Freedom™ Resident ROV

Freedom’s architecture is based on reliable hardware and software that enables increased autonomy, endurance, and dynamic missions. Adopting a plug-and-play operational philosophy, Freedom provides a low-maintenance, field-configurable vehicle that can be optimized via interchangeable payload packages and sensor suites specifically designed to meet diverse work scopes.

The modular design of the vehicle enables configuration to best meet dynamic mission work scopes including infield inspection, long-range survey, and light intervention.

FEATURES

- Capable of six months of continuous subsea operation
- Suitable for use in water depths up to 19,700 ft / 6000 m
- Subsea smart docking and charging
**Freedom™ Resident ROV**

The Freedom ROV integrates decades of subsea robotic experience and advanced technologies to deliver a highly-reliable, mission-configurable subsea vehicle. The ROV can operate in both autonomous and tethered modes and is supported by a subsea docking station. Freedom is intrinsically modular and can be configured to meet project demands. Freedom includes a novel subsea-mateable tooling interface at the front and rear of the vehicle to provide increased functionality.

<table>
<thead>
<tr>
<th></th>
<th>Infield Inspection</th>
<th>Intervention</th>
<th>Long-Range Survey</th>
</tr>
</thead>
<tbody>
<tr>
<td>Weight in Air</td>
<td>4,800 lb / 2200 kg</td>
<td>6,000 lb / 2700 kg</td>
<td>6,000 lb / 2700 kg</td>
</tr>
</tbody>
</table>

- **Payload**
  - 300 lb / 136 kg
  - 300 lb / 136 kg
  - 200 lb / 91 kg

- **Length**
  - 14 ft / 4 m
  - 12 ft / 3 m
  - 18 ft / 4.5 m

- **Width**
  - 5 ft / 1.5 m
  - 5 ft / 1.5 m
  - 5 ft / 1.5 m

- **Height**
  - 2.5 ft / 0.8 m
  - 5 ft / 1.5 m
  - 2.5 ft / 0.8 m

- **Depth Rating**
  - 19,700 ft / 6000 m
  - 19,700 ft / 6000 m
  - 19,700 ft / 6000 m

- **Battery Capacity**
  - 50 kWh
  - 75 kWh
  - 75 - 100 kWh

- **Max Speed**
  - 6 knots
  - 5 knots
  - 6 knots

- **Max Distance**
  - 155 mi / 250 km
  - 125 mi / 200 km
  - 250 mi / 400 km

- **Max Endurance**
  - 70 hours
  - 70 hours
  - 100 hours

- **Navigation**
  - SS
  - SS
  - SS

- **Subsea Docking / LARS**
  - SS
  - SS
  - SS

- **Pipeline Inspection**
  - OS
  - OS
  - SS

- **Geoscience Survey**
  - N/A
  - N/A
  - SS

- **Tool Changing (90%)**
  - SS
  - SS
  - SS

- **360° Awareness**
  - SS
  - SS
  - SS

- **Extended Power Pack**
  - N/A
  - SS
  - SS

- **Environmental / Seep**
  - OS
  - OS
  - OS

- **Manipulators / Pumping**
  - N/A
  - SS
  - N/A

SS - Standard Suite
OS - Optional Suite
N/A - Not applicable

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