

# 125HP POSEIDON ROV

## Work Class Vehicle (Class 3)

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## Specifications



### SERVICES

- Construction Support
- Drill Support
- Inspection Repair and Maintenance (IRM)
- Intervention Services

### ADVANTAGES

- EN12079 or DNV 2.7-1 Lift Rated
- Proven capability in high current environment
- IMCA Audited (R006)
- Biodegradable hydraulic fluids
- Intergrated hydraulic oil bunding
- Extensive remote operational spares
- 'Rapid fit' bolted seafastenings
- Reduced mobilisation time
- Streamline management and operations
- Intervention Tooling

Tamboritha's Poseidon workclass ROV is a proven and reliable underwater workhorse.

### DETAILS

#### 125HP POSEIDON

3000mmL x 1500mmW x 1700mmH, Weight: 2,500kg

- Depth rating of 1000msw
- Payload 250kg
- Forward speed >3 knots / Lateral Speed 2 knots
- Electric Drive Sub-Atlantic 93kW (125hp)
- 6 x SA380-40 (Sub-Atlantic) high performance thrusters (35 dia)
- 1 x SA380 heavy lift thruster, powered from the tooling pump
- Primary HPU for thrusters and manipulators (Rexroth A10V-140)
- Secondary HPU for tooling (Rexroth A10V-045)
- Stauff (P&R) Cardev Filtration Unit

### NAVIGATION

- Auto Heading & Depth
- Gyro / Fluxgate Compass with azimuth stability
- 2 x Dual frequency Trittech Super Seaking Sonars 325 KHz & 650KHz)
- Depth Gauge (DigiQuartz) Electronic Sensor
- Trittech Altimeter PA/500
- Novatech ST-400A high powered, pressure activated xenon strobe light

### MANIPULATORS

- 5 function grabber arm, Perry Slingsby TA60 (max lift retracted 380kg, max lift extended 300kg, wrist rotate 250Nm)
- 7 function manipulator, Schilling Titan T4 (spatially correspondent)  
OR
- Perry Slingsby TA40 manipulator (max lift full radius 210kg, thru envelope 125kg)

### LIGHTING

- 4 x 150W quartz halogen
- 3 x high intensity ROS LED lights (500W halogen equivalent)



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### VIDEOGRAPHY / DATA / THIRD PARTY TOOLING

- 1 x high definition (HD-SDI) color zoom camera @ 1080p (Imenco - Bullshark)
- 1 x high resolution (HR) color zoom camera (Kongsburg - OE1366)
- 6 x HR color cameras (Luxus) for manipulator extensions
- Trittech Pan and Tilt (PT3636c)
- 2 x multimode fibre optic passes for cameras and third party sensors
- HD and SD video overlay available for survey positioning & third party data
- Video clip and image capture
- Video recording available to HDD and DVD
- Video clarifier (LYNN)
- Third party video recording (survey etc)
- Digital video processing switching (HD-SDI) and flat screen monitors (HDMI)
- 'Blackbox' video for all camera channels
- ROV video (without overlay) available for transmission on fibre to Client
- Third party tooling power
- Ethernet – 100 base T
- Data channels - RS232 and RS485 @ up to 56k



### ROV CONTROL CONTAINER

6100mmL x 2650mmW x 2600mmH, Weight: 10T (EN12079)

- ROV control and monitoring system
- 3000/1100/440/220/110 VAC Transformers and regulation
- Electrically isolated ELP and LIM's protecting underwater hardware (Bendix)
- Hardwired communication system with remote stations for bridge/ survey, inspection
- Electrically compliant to IP56
- Deck tooling outlets in accordance with NOPSEMA 110 VAC rulings

### ROV WORKSHOP

6100mmL x 2400mmW x 2650mmH, Weight: 8T (EN12079)

- Specialized tooling
- 110 VAC tooling and power outlets (NOPSEMA compliant)
- Power connections and lighting compliant to IP56

### ROV SPARES CONTAINER

1800mmL x 2400mmW x 2400mmH, Weight: 3.25T (EN12079)

- Comprehensive remote area spares, including:
  - Hydraulic deck HPU
  - Electric drive motor (125/100 HP)
  - Main pump (A10V-140)
  - Tooling Pump (10V-045 & A10V-028)
  - 1100 VAC uplift transformer
  - MUX & sonar computers
  - Planetary gearbox and winch motors
- 110 VAC tooling and power outlets (NOPSEMA compliant)
- Power connections and lighting compliant to IP56



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### UMBILICAL WINCH

3000mmL x 2000mmW x 2500mmH, Weight: 11T (EN12079)

- >1100m of free-flying umbilical (Nexans Super Scoprio II) FO/copper umbilical
- 50m of light armoured deck cable (low smoke zero halogen)
- Moog fibre optic slippings
- 38 KW (EXD/IP66) HPU c/w bunding
- Remote hydraulic deck controls
- EXD rated rotary and external electrical junction boxes
- Pressure tested hydraulic hoses
- Capable of recovery of ROV to deck (IMCA requirement)
- Automatic level wind
- Emergency demand spooling
- Fitted with manual 'A:B' hydraulic crossover and charged brake release compensator

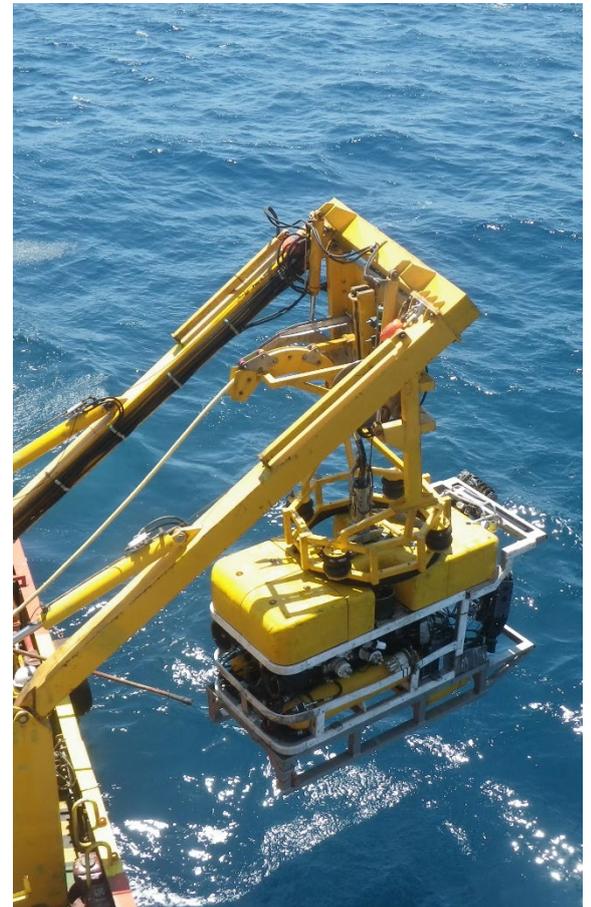
### LARS A FRAME

6000mmL x 3000mmW x 2650mmH (transport), Weight: 12T (EN12079)

- Rated for 3G deployment forces (DnV 2.7-1)
- Deployment table mounted deployment/recovery winch
- Passive heave compensated ROV deployment (oil over nitrogen)
- ROV mounted hydraulic latch release
- Local and remote hydraulic control.
- Pressure tested hydraulic hoses

### POWER REQUIREMENT

- 250 KW @ 60 Hz from vessel
- 250 KW @ 60 Hz from generator



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