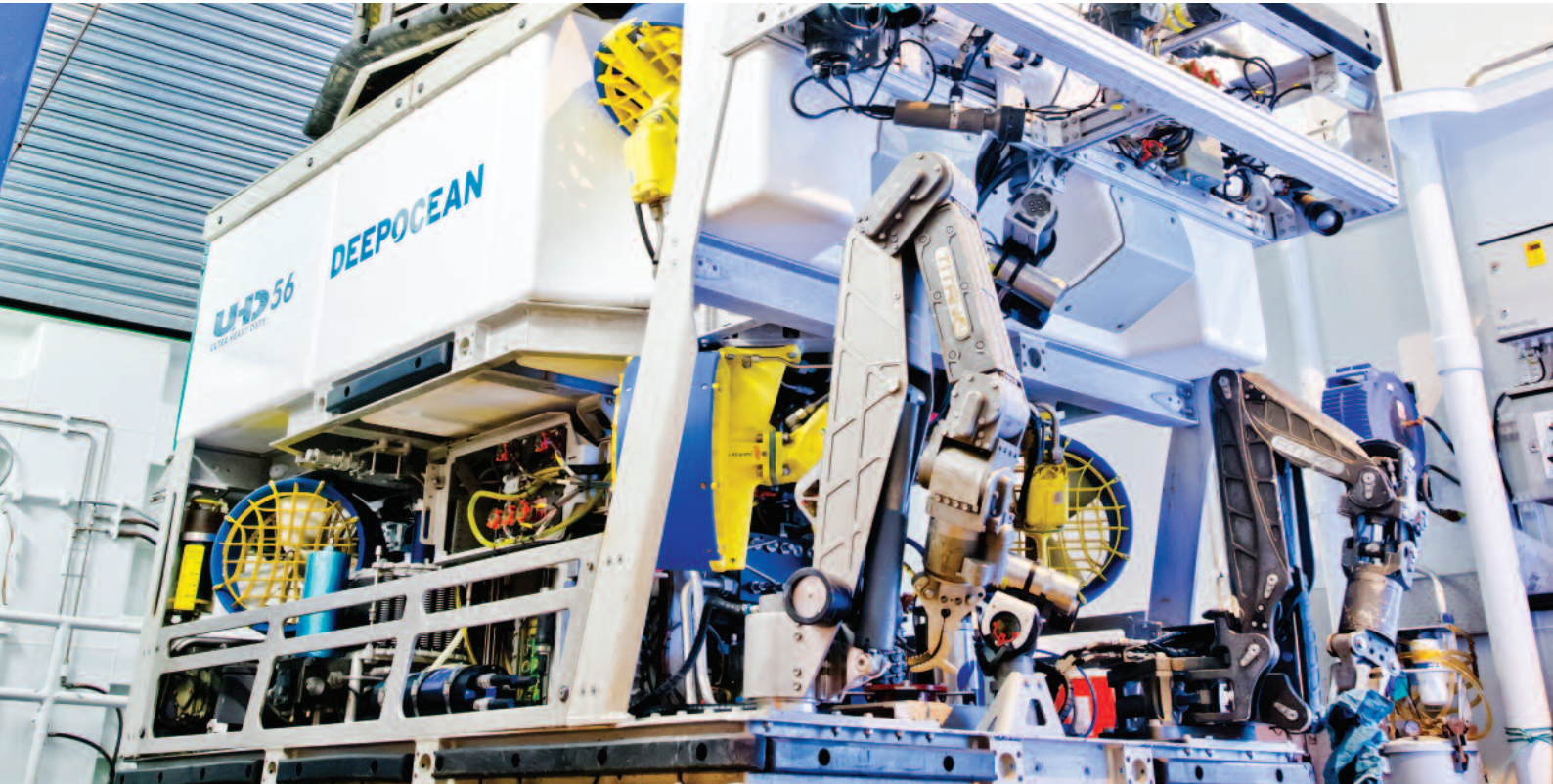


UHD ROV

SPECIFICATION SHEET



ULTRA HEAVY DUTY (UHD) WORKCLASS ROV SYSTEM

KEY FEATURES

The Schilling UHD is a 200HP industry leading work class ROV, suitable for deployment to 4000m. The multifunctional design has a proven capability in the provision of Survey, Intervention and Construction worksopes, and supports virtually all subsea heavy work requirements.

The UHD is designed for projects requiring significant power to handle, position and install subsea field equipment, with precise and stable control provided through advanced automatic piloting modes. The Active Heave Compensated Launch and Recovery System (LARS) allows rapid, safe deployment in more challenging conditions.

2 UHD ROV's are permanently mobilised on board the Havila Phoenix vessel. The combination of the UHD ROV's, the T1000 Jet Trenching ROV, T-3200 Mechanical/Jet Trencher and the Havila Phoenix vessel specification provides a step change in trenching capability within the subsea intervention market - the Ultimate Trenching spread.

- ULTRA HEAVY DUTY
- MULTIFUNCTIONAL DESIGN
- RAPID DEPLOYMENT
- ACTIVE HEAVE COMPENSATED LARS
- 4000M DEPTH CAPABILITY
- ADVANCED AUTOMATIC PILOTING MODES
- 200 HP ULTRA HEAVY DUTY UNIT
- LARGE CAPACITY FOR ADDITIONAL PAYLOAD
- PLUG AND PLAY TOOLING CAPABILITY

SPECIFICATION SHEET

DIMENSIONS

LENGTH	3m
WIDTH	1.9m
HEIGHT	2.1m
DEPTH RATING	4000m
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 INFO.	Teledyne RD Instruments
PROVIDED THROUGH DOPPLER VELOCITY LOG (DVL)	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	207 bar
AUXILIARY HYDRAULIC OUTPUT FLOW	125Lt/minr

DECK POWER PACK

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

CAMERA

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	4000m
DIMENSIONS	2200mm diameter, 2250mm height
WEIGHT IN AIR	4600kg (including tether)
LOAD CAPACITY	8000kg
LIFT CAPACITY	12500kg (SWL)
TETHER LENGTH	425m fitted (850m max.)