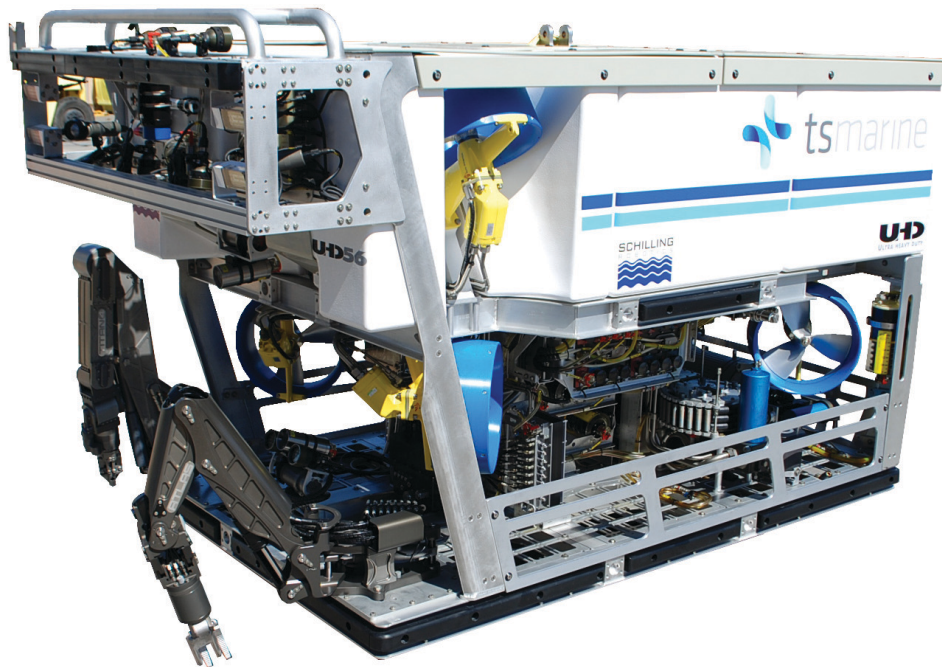


Schilling UHD

200HP Ultra Heavy Duty Workclass ROV System



The UHD is Schilling Robotics' latest workclass ROV system, combining the most advanced Remote Systems Engine technology with 200HP of hydraulic power.

The UHD workclass ROV system delivers the performance and maximum hydraulic power required in an ultraheavy-duty workclass ROV to accommodate the growing market for ultraheavy tasks, such as suction pile installation, flying lead installation, and other applications that benefit from redirecting power from propulsion to tooling operations. The 4000m rated UHD ROV system provides all the features required for deepwater ROV support tasks.

Depth Rating	4000msw
Tether Management System	Schilling Robotics XE (extended excursion) TMS 425m tether fitted as standard (850m optional)
Power	200HP hydraulic power systemy
Through Frame Lift	3500 kg
Control System	Schilling Robotics DTS (Digital Telemetry System)
Payload capacity	300kg. Minimum payload of 250kg lead ballast fitted
Manipulators	1 x 7 Function Titan 4 Manipulator 1 x 7 Function Atlas Grabber

Schilling UHD



200 HP Ultra Heavy Duty Workclass ROV System

Dimensions

Length	3000mm
Width	1900mm
Height	2100mm
Depth Rating	4000msw
Weight in Air	5000kg
Payload Capacity	300kg
Through Frame Lift	3500kg

Sensors

Heading, Pitch, Roll, stationkeep	Crossbow Motion Reference Unit (MRU) interfaced to Digital Telemetry System
Depth	Paroscientific Precision Depth Sensor
Altimeter. Altitude information provided through Doppler Velocity Log (DVL)	Teledyne RD Instruments Workhorse Navigator DVL
Sonar	Tritech Super SeaKing Dual Frequency

Auto Functions

Auto heading (semi & full)	± 2°
Auto Depth	± 250mm
Auto Altitude	± 150mm
Auto Pitch	± 2°
Auto Roll	± 2°
Stationkeep	± 300mm
Displacement	± 100mm

Manual Functions

Cruise Control	Provides the ability to set thrust level in direction of travel (%)
Trim	Provides manual adjustment of vehicle trim in all directions, including pitch
Displacement	Provides accurate displacements at a desired heading

Hydraulic System

Motor	3000VAC, 50/60Hz, 200HP. 1800RPM operating speed
Main hydraulic output pressure	275 bar
Main hydraulic output flow	238Lt/min
Auxiliary hydraulic output pressure	207 bar
Auxiliary hydraulic output flow	125Lt/min

Propulsion System

Thrusters horizontal	4 x Sub Atlantic SA420, vectored 45°
Thrusters vertical	3 x Sub Atlantic SA420
Bollard Pull (Nominal)	Forward 1000kgf Lateral 1000kgf Vertical (down) 900kgf Vertical (up) 850kgf

Cameras

Camera Interface	2 x junction boxes (Fwd & Aft mounted)
Standard fitted	Insite Pegasus colour zoom Insite Mercury low light Insite Aurora miniature colour camera Insite IT-1000 monochrome camera
Maximum capacity	8 cameras, 4 with focus & zoom

Lighting System

Circuit configuration	12 x dimmable circuits
Incandescent Lights	10 x 250Watt Deep Multisea
HID Lights	2 x 70Watt SeaArc 5000
Total lighting capacity	3000Watts

Manipulators

Right hand mounted	7 Function Schilling Titan 4 Manipulator
Left hand mounted	7 Function Atlas Grabber

LARS (Launch and Recovery System)

Winch capacity	4000m
Winch line pull	20Te Max (bottom layer)
Winch speed	44m/minute max.
A-frame outreach	4.7m
Winch/ A-frame controls	PLC based portable control box

TMS (Tether Management System)

Type	Schilling Robotics XE (extended excursion) top hat
Depth Rating	4000msw
Dimensions	2200mm diameter, 2250mm height
Weight- in air	4600kg (including tether)
Load capacity	8000kg
Lift capacity	12500kg (SWL)
Tether length	425m fitted (850m max.)

Deck Power Pack

Type	30HP Schilling stand alone charge cart housed in DNV certified lifting frame
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