



HELIX
CANYON OFFSHORE

SCHILLING HD ROV

SPECIALITY MARINE CONTRACTING ROV SYSTEM



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Schilling's Heavy-Duty (HD) ROV System is designed for performance, reliability, and maintainability.

The **Schilling Heavy-Duty (HD) ROV System** is designed for performance, reliability, and ease of maintenance. Innovative features in the frame design and modular sub-systems combine to produce a high performance vehicle suitable for IRM, drill support, and heavy-duty construction operations, while maintaining a compact system footprint ideal for rapid transportation and mobilization.

Innovative features in the frame design and modular sub-systems combine to produce a high-performance vehicle suitable for IMR, drill support, and heavy-duty construction operations, while maintaining a compact system footprint ideal for rapid transportation and mobilization. It is designed to support IMR, drill support, and heavy-duty construction operations in 3,000 msw (optional 4,000 msw available) with 425 to 850 m tether capacity.



EXPERIENCE

Canyon Offshore currently operates and maintains 54 work class ROVs, 5 trenching systems, 2 ROVDrill systems and 3 DP III support vessels via strategic offices in key areas of the world.



INNOVATION

Canyon Offshore works closely with our clients and vendors to seek and resolve complex technical developments to engineer practical solutions and implement in the most efficient, safe and economical ways possible.



VALUE

Canyon Offshore is one of the most innovative and reliable specialty marine contractors in the world. Focusing on providing leading edge underwater, unmanned services in extreme environments, Canyon strives to deliver the highest value to its customers.

VEHICLE SPECIFICATIONS

Through-Frame Lift	3,000 kg
Weight in Air	3,700 kg
Dimensions	2.5 m x 1.7 m x 1.9 m

Payload	250 kgf
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Thrust Performance

Forward / Aft / Lateral	900 kgf
Vertical – Up / Down	850 kgf

Equipment Fit

Cameras	Various options
Depth Sensor	Digiquartz®
Heading Sensor	Schilling
Doppler	RDI Navigator 1,200 kHz
Strobe	ST400AR
Lights	(8) ROS 110AC
Pan and Tilt	Schilling Electric
Valve Pack	(2) 8-function

Propulsion

HPU	150 hp, 112 kW
Operating Pressure	207 bar
Thrusters	(7) Sub Atlantic

Hydraulic Requirements

Fluid	Mineral, glycol, or synthetic
Maximum Pressure	70 LPM

APPLICATIONS

150 hp HPU

3 t through-frame lift

250 kgf payload

StationKeep™ installed, standard

Compact footprint

High thrust performance

3,000 msw standard; 4,000 msw option

70 LPM auxiliary hydraulic system

Extensive tooling installation space

FRAME

The HD incorporates high strength-to-weight ratio frame design that enables a very high specification within a compact footprint.

TETHER MANAGEMENT SYSTEM (TMS)

The HD Tether Management System (TMS) has been designed around a field-proven 'shuttling drum' concept that provides exceptionally simple tether routing. The complete tether drum moves on a carriage system allowing the tether to exit the drum directly above and through the payout sheave.

425 m tether capacity standard, 850 m capacity EXE model, option

28 mm lightweight tether

Electrically driven without hydraulics

Duplex stainless steel construction

Shock absorbing docking snubber unit

9.7 t safe working load

6.7 t lower latch capacity

TMS SPECIFICATIONS

Safe Working Load 9,700 kg

Through-Frame Lift 6,700 kg

Weight in Water 1,580 kg

Dimensions 1.85 m x 2.19 m

Haul in Speed 50 mpm

TETHER

The 28 mm tether takes advantage of reduced conductor size at 4,160 VAC to enable a durable, lightweight TPR yellow jacket.

Capacity 425 m or 850 m

Depth Rating 3,000 to 4,000 msw

Manufacturer Nexand RT 528

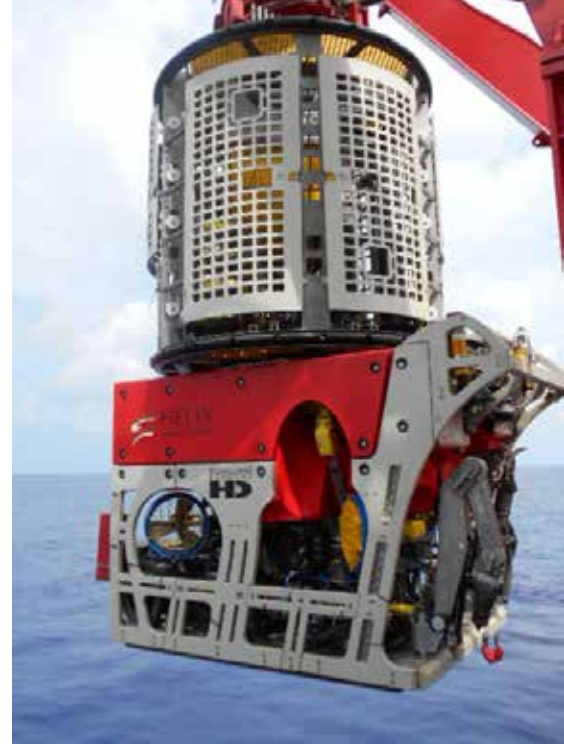
Minimum Band Diameter 425 mm

Safe Working Load 20 kN


Minimum Break Load 110 kN


TETHER HANDLING

The HDs tether management system utilizes a shuttling drum concept to ensure that the tether always spools from the drum directly in line with the TMS exit point. A simple tether routing path through the pinch wheel and sophisticated software control of motor torque provide exceptional tether handling performance, regardless of the conditions created by any tether surface contamination.








 **Canyon Offshore - Americas**
3505 W. Sam Houston Parkway North,
Suite 400
Houston, Texas 77043 USA

 Office 281-618-0400
Fax 281-681-0544

 **Canyon Offshore - Europe / West Africa**
Helix House, Kirkton Drive,
Pitmedden Industrial Estate,
Dyce, Aberdeen, UK, AB21 0BG

 Office +44(0)1224.351800
Fax +44(0)1224.351801

 **Canyon Offshore - Asia Pacific**
25 Loyang Crescent
Loyang Offshore Supply Base
Block 603, Tops Ave 6, Unit 1, Box 5009
Singapore 508988

 Office +65 6.501.0130
Fax +65 6.542.8675