



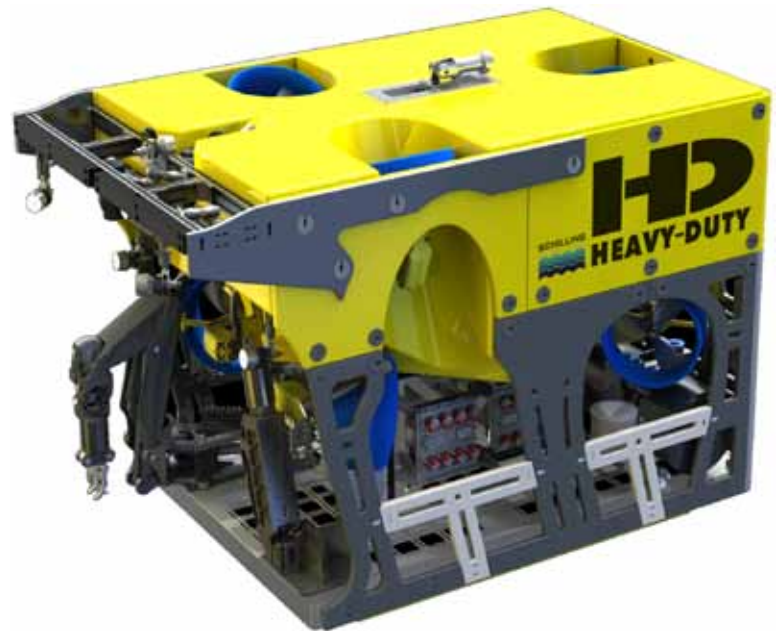
HEAVY-DUTY ROV



Mid-Sized Work-Class ROV System

The HD is a compact ROV system that provides flexibility for achieving high performance across all key markets. The HD features Schilling's unique power management system which delivers superior operational stability and control. Based on integrated sub-systems from Schilling Robotics' Remote Systems Engine™, the HD reduces complexity, increases efficiency, and lowers the cost of owning and operating an ROV.

- Delivers Industry Leading Work-Class ROV Performance and Provides Automatic Power Efficiency Management.
- Easily Configured to Perform a Wide Range of Operations and Associated Pricing Structures, including Drill support, IRM, and Construction Support.
- Increases ROV Pilot Efficiency through Intuitive ROV Control Interface, Automated Navigation, and Positioning Systems.
- High Reliability System Design based on Proven Core Sub-Systems from Schilling's Remote Systems Engine™.
- System Design Enables Rapid Maintenance with Modular Sub-System Redundancy.
- User-Configurable Digital Telemetry System™ (DTSTM) Featuring a Gigabit Ethernet Backbone that Accommodates any Configuration of Sensors and video cameras (including HDTV).
- Automatic Control Modes, including Heading, Depth, Altitude, AutoTrack, Auto Stability, and StationKeep™.
- Can be used with either a Highly-Efficient, All-Electric Tether Management System (TMS) or in a Free-Fly Configuration.
- Optimized System Footprint to Support Rapid Mobilizations and Road Transportability.



HD SYSTEM SPECIFICATIONS

Overall

Depth Rating:

- Standard 3,000 msw (9,843 fsw)
- Optional 4,000 msw (13,123 fsw)

Weight in Air 3,400 kg (7,497 lb)
(with lead trim and standard equipment installed)

Dimensions:

- Length 2.5 m (8.2 ft)
- Width 1.7 m (5.6 ft)
- Height 1.9 m (6.2 ft)
- Through-Frame Lift 3,000 kg (6,614 lb)
(in addition to vehicle weight)

Payload Capacity in Seawater, Standard 250 kg (551 lb)
(with standard accessories and manipulators installed)

Performance

Power

- Standard 93 kW (125 shp)

Bollard Pull

- Forward 830 kgf (1,830 lbf)
- Lateral 800 kgf (1,764 lbf)
- Vertical, Up 780 kgf (1,720 lbf)
- Vertical, Down 810 kgf (1,785 lbf)

Thrusters (Horizontal) 4 x Sub Atlantic SA380

Thrusters (Vertical) 3 x Sub Atlantic SA380

Automatic Control Modes: Heading (semi/full), Depth, Altitude, Auto Stability, AutoTrack, and StationKeep™

Flight Control Modes: Cruise, Trim, Pitch, Controlled Displacement

Tooling

Auxillary Hydraulic Circuit

- Standard 70 LPM (18 GPM) at 207 bar (3,000 psi)

Manipulator

- Standard ORION 7R
- Optional TITAN 4 or ORION 7P

Grabber

- Standard RIGMASTER, 5-function
- Optional ATLAS 7R, 7-function

Spare Hydraulic Functions 4, Standard
Optional Hydraulic Functions. Customer-Specified

Sensor/Telemetry

- FOG Standard
- Doppler Velocity Log. Standard
- HDTV Support Optional
- Instrument Power 8 kVA Total

System

Main Umbilical, Standard. Armored
Control and Work Container

- Standard 8 x 20 ft,
- Optional 8 x 16 ft
- Optional DNV/Zone-II

Operator Interface with Touchscreen Controls:

- Standard 3 x 24-inch HD-capable LCD Displays
- Handling system. Dynacon

SO DEEP, NO ONE COMES REMOTELY CLOSE



WWW.SCHILLING.COM
SALES@SCHILLING.COM

SCHILLING ROBOTICS, LLC
Headquarters
260 Cousteau Place, Suite 200
Davis, California
95618-5412 U.S.A.

Tel: +1 530 753 6718
Fax: +1 530 753 8092

SCHILLING ROBOTICS, LLC
Gulf of Mexico Regional Office
7102 W. Sam Houston Parkway N.
Suite 100
Houston, Texas
77040-3164 U.S.A.

Tel: +1 281 598 4100
Fax: +1 281 598 4130

SCHILLING ROBOTICS, LTD.
North Sea Regional Office
Unit N, Nord Centre
Aberdeen
AB11 5DN U.K.

Tel: +44 (0) 1224 560 900
Fax: +44 (0) 1224 560 901