

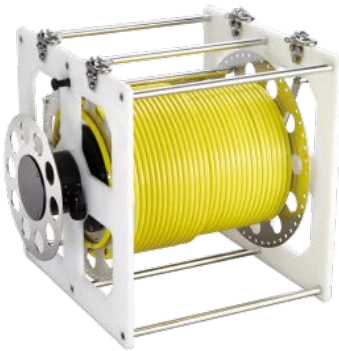
TMC 500 DC Brushless Thruster



Dot Laser



Winch



Buoyance Umbilical

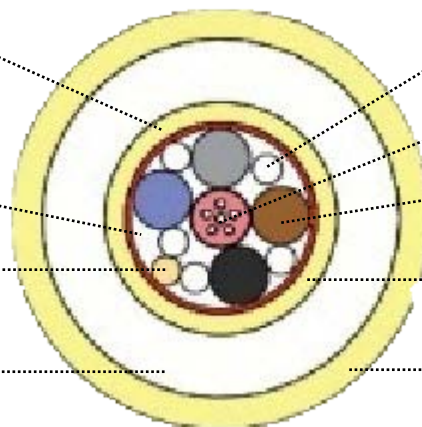


Water Blocking Compound

PE Mylar

20 AWG x 1

Buoyance



Kevlar

Single Mode Optical Fiber x 6

18 AWG x 4

Kevlar + Spectra

SEBS Outer Layer

➤ TMC 500 DC Brushless Thruster



Mechanical	
Length	212mm
Diameter	65mm(Housing), 180mm(Propeller Cage)
Net Weight	2.8kg(In Air) ; 1.5kg(In Water) including duct
Thrust	25kgf/ Forward ; 16kgf/Reverse
Connector	BIRNS 8 Pins or Optional
Standard	Hard Anodized 6061-T6 Aluminum
Electrical	
Input Power	300VDC. 2.35A (48V, 150V, 250V Selectable)
Power	+5V ~ -5VDC Analog for Speed Control / RS485 Optional
Environmental	
Depth Rating	750m
Operation	-10°C ~ 50°C

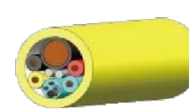
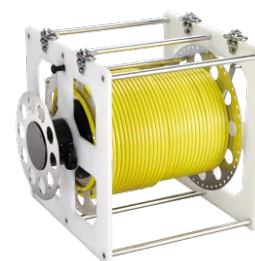
➤ Dot Laser



Mechanical	
Dimension	L:125mm , D:26mm
Weight	0.19kg(In Air), 0.12kg(In Water)
Standard Housing	Hard Anodized 6061-T6 Aluminum
Window Material	Acrylic
Connector	DWTEK P/N:C1-01-02MN20 BIRNS P/N:MCBH2M (4Pins) or Option
Electrical	
Voltage	6 to 30 VDC(Recommended: 12 to 24V)
Power	180 mA
Output	100 mW
Laser Type	Laser Dicde
Wavelength	650 nm (Red)

➤ Winch

Mechanical		Electrical	
Dimension	W:670mm, L:700mm, H:670mm	Power Slip Ring	3 Passes at 15 A, 380 VAC (Higher Voltage and Current Available)
Weight	45kg (Without Umbilical)	Data Slip Ring	24 Passer at 2 A ; 1CH HD-SDI Pass (BNC Connector)
Capacity	1.45 mm at 300 Meter Max	Fiber Transceiver	Built-in Available



➤ Buoyance Umbilical

Conductors	Spec-1	18AWG X 4C (30/0.18 strand Copper conductor)	18AWG X 4C (30/0.18 strand Copper conductor)
	Operating Voltage	600 VDC	600 VDC
	Insulation Material	PE Mylar	PE
Coax	Spec-2	20AWG (Bare wire 20/0.18 Strand Copper Conductor)	N / A
	Spec	N / A	
Shielded	Conductor	N / A	5 CFV x 1C (75Ω)
	Spec	N / A	24 AWG x 4C
Fiber	Conductor	N / A	7/0.2 Strand Tin Plated Copper Conductor
	Spec	Single Mode Fiber 9/125um x 6C	N / A
Inner Water Blocking Compound	Cover Layer	Nylon	N / A
	Material	Polyester Resin	N / A
Strength Member	Material	Kevlar	Kevlar
Buoyance Layer	Material	TPR	N / A
Outer Jacket	Material	SEBC	Polyurethane
	Outer Diameter	14.5 mm	11.0 mm
Weight in Air		165 kg/KM	137 kg/KM
Weight in Water		Neutrally Buoyance (-1.2 kg/KM)	50 kg/KM
Min. Breaking Strength		840 kg	500 kg