

PHANTOM S4

ROV 300 meter Water Depth

The PHANTOM S4 ROV system combines simplicity with the reliability of a well-proven product line of 600 units in operation world-wide. It comprises a compact vehicle capable of operating in its current version to a design depth of 300 m, with all adaptations for cage deployment in order to extend the vehicle's nominal range of operating conditions.

However, the core of the system comprising the vehicle and its control console and umbilical can be easily removed from the vessel so as to be rapidly implemented on all applications where only a lightweight portable ROV package is required.

The PHANTOM S4 vehicle is quite versatile and is designed to perform varied interventions such as inspection and video survey, light manipulative tasks for assistance to salvage operations, instrumental surveys, etc.

VEHICLE CHARACTERISTICS

- Dimensions (LxWxH) : 1.53 m x 0.87 m x 0.61 m
- Weight in air : 118 kg
- Payload : 11 kg

UMBILICAL

- Length : 500 m, neutral in water, Ø 17 mm

MAXIMUM DIVING DEPTH

- Operating : 300 m
- Test depth : 450 m

POWER AND PROPULSION

- 100-250 VAC - 50/60 Hz
- 6 kVA

THRUSTER SPECIFICATION

- Forward thrust full : 91 kg
- 4 0.5 HP thruster horizontal
- 2 thruster VERTRANS vertical and lateral
- Speed : forward, up to 4 knots
- Speed vertical and lateral : 0.5 knot.

NAVIGATION AND SENSORS

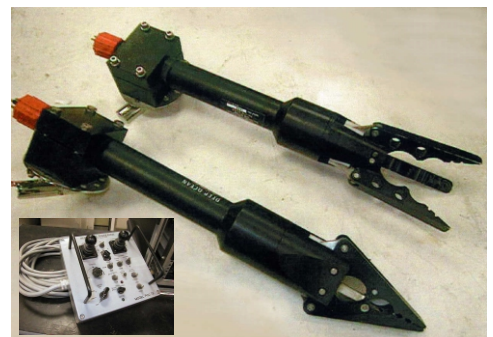
- Heading : fluid gimbled FLUXGATE
- Depth : pressure transducer
- Altitude : TRITECH PA500 Altimeter
- Search & navigation : MESOTECH MS900 scanning sonar 675 kHz VGA display
- CCD high resolution colour camera, PAL, 12:1 zoom, manual / auto focus control
- Tilting instrument platform +/- 90°
- Lights : two tungsten halogen lights, 250 W each

MANIPULATOR ARM

- 3 functions manipulator, 35 N gripping force
- * jaw : open / close
- * extend retract : 200 mm
- * jaw slew or rotate : 180°

CONTROL SYSTEM (SPECTRUM "SLAB" CONSOLE)

- Thruster power, off, slow, normal, boost
- Joysticks : 2
- Auto : heading, depth, altitude
- Vertical : trim
- Lighting : selector, 4 position light intensity selection
- Camera : tilt selection block inclination angle, auto / manual focus, zoom
- Leak detector
- Volt meter - Amp meter
- Ground fault
- Time and date
- Console box : 590 x 760 x 520 mm, 90 kg
- Isolation transformer box : 330 x 230 x 180 mm, 36 kg
- Pilot control unit : 260 x 250 x 200 mm, 7 kg



Pilot's control console (front view)

Rear view



Front view

Rear view

**Submarine
Cable
Installation**

Etablissement de Marseille

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