

# EQUIPMENT SHEET

**SMIT HD W-ROV**  
150 HP WORK-CLASS ROV SYSTEM



## INTRODUCTION

The 150hp 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	3,000kg / 6,614lb
Weight in Air	3,500kg / 7,716lb
Payload	gf / 551lbf
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 150HP & 250kgf payload

- 3000msw depth rating
- StationKeep & Midwater stationkeeping throughout the water column
- Titan 4: Seven function Manipulator
- Rigmaster: Five Function Manipulator
- Camera Package, Lights, Electric pan & tilt units

TMS system with 425m excursion length

Launch and Recovery system:

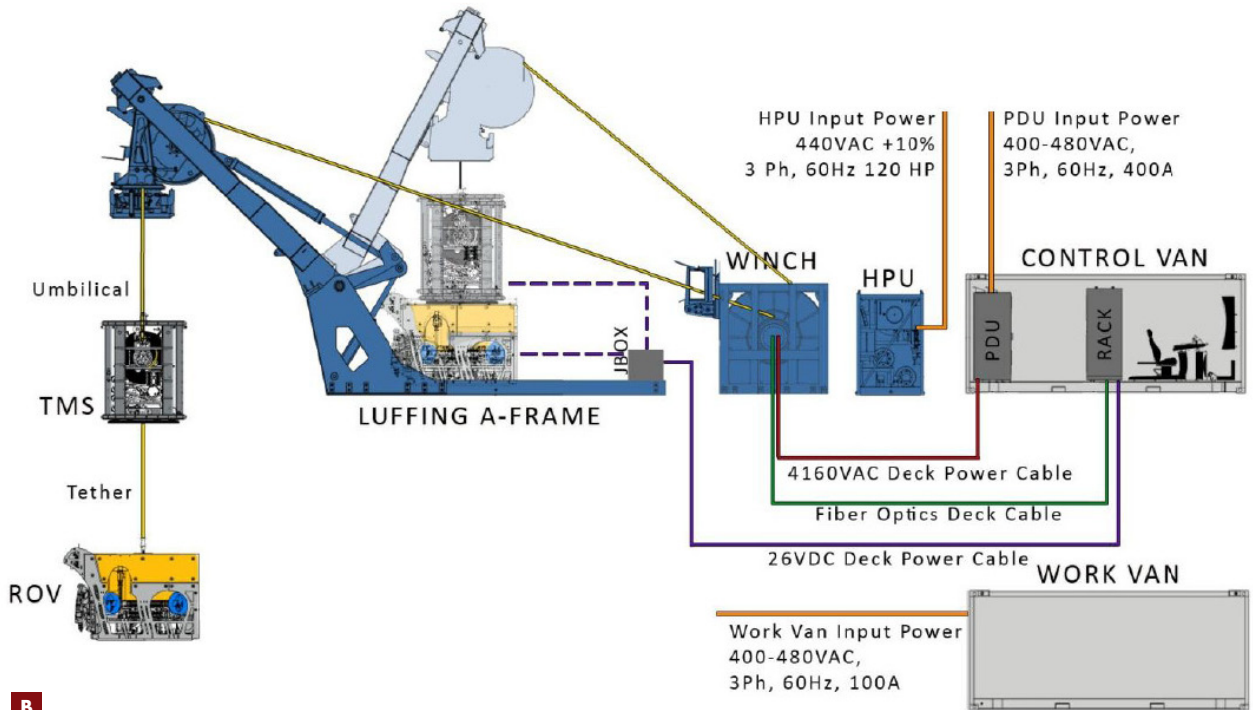
- Luffing A-frame
- Winch with 4000m umbilical storage capacity
- Fitted standard with 1600m lift umbilical

Control cabin & Workshop with spares and tools

Optionally SMIT provides a pipeline survey tooling package consisting of additional camera's, sensors, pipe detection system and multi beam.

## PERFORMANCE, PEAK THRUST

Forward	900kgf / 1,984lbf
Aft	900kgf / 1,984lbf
Lateral	900kgf / 1,984lbf
Vertical / Up/Down	850kgf / 1.874lbf



**B**

- A** SMIT HD W-ROV
- B** Side view SMIT HD W-ROV

### PROPULSION

HPU	150hp / 112kW
Thrusters	Sub Atlantic SA380-40 x 7
Auto functions: Stationkeep, Mid-water stationkeep, Autodisplacement, AutoTrack, Vehicle trim	

### HYDRAULICS – AUXILIARY CIRCUIT

- Nominal Operating Pressure 207Bar / 3,000psi
- Maximum Flow (at 3,000psi) 72LMP / 19 US GPM

### TETHER MANAGEMENT SYSTEM

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

### LAUNCH AND RECOVERY SYSTEM (LARS)

- An integrated system comprising:
- Skid mounted winch
  - Telescoping A-frame c/w umbilical sheave, damped docking snubber
  - Extending deck
  - Wireless remote control wander panel

### VEHICLE EQUIPMENT FIT AS STANDARD

- Port Manipulator: Schilling RigMaster
- Starboard Manipulator: Schilling Titan 4
- 1 x Low Light Camera: Kongsberg OE15-100C
- 2 x Color Zoom Camera: Kongsberg OE14-366
- 2 x Compact mini Color Camera: Kongsberg OE14-366
- Depth Sensor: Paroscientific Digiquarts
- Internal Navigation System: IXSEA Phinis
- DVL RDI Navigator 1200kHz
- Sonar, OAS, Trittech DST
- Sonar, Multi-beam, Trittech Gemini 720ID
- 8 x LED Lights: ROS MVLED
- 2 x HID Flood Lights: OE14-141
- 2x Pan and Tilt: Schilling, Electric Programmable
- 2 x Valve Pack 8 function, (7 solenoid and 1 proportional valves)
- 1 x High flow Valve pack
- Survey Junction Box, 8 channel CWDM



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