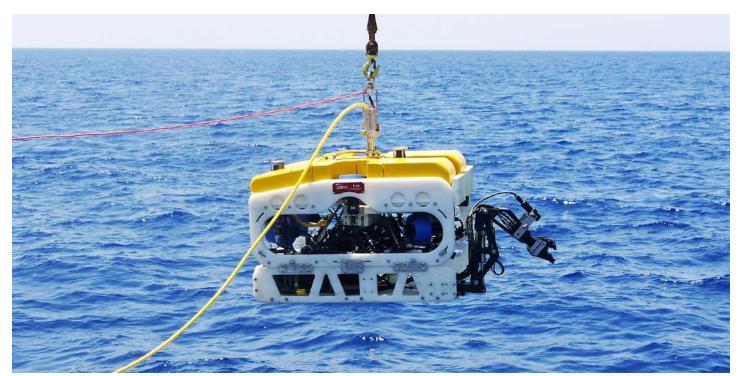


DWTEK Underwater Technology

ROV Sales & Rental, TMS, ROV DVR, Underwater Connectors & Components Offshore Services
Vessel Chartering & Bunkering











About DWTEK

DWTEK Co., Ltd., founded in 2008, is the first company in Taiwan specializing in underwater technology. DWTEK's product line includes ROVs, underwater connectors, and various subsea components.

Furthermore, DWTEK provides comprehensive support to the international offshore industry with ROV services, subsea inspections, surveys, IRM, vessel chartering and bunkering services.

Underwater Products



☑ ROVs, TMS, ROV DVR, Underwater Connectors

☑ Underwater Components

Latch&Bullet, Thrusters, Cameras, Lights, PTZ, Sensor, Servo, Cable Reel, Winch, Lasers, Sheave Wheel

2

Offshore Services

☑ ROV Services, Subsea Inspections, Survey, IRM

3

Vessel Services

- ☑ Offshore Support Vessel (OSV)

ROVs









190+



190

Dimension (L x W x H)	1,100 x 700 x 490 mm	1,100 x 700 x 530 mm
Weight in air	120 kg	130 kg
Depth rating (Standard)	500 m	500 m
Depth rating (Optional)	1,000 m	1,000 m
Payload	27 kg	25 kg







Crawler



Monew

Dimension (L x W x H)	2,100 x 1,300 x 1,200 mm	1,300 x 1,160 x 923 mm
Weight in air	800 kg	350 kg
Depth rating (Standard)	1,000 m	300 m
Depth rating (Optional)	3,000 m	N/A
Payload	180 kg (no manipulator)	30 kg

ROV Control Systems

1. Console Terminal



- ☑ 3U Industrial PC
- ☑ Hand Controller



2. Control Container

- ☑ 16ft / 20ft
- ☑ DNV-GL Certification
- ✓ Monitors
- ☑ Industrial Panel Computer
- ☑ Joysticks (20ft)





ROV DVR

- ☑ Project Management
- ☑ Various Data and a Logo Overlay
- ☑ Import and Export Excel Files
- ☑ Network Video Sharing



- ☑ Appearance Design
- ☑ Internal Chamber Design

ROV Customization

- ☑ Wiring Layout (Chamber, Component)
- ☑ Software Design (ROV DVR)







Tether Management System (TMS)

Underwater Components





Cage

☑ I-90 series



Top Hat

☑ Monew Only



Underwater Connectors

☑ Dry-Mate Series

☑ Diving Series

☑ Penetrator Series

☑ Specials



Thrusters

☑ Direct Drive

☑ Magnetically

Coupling Brushless

☑ Shaft Drive



Cameras

☑ 4K (Fiber)

☑ SD (CVBS)

☑ AHC (AHD)

☑ HD (Fiber, Coaxial,

Ethernet)



Lights

☑ 23W

☑ 80W

☑ 150W



Latch & Bullet

☑ 20mm



Servo



Sensor

☑ Depth, Heading

☑ Pitch, Roll



Pan Tilt Zoom (PTZ)



Laser

☑ Green/Red Light

☑ Point/Line Types



Cable Reel

☑ Adjustable Speed

☑ Slip Ring Upon Request



Winch



Sheave Wheel

☑ Load Limit: 500 KG



Underwater Connectors (Wet-Mate Series)

✓ Can be safely plugged in and unplugged underwater when the power is turned off.



Standard Circular (SC)

☑ Contact: 1, 2, 3, 4, 5, 6, 8, 10, 12, 16, 25

☑ BH, IL, OM, AT, PBOF, DC, BT

☑ 600 V DC, 600 Bar, -40 to 60°C



Micro Circular (MC)

☑ Contact: 2, 3, 4, 5, 6, 8, 10, 12, 16, 21

☑ G2BH, G2IL, G2DC, BH, T Shape BH, IL, DC, OM, BH RA, BH DO, BT

☑ 300 V DC, 600 Bar, -40 to 60°C



Low Profile (LP)

☑ Contact: 2, 3, 4, 5, 7, 9, 12

☑ BH, IL, IL RA, DC

☑ 600 V DC, 300~600 Bar, -40 to 60°C



Low Profile Micro (LPM)

☑ Contact: 2, 3, 4, 5, 6, 7, 8

☑ BH, IL, OM, DC

☑ 300 V DC, 300~600 Bar, -40 to 60°C



High Power (HP)

☑ Contact: 1, 4

☑ BH, IL, OM, DC

☑ 600~1,000 V DC, 600 Bar, -40 to 60°C



Power Battery (PB)

☑ Contact: 2, 3, 4

☑ BH, IL, DC

☑ 600 V DC, 600 Bar, -40 to 60°C









Coax 50 Ohm (CX50)

☑ Contact: 1

☑ BH, IL, DC

☑ 300 V DC, 600 Bar, -40 to 60°C



Rubber Mold (RA, RG, RK)

☑ Contact: 1, 2, 3, 4, 5

☑ Type: A, G, K

☑ IL, DC

☑ 600 V DC, 600 Bar, -40 to 60°C



Ethernet (ET)

☑ Contact: 8, 13

☑ SCBH, SCIL, SCDC, MCBH, MCIL, MCOM, MCDC, LPBH, LPIL, LPDC, Metal Shell 2000 (FCR&BCR)



IE08 (IE08)

☑ Contact: 8

☑ BH, IL, DC

☑ 300 V DC, 600 Bar, -40 to 60°C



IE55 (MS55)

☑ Contact: 2, 3, 4, 6

☑ BCR, CCP, DC

☑ 300 V DC, 600 Bar, -40 to 60°C



Wet Metal Shell (MS15, MS20)

☑ Contact: 2, 3, 4, 5, 6, 8, 10, 12

☑ 300~600 V DC, 600 Bar, -40 to 60°C

Underwater Connectors (Wet-Mate Series)

✓ Can be safely plugged in and unplugged underwater when the power is turned off.



Diving (EO)

☑ Contact: 2

☑ IL

☑ 600 V DC, 600 Bar, -40 to 60°C



Penetrator Right Angle (PNTCRA)

☑ Contact: customer specified

☑ Type: A, B, C, D

☑ 300~600 V DC, 600 Bar, -40 to 60°C



Penetrator Straight (PNTCS)

☑ Contact: customer specified

☑ Type: C,D,E







Underwater Connectors (Dry-Mate Series)

✓ Can only be plugged and unplugged onshore when the power is turned off.



Dry Metal Shell G (MSG)

☑ Contact: 2, 3, 4, 5, 6, 7, 8
☑ FCR, BCR, CCP, CCP-RA
☑ 300 V DC, 600 Bar, -40 to 60°C



Dry Metal Shell L (MSL)

☑ Contact: 2, 3, 5, 7, 8, 10, 12, 16
☑ FCR, BCR, CCP
☑ 300~600 V DC, 600 Bar, -40 to 60°C



Dry Metal Shell S (MSS)

☑ Contact: 1☑ BCR, CCP☑ 300 Bar, -40 to 60°C



Dry Metal Shell S Mini (MSSM)

☑ Contact: 1☑ BCR, CCP☑ 300 Bar, -40 to 60°C



55 Series 5515 (5515)

☑ Contact: 8
☑ FCR, BCR, CCP/AT, CCR, CCP, DC
☑ 600 V DC, 600 Bar, -40 to 60°C

Underwater Connectors (Specials)

✓ Wet-Mate Series: Can be safely plugged in and unplugged underwater when the power is turned off.

✓ Dry-Mate Series: Can only be plugged and unplugged onshore when the power is turned off.



Proximity Switch (PSILRA)

☑ Contact: MCIL Contact 2 x PSILRA Contact 0

☑ 300 Bar, -40 to 60°C



Field Installable Connector (FIA)

☑ Contact: 4

☑ IL, OM, BT

☑ 600 V DC, 600 Bar, -40 to 60°C

Underwater Connectors (Accessories)









Underwater Connectors (Customization)



1. Cable Assembly

- ✓ Cable material
- ☑ Double-ended or Multiple-ended
- ☑ Special cable sourcing
- ☑ Client-consigned cable welding



2. Electricity

- ✓ Voltage
- ☑ Amp



3. Wiring

- ☑ Shortage wiring



4. Color

- ☑ Colored dummy
- ☑ Colored locking sleeve



5. Bulkhead & Thread

- ☑ Bulkhead Material
- ☑ Thread Length
- ☑ Thread Pitch



6. Pin

- ☑ Pin quantity
- ☑ Pin electroplating(golden, palladium, palladium nickel, silver, rhodium, tin)

2. Offshore Services





General Visual Inspections

(GVI, Tool: Camera)

Foundation (FDN) Weld

Damage to the Structure

Paint Coating

Cathodic Protection (Anode/ICCP)

Scour Protection

Cable Entry Inspection (J Tube)

Marine Growth

Grout Inspection

Non-destructive Testing

(NDT Tools)

CP Readings (CP Probe)

Ultrasonic Thickness Measurements (UT Gauge)

Flood Member Detections (FMD System)

Eddy Current Testing (Pulsed EC Probe)

Other Inspections

Marine Growth Removal (Rotation Brush)

Scour Monitoring (Multibeam Survey)

Grout and Paint Coating Inspections (Sensor)

Subsea Cable Depth of Burial (Cable Tracke)















3. Vessel Services





Vessel Chartering



Offshore Support Vessel (OSV): Sunny Bright

- ☑ DP1
- ✓ CR & BV Certifications



Crew Transfer Vessels (CTV): Prosperous 1, Prosperous 2

☑ CR Certification



Vessel Bunkering

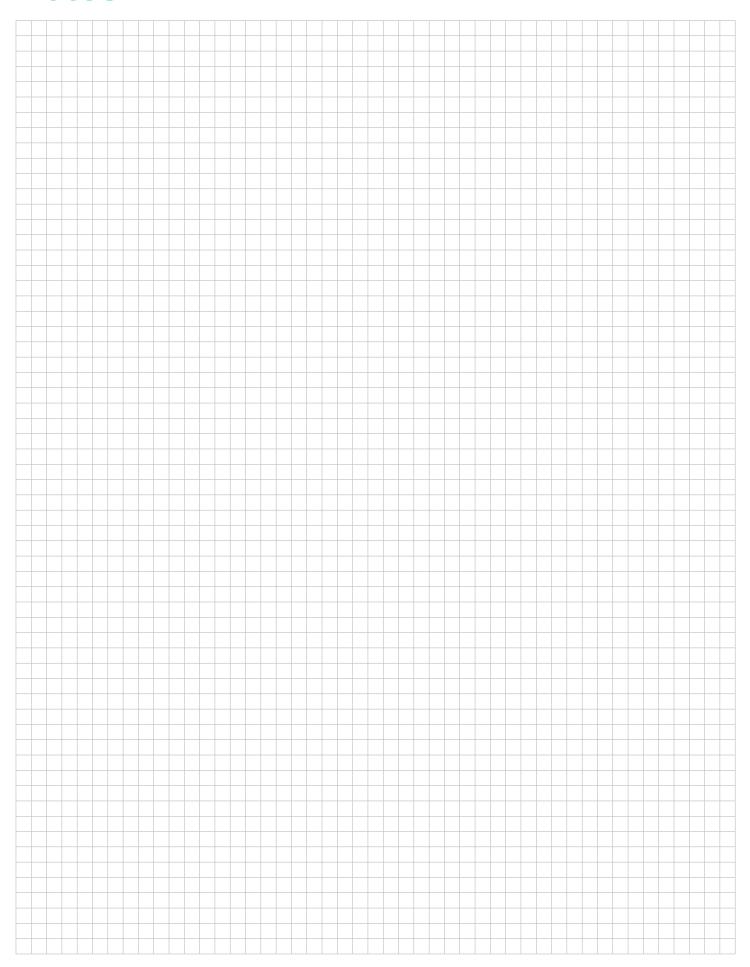


Taiwan-Qualified Vessel Capable Of Supporting Ship Bunkering

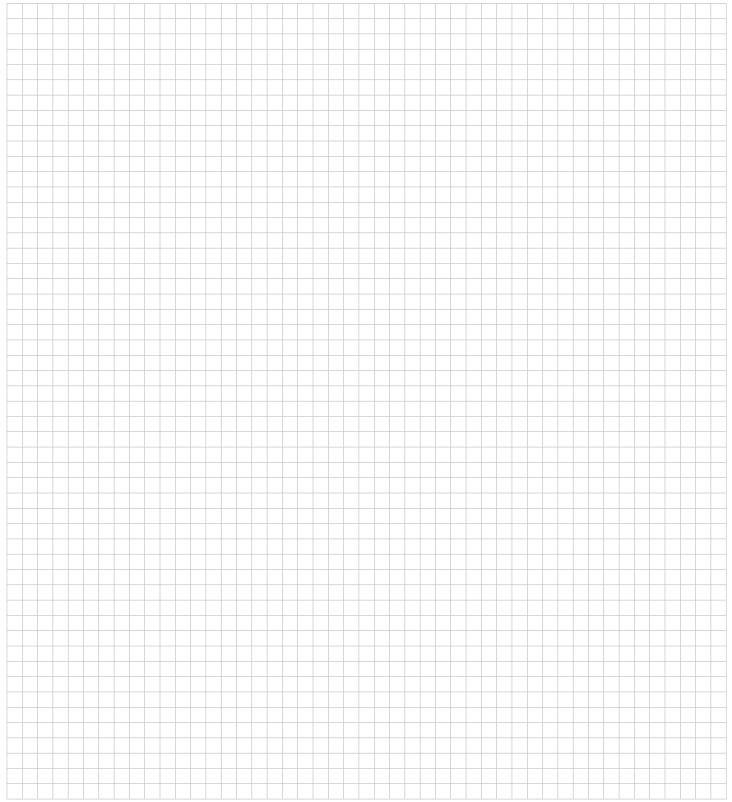
☑ Bunkering



Notes

















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ISO 14001