air, additional	g in water 1m increase, its weig g in water
em Housing Aluminum alloy Aluminum alloy Titanium alloy Titanium alloy ervice depth em Housing	Driving position built in external built in external built in external built in external built in built in built in built in built in built in	Outer dia(mm) ø358 ø358 ø358 ø358 ø358	Length (mm) 511.4 390.4 511.4 390.4 Length (mm) 511.4	Weight in air(KG) 17.5 14.8 19.2 15.6 Weight in air(KG) 17.5	water(KG) 10.5 9.5 12.2 10.3 Weight in water(KG)	model MCPBOF12M MCPBOF16M MCPBOF16M MCPBOF16M Connector model	dia 3/4* 3/4* 3/4* 3/4* Oil tube dia 3/4*	bending outer dia 3 " 3 * 3 * 3 * Oil tube bending outer dia 3 "	adds 3 for oil t adds 4 for oil t adds 3 for oil t adds 4	cha ube, ea 198g in a tube, ea 198g in a tube, ea 143g in a 143g in a 153g in a ube, ea	weight change chadditional air, adds 113 ach additional air, adds 158 ach additional air, adds 113 ach additional air, adds 113 ach additional air, adds 68g ch additional air, adds 68g ch additional air, adds 68g ch additional	g in water 1m increase, its weig in water
Aluminum alloy Aluminum alloy Aluminum alloy Titanium alloy Titanium alloy Aluminum alloy Aluminum alloy Aluminum alloy	Driving position built in external	Outer dia(mm) Ø358 Ø358 Ø358 Ø358 Ø358 Ø358 Ø358 Ø358 Ø358 Ø358	Length (mm) 511.4 390.4 511.4 390.4 Length (mm) 511.4 390.4	Weight in air(KG) 17.5 14.8 19.2 15.6 Weight in air(KG) 17.5 15.4	water(KG) 10.5 9.5 12.2 10.3 Weight in water(KG) 10.5 9.6	model MCPBOF12M MCPBOF16M MCPBOF12M MCPBOF16M Connector model PBOF8M PBOF12M	dia 3/4* 3/4* 3/4* 3/4* Oil tube dia 3/4* 1.25"	outer dia 3" 3* 3* 3* Oil tube bending outer dia 3" 4.75"	for oil t adds 3 for oil t adds 3 for oil t adds 4	cha ube, ea 198g in a 143g in a 198g in a 198g in a 143g in a 153g in a 153g in a 153g in a 153g in a 153g in a 153g in a	weight change chaditional air, adds 113 ich additional air, adds 158 ich additional air, adds 113 ich additional air, adds 158 ich additional air, adds 158 ich additional air, adds 68g ch additional air, adds 68g ch additional air, adds 68g air, adds 68g ch additional air, adds 68g	g in water 1m increase, its weig in water 1m increase, its weig in water 1m increase, its weig in water
Aluminum alloy Aluminum alloy Aluminum alloy Titanium alloy Titanium alloy ervice depth em Housing Aluminum alloy	Driving position built in external built in external built in external built in external built in built in built in built in built in built in	Outer dia(mm) ø358 ø358 ø358 ø358 ø358	Length (mm) 511.4 390.4 511.4 390.4 Length (mm) 511.4	Weight in air(KG) 17.5 14.8 19.2 15.6 Weight in air(KG) 17.5	water(KG) 10.5 9.5 12.2 10.3 Weight in water(KG)	model MCPBOF12M MCPBOF16M MCPBOF16M MCPBOF16M Connector model PBOF8M	dia 3/4* 3/4* 3/4* 3/4* Oil tube dia 3/4*	bending outer dia 3 " 3 * 3 * 3 * Oil tube bending outer dia 3 "	for oil t adds 3 for oil t adds 3 for oil t adds 4	cha ube, ea 98g in a ube, ea 43g in a ube, ea 143g in a ube, ea 153g in a ube, ea 180be, ea	weight change chaditional air, adds 113 ich additional air, adds 158 ich additional air, adds 113 ich additional air, adds 158 ich additional air, adds 158 ich additional air, adds 68g ch additional air, adds 68g ch additional air, adds 68g air, adds 68g ch additional air, adds 68g	g in water 1m increase, its weig
Aluminum alloy Aluminum alloy Titanium alloy Titanium alloy ervice depth em Housing Aluminum alloy	Driving position built in external	Outer dia(mm) Ø358 Ø358 Ø358 Ø358 Ø358 Ø358 Ø358 Ø358 Ø358 Ø358	Length (mm) 511.4 390.4 511.4 390.4 Length (mm) 511.4 390.4	Weight in air(KG) 17.5 14.8 19.2 15.6 Weight in air(KG) 17.5 15.4	water(KG) 10.5 9.5 12.2 10.3 Weight in water(KG) 10.5 9.6	model MCPBOF12M MCPBOF16M MCPBOF12M MCPBOF16M Connector model PBOF8M PBOF12M	dia 3/4* 3/4* 3/4* 3/4* Oil tube dia 3/4* 1.25"	outer dia 3" 3* 3* 3* Oil tube bending outer dia 3" 4.75"	for oil t adds 4 for oil t adds 3 for oil t adds 4	cha ube, ea 198g in a tube, ea 198g in a tube, ea 143g in a 143g in a 153g in a ube, ea 180g in a 180g in a 180g in a 180g in a	weight change ch additional air, adds 113, adds 113, adds 158, and air, adds 158, and air, adds 158, and additional air, adds 158, additional air, adds 68g ch additional air, adds 68g ch additional air, adds 68g ch additional air, adds 68g and air, adds 68g and air, adds 68g and additional air, adds 68g	g in water 1m increase, its weig in water







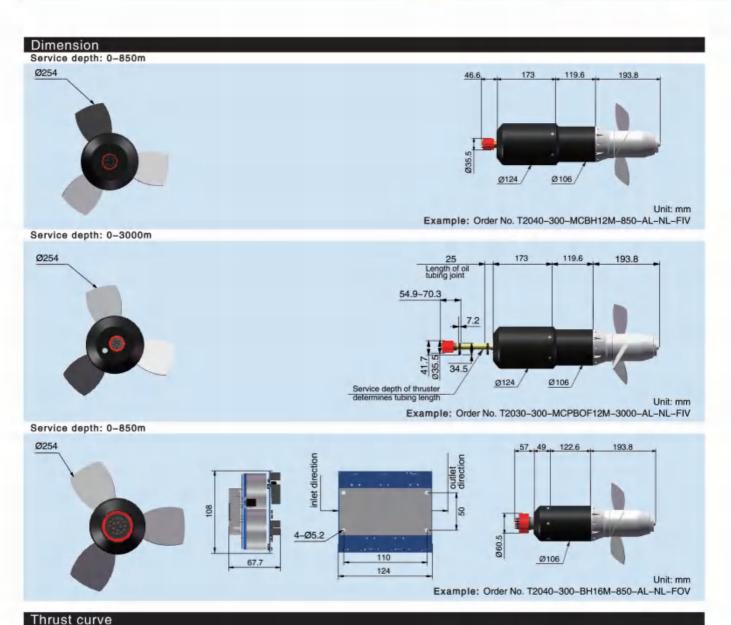


T2040 thruster

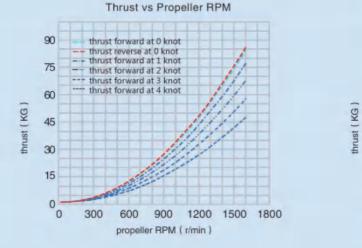
Technical paramete	rs					
1 Rated power	6.5kw					
2 Rated voltage	260VDC 3	300VDC	330VDC			
3 Max RPM	1600r/min					
4 Thrust	thrust forward	86 KG	thrust reverse	86 KG		
5 Nozzle	none					
6 Propeller handing	left O rig	ght C				
7 Material of propeller	stainless steel					
8 Housing	Aluminum alloy	Titanii	um alloy			
9 Seal	leakless, magn	etically couple	d			
10 Depth rating	0-850m	0-1500m	0-3000m	0-6000m	full ocean depth	service depth >850m, oil filled seal
11 Signal power	none					
12 Control made	analog voltage	control (0V	5V forward, 0V	5V reverse)		CAN
13 RPM feedback	pulse feedback	analog v	oltage feedback	CAN		
14 Temperature	storage tempe	erature: -40-	70℃ s	ervice temp	erature: -5-40°C	
15 Electronics	built-in ex	temal				

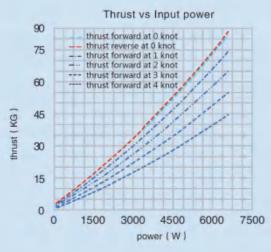
13 RPM fee		pulse fe	edback	analog vol	age feedback		ratura	5 40%	CAN
14 Tempera 15 Electron		built-in		ture: -40-7 nal	oo s	ervice tempe	rature: -	5~40 C	
Mechanical	param	eters							
Service depth: Item Housing	Driv		uter a(mm)		Weight in air(KG)	Weight in water(KG)	Connec	tor	Optional voltage(VDC)
1 Aluminum alk 2 Aluminum alk 3 Aluminum alk 4 Titanium alk 5 Titanium alk	buildy build by exterply building	tin Ø tin Ø rnal Ø tin Ø tin Ø	254 254 254 254 254	533 520 422.4 533 520	12.3 12.3 10.4 13.8 13.8	8.1 8.1 7.8 9.6 9.6	MCBHRA MCBHRA BH16M MCBH12 MCBHRA	MSS	260 300 330 260 300 330 260 300 330 260 300 330 260 300 330
6 Titanium allo	oy exte	mal ø	254	422.4	11.2	8.6	BH16MS	S	260 300 330
Service depth: Item Housing	Driving	Outer	Length	Weight in	Weight in	Connector	Oil tube	Oil tube bending	Weight
Aluminum alloy	position built in	dia(mm) ø254	(mm) 511.4	air(KG) 13.9	water(KG) 9.4	model MCPBOF12M	dia 3/4*	outer dia	change for oil tube, each additional 1m increase, its weig adds 398g in air, adds 113g in water
2 Titanium alloy	built in	Ø254	511.4	15.6	11.1	MCPBOF12M	3/4*	3"	for oil tube, each additional 1m increase, its weig adds 398g in air, adds 113g in water
Service depth: Item Housing	full oces Driving position	an depth Outer dia(mm)	Length (mm)	Weight in air(KG)	Weight in water(KG)	Connector	Oil tube	Oil tube bending outer dia	Weight change
1 Aluminum alloy	built in	ø254	511.4	13.9	9.4	PBOF8M	3/4"	3"	for oil tube, each additional 1m increase, its weig adds 353g in air, adds 68g in water
2 Aluminum alloy	external	ø254	393,4	11.8	8.5	PBOF16M	1.25"	4.75*	for oil tube, each additional 1m increase, its weig adds 925g in air, adds 133g in water
3 Titanium alloy	built in	ø254	511.4	15.6	11.1	PBOF8M	3/4"	3"	for oil tube, each additional 1m increase, its weig adds 353g in air, adds 68g in water
Titanium alloy	external		393.4	12.6	9.3	PBOF16M	1.25"	4.75*	for oil tube, each additional 1m increase, its weig adds 925g in air, adds 133g in water







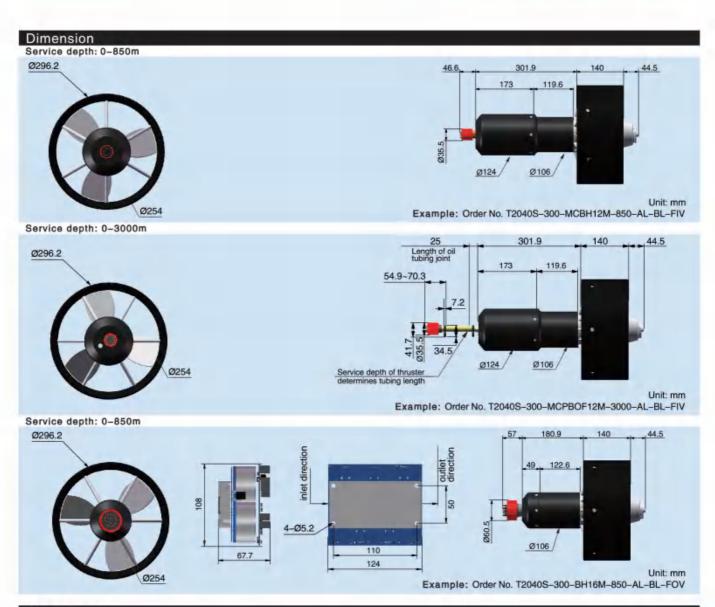




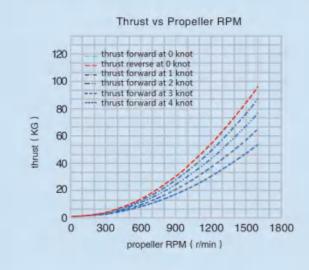
T2040S thruster

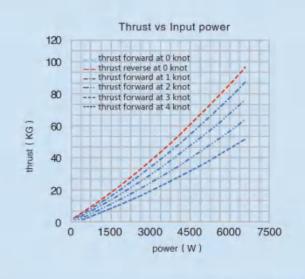
Technical paramete	rs					
1 Rated power	6.5kw					
2 Rated voltage	260VDC	300VDC	330VDC			
3 Max RPM	1600r/min					
4 Thrust	thrust forward	95 KG	thrust reverse	95 KG		
5 Nozzle	black					
6 Propeller handing	left O ri	ght O				
7 Material of propeller	stainless steel					
8 Housing	Aluminum allo	y Titan	ium alloy			
9 Seal	leakless, magr	netically coupl	ed			
10 Depth rating	0-850m	0-1500m	0-3000m	0-6000m	full ocean depth	service depth >850m, oil filled seal
11 Signal power	none					
12 Control made	analog voltage	control (0V-	+5V forward, 0V-	5V reverse		CAN
13 RPM feedback	pulse feedback	c ana	log voltage feedb	ack	CAN	
14 Temperature	storage temp	erature: -40	-70°C	service	emperature: -5-40°C	
15 Electronics	built-in ex	demal				

12 Control	power	none	voltage co	ntrol (OV~+5	V forward, 0V	~-5V reverse)			CAN
13 RPM fe			edback		yoltage feedl		CAN		
14 Temper				ture: -40-7	0°C	service te	mperatur	re: -5-40	T T
15 Electro	nics	built-in	exter	nal					
Mechanica	l param	eters							
Service depth									
Item Housing	Driv	ing O	outer ia(mm)	40 77	Weight in air(KG)	Weight in water(KG)	Connect	tor	Optional voltage(VDC) common mode
1 Aluminum al	lloy bui	It in	296.2	533	15.2	8.8	MCBH12	M	260 300 330
2 Aluminum al			296.2	520	15.2	8.8	MCBHRA	12M	260 300 330
3 Aluminum al 4 Titanium all			296.2	422.4	13.3	8.5	BH16M	100	260 300 330
4 Titanium all 5 Titanium all	-		296.2 296.2	533 520	16.7 16.7	10.3	MCBH12I MCBHRA		260 300 330 260 300 330
6 Titanium all			296.2	422.4	14.1	9.3	BH16MS		260 300 330
							ar mana		
Service depth	: 0-1500r	n & 0-300	00m & 0-	-6000m				Oil tube	
Item Housing	Driving position	Outer dia(mm)	Length (mm)	Weight in air(KG)	Weight in water(KG)	Connector model	Oil tube dia	bending outer dia	Weight change
1 Aluminum alloy	built in	ø296.2	511.4	16.8	10.1	MCPBOF12M	3/4"	3"	for oil tube, each additional 1m increase, its weigh adds 398g in air, adds 113g in water
2 Titanium alloy	built in	ø296.2	511.4	18.5	11.8	MCPBOF12M	3/4"	3*	for oil tube, each additional 1m increase, its weight adds 398g in air, adds 113g in water
Service depth	r: full oce	an depth						Oiltube	
	position	an depth Outer dia(mm)	Length (mm)	Weight in air(KG)	Weight in water(KG)	Connector model	Oil tube dia	Oil tube bending outer dia	Weight change
Item Housing	Driving position	Outer						bending	change for oil tube, each additional 1m increase, its weigh
Item Housing Aluminum alloy	Driving position built in	Outer dia(mm) ø296.2	(mm)	air(KG)	water(KG)	model	dia.	bending outer dia	change for oil tube, each additional 1m increase, its weigl adds 353g in air, adds 68g in water
Service depth Item Housing Aluminum alloy Titanium alloy	Driving position built in	Outer dia(mm) ø296.2	(mm) 511.4	air(KG) 16.8	water(KG) 10.1	model PBOF8M	dia 3/4"	bending outer dia 3"	change for oil tube, each additional 1m increase, its weigh adds 353g in air, adds 68g in water for oil tube, each additional 1m increase, its weigh







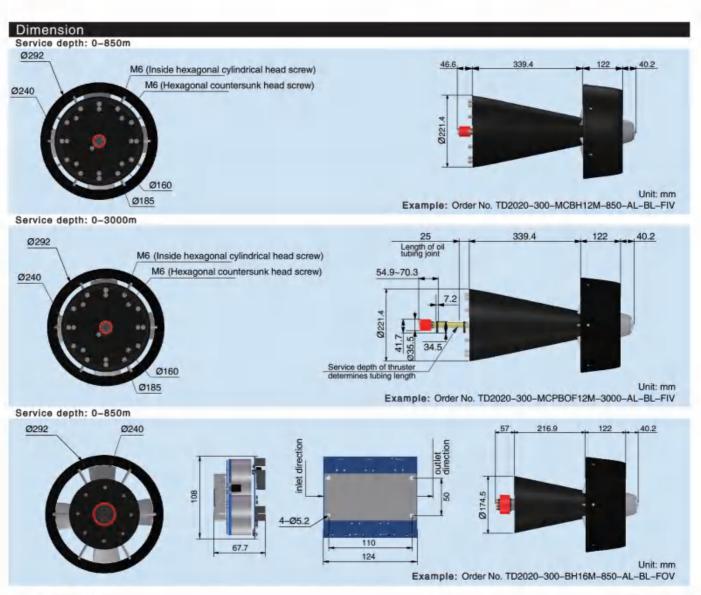


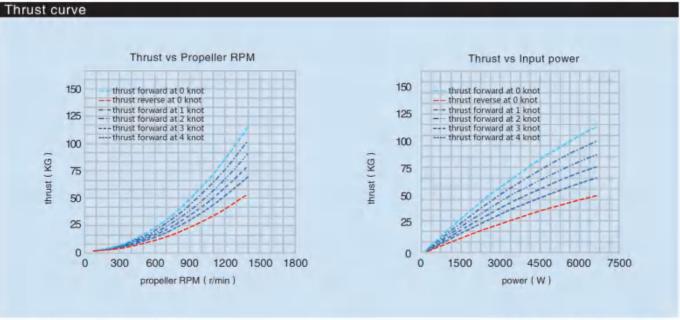
TD2020 thruster

Technical paramete	rs		
1 Rated power	6.5kw	*	
2 Rated voltage	260VDC 300VDC 33	30VDC	
3 Max RPM	1400r/min		
4 Thrust	thrust forward 115 KG	thrust reverse 53 KG	
5 Nozzle	black		
6 Propeller handing	left O right O		
7 Material of propeller	stainless steel		
8 Housing	Aluminum alloy Titanium a	alloy	
9 Seal	leakless, magnetically coupled		
10 Depth rating	0-850m 0-1500m 0-	-3000m 0-6000m full ocean depth	service depth >850m, oil filled seal
11 Signal power	none		
12 Control made	analog voltage control (0V~+5V	forward, 0V5V reverse)	CAN
13 RPM feedback	pulse feedback analo	og voltage feedback CAN	
14 Temperature	storage temperature: -40~709	c service temperature: -5~40°C	
15 Electronics	built-in external		

14 Temperatur 15 Electronics Mechanical parameters Service depth: 0- Item Housing 1 Aluminum alloy 2 Aluminum alloy 3 Aluminum alloy 4 Titanium alloy 5 Titanium alloy 6 Titanium alloy	arame -850m Driving position builting	built-in	exterr		o o s	ervice tempe	татыге:	3~40 C			
Mechanical passervice depth: 0- Item Housing 1 Aluminum alloy 2 Aluminum alloy 3 Aluminum alloy 4 Titanium alloy 5 Titanium alloy	arame -850m Drivi posit built	eters	uter								
tem Housing 1 Aluminum alloy 2 Aluminum alloy 3 Aluminum alloy 4 Titanium alloy 5 Titanium alloy	-850m Driving posit built built	ng O		Locath							
Service depth: 0- tem Housing 1 Aluminum alloy 2 Aluminum alloy 3 Aluminum alloy 4 Titanium alloy 5 Titanium alloy	-850m Driving posit built built	ng O		Longth							
1 Aluminum alloy 2 Aluminum alloy 3 Aluminum alloy 4 Titanium alloy 5 Titanium alloy	Driving position built	_		Longill			_				
2 Aluminum alloy 3 Aluminum alloy 4 Titanium alloy 5 Titanium alloy	built		a(mm)		Weight in air(KG)	Weight in water(KG)	Connect	or	Optional volt	age(VDC)	common mod
3 Aluminum alloy 4 Titanium alloy 5 Titanium alloy		in ø	292	548.2	21.1	12.1	MCBH12	M	260 300	330	
4 Titanium alloy 5 Titanium alloy	avior	in ø	292	535.2	21.1	12.1	MCBHRA	12M	260 300	330	
5 Titanium alloy	exter		292	436.2	15.2	10	BH16M		260 300	330	
	built		292	548.2	26.7	22.7	MCBH12N MCBHRA	1.59	260 300	330	
o manuficanoy	built		292 292	535.2 436.2	26.7 17.8	12.6	BH16MSS		260 300 260 300	330	
	exteri	nai w	-0-	400.2	17.0	12.0	DITTONISC	9	200 300	000	
Service depth: 0-	1500m	8 U-3UU	0m & 0	6000m							
The second secon		Outer	Length	Weight in	Weight in	Connector	Oil tube	Oil tube bending	We	iaht	
		dia(mm)	(mm)	air(KG)	water(KG)	model	dia	outer dia		inge	
Aluminum alloy bu	uilt in	ø292	526.7	23.3	14.1	MCPBOF12M	3/4"	3"	for oil tube, ea	ch additional	1m increase, its weigh in water
The second second) in water 1m increase, its weigl
2 Titanium alloy bu	uilt in	ø292	526.7	29	19.8	MCPBOF12M	3/4"	3.	adds 398g in a		
Service depth: fu		100	403.7					Oil tube			
	riving	Outer dia/mm)	Length	Weight in	Weight in	Connector	Oil tube	bending		Weight	
	osition	dia(mm)	(mm)	air(KG)	water(KG)		dia	outer dia		change chadditional	1m increase, its weigh
Aluminum alloy b	uilt in	ø292	526.7	23.3	14.1	PBOF8M	3/4"	3"	adds 353g in a	air, adds 68g	in water
Aluminum alloy e	xternal	ø292	407.2	17	11.1	PBOF16M	1.25"	4.75*	for oil tube, ea adds 925g in a	ch additional air, adds 133c	1m increase, its weight in water
Titanium alloy be	uilt in	ø292	526.7	29	19.8	PBOF8M	3/4"	3"	for oil tube, ea	ch additional	1m increase, its weig
A TOTAL OF THE PARTY OF THE PAR									adds 353g in a		in water 1m increase, its weig
Titanium alloy ex	xternal	ø292	407.2	19.6	13.9	PBOF16M	1.25"	4.75*	adds 925g in a		







260 300

330

4.3kw

TZ2030 thruster

15 Electronics

9 Titanium alloy

10 Titanium alloy

chnical paramete	rs				
1 Rated power	4.3kw				·
2 Rated voltage	36VDC 260V	DC 300VDC	330VDC		
3 Max RPM	1400r/min				
4 Thrust	thrust forward 97 K	G thrus	st reverse 51 KG		
5 Nozzle	black				
6 Propeller handing	left O right	C			
7 Material of propeller	stainless steel				
8 Housing	Aluminum alloy	Titanium alloy			
9 Seal	leakless, magnetica	illy coupled			
0 Depth rating	0-850m 0-15	600m 0-3000n	n 0-6000m	full ocean depth	service depth >850m, oil filled seal
1 Signal power	none				
2 Control made	analog voltage contr	rol (0V~+5V forward	d, 0V~-5V reverse)		CAN
3 RPM feedback	pulse feedback	analog vo	ltage feedback	CAN	
4 Temperature	storage temperatu	re: -40-70°C	service temp	erature: -5-40°C	

Mechanical pa Service depth: 0-									
Item Housing	Driving position	Outer dia(mm)	Length (mm)	Weight in air(KG)	Weight in water(KG)	Connector model	Optiona	l volta	ge(VDC) common mode
1 Aluminum alloy	built in	ø358	512.7	16.9	10.3	HPBH4M+MCBH4M	36		
2 Aluminum alloy	built in	ø358	536.8	16.8	10.2	MCBH12M	260	300	330
3 Aluminum alloy	built in	ø358	523.8	16.8	10.2	MCBHRA12M	260	300	330
4 Aluminum alloy	external	ø358	409.2	15.4	9.7	MCBH16M	260	300	330
5 Aluminum alloy	external	ø358	395	15.4	9.7	MCBHRA16M	260	300	330
6 Titanium alloy	built in	ø358	512.7	18	11.4	HPBH4MSS+MCBH4MSS	36		
7 Titanium alloy	built in	ø358	536.8	17.9	11.3	MCBH12MSS	260	300	330
8 Titanium alloy	built in	ø358	523.8	17.9	11.3	MCBHRA12MSS	260	300	330
the same of the same of				1 4 4	To be the				

10.6

10.6

MCBH16MSS

MCBHRA16MSS

Note: Rated voltage 36VDC only for built-in non oil-filled thrusters

external

ø358

409.2

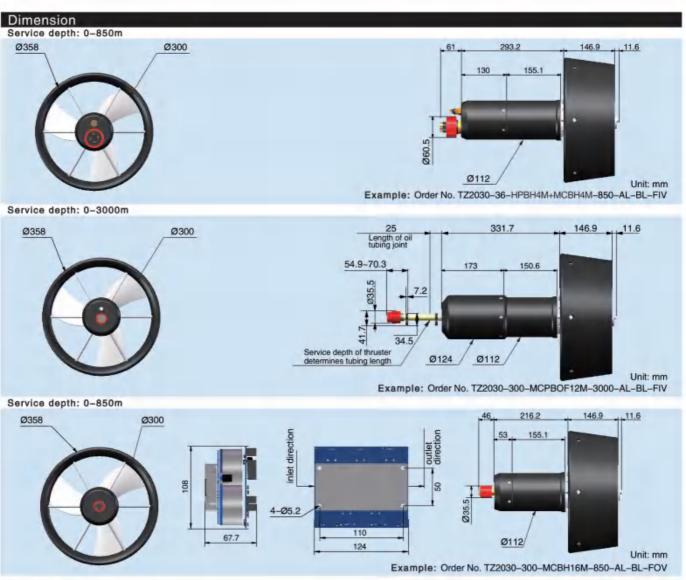
16.3

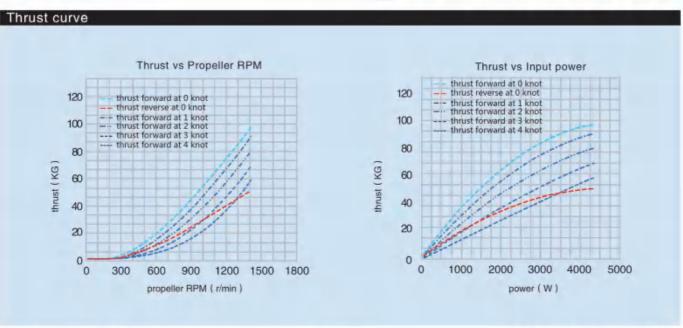
16.3

built-in

Service depth: Item Housing	0-1500m Driving position	Outer dia(mm)	Om & 0- Length (mm)	6000m Weight in air(KG)	Weight in water(KG)	Connector	Oil tube	Oil tube bending outer dia	Weight change
1 Aluminum alloy	built in	ø358	515.2	18.1	11.3	MCPBOF12M	3/4"	3"	for oil tube, each additional 1m increase, its weight adds 398g in air, adds 113g in water
2 Aluminum alloy	external	ø358	391.2	15.9	9.9	MCPBOF16M	3/4*	3"	for oil tube, each additional 1m increase, its weight adds 443g in air, adds 158g in water
3 Titanium alloy	built in	ø358	515.2	19.2	12.4	MCPBOF12M	3/4"	3"	for oil tube, each additional 1m increase, its weight adds 398g in air, adds 113g in water
4 Titanium alloy	external	ø358	391.2	17	11	MCPBOF16M	3/4"	3,	for oil tube, each additional 1m increase, its weigh adds 443g in air, adds 158g in water
Service depth:		AND DESCRIPTION OF THE PERSON	7					Oil tube	with a
Item Housing	Driving position	Outer dia(mm)	Length (mm)	Weight in air(KG)	Weight in water(KG)	Connector model	Oil tube dia	bending outer dia	Weight change
1 Aluminum alloy	built in	ø358	515.2	18.1	11.3	PBOF8M	3/4"	3"	for oil tube, each additional 1m increase, its weight adds 353g in air, adds 68g in water
2 Aluminum alloy	external	ø358	394.2	16.6	10.2	PBOF12M	1.25"	4.75*	for oil tube, each additional 1m increase, its weight adds 880g in air, adds 88g in water
3 Titanium alloy	built in	ø358	515.2	19.2	12.4	PBOF8M	3/4"	3"	for oil tube, each additional 1m increase, its weight adds 353g in air, adds 68g in water
4 Titanium alloy	external	ø358	394.2	17.5	11.1	PBOF12M	1.25"	4.75*	for oil tube, each additional 1m increase, its weight adds 880g in air, adds 88g in water

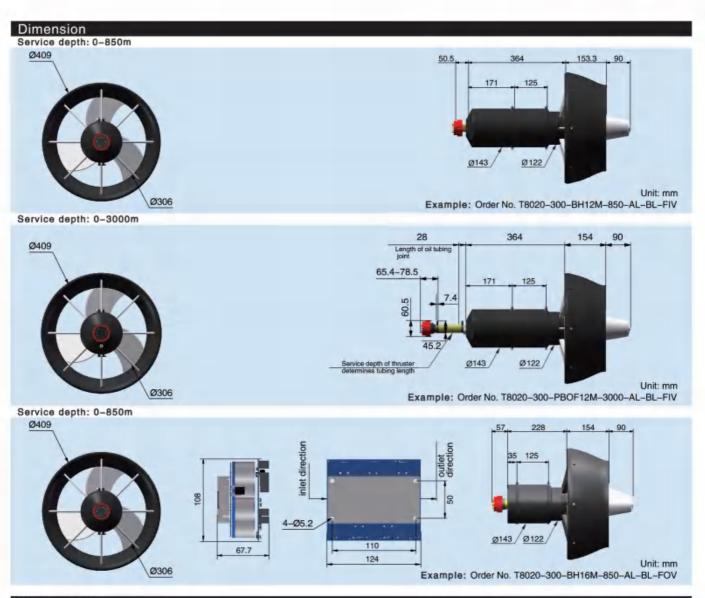




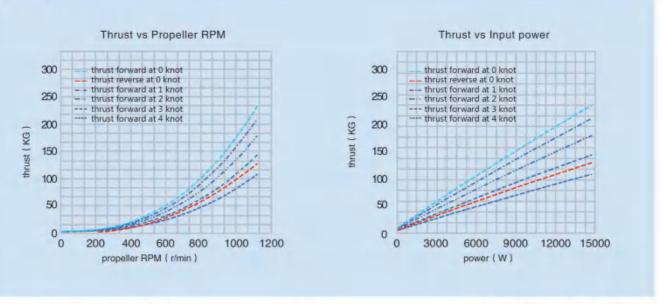


T8020 thruster

10020									
Technical p		14.5kw							
1 Rated p 2 Rated v		300VD							
3 Max RP	-	1150r/r							
4 Thrust			orward 23	0 KG	thrust reverse	130 KG			
5 Nozzle		black							
6 Propeller			O right	С					
7 Material o	the state of the s			Titonius	o ollow				
8 Housing 9 Seal		-	um alloy	Titaniun cally coupled					
10 Depth ra	ating	0-850r			0-3000m	0-6000m	full ocean	depth	service depth>850m, oil filled seal
11 Signal p		none							
12 Control	made	analog	voltage co			~-5V reverse)			CAN
13 RPM fee			eedback		voltage feedb		CAN	00	
14 Tempera		storag built in		ture: -40~7	OC se	ervice tempe	rature: -5	5~40°C	
15 Electron	iics	Dulit Iri	exit	arrial					
Acchanica	lnorom	otoro							
/lechanica		eters							
ervice depth:					***	Maria by to			0.00.00.00.00.00.00.00.00.00.00.00.00.0
em Housing	Driv	_	Outer		Weight in	Weight in water(KG)	Connect	tor	Optional voltage(VDC) common mode
d. Alcondecime all	******		ia(mm) 8409	658	air(KG) 28.1	17.5	BH12M		200
 Aluminum all Aluminum all 			8409 8409	529	24.9	16.9	BH16M		300
3 Titanium all		C. D. Service	z409	658	35.8	25.2	BH12MS	S	300
4 Titanium all			ø409	529	26.9	18.9	BH16MS		300
Service depth:	0_1500m	8 n_3nr	00m & 0	6000m					
tem Housing	Driving	Outer	Length	Weight in	Weight in	Connector	Oil tube	Oil tube bending	Weight
telli nousing	position	dia(mm)	(mm)	air(KG)	water(KG)	model	dia	outer dia	change
Aluminum alloy	built in	ø409	636	30.3	17.6	PBOF12M	1.25"	4.75"	
Aluminum alloy	Dunt in	10409	030	30.3	17.0	PDOFIZM	1.20	4.75	for oil tube, each additional 1m increase, its weigh adds 880g in air, adds 88g in water
Titanium alloy	built in	ø409	636	38	25.3	PBOF12M	1.25"	4.75"	for oil tube, each additional 1m increase, its weigh adds 880g in air, adds 88g in water
									addo doog in dii, addo dog in water
Service depth	: full ocea	in depth						Oil tube	
em Housing	Driving	Outer	Length			Connector	Oil tube	bending	Weight
	position	dia(mm)	(mm)	air(KG)	water(KG)	model	dia	outer dia	change
Aluminum alloy	external	ø409	500	26.1	17	PBOF16M	1.25"	4.75*	for oil tube, each additional 1m increase, its weigh adds 925g in air, adds 133g in water
Titanium alloy	external	ø409	500	28.2	19	PBOF16M	1.25"	4.75*	for oil tube, each additional 1m increase, its weigh
Harman andy	external	X7400	500	EUE	10	1 DOI TOW	1,60	4.70	adds 925g in air, adds 133g in water



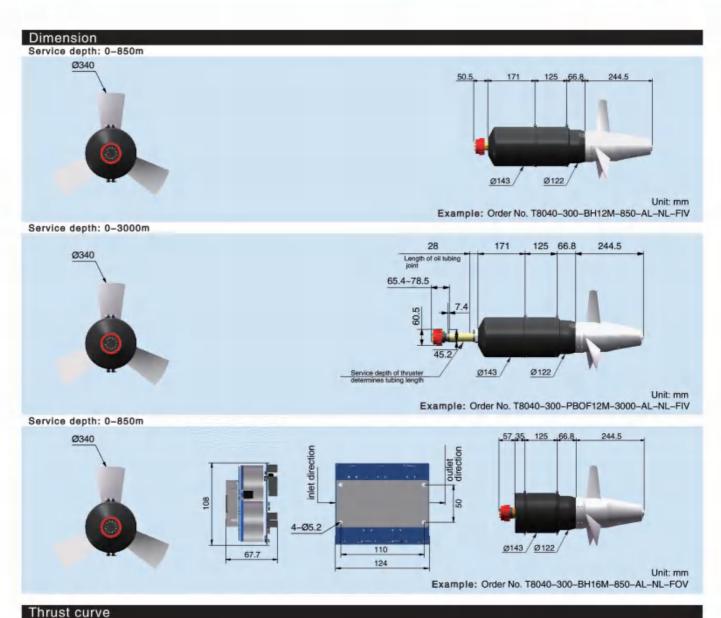




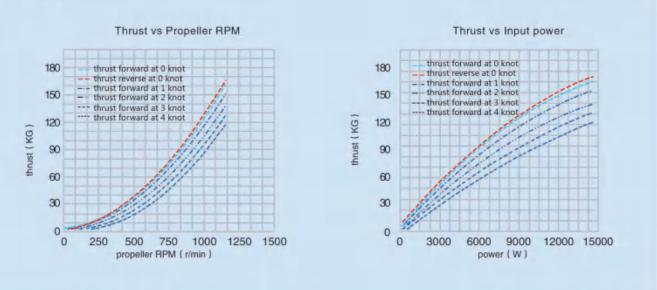
T8040 thruster

Technical p									
1 Rated po		14.5kw							
2 Rated vo		300VD0	_						
3 Max RPI 4 Thrust	VI		orward 168	5 KG	thrust reverse	165 KG			
5 Nozzle		none							
6 Propeller			right	0					
7 Material of	propeller	stainless		Theres	n alla				
8 Housing 9 Seal		Aluminu		Titaniun ally coupled					
10 Depth ra	ting	0-850n		1500m	0-3000m	0-6000m	full ocean	depth	service depth >850m, oil filled seal
11 Signal pe	~	none			0 000000	0 000000	14111 5555111	sispini.	Control Copies Copies on Mice Copies
12 Control r						5V reverse)			CAN
13 RPM fee			edback		g voltage feedb		CAN	1090	
14 Tempera 15 Electroni		built in		ture: -40~7 emal	UC Se	rvice tempe	rature: -5	5~40 C	
15 Liectroni	Co		9711						
Mechanical	narame	ters							
Service depth:		1013					_	_	
tem Housing	Drivin	ng O	uter	Length	Weight in	Weight in	Connec	tor	Optional voltage(VDC)
3	posit		a(mm)		air(KG)	water(KG)	model	-17	common mode
1 Aluminum alk	built	in ø	340	658	20.8	14.1	BH12M		300
2 Aluminum alk			340	529	18.3	13.3	BH16M		300
3 Titanium allo 4 Titanium allo	*		340	658	23	16.2	BH12MS		300
4 Hanium allo	y exter	nai 2	340	529	20	15	BH16MS	0	300
Service depth:	0-1500m	& 0-300	0m & 0-	-6000m				Oil tube	
tem Housing		Outer	Length	Weight in	Weight in	Connector	Oil tube	bending	Weight
	position (dia(mm)	(mm)	air(KG)	water(KG)	model	dia	outer dia	change
Aluminum alloy	built in	ø340	636	23	14.2	PBOF12M	1.25"	4.75"	for oil tube, each additional 1m increase, its weight adds 880g in air, adds 88g in water
Titanium allau	built in	ø340	coc	OF	160	PBOF12M	1 05"	4 75"	for oil tube, each additional 1m increase, its weight
Titanium alloy	built in	90340	636	25	16.3	PBOFIZW	1.25"	4.75"	adds 880g in air, adds 88g in water
		4							
Service depth:				140	147-5-4-5		0111	Oil tube	Wells
tem Housing	Driving	Outer	Length (mm)			Connector	Oil tube	bending	Weight
Alexander	position	dia(mm)	(mm)	air(KG)	water(KG)		dia	outer dia	change for oil tube, each additional 1m increase, its weigh
Aluminum alloy	external	ø340	500	19.5	13.4	PBOF16M	1.25"	4.75*	adds 925g in air, adds 133g in water
Titanium alloy	external	ø340	500	21.2	15.1	PBOF16M	1.25"	4.75*	for oil tube, each additional 1m increase, its weight adds 925g in air, adds 133g in water
									man and a real man range and a real



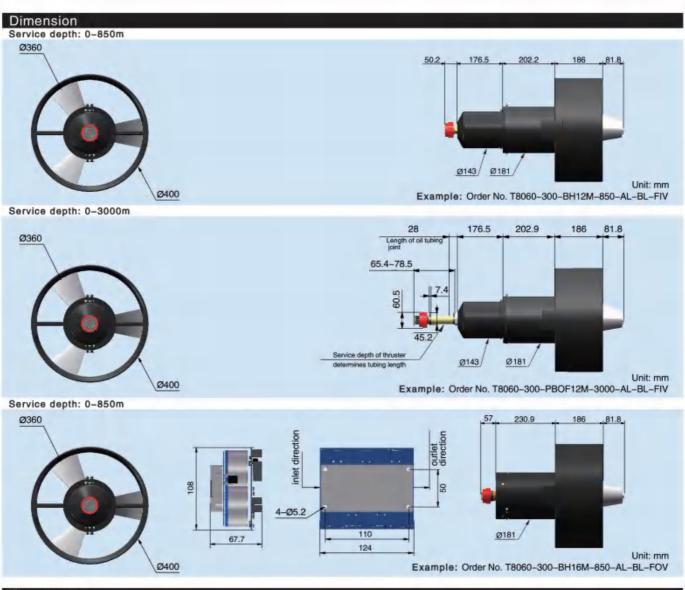




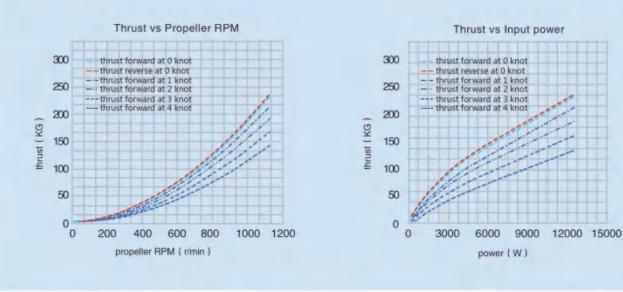


T8060 thruster

10000	unit	JOLG							
Technical p									
1 Rated p		12.5kw							
2 Rated v		300VD 1127r/r							
3 Max RP 4 Thrust	IVI		orward 236	KG KG	thrust reverse	236 KG			
5 Nozzle		black	orward Ede	, na	tinust reverse	200 NO			
6 Propeller	handing	left () right	C					
7 Material o		stainles	_						
8 Housing	and the second second	Alumin	um alloy	Titaniu	m alloy				
9 Seal		leakles	s, magnetic	cally coupled	1				
10 Depth ra		0-850r	n 0–1	500m	0-3000m	0-6000m	full ocean	depth	service depth >850m, oil filled seal
11 Signal p		none							1
12 Control						/5V reverse)		***	CAN
13 RPM fee			eedback	ture: -40-7	g voltage feed	ervice tempe		AN AN	
15 Electron		built in		emal	00 5	ervice tempe	rature	3-40-0	
/lechanical	param	eters							
ervice depth:									
tem Housing	Driv	ina C	Outer	Length	Weight in	Weight in	Connec	tor	Optional voltage(VDC)
		_	ia(mm)		air(KG)	water(KG)	model		common mode
1 Aluminum all	-		ø400	697	39.4	22.4	BH12M		300
2 Aluminum all			2400	556	37	21	BH16M		300
3 Titanium alle			z400	697	44	27	BH12MS	S	300
4 Titanium alle	,		ø400	556	41.5	25.5	BH16MS		300
service depth:	0-1500n	& 0-300	00m & 0-	6000m				Oil tube	
em Housing	Driving	Outer	Length	Weight in	Weight in	Connector	Oil tube	bending	Weight
	position	dia(mm)	(mm)	air(KG)	water(KG)	model	dia	outer dia	change
Aluminum alloy	built in	ø400	675	41.6	22.5	PBOF12M	1.25"	4.75"	for oil tube, each additional 1m increase, its weight adds 880g in air, adds 88g in water
radificati day	Mant III	W-100	0/0	7110	ELIO	T DOT TEIN	1,20	4.70	
Titanium alloy	built in	ø400	675	46.2	27.2	PBOF12M	1.25"	4.75"	for oil tube, each additional 1m increase, its weight adds 880g in air, adds 88g in water
									adds doog in air, adds dog in water
	4.11	n done						150 - 1	
ervice depth					11111111		-	Oil tube	14111111
em Housing	Driving	Outer	Length	Weight in		Connector	Oil tube	bending	Weight
	position	dia(mm)		air(KG)	water(KG)	3116.8161	dia	outer dia	change for oil tube, each additional 1m increase, its weight
Aluminum alloy	external	ø400	526	38.5	21.2	PBOF16M	1.25"	4.75*	adds 925g in air, adds 133g in water
Titanium alloy	external	ø400	526	43	25.7	PBOF16M	1.25"	4.75"	for oil tube, each additional 1m increase, its weight
			10000						adds 925g in air, adds 133g in water







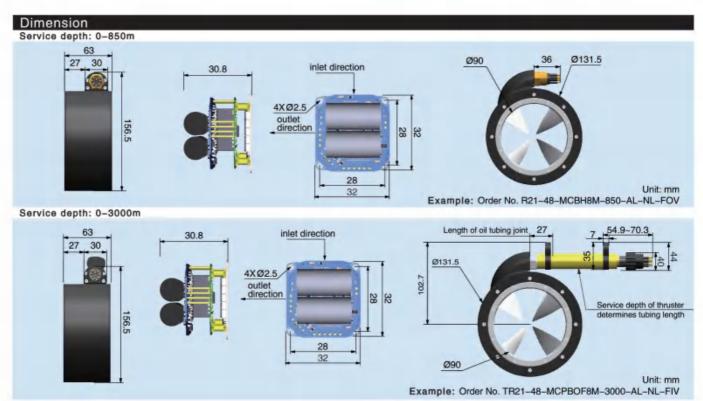
RIM thruster

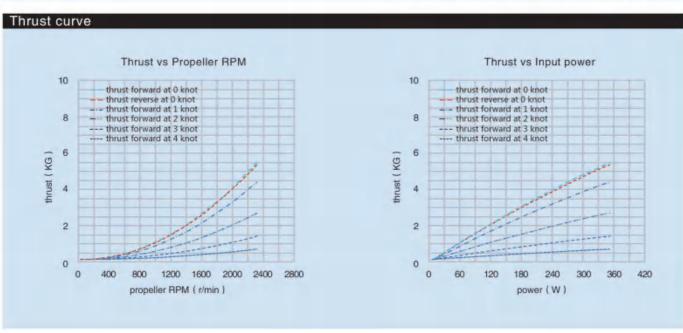


M thrustor

Technical p		ters													
1 Rated p	ower	350W	1												
2 Rated v		48VD		2VDC	100VDC	150VDC	200VDC	240	VDC	30	00VDC				
3 Max RP	M	2300	r/min t forward 5	EVO	the est or est	FEVO									
4 Thrust 5 Nozzle		none	Torward 5	.5 KG	thrust reverse	5.5 KG									
6 Propeller	handing		O righ	t C											
7 Material o			less steel												
8 Housing			inum allo		nium alloy										
9 Seal				netically cou		0.0000	A. 11	de ette		an ken	1		forder	-1	
10 Depth ra 11 Signal p		0-85		-1500m 12VDC(±5%	0-3000m	0-6000m	full ocean	depth	5	service	depth >15	00m, oi	filled se	al	
12 Control						rd, 0V~-5Vre	verse)			C	AN				
13 RPM fee			e feedbac		alog voltage		CAN			-					
14 Tempera				rature: -40~7	70°C	service tem	perature:	-5~40%	0						
15 Electron	ics	exter	nal												
/lechanical	naram	eters													
Service depth:			0m												
Item Housing	Driv		Outer	Length	Weight in	Weight in	Connec	tor	Op	tional	voltage	(VDC)	-	ommon	model
	pos	ition	dia(mm)	(mm)	air(KG)	water(KG)	model								
1 Aluminum alk		ernal	ø131.5	63	2.0	1.5	MCBH8N		48	72	100	150	200	240	30
2 Aluminum alk		ernal	Ø131.5	63 63	2.1	1.6 1.9	MCBHRA MCBH8M		48	72	100	150	200	240	300
3 Titanium allo 4 Titanium allo		ernal ernal	Ø131.5	63	2.5	2.0	MCBHRA		48	72 72	100	150	200	240	300
4 Manari and	y CAR	illai	6101.0	00	2.0	2.0	WODITIO	OUNGO	40	12	100	150	200	240	301
Service depth:	0_3000	n & 0_60	000m					011.1							
tem Housing	Driving	Outer	Length	Weight in	Weight in	Connector	Oil tube	Oil tube bending			Weight				
The state of the s	position	dia(mm)	(mm)	air(KG)	water(KG)	model	dia	outer di			change				
Titanium alloy	external	ø156.5	63	2.7	2.1	MCPBOF8M	3/4"	3"	fc	r oil tub	e, each a	dditional	1m incre	ase, its v	veight
.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,									a	das 353	3g in air, a	ටගින පහල	in water		
			-												
Service depth:	full oces	an depth						Oil tube	9						
tem Housing	Driving	Outer	Lengt			Connector	Oil tube	bendin			Wei	-			
	position	dia(mn	n) (mm)	air(KG)	water(KG) model	dia	outer d			cha	nge			







Rotary actuator



Rotary actuator

300w

Z20 Rotary actuator

Rated power	300w	701/00	OFWDO	100/100	450VD0	0001/00	0501/00	0001/00
2 Rated voltage	48VDC	70VDC	85VDC	100VDC	150VDC	200VDC	250VDC	300VDC
3 Max RPM-rated	100r/min-10	N.m	70r/min-	17N.m	43r/min-27f	V.m	35r/min-34l	N.m
torque	29r/min-40f	V.m	20r/min-	47N.m				
4 Housing	Aluminum a	lloy Tita	anium alloy					
5 Depth rating	0-50m	full ocean d	lepth					
6 Signal power	supply volta	ge is 12VDC(:	±5%),≤220m	A				
7 Control made	analog volta	age control (0	V-+5V forward	d, 0V5V reverse	9)		CAN	
8 RPM feedback	pulse feedba	ack a	nalog voltage	feedback	CAN			
9 Electronics	built in							
10 Temperature	storage ten	nperature: -4	0~70°C	service ter	nperature: -5	-40°C		

Service depth	: 0-50m							Oil tube								
Item Housing	Driving position	Outer dia(mm)		Weight in air(KG)	Weight in water(KG)	Connector model	Oil tube dia	bending outer dia	Voltage level							
1 Aluminum alloy	built in	ø79	208	2.2	1.8	MCPBOF8M	3/4"	3"	48	70	85	100	150	200	250	300
2 Titanium alloy	built in	ø79	208	2.8	2.3	MCPBOF8M	3/4"	3"	48	70	85	100	150	200	250	300

Note: for oil tube of connector MCPBOF8M, each additional 1m increase, its weight adds 353g in air, adds 68g in water;

Service depth: full ocean depth																
Item Housing	Driving position	Outer dia(mm)	Length (mm)	Weight in air(KG)	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Connector model	Oil tube dia	bending outer dia		Weigl						
1 Aluminum alloy	built in	ø79	208	2.2	1.8	PBOF8M	3/4"	3"	48	70	85	100	150	200	250	300
2 Titanium alloy	built in	ø79	208	2.8	2.3	PBOF8M	3/4"	3"	48	70	85	100	150	200	250	300

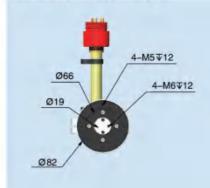
Note: for oil tube of connector PBOF8M, each additional 1m increase, its weight adds 353g in air, adds 68g in water;

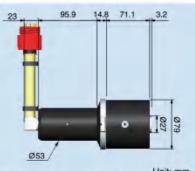
Dimension

Service depth: 0-50m



Service depth: full ocean depth





14.8 71.1

079

Example: Order No. Z20-48-PBOF8M-FOD-AL-BL-FIV



400w

Z61 Rotary actuator

1 Rated power	400w								
2 Rated voltage	24VDC 4	18VDC	70VDC	85VDC	100VDC	150VDC	200VDC	250VDC	300VDC
3 Max RPM-rated	80r/min-25N.m		50r/min-40	0N.m	40r/min-50f	N.m	30r/min-60f	N.M	
torque	25r/min-80N.m								
4 Housing	Aluminum alloy	Titaniu	um alloy						
5 Depth rating	0-50m	full ocean d	epth						
6 Signal power	supply voltage is	s 12VDC (±	5%), currer	nt ≤250mA					
7 Control made	analog voltage	control (0V-	-+5V forward,	0V-5V revers	e)		CAN		
8 RPM feedback	pulse feedback	ana	alog voltage fe	eďback	CAN				
9 Encoder	12-bit accuracy	, absolute 0-	-5V analog an	gle feedback					
10 Electronics	built in								
11 Temperature	storage tempe	rature: -40-	~70°C	service terr	perature: -5~40	00			

Mechanical	param	eters											
Service depth:	0-50m												
Item Housing	Driving position	Outer dia(mm)	Length (mm)	Weight in air(KG)	Weight in water(KG)	Connector model	Oil tube dia	Oil tube bending outer dia	,	/oltag	e leve	T	
1 Aluminum alloy	built in	ø106	225	4.8	3.2	MCPBOF8M	3/4"	3"	150	200	250	300	
2 Aluminum alloy	built in	ø106	225	4.8	3.2	MCPBOF12M	3/4"	3"	24	48	70	85	100
3 Titanium alloy	built in	ø106	225	6.0	4.4	MCPBOF8M	3/4"	3"	150	200	250	300	
4 Titanium alloy	built in	ø106	225	6.0	4.4	MCPBOF12M	3/4"	3"	24	48	70	85	100

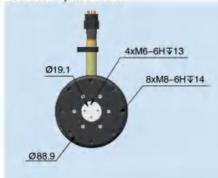
Note: for oil tube of connector MCPBOF8M, each additional 1m increase, its weight adds 353g in air, adds 68g in water; for oil tube of connector MCPBOF12M, each additional 1m increase, its weight adds 398g in air, adds 113g in water

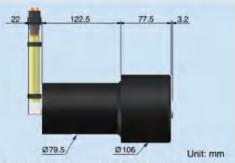
Service dept	h: full o	cean de	pth					Oil tube									
Item Housing		Outer dia(mm)			Weight in water(KG)		Oil tube dia	bending outer dia				Voltag	e leve	el			
1 Aluminum alloy	built in	ø106	225	4.8	3.2	PBOF8M	3/4"	3"	48	70	85	100	150	200	250	300	
2 Titanium alloy	built in	ø106	225	6.0	4.4	PBOF8M	3/4"	3"	48	70	85	100	150	200	250	300	

Note: for oil tube of connector PBOF8M, each additional 1m increase, its weight adds 353g in air, adds 68g in water;

Dimension

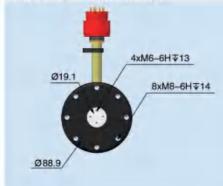
Service depth: 0-50m

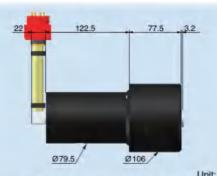




Example: Order No. Z61-48-MCPBOF12M-50-AL-BL-FIV

Service depth: full ocean depth





Example: Order No. Z61-48-PBOF8M-FOD-AL-BL-FIV

AUV thruster



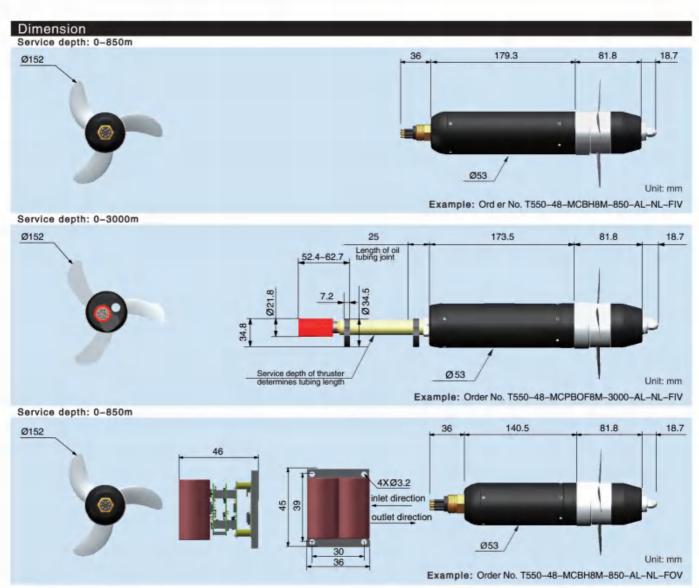
900W

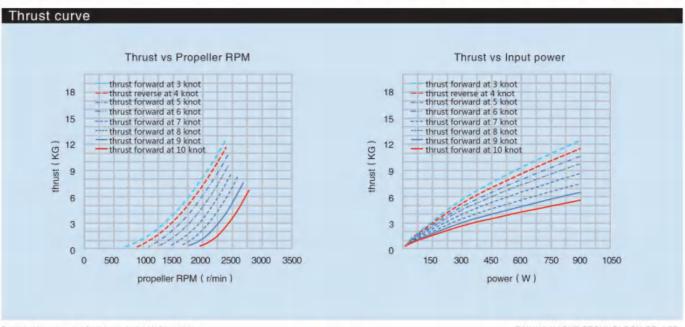
T550 AUV thruster

Technical paramete	ers								
1 Rated power	900W			- 11					
2 Rated voltage	48VDC	60VDC	72VDC	100VDC:	120VDC	160VDC	200VDC	260VDC	300VDC
3 Max RPM	2000r/min								
4 Thrust	thrust forward	ard 13.5 KG	thrust revers	e 85 KG					
5 Nozzle	none								
6 Propeller handing	left O	right G							
7 Material of propeller	stainless st	eel							
8 Housing	Aluminum	alloy Tita	nium alloy						
9 Seal	leakless, m	agnetically coup	oled						
10 Depth rating	D-850m	0-1500m	D-3000m	0-6000m	full ocean de	epth	service de	epth >1500m. a	filled seal
11 Signal power	supply volt	age is 12VDC(s	5%).≤250mA						
12 Control mode	analog volt	tage control (0)	-+5V forward, 0	V-5V reverse	1		CAN		
13 RPM feedback	pulse feedt	back and	alog voltage feed	fback C	AN				
14 Temperature	storage te	imperature: -4	0-70°G	service	temperature	: -5-40°C			
15 Electronics	built in	external							

14 Tempera		470 1077		ature: -40-1	70'G	service te	mperature	2: -5-40	G					
15 Electron	ics	built in	ex	temal										
Mechnical p	arame	ters												
Service depth:			m											
Item Housing	Drivin	10.00			Veight in Jr(KG)	Weight in water(KG)	Connecto	or	Optio	nal vo	iltage(V	DC)	can	nmon mode
1 Aluminum alloy	built	in øts	52	316	2.0	1.4	МСВН6М		200	250	300			
2 Aluminum alloy	/ built	in øts	52	316	2.0	1.4	MCBH8M		48	60	72	100	120	160
3 Aluminum alloy				304	2.0	1.4	MCBHRA		200	250	300			
4 Aluminum alloy				304	2.0	1.4	MCBHRA	3M	48	60	72	100	120	160
5 Aluminum allo	201113111			277	1.8	1.3	MCBH8M		200	250	300			
6 Aluminum allog 7 Aluminum allog	-			287	1.8	1.3	MCBH12N MCBH16N		100	120	160 72			
8 Aluminum allo	79 57 57 55			265	1.6	1.3	MCBHRA		200	250	300			
9 Aluminum allo				274	1.8	1.3	MCBHRA		100	120	160			
10 Aluminum allo		The second second		274	1.8	1.3	MCBHRA		48	60	72			
11 Titanium alloy				316	2.6	1.7	MCBH6MS		200	250	300			
12 Titanium alloy	the same of the same		52 .	316	2.6	1.7	MCBH8M8		48	60	72	100	120	160
13 Titanium alloy		in øts	52	304	2.6	1.7	MCBHRA	BMSS	200	250	300			
14 Titanium alloy	bullt	in Ø15	52	304	2.6	1.7	MCBHRA	BMSS	48	60	72	100	120	160
15 Titanium alloy	The second secon	CONTRACTOR OF STREET		277	2.5	1.8	MCBH8MS		200	250	300			
16 Titanium alloy				287	25	1.8	MCBH12N	400	100	120	160			
17 Titanium alloy	21,11			287	2.5	1.8	MCBH16N		48	60	72			
18 Titanium alloy				265 274	2.5	1.8	MCBHRA	191 201	100	250	300 160			
19 Titanium alloy 20 Titanium alloy		1000		274	2.6	1.9	MCBHRA MCBHRA	Control of the Control	48	60	72			
the state of the state of		region in the contract		214	2.0	1.3	WICHTIFF	TOMOG	40	up	16			
Service depth: Item Housing	Driving position	Outer dia(mm)	Length (mm)	Weight in air(KG)	Weight in water(KG)	Connector	Oil tube	Oil tube bending			Veight hange			
1 Aluminum alloy	built in	ø152	299	2.6	2.0	MCPBOF6M	3/4*	outer dia			ab A Ship	itional 1	m increas	sé, its weigt
Control of the last of the las						Table 10 September 1					n air, add each add			se, its weigh
2 Aluminum alloy	buill in	ø152	299	2.6	2.0	MCPBOF8M	3/4*	3,	add	s 353g i	n air, add	is 68g ir	water .	se, its weigi
3 Aluminum alloy	external	ø152	260	2.2	1.4	MCPBOF8M	3/4"	3'	add	ls 353g	in air, add	ts 68g i	n water	
4 Aluminum alloy	external	ø152	260	2,2	1.4	MCPBOF12M	3/4"	3,	add	Is 398g	in air, add	is 113g	in water	se, its weig
5 Aluminum alloy	external	ø152	260	2,2	1.4	MCPBOF16M	3/4"	3,	add	ls 443g	in air, add	ds 158g	in water	se, ils weig
6 Titanium alloy	built in	0152	299	3.0	2.2	MOPBOF6M	3/4*	3+	add	ls 331g	in air, add	is 46g ii	n water	se, its weigi
7 Titanium alloy	built in	ø152	299	3.0	22	MCPBOFBM	3/4"	3'	add	oil tube, is 353g	each add in air, add	ds 68g in	m increa: n water	se, its weig
8 Titanium alloy	external	ø152	260	2.8	2.0	MCPBOF8M	3/4"	3,	add	ts 353g	in air, add	is 68g i	n water	se, its weig
9 Titanium alloy	external	ø152	260	2.8	2.0	MCPBOF12M	3/4"	3,	add	is 398g	in air, add	is 113g	in water	se, its weigi
0 Titanium alloy	external	ø152	260	2.8	2.0	MCPBOF16M	3/4"	31			each add in air, add			so, its weig
Service depth:	full ocea	n depth						Oil lube						
Item Housing	Driving position	Outer dia(mm)	Lengti (mm)	Weight in air(KG)	Weight in water(KG)	Connector	Oil tube dia	bending outer dia			Weigh			
1 Aluminum alloy	built in	ø152	299	2.6	2.0	PBOF6M	3/4*	3"	for d	oil tube, ls 331a		litional 1	m increas	se, its weig
2 Aluminum alloy	built in	ø152	299	2,6	2,0	PBOF8M	3/4"	3"	ford	oil tube,		fitional t	m increas	se, its weig
3 Aluminum alloy	external	ø152	260	2.2	1,4	PBOF8M	3/4"	3"	for	oll tube,		ditional t	m increas	se, its weig
4 Titanium alloy	built in	ø152	299	3,0	2,2	PBOF6M	3/4*	3*	for	oil tube,		ditional t	m increas	se, its weig
5 Titanium alloy	built in	@152	299	3.0	2.2	PBOF8M	3/4"	3"	fore	oil tube.		fitional 1	m increas	se, its welg
6 Titanium alloy	external	ø152	260	2,9	2.1	PBOF8M	3/4*	3"	fort	oil tube.	each add in air, add	litional 1	m increas	se, its weig
										- 10		- 4		





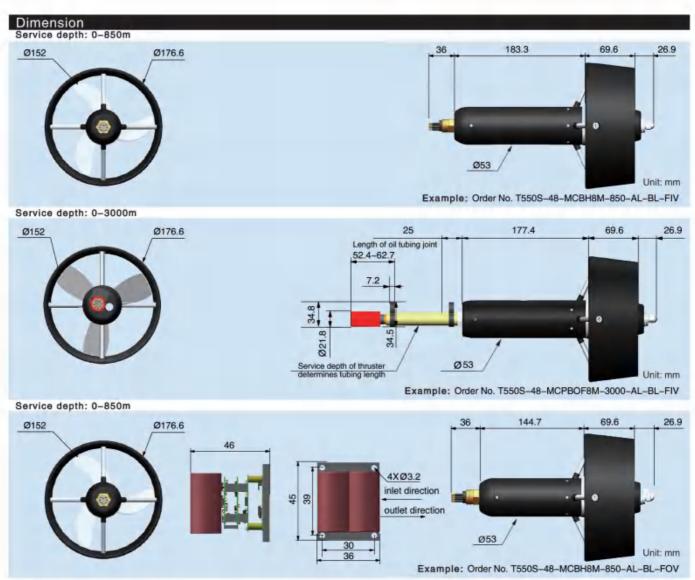


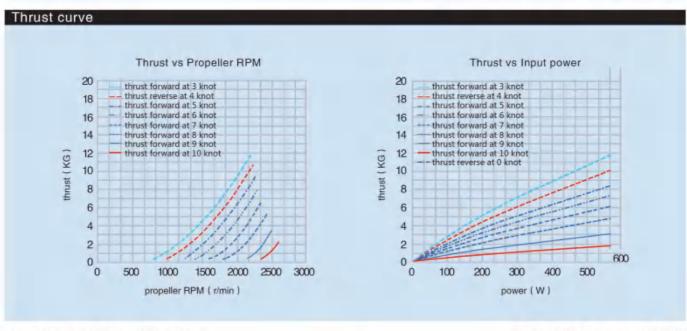
T550S AUV thruster

echnical paramete									
1 Rated power	650w								
2 Rated voltage	48VDC	60VDC	72VDC	100VDC	120VDC	160VDC	200VDC	260VDC	300VDC
3 Max RPM	1900r/min								
4 Thrust	thrust forw	ard 14.5 KG	thrust reverse	7.5 KG					
5 Nozzle	black								
5 Propeller handing	left O	right C-							
7 Material of propeller	stainless s	teel							
8 Housing	Aluminum	alloy Tita	anium alloy						
9 Seal	leakless, m	nagneically cour	oled						
10 Depth rating	0-850m	0-1500m	0-3000m	0-6000m	full ocean de	pth	service depth >15	500m, oil filled s	eal
11 Signal power	supply vol	age is 12VDC(±5%),≤250mA						
12 Control mode	analog vol	tage control (0	V~+5V forward, 0V	5V reverse	V		CAN		
13 RPM control	pulse feed	back an	alog voltage feedb	ack	CAN				
14 Temperature	storage te	emperature; -	10-70°C si	ervice temp	erature: -5-4	40°C			
15 Electronics	built in	external							

14 Tempera				ture: -40-7	0°C 5	ervice tempe	rature: -	5~40°C						
15 Electron	ics	built in	exte	emal										
Mechnical p	parame	ters												
Service depth:			m											
Item Housing	Drivin	g Out	er L	100	Weight in air(KG)	Weight in water(KG)	Connec	tor	Option	nal vol	tage(VI	OC)	com	mon mode
1 Aluminum alloy	built i			316	2.4	1.7	MCBH6N	Λ	200	250	300			
2 Aluminum alloy				316	2.4	1.7	MCBH8N		48	60	72	100	120	160
3 Aluminum alloy				304	2.4	1.7	MCBHR/	A6M	200	250	300			
4 Aluminum alloy	built i	n Ø17	77	304	2.4	1.7	MCBHF	A8M	48	60	72	100	120	160
5 Aluminum alloy	extern	al øi	77	277	2.0	1.4	MCBH8N		200	250	300			
6 Aluminum alloy				287	2.0	1.4	MCBH12	-	100	120	160			
Aluminum alloy	The second second			287	2.0	1.4	MCBH16		48	60	72			
8 Aluminum alloy	The second second			265	2.0	1.4	MCBHR		200	250	300			
9 Aluminum alloy				274	2.0	1.4	MCBHR/		100	120	160			
10 Aluminum alloy	- 461 / 741			274 316	2.0	1.4	MCBHR/ MCBH6N		48 200	60 250	72 300			
11 Titanium alloy 12 Titanium alloy	The second second second			316	2.8	21	MCBH8N	The same of the sa	48	60	72	100	120	160
13 Titanium alloy				304	2.8	2.1	MCBHR/		200	250	300	100	120	100
4 Titanium alloy				304	2.8	2.1	MCBHR		18	60	72	100	120	160
5 Titanium alloy				277	2.6	1.8	MCBHBN	20,100	200	250	300		-	1700
6 Thanium alloy		al ø17	77	287	2.6	1.8	MCBH12	MSS	100	120	160			
7 Titanium alloy	extern	al ø17	77	287	2.6	1.8	MCBH16	MSS	48	60	72			
8 Titanium alloy				265	2.6	1.8	MCBHR	A8MSS	200	250	300			
19 Titanium alloy				274	2.6	1.9	MCBHR		100	120	160			
20 Titarium alloy	extern	al gi	77	274	2.6	1.9	MCBHR	A16MSS	48	60	72			
Service depth: Item Housing	0-3000 Driving position	Outer dia(mm)	Length (mm)	Weight in air(KG)	Weight in water(KG)	Connector	Oil tube	Oil lube bending outer dia			eight nange			
1 Aluminum alloy	built in	ø177	299	2,8	22	MCPBOF6M	3/4*	3"	for oil	tube, e	ach addi air, add	tional 1n	n increas	e, its weig
2 Aluminum alloy	built in	ø177	299	2.8	22	MCPBOF8M	3/4"	3"	for of	I tube, e		tional In	n increas	e, its weig
3 Aluminum alloy	external	Ø177	260	2,3	1,6	MCPBOF8M	3/4"	3*	adds	353g ir	air, add	s 68g in	water	e, its weig
4 Aluminum alloy	external	ø177	260	2.3	16	MCPBOF12M	3/4"	3"	adds	398g ir	air, add	s 113g ir	n water	e, its weig
5 Aluminum alloy	external	Ø177	260	2.3	1.6	MCPBOF16M	3/4"	3"	adds	443g ir	air, add	s 158g ir	n water	e, its weig
Titanium alloy	built in	9177	299	3.1	23	MCPBOF6M	3/4"	3"	adds	331g ir	air, adds	s 46g in	water	e, its weig
7 Titanium alloy	built in	0177	299	3.1	2.3	MCPBOF8M	3/4*	3"	adds	353g ir	air, adds	s 68g in	water	e, its weig e, its weig
B Titanium alloy	external	ø177	260	2.9	21	MCPBOF8M	3/4*	3"	adds	353g ir	air, adds	68g in	water	e, its weig
9 Titanium alloy	external	ø177	260	2.9	21	MCPBOF12M	3/4"	3"	adds	398g ir	air, add	s 113g ir	water	e, its weig
) Titanium alloy	external	ø177	260	2.9	21	MCPBOF16M	3/4*	3	adds	443g ir	air, add	s 158g ir	n water	
Service depth: Item Housing	full ocea Driving position	Outer	Length (mm)	Weight in	Weight in water(KG)	Connector	Oil tube	Oil tube bending outer dia			Weigh			
1 Aluminum alloy	built in	ø177	299	2.8	22	PBOF6M	3/4"	3"	for oil			tional 1n		e, its weig
2 Aluminum alloy	built in	Ø177	299	2.8	2.2	PBOF8M	3/4"	3"			ach addi air, add			e, its weig
3 Aluminum alloy	external	ø177	260	2.3	1.6	PBOF8M	3/4"	3"	adds	353g ir	air, adds	5 68g in	water	e, its weig
4 Titanium alloy	built in	Ø177	299	3.1	2.3	PBOF6M	3/4"	3"	adds	331g ir	air, add	s 46g in	water	e, its welg
5 Titanium alloy	built in	ø177	299	3.1	2.3	PBOF8M	3/4"	3"	adds	353g ir	air, adds	5 68g in	water	e, its weig
6 Titanium alloy	external	Ø177	260	3.0	2.2	PBOF6M	3/4"	-3"	for oil tube, each additional 1m increase, it adds 353g in air, adds 68g in water		e, its weigi			







1.5kw

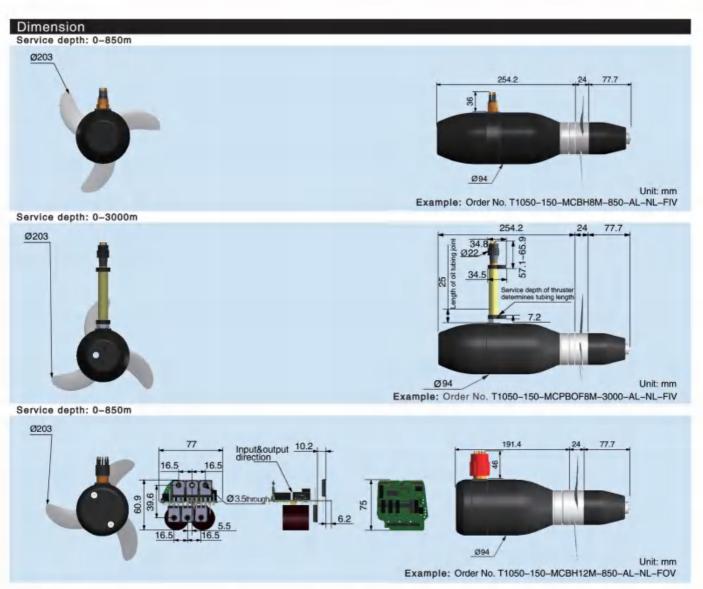
T1050 AUVthruster Technical parameters

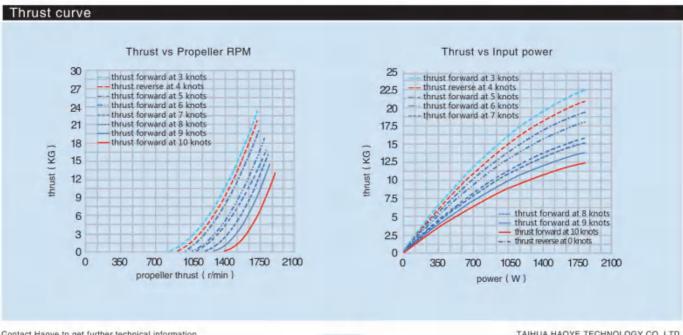
chnical paramete	ers
1 Rated power	1.5kw
2 Rated voltage	72VDC 100VDC 120VDC 150VDC 260VDC 300VDC
3 Max RPM	1400r/min
4 Thrust	thrust forward 27 KG
5 Nozzle	none
6 Propeller handing	left O right C
7 Material of propeller	stainless steel
8 Housing	Aluminum alloy Titanium alloy
9 Seal	leakless, magnetically coupled
10 Depth rating	0-850m 0-1500m 0-3000m 0-6000m full ocean depth service depth >1500m, oil filled seal
11 Signal power	supply voltage is 12VDC(±5%,210mA)
12 Control mode	analog voltage control (0V-+5V forward, 0V5V reverse) CAN
13 RPM feedback	pulse feedback analog voltage feedback CAN

10 Depin ra		0-850		1900m	0-3000m	n-gonom	ruii boean o	epin ser	vice debt	n>150	OITH, OILH	illeo seal		
11 Signal p				12VDC(±5%	And the latest and the latest and the	FIX and a second 1				CAN				
12 Control	A CALL OF THE PARTY OF THE PART					5V reverse)				CAN				
13 RPM fee	and the same and the		eedback		tage feedback	CAN		4000						
14 Tempera		-	- congress	ture: -40-7	0 C S	ervice tempe	rature: -	5-40°C						
15 Electron	nics	built-in	exter	nal										
Mechanical	param	eters												
Service depth:		and the second second	m				_		_					
Item Housing	11.7			Length	Weight in	Weight in	Connec	tor	Ontion	al wal	tonally	DCI -		
item nousing			Outer	(mm)		water(KG)	model	tor	Option	al vui	tage(Vi	DC)	- comr	non mod
	10.0		lia(mm)		air(KG)					400	400	FERRI	000	200
1 Aluminum all	*		ø203	356	5.5	3.9	MCBH8N		72	100	120	150	260	300
2 Aluminum all		1.00	ø203	294	5.0	3.8	MCBH8N	7	260	300				
3 Aluminum all			ø203	294	5.0	3.8	MCBH12			120	150			
4 Aluminum all	2		ø203	294	5.0	3.8	MCBH16		72	100	400	1000	000	
5 Titanium allo	and the second second second		ø203	356	6.5	5.2	MCBH8N		72	100	120	150	260	300
6 Titanium allo			ø203	294	6.0	5.1	MCBH8N	1777	260	300	450			
7 Titanium allo			ø203	294	6.0	5.1	MCBH12			120	150			
8 Titanium allo	y ext	emal	ø203	294	6.0	5.1	MCBH16	MSS	72					
a movembro	nd robust day													
Service depth:			0m					Oil tube						
Item Housing	Driving	Outer	Length	Weight in	Weight in	Connector	Oil tube	bending			eight			
	position	dia(mm)	(mm)	air(KG)	water(KG)	model	dia	outer dia		ch	ange			
Aluminum alloy	built in	ø203	356	6.3	3.9	MCPBOF8M	3/4"	3"	for oil	tube, ea	ach addit	tional 1m	increase	e, its weigh
, 7,000 to 10,000 to 10,000 at 10,00	e pres and	5.77										s 68g in w		- No
2 Aluminum alloy	external	ø203	294	5.8	3.8	MCPBOFBM	3/4"	3'	artrie:	tube, ei	ach addi	itional 1m s 68g in v	increase	, its weig
										10,48,00		itional 1m		ite wein
3 Aluminum alloy	external	ø203	294	5.8	3.8	MCPBOF12M	3/4"	3,				s 113g in		s, no weig
e Kilombaran liftera	and the second last	wood	004		0.0	MODDOCTOM	norm.	3"				itional 1m		s, its weigh
4 Aluminum alloy	external	ø203	294	5,8	3.8	MCPBOF16M	3/4"	3	adds 4	443g in	air, adds	s 158g in	water	
5 Titanium alloy	built in	ø203	356	7.3	5.2	MCPBOFBM	3/4"	3*				itional 1m		e, its weigh
o ritariium alioy	Dudt III	peus	330	7.43	3.2	MOLDOLDM	ci.4	3		-		s 68g in v		
6 Titanium alloy	external	ø203	294	6.8	5.1	MCPBOF8M	3/4"	3"	for oil	tube, e	ach addi	itional 1m	increase	e, its weigl
- James Harrick Street	UNIGHIGH	72.0		317		THE COLUMN	-					s 68g in v		Manager 1
7 Titanium alloy	external	ø203	294	6.8	5.1	MCPBOF12M	3/4"	3"				itional 1m s 113g in		, its weig
No.		1000				white the same						itional 1m		a ite wala
8 Titanium alloy	external	ø203	294	6.8	5.1	MCPBOF16M	3/4"	3"				s 158g in		, no weig
									12700	0		10	7.0	
Service depth	full one	an death						Ollege						
The state of the s		A STATE OF THE PARTY OF THE PAR	Lamon	18/20/2014	Montale	0	Olland	Oil tube			Walne			
Item Housing	Driving	Outer dia/mm	Length			Connector	Oil tube	bending			Weigh			
	position	dia(mm)	(mm)	air(KG)	water(KG)	1110-00-0	dia	outer dia	day. W.	a decir	change		ta and the	de l'action
1 Aluminum alloy	built in	ø203	356	6.3	3.9	PBOF6M	3/4"	3*				tional 1m s 46g in w		e, its weigh
				-		N. Company		24				tional 1m		its waied
2 Aluminum alloy	external	ø203	294	5.8	3,8	PBOF8M	3/4"	3*				s 68g in w		, na wory
3 Aluminum alloy	external	ø203	294	6.3	3.8	PBOF12M	1.25"	4.75	for oil	tube, e	ach addi	itional 1m	increase	e, its weig
Aluminum alicy	external	6200	294	0.3	0.0	FBOF IZM	1.23	4.75	CULIO (s 88g in v		
4 Titanium alloy	built in	ø203	356	7.3	5.2	PBOF6M	3/4"	3*				itional 1m s 46g in v		e, its weig
		100	The same									s 46g in v itional 1m		ite unie
5 Titanium alloy	external	ø203	294	6.8	5.1	PBOF8M	3/4"	3"				s 68g in v		, no weig
& Titanium eller	nuternat	mona.	294	7,3	E 1	PBOF12M	1.25"	4.75	for oil	tube, e	ach addi	itional 1m	increase	e, its weld
6 Titanium alloy	external	ø203	234	1,0	5.1	POULISM	1.25	4.75				s 88a in v		-

Service depth: Item Housing	full ocea Driving position	Outer dia(mm)	Length (mm)	Weight in air(KG)	Weight in water(KG)	Connector	Oil tube	Oil tube bending outer dia	Weight change
1 Aluminum alloy	built in	ø203	356	6.3	3.9	PBOF6M	3/4"	3*	for oil tube, each additional 1m increase, its weight adds 331g in air, adds 46g in water
2 Aluminum alloy	external	ø203	294	5.8	3,8	PBOF8M	3/4"	3*	for oil tube, each additional 1m increase, its weight adds 353g in air, adds 68g in water
3 Aluminum alloy	external	ø203	294	6.3	3.8	PBOF12M	1.25"	4.75*	for oil tube, each additional 1m increase, its weight adds 880g in air, adds 88g in water
4 Titanium alloy	built in	ø203	356	7.3	5.2	PBOF6M	3/4*	3*	for oil tube, each additional 1m increase, its weight adds 331g in air, adds 46g in water
5 Titanium alloy	external	ø203	294	6.8	5.1	PBOF8M	3/4"	3"	for oil tube, each additional 1m increase, its weight adds 353g in air, adds 68g in water
6 Titanium alloy	external	ø203	294	7,3	5.1	PBOF12M	1.25"	4.75*	for oil tube, each additional 1m increase, its weight adds 880g in air, adds 88g in water







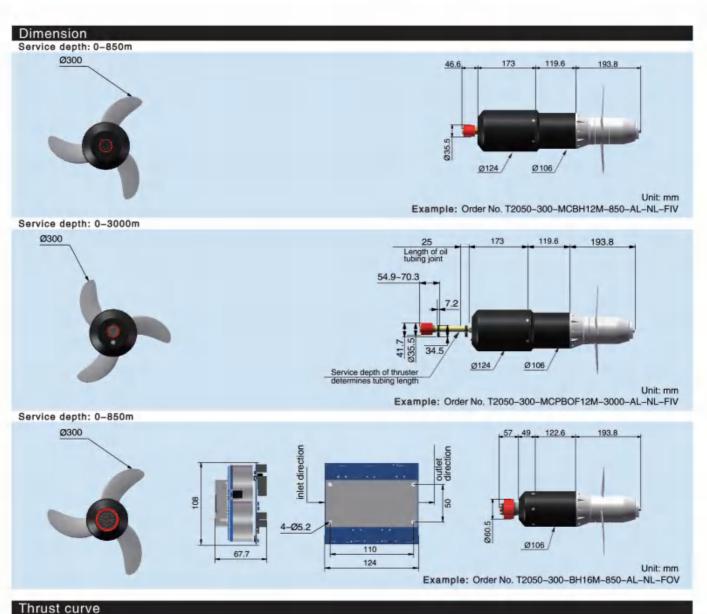
5.4kw

T2050 AUVthruster

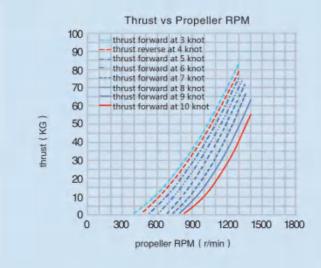
Technical paramete	rs					
1 Rated power	5.4kw					
2 Rated voltage	260VDC	300VDC	330VDC			
3 Max RPM	1230r/min					
4 Thrust	thrust forwa	ard 80 KG	thrust reverse	46 KG		
5 Nozzle	none					
6 Propeller handing	left O	right C				
7 Material of propeller	stainless st	eel				
8 Housing	Aluminum a	alloy Titar	nium alloy			
9 Seal	leakless, m	agnetically coup	led			
10 Depth rating	0-850m	0-1500m	0-3000m	0-6000m	full ocean depth	service depth >850m, oil filled seal
11 Signal power	none					
12 Control mode	analog volt	age control (0V	-+5V forward, 01	V5V reverse		CAN
13 RPM feedback	pulse feedt	back	analog voltage f	eedback	CAN	
14 Temperature	storage te	mperature: -40	0~70°C	service temp	erature: -5~40°C	
15 Electronics	built-in	external				

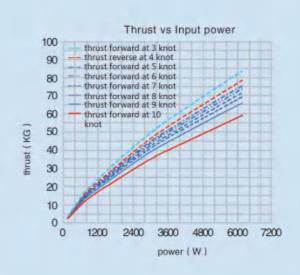
1.4 Temperature storage temperature -40-70°C service temperature -5-40°C	al voltage(VDC) common mod
Meta-college Parameter Service depth: 0-850m Connector Optional voltage(VDC) Connector Connector Optional voltage(VDC) Connector C	al voltage(VDC) common mod
Service depth: 0-1500m& 0-2000m & 0-6000m Item Housing Driving Drivi	al voltage(VDC) common mod
Service depth: 0-1500m& 0-2000m & 0-6000m Item Housing Driving Drivi	al voltage(VDC) common mod
Internation	al voltage(VDC) common mod
Aluminum alloy	al voltage(VDC) common mod
Aurnimar alloy built in e390 533 13 8.8 MCSHEM2 260 300 330	
2. Aluminum alloy built in e300 520 13 8.8 MCBHRA12M 260 300 330 330 3A Juminum alloy external e300 4224 11.1 8.6 BHIGM 260 300 330 330 650 341.5 10.4 MCBHRA12MS 260 300 330 330 330 650 341.5 10.4 MCBHRA12MS 260 300 330 330 650 341.5 10.4 MCBHRA12MS 260 300 330 330 330 650 341.5 10.4 MCBHRA12MS 260 300 330 330 330 650 341.5 10.4 MCBHRA12MS 260 300 330 330 330 330 330 330 330 330 3	300 330
## A Titanium alloy built in 6300 533 14.5 10.4 MCBH12MSS 260 300 330 ## 5 Titanium alloy external 6300 422.4 11.9 9.4 BH16MSS 260 300 330 ## 6 Titanium alloy external 6300 422.4 11.9 9.4 BH16MSS 260 300 330 ## 6 Titanium alloy external 6300 422.4 11.9 9.4 BH16MSS 260 300 330 ## 6 Titanium alloy External 6300 422.4 11.9 9.4 BH16MSS 260 300 330 ## 7 Filtanium alloy External 6300 422.4 11.9 9.4 BH16MSS 260 300 330 ## 7 Filtanium alloy External 6300 422.4 11.9 9.4 BH16MSS 260 300 330 ## 7 Filtanium alloy External 6300 642.4 11.9 MCPBOF12M 34* 3* ## 8 Filtanium alloy External 6300 511.4 16.3 11.9 MCPBOF12M 34* 3* ## 8 Filtanium alloy External 6300 511.4 16.3 11.9 MCPBOF12M 34* 3* ## 8 Filtanium alloy External 6300 511.4 14.6 10.2 PBOF8M 34* 3* ## 8 Filtanium alloy External 6300 33.0 330 ## 9.4 External 6300 6300 330 ## 9.4 External 6300 6300 330 ## 9.4 External 6300 6300 6300 6300 6300 6300 ## 9.4 External 6300 630	
Service depth: 0-1500m& 0-3000m& 0-6000m	300 330
Service depth: 0-1500m& 0-3000m& 0-6000m Team Housing Driving Outer Length Weight in Weigh	300 330
Service depth: 0-1500m& 0-3000m & 0-6000m Item Housing Driving Outer Length Weight in water(KG) water(KG) and the bending outer day of the bending outer day	
Item Housing Driving Outer position dia(mm) position dia(mm) position dia(mm) position dia(mm) position dia(mm) position dia(mm) dia der(KG) dia	300 330
Item Housing Driving Outer position dia(mm) position dia(mm) position dia(mm) position dia(mm) position dia(mm) position dia(mm) dia der(KG) dia	
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Service depth: full ocean depth litem Housing position diamm) Dutir in #300 511.4 14.6 10.2 MCPBOF12M 3/4* 3* for oil tube, each additional 1m increase, its weight in water (KG) model dia outer dia outer dia outer dia outer dia 1 Aluminum alloy built in #300 511.4 14.6 10.2 PBOF8M 3/4* 3* Weight in water (KG) and it in #300 511.4 14.6 10.2 PBOF8M 3/4* 3* Tatanium alloy built in #300 393.4 12.5 9.3 PBOF16M 1.25* 4.75* oil tube, each additional 1m increase, its weight in water (KG) and it is weight in connector model dia outer dia outer dia outer dia 353 gin air, adds 583 gin air, ad	
Service depth: full ocean depth Item Housing Driving Outer position dia(mm) (mm) air(KG) water(KG) model dia outer dia days 390 511.4 14.6 10.2 PBOF8M 3/4" 3" adds 398g in air, adds 113g in water for oil tube, each additional 1 m increase, its weight of oil tube bending outer dia days 390 511.4 14.6 10.2 PBOF8M 3/4" 3" adds 353g in air, adds 168g in water for oil tube, each additional 1 m increase, its weight adds 398g in air, adds 113g in water for oil tube, each additional 1 m increase, its weight adds 398g in air, adds 113g in water for oil tube, each additional 1 m increase, its weight adds 398g in air, adds 113g in water for oil tube, each additional 1 m increase, its weight adds 353g in air, adds 353g in water for oil tube, each additional 1 m increase, its weight adds 353g in air, adds 353g in adds 353g in air, adds 353g in air, adds 353g in add	abe, each additional 1m increase, its weigh
Service depth: full ocean depth Item Housing Driving Outer position dia(mm) (mm) air(KG) water(KG) model dia outer dia outer dia outer dia outer dia outer dia 330 393.4 12.5 9.3 PBOF16M 1.25" 4.75" Weight in Connector Oil tube, each additional 1m increase, its weight adds 353g in air, adds 88g in water for oil tube, each additional 1m increase, its weight adds 353g in air, adds 88g in water for oil tube, each additional 1m increase, its weight adds 353g in air, adds 88g in water for oil tube, each additional 1m increase, its weight adds 353g in air, adds 88g in water for oil tube, each additional 1m increase, its weight adds 353g in air, adds 88g in water for oil tube, each additional 1m increase, its weight adds 353g in air, adds 88g in water for oil tube, each additional 1m increase, its weight adds 353g in air, adds 88g in water for oil tube, each additional 1m increase, its weight adds 353g in air, adds 88g in water for oil tube, each additional 1m increase, its weight adds 353g in air, adds 88g in water for oil tube, each additional 1m increase, its weight adds 353g in air, adds 88g in water for oil tube, each additional 1m increase, its weight adds 353g in air, adds 88g in water for oil tube, each additional 1m increase, its weight adds 353g in air, adds 88g in water for oil tube, each additional 1m increase, its weight adds 353g in air, adds 88g in water for oil tube, each additional 1m increase, its weight adds 353g in air, adds 88g in water for oil tube, each additional 1m increase, its weight adds 353g in air, adds 88g in water for oil tube, each additional 1m increase, its weight adds 353g in air, adds 88g in water for oil tube, each additional 1m increase, its weight adds 353g in air, adds 88g in water for oil tube, each additional 1m increase, its weight adds 353g in air, adds 88g in water for oil tube, each additional 1m increase, its weight adds 353g in air, adds 88g in water for oil tube, each additional 1m increase, its weight adds 353g in air, adds 88g in water for oil tube, each additional 1m	
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1 Aluminum alloy built in Ø300 511.4 14.6 10.2 PBOF8M 3/4" 3" for oil tube, each additional 1m increase, its weigh adds 353g in air, adds 63g in water 2 Aluminum alloy external Ø300 393.4 12.5 9.3 PBOF16M 1.25" 4.75" for oil tube, each additional 1m increase, its weigh adds 925g in air, adds 133g in water 3 Titanium alloy built in Ø300 511.4 16.3 11.9 PBOF16M 3/4" 3" for oil tube, each additional 1m increase, its weigh adds 353g in air, adds 68g in water 3 Titanium alloy built in Ø300 511.4 16.3 11.9 PBOF16M 1.25" 4.75" for oil tube, each additional 1m increase, its weigh adds 353g in air, adds 68g in water 3 Titanium alloy built in Ø300 511.4 16.3 11.9 PBOF16M 1.25" 4.75" for oil tube, each additional 1m increase, its weigh adds 353g in air, adds 68g in water 3 Titanium alloy built in Ø300 511.4 16.3 11.9 PBOF16M 1.25" 4.75" for oil tube, each additional 1m increase, its weigh adds 353g in air, adds 68g in water 3 Titanium alloy built in Ø300 511.4 16.3 11.9 PBOF16M 1.25" 4.75" for oil tube, each additional 1m increase, its weigh adds 353g in air, adds 68g in water 3 Titanium alloy built in Ø300 511.4 16.3 11.9 PBOF16M 1.25" 4.75" for oil tube, each additional 1m increase, its weigh adds 353g in air, adds 68g in water 3 Titanium alloy built in Ø300 511.4 16.3 11.9 PBOF16M 1.25" 4.75" for oil tube, each additional 1m increase, its weight adds 353g in air, adds 68g in water 3 Titanium alloy built in Ø300 511.4 16.3 11.9 PBOF16M 1.25" 4.75" for oil tube, each additional 1m increase, its weight addi	
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2 Aluminum alloy external Ø300 393.4 12.5 9.3 PBOF16M 1.25" 4.75 for oil tube, each additional 1m increase, its weigh adds 925g in air, adds 133g in water additional 1m increase, its weigh adds 925g in air, adds 133g in water additional 1m increase, its weigh adds 353g in air, adds 68g in water additional 1m increase, its weigh adds 353g in air, adds 68g in water additional 1m increase, its weigh additional 1m increase, its weight additional 1m increa	.ibe, each additional 1m increase, its weigt 53d in air, adds 68d in water
3 Titanium alloy built in Ø300 511.4 16.3 11.9 PBOF8M 3/4" 3" for oil tube, each additional 1m increase, its weig adds 353g in air, adds 68g in water for oil tube, each additional 1m increase, its weig	ube, each additional 1m increase, its weigh
adds 353g in air, adds 68g in water Titanium alloy built in 9300 511.4 16.3 11.9 PBOF16M 1.25" adds 353g in air, adds 68g in water Titanium alloy built in 9300 31.4 13.3 10.1 PBOF16M 1.25" 4.75" for oil tube, each additional 1m increase, its weight	25g in air, adds 133g in water
4 Titanium allow avternal g200 393.4 13.3 10.1 PROFISM 1.25" 4.75" for oil tube, each additional 1m increase, its weight	
+ Halling Hall 200 393.4 13.3 10.1 FBOF16W 1.23 4.73 adds 925g in air, adds 133g in water	orang in a company want of the state of
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	ube, each additional 1m increase, its weig
3 Trianium alloy Dulit III 9300 511.4 10.3 11.9 PBOF16M 3/4 3" adds 3 4 Titanium alloy external g200 393.4 13.3 10.1 PBOF16M 1.25" 4.75.1 for oil to	







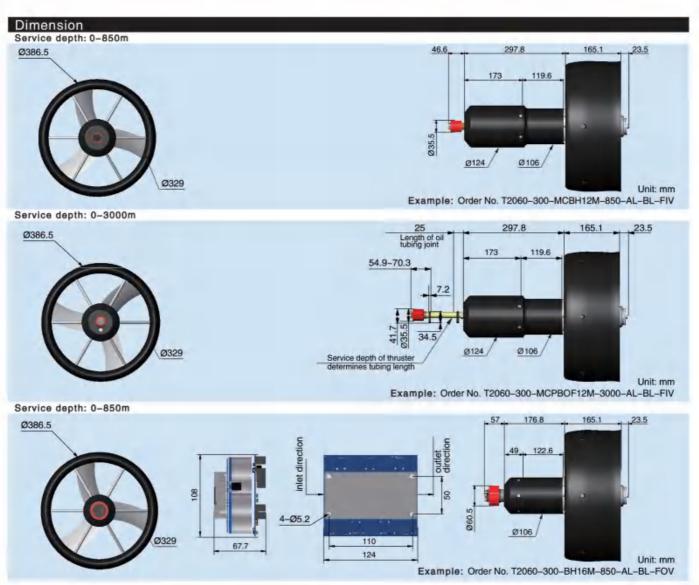


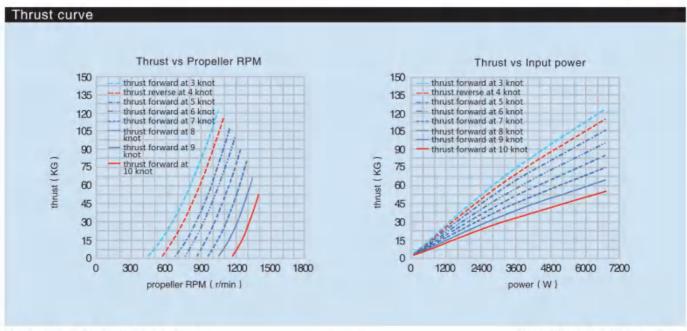


T2060 AUV thruster

echnical paramete	6.5kw			
2 Rated voltage	260VDC 300VDC	330VDC		
3 Max RPM	900r/min	110000		
4 Thrust	thrust forward 135 KG	thrust reverse 60 KG		
5 Nozzle	black			
6 Propeller handing	left O right O			
7 Material of propeller	stainless steel			
8 Housing	Aluminum alloy Tita	nium alloy		
9 Seal	leakless, magnetically coup	led		
10 Depth rating	0-850m 0-1500m	0-3000m 0-6000m	full ocean depth	service depth >850m, oil filled seal
11 Signal power	none			
12 Control mode	analog voltage control (0\	/~+5V forward, 0V~-5V reverse)	CAN
13 RPM feedback	pulse feedback	analog voltage feedback	CAN	
14 Temperature	storage temperature: -4	0~70℃ service temp	perature: -5~40℃	
15 Electronics	built-in external			

13 RPM fee			eedback e temner:	an ature: –40~7	alog voltage fe 70℃ s	ervice tempe	CAN						
15 Electron		built-ir				orvice tempe	rature	5-40 0					
Mechanical	param	eters											
Service depth:			_				_	_	_	_			
Item Housing	Driv	ring C	Outer ia(mm)	40 00	Weight in air(KG)	Weight in water(KG)	Connect	tor	Optiona	al volta	ge(VDC)	commo	n mod
1 Aluminum alk	71.00		386.5	533	18.3	9.6	MCBH12	М	260	300	330		
2 Aluminum alk	the same of the last		386.5	520	18.3	9.6	MCBHRA		260	_	330		
3 Aluminum alk			386.5	422.4	16.4	9.3	BH16M		-		330		
4 Titanium allo			386.5	533	19.8	11.1	MCBH12		260		330	_	
5 Titanium allo	and the second second second		386.5 386.5	520 422.4	19.8	11.1	MCBHRA BH16MS	100010000			330 330		
6 Titanium allo	y exte	ernal (0.000.0	422.4	17.2	10.1	DHIONIS	0	200	300	330		
	0 4500-	- 0 0 000	0-000	000-									
Service depth:					Weight in		Olltuba	Oil tube		Wain	dst		
Service depth:	Driving	Outer	Length	Weight in	Weight in water(KG)	Connector	Oil tube	bending		Weig			
Item Housing	Driving position	Outer dia(mm)	Length (mm)	Weight in air(KG)	water(KG)	model	dia	bending outer dia	for oil tu	chan	ge additional	1m increase, it	s weigh
The second second	Driving	Outer	Length	Weight in				bending outer dia 3"	adds 39	chan ube, each 98g in air	ge additional adds 113	g in water	
Item Housing	Driving position	Outer dia(mm)	Length (mm)	Weight in air(KG)	water(KG)	model	dia	bending outer dia	adds 39	chan ube, each 98g in air	ge additional adds 113	1m increase, it g in water 11m increase, it g in water	
Item Housing Aluminum alloy	Driving position built in	Outer dia(mm) ø386.5	Length (mm) 511.4	Weight in air(KG) 19.9	water(KG) 10.9	model MCPBOF12M	dia 3/4*	bending outer dia 3"	adds 39	chan ube, each 98g in air	ge additional adds 113	g in water	
Item Housing Aluminum alloy	Driving position built in	Outer dia(mm) ø386.5	Length (mm) 511.4	Weight in air(KG) 19.9	water(KG) 10.9	model MCPBOF12M	dia 3/4*	bending outer dia 3"	adds 39	chan ube, each 98g in air	ge additional adds 113	g in water	
Item Housing Aluminum alloy	Driving position built in	Outer dia(mm) ø386.5	Length (mm) 511.4	Weight in air(KG) 19.9	water(KG) 10.9	model MCPBOF12M	dia 3/4*	bending outer dia 3"	adds 39	chan ube, each 98g in air	ge additional adds 113	g in water	
Item Housing Aluminum alloy	Driving position built in	Outer dia(mm) ø386.5	Length (mm) 511.4	Weight in air(KG) 19.9	water(KG) 10.9	model MCPBOF12M	dia 3/4*	bending outer dia 3"	adds 39	chan ube, each 98g in air	ge additional adds 113	g in water	
Item Housing Aluminum alloy	Driving position built in	Outer dia(mm) ø386.5	Length (mm) 511.4	Weight in air(KG) 19.9	water(KG) 10.9	model MCPBOF12M	dia 3/4*	bending outer dia 3"	adds 39	chan ube, each 98g in air	ge additional adds 113	g in water	
Item Housing Aluminum alloy	Driving position built in	Outer dia(mm) ø386.5	Length (mm) 511.4	Weight in air(KG) 19.9	water(KG) 10.9	model MCPBOF12M	dia 3/4*	bending outer dia 3"	adds 39	chan ube, each 98g in air	ge additional adds 113	g in water	
Item Housing Aluminum alloy	Driving position built in	Outer dia(mm) ø386.5	Length (mm) 511.4	Weight in air(KG) 19.9	water(KG) 10.9	model MCPBOF12M	dia 3/4*	bending outer dia 3"	adds 39	chan ube, each 98g in air	ge additional adds 113	g in water	
tem Housing Aluminum alloy	Driving position built in	Outer dia(mm) ø386.5	Length (mm) 511.4	Weight in air(KG) 19.9	water(KG) 10.9	model MCPBOF12M	dia 3/4*	bending outer dia 3"	adds 39	chan ube, each 98g in air	ge additional adds 113	g in water	
tem Housing Aluminum alloy	Driving position built in	Outer dia(mm) ø386.5	Length (mm) 511.4	Weight in air(KG) 19.9	water(KG) 10.9	model MCPBOF12M	dia 3/4*	bending outer dia 3"	adds 39	chan ube, each 98g in air	ge additional adds 113	g in water	
tem Housing Aluminum alloy	Driving position built in	Outer dia(mm) ø386.5	Length (mm) 511.4	Weight in air(KG) 19.9	water(KG) 10.9	model MCPBOF12M	dia 3/4*	bending outer dia 3"	adds 39	chan ube, each 98g in air	ge additional adds 113	g in water	
tem Housing Aluminum alloy	Driving position built in	Outer dia(mm) ø386.5	Length (mm) 511.4	Weight in air(KG) 19.9	water(KG) 10.9	model MCPBOF12M	dia 3/4*	bending outer dia 3"	adds 39	chan ube, each 98g in air	ge additional adds 113	g in water	
Item Housing Aluminum alloy	Driving position built in	Outer dia(mm) ø386.5	Length (mm) 511.4	Weight in air(KG) 19.9	water(KG) 10.9	model MCPBOF12M	dia 3/4*	bending outer dia 3"	adds 39	chan ube, each 98g in air	ge additional adds 113	g in water	
tem Housing Aluminum alloy Titanium alloy	Driving position built in built in	Outer dia(mm) Ø386.5 Ø386.5	Length (mm) 511.4	Weight in air(KG) 19.9	water(KG) 10.9	model MCPBOF12M	dia 3/4*	bending outer dia 3" 3*	adds 39	chan ube, each 98g in air	ge additional adds 113	g in water	
tem Housing Aluminum alloy Titanium alloy Service depth:	Driving position built in built in create the control of the create the creat	Outer dia(mm) ø386.5 ø386.5	Length (mm) 511.4 511.4 Length	Weight in air(KG) 19.9 21.6 Weight in	water(KG) 10.9 12.6 Weight in	model MCPBOF12M	dia 3/4*	bending outer dia 3"	adds 39	chan abe, each geg in air ube, each geg in air	ge n additional , adds 113 n additional , adds 113	g in water	
tem Housing Aluminum alloy Titanium alloy Service depth:	Driving position built in built in	Outer dia(mm) ø386.5 ø386.5	Length (mm) 511.4 511.4 Length	Weight in air(KG) 19.9 21.6	water(KG) 10.9 12.6	model MCPBOF12M MCPBOF12M	dia 3/4* 3/4*	outer dia 3" 3"	adds 38 for oil to adds 38	chan abe, each geg in air ube, each geg in air	ge n additional n additional n additional n additional n additional n additional hadditional hadditional	g in water I m increase, i g in water	s weig
tem Housing Aluminum alloy Titanium alloy Service depth:	Driving position built in built in create the control of the create the creat	Outer dia(mm) ø386.5 ø386.5	Length (mm) 511.4 511.4 Length	Weight in air(KG) 19.9 21.6 Weight in	water(KG) 10.9 12.6 Weight in	model MCPBOF12M MCPBOF12M Connector	dia 3/4* 3/4*	bending outer dia 3" 3"	adds 38 for oil to adds 38	chan ube, each geg in air ube, each geg in air	ge n additional n adds 113 n additional	g in water I m increase, i g in water 1m increase, i	s weig
Service depth: Item Housing	Driving position built in built in Ces Driving position built in built in	Outer dia(mm) ø386.5 ø386.5 Outer dia(mm) ø386.5	Length (mm) 511.4 511.4 Length (mm)	Weight in air(KG) 19.9 21.6 Weight in air(KG) 19.9	Weight in water(KG)	model MCPBOF12M MCPBOF12M Connector model	dia 3/4* 3/4*	outer dia 3" 3"	adds 38 for oil to adds 38 for oil to adds 38 for oil to	chan ube, each geg in air ube, each geg in air ube, each colored which is a chan colored which is a ch	ge n additional n adds 113 n additional n additional n additional hange n additional n additional n additional n additional n additional n additional	g in water I m increase, it g in water Im increase, it in water Im increase, it	s weig
Service depth: Item Housing Aluminum alloy Service depth: Item Housing Aluminum alloy Aluminum alloy	Driving position built in built in Driving position Driving position built in external	outer dia(mm) Ø386.5 Ø386.5 Ø386.5 Ø386.5 Ø386.5	Length (mm) 511.4 511.4 Length (mm) 511.4 393.4	Weight in air(KG) 19.9 21.6 Weight in air(KG) 19.9 17.8	Weight in water(KG) 10.9 12.6 Weight in water(KG) 10.9 10	model MCPBOF12M MCPBOF12M Connector model PBOF16M	Oil tube dia 3/4* 1.25"	Oil tube bending outer dia 3* 4.75*	for oil to adds 30 for oil to adds 90 for oil to ad	chan ube, each geg in air ube, each geg in air ube, each tobe, each tobe, each	ge additional adds 113 a das 113 a ddis 113 a additional additional additional additional additional additional	g in water I m increase, it g in water 1m increase, it in water in water g in water g in water	s weigi
tem Housing Aluminum alloy Titanium alloy Service depth: Item Housing Aluminum alloy Aluminum alloy	Driving position built in built in Ces Driving position built in built in	Outer dia(mm) ø386.5 ø386.5 Outer dia(mm) ø386.5	Length (mm) 511.4 511.4 Length (mm) 511.4 511.4	Weight in air(KG) 19.9 21.6 Weight in air(KG) 19.9	Weight in water(KG)	model MCPBOF12M MCPBOF12M Connector model PBOF8M	dia 3/4* 3/4* Oil tube dia 3/4*	Oil tube bending outer dia 3" 3"	for oil to adds 3 for oil to a	chan ube, each geg in air ube, each geg in air ube, each 53g in air ube, each 25g in air ube, each	ge additional adds 113 a dditional additional additional additional additional additional additional additional additional additional	I'm increase, it in water I'm increase, it in water I'm increase, it in water I'm increase, it in rincrease, it in water I'm increase, it in water I'm increase, it in water I'm increase, it in water	s weig s weig s weig
tem Housing Aluminum alloy Titanium alloy Service depth: Item Housing	Driving position built in built in Driving position Driving position built in external	Outer dia(mm) Ø386.5 Ø386.5 Ø386.5 Ø386.5 Ø386.5 Ø386.5	Length (mm) 511.4 511.4 Length (mm) 511.4 393.4	Weight in air(KG) 19.9 21.6 Weight in air(KG) 19.9 17.8	Weight in water(KG) 10.9 12.6 Weight in water(KG) 10.9 10	model MCPBOF12M MCPBOF12M Connector model PBOF16M	Oil tube dia 3/4* 1.25"	Oil tube bending outer dia 3* 4.75*	for oil to adds 3: for oil to ad	chan ube, each geg in air ube, each geg in air ube, each 25g in air ube, each ube, each ube, each	ge additional adds 113 a dditional additional additional additional additional additional additional additional additional additional	1 m increase, il g in water 1 m increase, il g in water 1 m increase, il in water 1 m increase, il g in water 1 m increase, il in water	s weigi s weigi s weigi



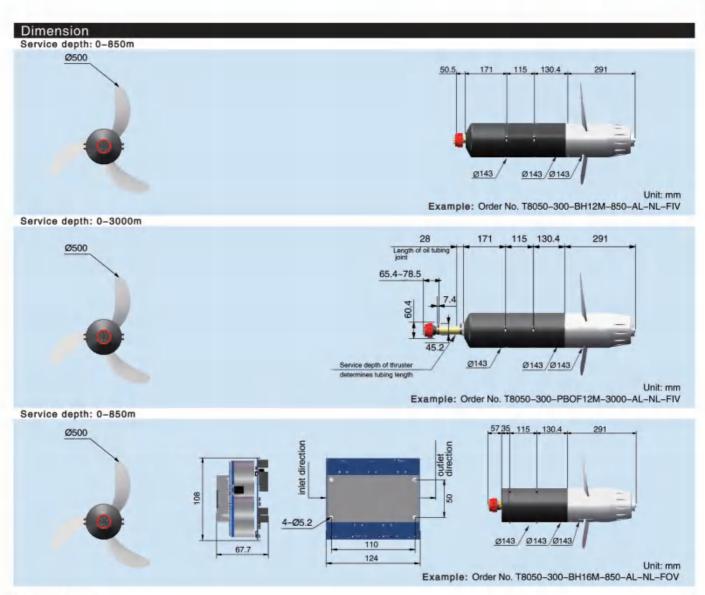


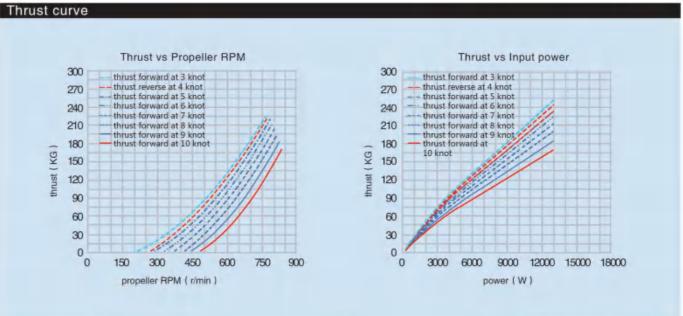
14kw

T8050 AUVthruster

10030		3 1 3 1 2 2 3	uou	- 1					
rechnical p									
1 Rated p		14kw 300VD	Ó						
2 Rated v 3 Max RP		750r/m							
4 Thrust	IVI		orward 24	0 KG	thrust reverse	98 KG			
5 Nozzle		none							
6 Propeller	handing	left (O right	C					
7 Material of		stainles	the late which were	T1					
8 Housing	1		um alloy	Titaniur ally coupled	n alloy				
9 Seal 10 Depth ra	ating	0-850r		1500m	0-3000m	0-6000m	full ocean	denth	service depth >850m, oil filled seal
11 Signal p		none		.000111	0 0000111	0 0000111	Toll Goddin	dopur	outline depart of the deal
12 Control		analog	voltage co	ntrol (0V~+5	5V forward, 0V	5V reverse)		CAN	
13 RPM fee	edback		eedback		g voltage feedt		AN		
14 Tempera				ture: -40~7	0°C se	ervice tempe	rature: -5	5~40°C	
15 Electron	lics	built in	ext	emal					
Analanai an	Lan automatic	-1							
lechanica		eters							
ervice depth:						*** * * * * * * * * * * * * * * * * * *			
em Housing	Driv	-	Outer	Length (mm)	Weight in	Weight in water(KG)	Connect	tor	Optional voltage(VDC) common mode
A bossis as all			ia(mm)		air(KG)	25.2	BH12M		200
 Aluminum all Aluminum all 			ø500 ø500	758 629	33.7	24.2	BH16M		300
3 Titanium all			ø500	758	36.7	28.2	BH12MS	S	300
4 Titanium all			ø500	629	33.5	26.8	BH16MS		300
ervice depth:	: 0-1500n	1& 0-300	0m & 0-6	000m				Oil tube	
em Housing	Driving	Outer	Length	Weight in	Weight in	Connector	Oil tube	bending	Weight
	position	dia(mm)	(mm)	air(KG)	water(KG)	model	dia	outer dia	change
Aluminum allov	built in	ø500	736	36.2	25.3	PBOF12M	1.25*	4.75"	for oil tube, each additional 1m increase, its weight adds 880g in air, adds 88g in water
					44.4				
Titanium alloy	built in	ø500	736	39.2	28.3	PBOF12M	1.25*	4.75"	for oil tube, each additional 1m increase, its weight adds 880g in air, adds 88g in water
arvice death	t full core	n danth						0111	
ervice depth em Housing	Driving	Outer	Length	Woightin	Weight in	Connecto	Olltuba	Oil tube	Weight
on Housing	position	dia(mm)		Weight in air(KG)	water(KG)	Connector	Oil tube dia	bending outer dia	
Aluminum aller						3015.9157	1.25"	4.75"	for oil tube, each additional 1m increase, its weight
Aluminum alloy	external	ø500	600	32.9	24.3	PBOF16M			adds 925g in air, adds 133g in water
Titanium alloy	external	ø500	600	35.5	26.9	PBOF16M	1.25"	4.75"	for oil tube, each additional 1m increase, its weight adds 925g in air, adds 133g in water







Accessories



Mounting Instruction

Accessories



Features

Water-tight connector is waterproof plug, waterproof grade is high, safety is more convenient; the back cover uses thread to tighten fixed cable, the female head has a small screw, safety is more convenient; anti-electric shock, high-performance plastic is not conductive; corrosion resistance is good, water use is not easy to aging; shell surface anti-slip design, strong connection head Reliable, using reasonable keys and compact structure design.

Advantages

- Long service life; High efficiency;customizable
- Core connection is accurate, positioning accuracy is high, connection is firm
- Anti-electronic shock&seawater corrosion resistance, anti-aging
- Multi-models connectors avaliable
- Cable length can be customized



Accessories

6-core wiring for thruster



6-core female joint

Built in driver

Item	Definition (analog voltage	Instruction control)	Definition (PPM control)	Instruction
1.	PGND	Negative power supply	PGND	Negative power supply
2	+VDC	Positive power supply	+VDC	Positive power supply
3	SGND	Negative signal power	SGND	Negative signal power
4	+12VDC	Positive signal power	+12VDC	Positive signal power
5	±5VDC	Analog voltage adjust speed	PPM	PPM adjust speed
6	FB	RPM feedback	FB	RPM feedback





6-core male joint

Item	Definition (CAN control)	Instruction	
1	PGND	Negative power supply	
2	+VDC	Positive power supply	
3	SGND	Negative signal power	
4	+12VDC	Positive signal power	
5	CANH	CAN	
6	CANL	VAN	

8-core wiring for thruster



8-core female joint

Built in driver

Item	Definition (analog voltage o	Instruction ontrol)	Definition (PPM control)	Instruction
187	PGND	Negative power supply	PGND	Negative power supply
2&8	+VDC	Positive power supply	+VDC	Positive power supply
3	SGND	Negative signal power	SGND	Negative signal power
4	+12VDC	Positive signal power	+12VDC	Positive signal power
5	±5VDC	Analog voltage adjust speed	PPM	PPM adjust speed
6	FB	RPM feedback	FB	RPM feedback

Built in driver

Item	Definition (CAN control)	Instruction	
1&7	PGND	Negative power supply	
2&8	+VDC	Positive power supply	
3	SGND	Negative signal power	
4	+12VDC	Positive signal power	
5	CANH	CAN	
6	CANL	VAN	



8-core male joint

External driver

Item	Definition	Instruction
1	U	Motor phase line
2	V	Motor phase line
3	W	Motor phase line
4	+5VDC	Hoare, positive
5	Ha	Hoare
6	Hb	Hoare
7	Hc	Hoare
8	GND	Hoare, negative

12-core wiring for thruster

Built in driver



12-core female joint

Dulit ill dilvi	CI			
Item (a	Definition analog voltage o	Instruction control)	Definition (PPM control)	Instruction
1, 2, 3&4	PGND	Negative power supply	PGND	Negative power supply
5, 6, 7&8	+VDC	Positive power supply	+VDC	Positive power supply
9	±5VDC	Analog voltage adjust speed	±5VDC	Analog voltage adjust speed
10	NC	Suspend in midair	NC	Suspend in midair
11	FB	RPM feedback	PPM	PPM adjust speed
12	SGND	Signal reference	SGND	Signal reference

Built in driver

Item	Definition (CAN control)	Instruction	
1, 2, 3&4	PGND	Negative power supply	
5, 6, 7&8	+VDC	Positive power supply	
9	CANH	CAN	
10	CANL	CAN	
11	FB	RPM feedback	
12	SGND	Signal reference	

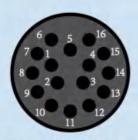


12-core male joint

External driver

Item	Definition	Instruction
1&2	U	Motor phase line
3&4	٧	Motor phase line
5&6	W	Motor phase line
7	+5VDC	Hoare, positive
8	Ha	Hoare signal
9	Hb	Hoare signal
10	Hc	Hoare signal
11	GND	Hoare, negative
12	NC	Suspend in midair

16-core wiring for thruster



16-core female joint



16-core male joint

External driver

Item	Definition	Instruction
1&2&3	U	Motor phase line
4&5&6	V	Motor phase line
7&8&9	W	Motor phase line
10	+5VDC	Hoare, positive
11	На	Hoare signal
12	Hb	Hoare signal
13	Hc	Hoare signal
14	GND	Hoare, negative
15	NTC1	heat sensitive sensor signal
16	NTC2	heat sensitive sensor signal

Accessories Options



Accessories

Customized parameter collection table for thruster (technical)

No.:

performance requirement						
parameter 1	performance criteria 1	parameter 2	performance criteria 2	parameter 3	performance criteria 3	reverse moor- ing performance
navigational speed (kn)		navigational speed (kn)		navigational speed (kn)		
thrust (kg)		thrust (kg)		thrust (kg)		
power		power		power		

other requirement

Rated steady voltage fluctuation range		Rotating speed control feedback		
working depth		in air: in water:	thruster dimension	outer dia: length:

other requirement

operating temperature	noise indicator	special install	
thruster material	rotational direction	motor house material and size	
application environm	ent		
power system			
propulsion type			
spare parts requirem	ent		
other requirement			

Products Code



The best solution for underwater equipment industry

A-B-C	-M-6-1	1 + F ₂ — G ₁ + G ₂
Thruster _ Rated _ Connecto	J HOZZ	
T260 48 MCBH8	rating material color	handing feedback mode
		DL TIV
A – Thruster product co	makes and the same of the same	
T150 - T150 thruster	T260 - T260 thruster	T280 - T280 thruster
T280S - T280S thruster	T300 - T300 thruster	T530 - T530 thruster
T540 - T540 thruster	T540S - T540S thruster	T550 - T550 thruster
T550S - T550S thruster	T561 - T561 thruster	T570 - T570 thruster
T590 - T590 thruster	T1020 - T1020 thruster	T1050 - T1050 thruster
T1060 - T1060 thruster	T1080 - T1080 thruster	T2020 - T2020 thruster
T2030 - T2030 thruster	T2040 - T2040 thruster	T2040S - T2040S thruster
T2050 - T2050 thruster	T2060 - T2060 thruster	TD2020- TD2020 thruster
TZ2030 - TZ2030 thruster	T8020 - T8020 thruster	T8040 - T8040 thruster
T8050 - T8050 thruster	T8060 - T8060 thruster	Z20 - T20 rotary actuator
Z61 - Z61 rotary actuator	R21 - R21 RIM thruster	
B - Rated voltage		
		001/00
12 - 12VDC	24 - 24VDC	32 - 32VDC
36 - 36VDC	48 - 48VDC	60 - 60VDC
65 - 65VDC	70 - 70VDC	72 - 72VDC
75 - 75VDC	80 - 80VDC	85 - 85VDC
90 - 90VDC	95 - 95VDC	100 - 100VDC
110 - 110VDC	120 - 120VDC	130 - 130VDC
140 - 140VDC	150 - 150VDC	160 - 160VDC
175 - 175VDC	180 - 180VDC	200 - 200VDC
220 - 220VDC	230 - 230VDC	240 - 240VDC
250 - 250VDC	260 - 260VDC	280 - 280VDC
300 - 300VDC	320 - 320VDC	330 - 330VDC
350 - 350VDC		

Thruster options Overview



C - Connector type	
MCBH6M - Miniature 6-core male socket MCBH12M - Miniature 12-core male socket MCBH16M - Miniature 16-core male socket MCBH16M - Miniature 16-core male socket BH12M - Standard 12-core socket MCPBOF6M - Miniature oil filled 6-core male socket MCPBOF8M - Miniature oil filled 8-core male socket MCPBOF12M - Miniature oil filled 12-core male socket MCPBOF16M - Miniature oil filled 16-core male socket MCPBOF16M - Miniature oil filled 16-core male socket MCPBOF16M - Miniature 4-core male socket	
D - Depth rating	
850 - 850m underwater penetration 3000 - 3000m underwater penetration FOD - full ocean depth	1500 - 1500m underwater penetration 6000 - 6000m underwater penetration
E – Housing material	
AL - Aluminium	TI - Titanium
F ₁ - Nozzle	
B - Black	N - None
F ₂ - Propeller handing	
L - Left C	R - Righto
G₁− RPM feedback	
F - Pulse feedback	V - Analog voltage feedback
G ₂ Control mode	
IV - Built in analogue IP - Built in PPM IC - Built in CAN	OV - External analogue OP - External PPM OC - External CAN