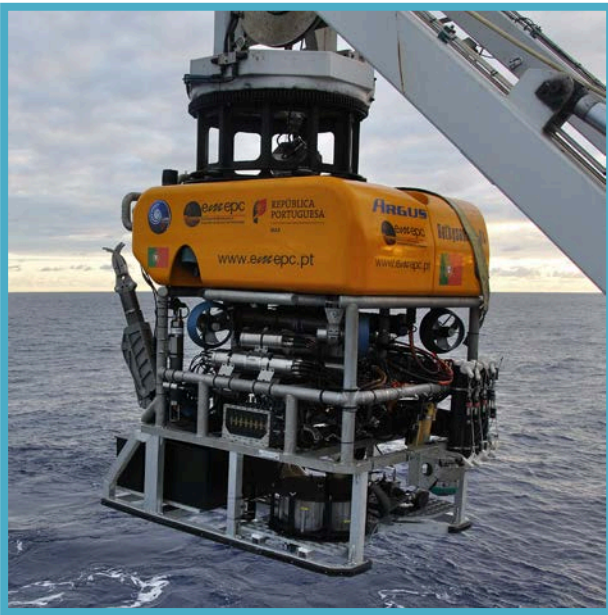


ROV Luso



General

Dimensions

Length 2.0m
Width 1.6m
Height 2.2m
Weight 2300kg

Payload

100Kg

Frame

Aluminum tube T6062

Pods

Titanium Grade 5

Connectors

Titanium Grade 5

Buoyancy

Syntactic foam

Manipulators

1x5 function

1x7 function

Umbilical

6000m Kevlar Armored Umbilical

Deployment method

Free Flying Latch

Launch method

LARS (Launch And Recovery System)

Total Deck weight

35 Tons (ROV, LARS, Workshop, Control room, Generator)



Standard Equipment Fit

Manipulators

1x5 function Schilling Rigmaster

1x7 function Schilling T4

Cameras

1 x Sony FCBH10 Argus RS

FocusZoom HDTV camera

1x Kongsberg Still camera

10Mpx+flashgun

1 x DSPL lowlight Black&White camera

5 x DSPL other cameras

Mesotech MS1000

Mesotech 1007

Sonar

Altimeter

Lights

4 x 250W DSPL Halogen

4 x 150 W Argus RS HID 1

Pan&Tilt

2xSubAtlantic 24VDC

Depth sensor

SAIV TD 303

Compass and Gyro

KVH C-100 Fluxgate

KVH DSP 3000 FOG Gyro

Samplers

Mini-Drill unit

Push Corers

Suction sampler with 5 chambers

Biologic and geologic sample boxes

Teledyne DVL

Sensors

Contros CH₄ Sensor

Contros CO₂ Sensor

SAIV CTD SD204 with additional

sensors: Dissolved Oxygen,

Fluorescence, Turbidity

Idronaut CTD with additional sensors:

Dissolved oxygen, turbidity, pH, redox potential

Lasers

2xImenco green scaling lasers

Auto Functions

Auto Head

Auto Depth

Auto Altitude

Hydraulic Compensators

2x SubAtlantic 2700cc

4x SubAtlantic 860cc

Performance

Bollard Pull

Fwd 370kg

Lat 250kg

Vert 300kg

Speed

Fwd 3kn

Vert 1.6knt

Pontency

75HP

Surface Controls

Control Container

1 x 20" feet Control container (5 Tons)

Transformers

1x 440VAC, 60kVA, 400Hz system

(needs to be stable)

1x 60kVA 3300VAC

UPS 30kVA

Power panel Inputs

440V (3-phases)

400V (3-phases)

230V (single phase)

Outputs

230V (single phase)

400V (3-phases)

Interface panel

Available connectors

7 coaxial

4 fiber optics

6 LAN

8 VGA

Control console

Integrated joysticks in pilot chair

Integrated touch screen in pilot chair

19" inch rack

Options Video Overlay

Apple Computer Recording System

Manipulator Control Console

Power generator

4 x 2.435 x 2.571 m (L x W x H) (5 Tons)

150kVA, 120 kW, 400V+N (3-phases), 50

Hz

Fire detection system

Remote control

CCTV system

Workshop container

1 x 10" feet Workshop container (4 Tons)



Positioning system

<u>Type</u>	Linkquest USBL
<u>Transceiver Model</u>	TrackLink 10000HA, accuracy of 0.25degrees
<u>Transponder Model</u>	TN10010C and TN10015C
<u>Input from the Ship</u>	VRU, GPS and Compass

Launch And Recovery System

<u>Winch power input</u>	440 VAC / 45 kVA - 3 phases
<u>Dimensions</u>	7.00 x 2.90 x 5.53 m (L x W x H)
<u>Weight</u>	21 ton (umbilical included)
<u>Capacity</u>	6 100 of 25.7mm umbilical
<u>Winch velocity</u>	75 m / min mid drum 11 rpm
<u>Water input to cool hydraulic system units</u>	

Power Requirements

<u>ROV power unit</u>	440 VAC, 3-phase, 60kVA, 80A (needs to be stable)
<u>Thrusters</u>	7 x 5.5 kW, 20A, 4 Horizontal, 3 Vertical
<u>Hydraulic Power Unit</u>	2x5.5 kW, 15lpm, 180 bar

Umbilical

<u>Type</u>	Nexans Kevlar Amoured
<u>Length & Diameter</u>	6 100 m x 25.7 mm
<u>Breaking strain</u>	125 kN
<u>SWL</u>	23 kN
<u>Cores</u>	3 x power 8 mm ² 12 x SM 9/125 μm

