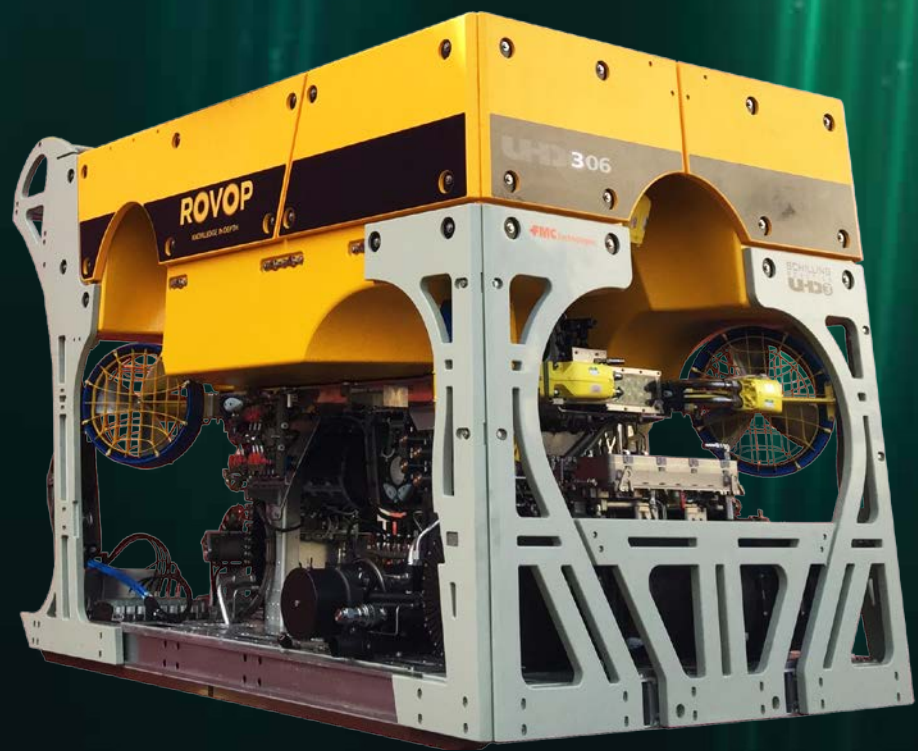


TECHNICAL SPECIFICATION

SCHILLING
UHD GEN III
WORK
CLASS
ROV
SYSTEM



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ROVOP
KNOWLEDGE IN DEPTH

TECHNICAL SPECIFICATION

SCHILLING UHD III WORK CLASS ROV SYSTEM

MODEL

Schilling UHD Gen III (Ultra-Heavy Duty)

MANUFACTURER

FMC Technologies

The UHD III delivers market leading performance for the most arduous deepwater tasks. The 250Hp vehicle is capable of handling all ultra-heavy duty requirements and is the only work-class ROV available that can meet the API 53 standards for secondary BOP intervention, including 45-second RAM closure.

With 150Hp dedicated for intervention applications, the UHD III uniquely delivers the combined pressure and flow requirements that cannot be achieved with conventional ROV systems.

KEY FEATURES

- Most versatile 250Hp ROV with 150Hp auxiliary output
- Capable of meeting API 53 standards for BOP intervention, including 45-second RAM closure
- Intelligent power management system providing highest thrust performance for ultra-heavy-duty tasks
- Industry's most accurate StationKeep with independent thruster control
- High-definition (HDTV) video suite as option
- 60-minute modular maintenance
- High integrity hydraulic system, including all stainless steel tubing
- Intervention Automation
 - Tool Grab - as option
 - Tool Dynamic Positioning - as option
 - Manipulator Follow - as option

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SPECIFICATIONS

STRUCTURAL

Safe Working Load (ROV Lift point)	8,788 kg	19,334 lbs
Through-Frame Lift	3,500 kg	7,716 lbs
Weight in Air	5,500 kg	12,125 lbs
Payload	450 kg (3,000m)	990 lbs
Dynamic Amplification Factor	3.0	Vertical
Dynamic Amplification Factor	1.0	Horizontal

PERFORMANCE – THRUST

Forward / Aft / Lateral	1,200 kgf	2,646 lbf
Vertical – Up / Down	1,000 kgf	2,205 lbf

EQUIPMENT FIT

7 Function Manipulator	Schilling T4
5 Function Manipulator	Rigmaster
Cameras	Various Options
Depth Sensor	Digiquartz
Heading Sensor	Schilling
Doppler	RDI 1200 kHz
Strobe	ST 400 AR
Sonar	Tritech DST
Lights	(Up to 12) Variable 120vac / 250w
Pan and Tilt	Schilling Electric Programmable
Standard Valve Pack	8 X Prop with individual pressure and Flow
Tooling Valve Pack	12 Way Configurable inc: 2 X High Flow Proportional 6 X NG3 Proportional 4 X NG6 Proportional

PROPULSION

Vehicle HPU	250 Hp
Main Pump	Twin pumps combine for 435 lpm at 207 bar
Nominal Operating Pressure	3,000 psi
Thrusters (7)	Sub Atlantic SA 420

HYDRAULICS – AUXILIARY CIRCUIT

Auxiliary Pump	150 Hp (8 piston)
Nominal Operating Pressure	5,000 psi
Maximum Flow	190 lpm at 345 Bar (8 piston)
Spare Functions	15

ROVOP

KNOWLEDGE IN DEPTH

PAYLOAD

The UHD Gen III has a substantial payload capability of 450 kgs, when including the standard equipment and auxiliary hydraulics system option. This enables a wide variety of intervention tooling to be integrated to the ROV without having to add buoyancy

FRAME

The UHD Gen III Frame has been designed with access and tooling interface as a primary consideration. The lower frame has a removable section of grating to support installation of additional equipment. The frame is manufactured from 6061-T6 Aluminum and is of a bolted, riveted and welded construction.

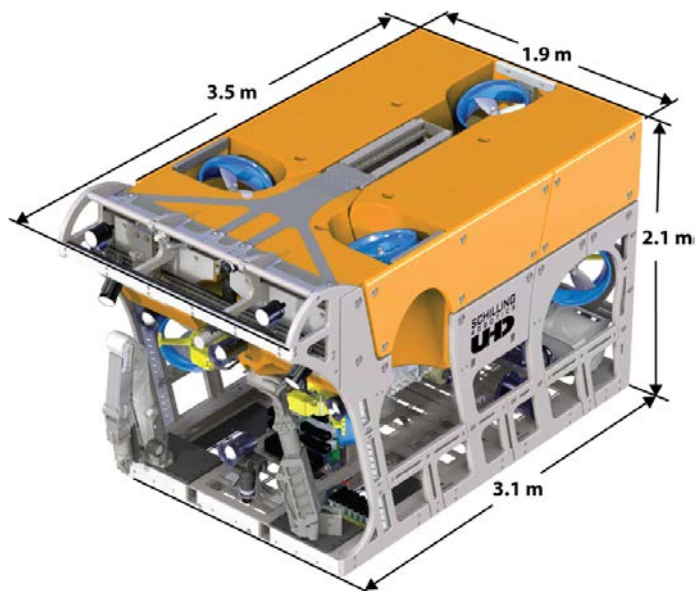
The Frame includes a 4 Point Tooling interface with centers of 795mm x 428mm

Aft – mounted capability	250Kg @ 500mm CG
Front – mounted capability	250Kg @ 500mm CG
Side – mounted capability	250Kg @ 500mm CG

CONTROL SYSTEM

FMC Schilling Robotics' new ROV control system, designated Hammerhead, is designed to improve operators' efficiency, increase system diagnostics capabilities, improve system reliability, and provide an extensible platform for future enhancements.

VEHICLE DIMENSIONS



SCHILLING EXE TMS SYSTEM

MODEL

Schilling EXE TMS (Electric Extended Excursion)

MANUFACTURER

FMC Technologies

The EXE TMS has a maximum tether capacity of 850m of 28mm OD tether.

The design incorporates a very simple tether path from the drum to the exit point of the TMS, promoting maximum tether life.

The TMS is all electric and is powered from a single branch circuit reducing required cores in the umbilical, therefore reducing umbilical OD.

The TMS control system is part of the ROV Digital Telemetry System and as such the components are 100% interchangeable, reducing spares holding requirements and improving fault diagnosis.

The TMS is controlled from within the latest Hammerhead control system for the ROV.

KEY FEATURES

- Simplified Tether path
- Depth rating to 4KM
- Frame Material – Duplex Stainless Steel
- Level-wind – Shuttling drum technique
- Electric power – 4160vac
- Line Speed – 10 to 50 meters/min proportional control.
- DC drive Motors
- Digiquartz depth sensor
- 1 X Fixed Camera
- 1 X Pan & Tilt Camera



SPECIFICATIONS

SWL (TMS Lift Point)	13,052kg	28715lbs
Tether length:	850m	2789ft
Tether diameter	28mm	1.10in
Air Weight	3000kg	6600lbs
Water Weight	1,600kg	3527lbs
Height	2.24m	88in