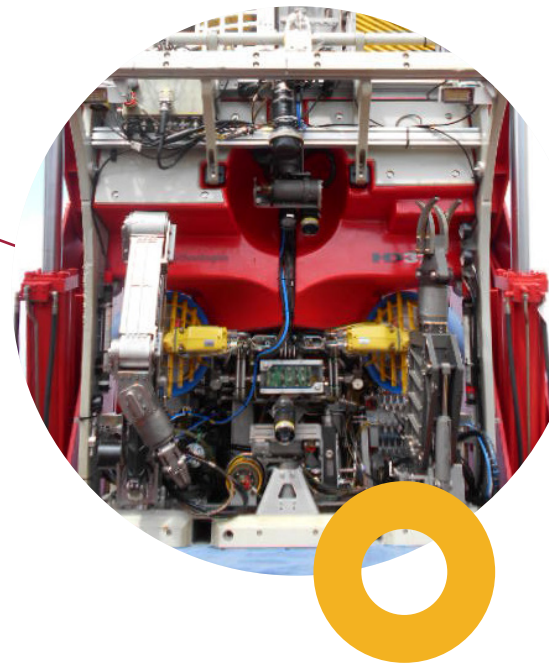


Schilling UHD III ROV

Remotely operated vehicle



The **Schilling UHD-III ROV** system delivers market-leading performance for the most difficult deepwater tasks.



The 250-hp Schilling UHD-III ROV is capable of handling all ultra-heavy-duty requirements, capabilities with API 53 standards for secondary BOP intervention. This capability also enables users to perform other demanding tasks, including well intervention and hydrate remediation, using multiple fluids that can be carried onboard the ROV.

In addition to providing the most comprehensive intervention capability available, *Schilling UHD-III ROV* incorporates features that further enhance the productivity of offshore operations. The system leverages the benefits of modular design for rapid maintenance, first introduced with Schilling Robotics' HD ROV. This modular approach improves maintenance times by a factor of 6-to-1 compared to traditional vehicles, and ensures that ROV operations are more reliable and productive than ever before.

Performance of intervention tasks has also been enhanced through the integration of a high-definition video suite (HDTV). Enhanced automation dramatically reduces the time required to perform common intervention tasks by stabilizing the position of tooling relative to the intervention panel.

System-level design addresses all the major equipment elements (ROV, TMS, LARS, vans, and umbilical) to effectively optimize offshore operations. All aspects of the system have been aligned to provide exceptionally high reliability, combined with ease of operation and maintainability.



Experience

Helix Robotics Solutions currently operates and maintains 54 work class ROVs, 5 trenching systems, 2 ROVDrill systems and 3 DP III support vessels and 1 DP II IMR vessel via strategic offices in key areas of the world.



Innovation

Helix Robotics Solutions 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

Helix Robotics Solutions 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, Helix strives to deliver the highest value to its customers.

TECHNICAL SPECIFICATIONS

ROV vehicle specifications

Docking Interface SWL	13,025 kg
Through-Frame Lift	3,500 kg
Payload	450 kgf

ROV vehicle dimensions

Length	3.5 m (11.4 ft)
Width	1.9 m (6.2 ft)
Height	2.1 m (6.9 ft)
Weight in Air	5,600Kg (12,345 lb)

ROV applications

The Schilling UHD-III ROV offers a compact combination of thrust, payload, high through-frame lift, and sensor interface to support most offshore work re-quirements, including, but not limited to:

Drill Support
Construction Support
Platform Cleaning and Inspection
Subsea cable burial and maintenance
Deepwater salvage
Remote tool deployment
Subsea Pipeline completion
Suction Pile Installation

Peak thrust performance

Forward / Aft / Lateral	1,200 kgf
Vertical – Up / Down	1,000 kgf
Station Keep	10 cm

ROV equipment list

Manipulators	1x Titan 4 - 7 Function 1x Atlas -7 Function
Cameras	SD and HD
Depth Sensor	TOGS
DVL	RDI 1200kHz
Lights	12 x Variable 120 VAC / 250 W
Pan & Tilt	Schilling Electric
Valves	14 x 8 LPM 4 x 32 LPM 2 x 160 LPM

Auxiliary pump capabilities

Output	Capable of 50 GPM at 5,000 psi Capable of 75 GPM at 2,500 psi
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Pumps Independent Aux 1 and Aux 2 Fluids Simultaneously

Fluids Supported	Hydraulic Oils, Glycols, Sea-water, MEG Methanol
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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.

Standard 850 m capacity EXE model

28 mm lightweight tether

Electrically driven without hydraulics

Duplex stainless steel construction

Shock absorbing docking snubber unit

TMS specifications

Safe Working Load	12,500 kg
Through-Frame Lift	9,000 kg
Weight in Water	1,800 kg
Dimensions	2.20 m x 2.18 m
Haul in Speed	Variable 10-50 mpm

Hydraulic system

HPU	250 hp
Auxiliary	150 hp
Operating Pressure	207 Bar
Thrusters	(7) Sub Atlantic 420

Digital video suite

The digital video-over-Ethernet system can transport both HD and SD video, through H.264 compression, that can be annotated and recorded via the video PC on surface.

- High-definition, low-latency streaming video at 1920 x 1080 resolution, 60 frames per second
- Video streaming using H.264 compression over RTSP
- SD low-latency streaming video at NTSC/PAL resolution
- Topside video output: HDMI, NTSC/PAL analog video
- Enables 1080P HD video transmission over standard Ethernet communications





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