

EQUIPMENT SHEET

HD 18 W-ROV

150 HP WORK-CLASS ROV SYSTEM



INTRODUCTION

The 150 hp HD WROV, made and engineered by Schilling, is the next generation of advanced WROV systems that has been designed to ensure maximum flexibility to perform work across all key subsea markets including inspection, repair, maintenance (IMR) and construction market applications.

The HD features a unique power management system and advanced automatic piloting modes that deliver superior operational stability and precise control. Based on integrated subsystems, the HD reduces complexity, and increases efficiency of the ROV.

The HD is the first in the market to have an AutoTrack mode; this control system can accept coordinate inputs from an external source to allow automatic flight over a pre-planned route at a speed controlled by the operator.

Regarding the control van for the HD ROV System, this has efficiently been designed to use the available space for the equipment and focus on operator ergonomics.

STRUCTURAL

Through-Frame Lift	3,000 kg / 6,614 lb
Weight in air	3,500 kg / 7,716 lb
Payload	250 kgf / 551 lbf
Self weight, including oil	8.8 t
Size (lxbxh)	2.9 x 1.7 x 1.9 m

MAIN DATA

Work Class ROV system with 150 HP & 200 kgf payload

- 3,000 msw depth rating
- StationKeep & Midwater stationkeeping throughout the water column
- Titan 4: Seven function manipulator
- Atlas 7F function manipulator
- Camera package, lights, electric pan & tilt units

TMS system with 425 m excursion length

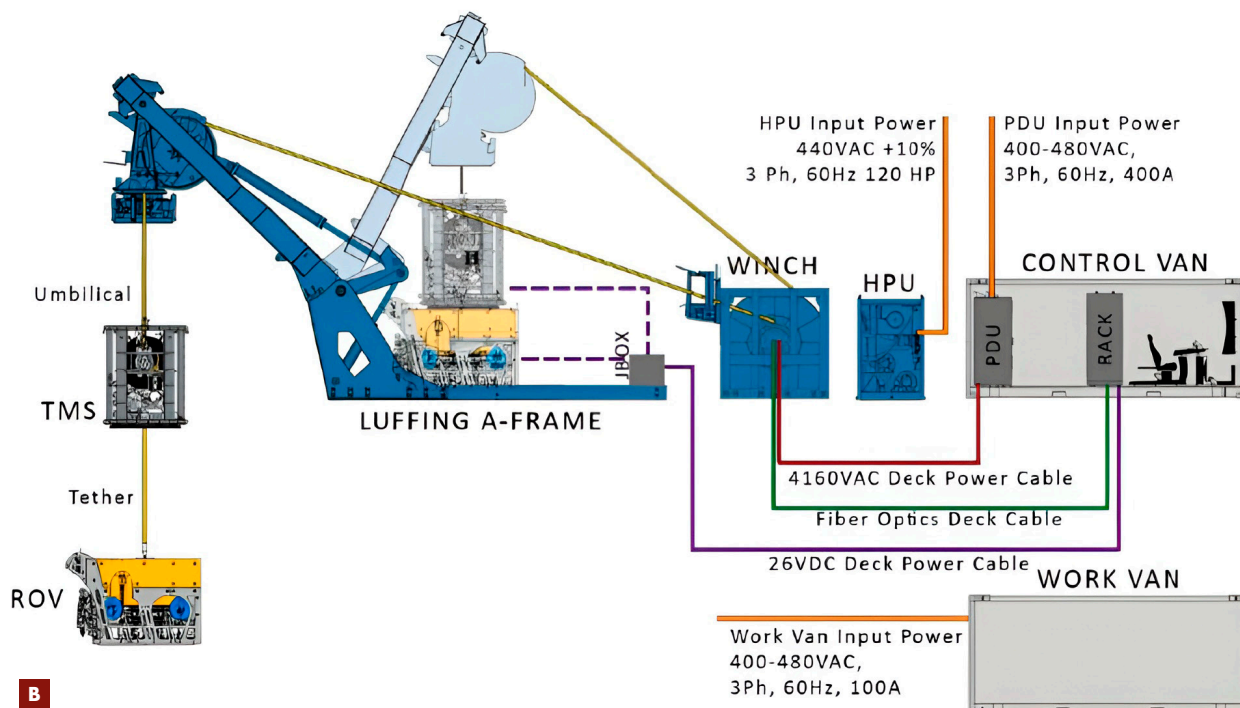
Launch and Recovery system:

- Luffing A-frame
- Winch with 3,000 m umbilical storage capacity
- Fitted with 1,000 m lift umbilical

Control & Workshop with spares and tools in containers on the back deck.

PERFORMANCE, PEAK THRUST

Forward	900 kgf / 1,984 lbf
Aft	900 kgf / 1,984 lbf
Lateral	900 kgf / 1,984 lbf
Vertical / up / down	850 kgf / 1.874 lbf



B

A HD 18 W-ROV
B Side view HD 18 W-ROV

PROPULSION

HPU	150 hp / 112 kW
Thrusters	Sub Atlantic SA380-40 x 7

Auto functions: Stationkeep, Mid-water stationkeep, Autodisplacement, AutoTrack, Vehicle trim

HYDRAULICS – AUXILIARY CIRCUIT

- Nominal operating pressure 207 bar / 3,000 psi
- Maximum flow (at 3,000 psi) 72 LMP / 19 US GPM

TETHER MANAGEMENT SYSTEM

Weight in air	2,800 kg / lb
Tether capacity	28 mm OD 425 m / 1,395 ft

LAUNCH AND RECOVERY SYSTEM (LARS)

HANGER STARBOARD SIDE

- A standalone system comprising:
- Lawson A-Frame: 990 m umbilical, 1,500 optional
 - Telescoping A-frame c/w umbilical sheave, damped docking snubber

VEHICLE EQUIPMENT FIT AS STANDARD

- Port manipulator: Schilling Atlas
- Starboard manipulator: Schilling Titan 4
- 1 x Low light camera: Kongsberg OE15-100C
- 1 x Color zoom camera: Kongsberg OE14-366
- 2 x Compact mini color camera: Kongsberg OE14-110
- Depth sensor: Paroscientific Digiquarts
- Internal navigation system: IxBlue Phins 6000
- DVL RDI Navigator 1,200 kHz
- Sonar, OAS, Trittech DST
- Sonar, Multi-beam, Trittech Gemini 720IS
- 8 x LED lights: controlled by LCU
- 2 x LED Floodlights Bowtech LED-V
- 2 x Pan and tilt: Schilling, electric programmable
- 2 x Valve pack 8 function, (7 solenoid and 1 proportional valves)
- 1 x High flow valve pack



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