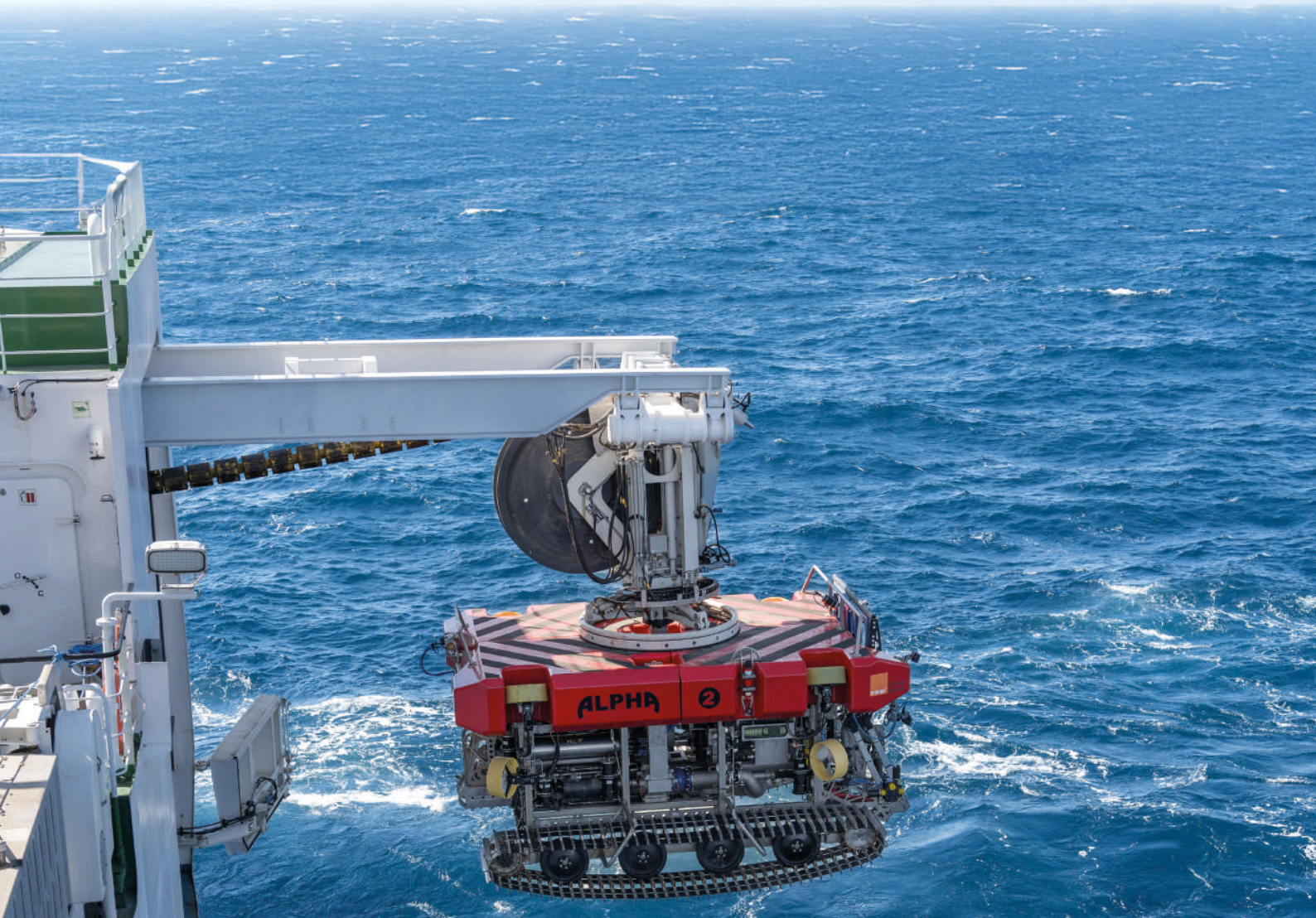


Orange Marine submarine vehicle

ROV Alpha

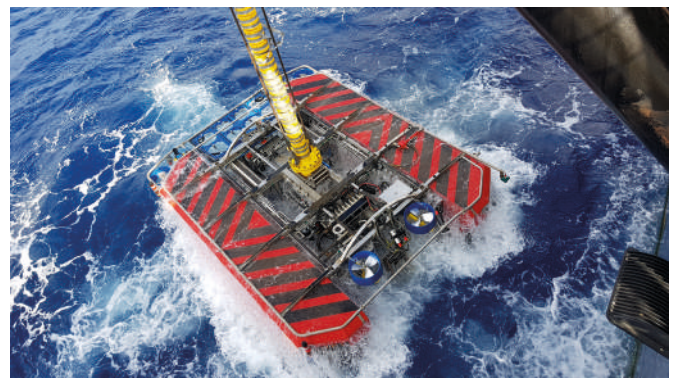
The latest generation of Remotely Operated Vehicle



Alpha is a powerful and full customized work class ROV dedicated for cable (energy and telecom) and pipes works (burial, survey, inspection).

Work capabilities

- **Operations:** burial (energy and telecom cables, pipes), inspection, survey, gripping & cutting
- **Power:** 450 kw
- **Operating depth:** 3,000 m
- **Trenching depth:** up to 3 m
- **Trench width:** 150 to 400 mm
- **Speed trenching:** 750 m/h
- **Speed free swimming:** forward 2.5 knots
- **Speed on tracks:** 2500 m/h



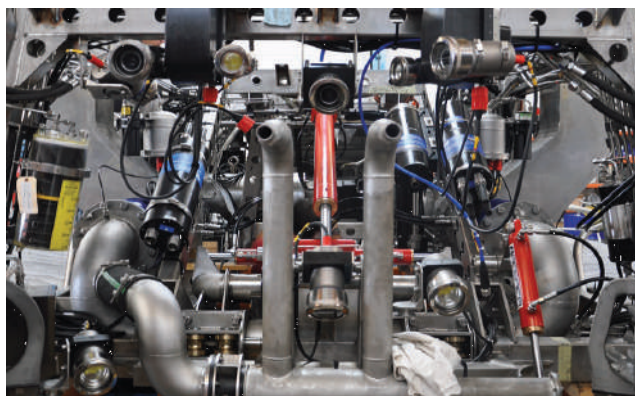
Characteristics

Typical characteristics

- **Dimensions:** length 6 m / breadth 3.5 m on tracks / height 2.3 m
- **Weight on tracks:** 12 tons in air
- **Weight on skids:** 11 tons in air
- **Structure:** tubular stainless steel 316 L
- **Piping and fittings:** stainless steel
- **Payload:** 300 kg
- **Biodegradable hydraulic oil**

Power Propulsion

- **Power:** 450 kw (150 kw HPU / 300 kw jetting)
- **Operating voltage:** 440 v / 60 hz



Instrumentation and tools

- **Video and cameras:** up to 6 cameras + 1 HD Gige
- **Pan and Tilt:** up to 3 cameras
- **Lighting:** 8 LED spotlights
- **Instrumentation:** sonar Blue view, current meter, profiler, altimeter, cable sensor...
- **4 independent networks 1 Gbit**
- **Piloting (auto modes):** altitude, heading, tracks, depth
- **Navigation:** acoustic positioning system / 2 compass
- **Tracking:** 350 and 440 TSS cable tracker
- **Manipulators:** 2 conan 7 functions (schilling)
- **Tools:** 1 cutter & 1 gripper (up to 80mm cable diameter)
- **Jetting:** HP and BP pumps / front and rear tools

Shipboard Support

- **Deployment system:** crane or dedicated winch and L.A.R.S available
- **Ship work deck:** 300 m²
- **Operating team:** 1 team leader and 6 technicians

Additional information

All characteristics are adjustable and we customize our products in order to meet our customer's needs. The first unit of this ROV is hired by Orange Marine and ACPL in Singapore.

