Ultra Heavy Duty (UHD) ROV

- Closed loop controls provide precision operation
- Inertial Navigation System (INS) for precise navigation & positioning available
- Real-time diagnostics

The UHD ROV is optimized for efficient tooling and sensor interfaces with unlimited data or video channels that can easily be customized. This state-of-the-art ROV features an advanced control system with many closed loop functions, as well as specialized StationKeep™ software to allow operators to automatically maintain a position relative to the sea floor.

The control system also has a power management system that delivers power where required to perform ROV operations in extreme situations.

**Specifications**

<table>
<thead>
<tr>
<th><strong>ROV</strong></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Classification:</td>
<td>Ultra Heavy-Duty Work Class ROV System (Generation II)</td>
</tr>
<tr>
<td>Payload:</td>
<td>661 lb / 300 kg</td>
</tr>
<tr>
<td>Through Frame Lift:</td>
<td>7,716 lb / 3,500 kg</td>
</tr>
<tr>
<td>HPU Motor:</td>
<td>200 SHP (shaft horsepower)</td>
</tr>
<tr>
<td>Depth Rating:</td>
<td>13,123 ft / 4,000 msw (optional 4,000 msw)</td>
</tr>
<tr>
<td>Main Hydraulics:</td>
<td>4,000 psi @ 63 gpm / 275 bar @ 238 lpm</td>
</tr>
<tr>
<td>Aux Hydraulics:</td>
<td>3,000 psi @ 33 gpm / 207 bar @ 125 lpm</td>
</tr>
<tr>
<td>Hydraulic Functions:</td>
<td>8 Station Proportional Valve Pack 3 Station High Flow Valve Pack</td>
</tr>
<tr>
<td>Telemetry System:</td>
<td>Digital Telemetry System (DTS) GB Ethernet</td>
</tr>
<tr>
<td><strong>Maximum Speed</strong></td>
<td></td>
</tr>
<tr>
<td>Fore/Aft:</td>
<td>3.2 knots - Lateral: 3.2 knots - Vertical: 2.5 knots</td>
</tr>
<tr>
<td><strong>Bollard Pull</strong></td>
<td></td>
</tr>
<tr>
<td>Fore/Aft:</td>
<td>2,646 lbf / 1,200 kgf - Lateral: 2,646 lbf / 1,200 kgf</td>
</tr>
<tr>
<td>Vertical Up:</td>
<td>2,205 lbf / 1,000 kgf - Vertical Down: 2,205 lbf / 1,000 kgf</td>
</tr>
</tbody>
</table>

Specification details listed are for marketing purposes only. Any reproduction in part or as a whole without the written permission of C-Innovation is prohibited. Equipment may change due to product improvement or other reasons. Confirm equipment specification and performance at time of order placement.
## ROV Technical Data

### ULTRA HEAVY DUTY (UHD)

### SPECIFICATIONS (CONTINUED)

#### Instrumentation
- **Depth Sensor:** Paroscientific, Digiquartz Series 800
- **Heading/Attitude Sensor:** Fiber Optic, Ring Laser or MEMS
- **Doppler Velocity Log:** RDI Workhorse Navigator 1200
- **Sonar:** Kongsberg Simrad MS1171
- **Cameras:** Insite or Imenco (HD available)

#### Auto Control Modes
- **Heading:** ±2°, 360° Range
- **Depth/Altitude:** ±6 in / 15 cm
- **Pitch:** ±2°, +12/-5° Range
- **Roll:** ±2°, ±6° Range
- **StationKeep™:** 3.9 in / 10 cm Watch Circle

#### Manipulators
- **Port:** Atlas (7 function rate control)
- **STBD:** Atlas (7 function rate control) or Titan 4 (7 function spatially correspondent)

#### Tether Management System (TMS)
- **Type:** Top Hat
- **Depth Rating:** 13,123 ft / 4,000 msw
- **Tether Line Pull:** 220 lbf / 100 kgf Minimum
- **Tether Line Speed:** Variable, 0-164 fpm / 0-50 m min
- **Latch Capacity:** 18,739 lb / 8,500 kg @ DAF 3g
- **Tether Capacity:** 2,789 ft / 850 m x 1.38 in / 35 mm OD - 1,500 m / 27 mm OD Optional

*Work / Maintenance platforms are integrated into the TMS frame*

#### Launch & Recovery System (LARS)
- **A-Frame:** Standard Over Center or Heavy Weather Low Dip
- **Winch**
  - **Type:** Electric AHC or Hydraulic Standard
  - **Heave Reduction:** 90%
  - **Umbilical Length:** 13,123 ft / 4,000 m
  - **3 Control Stations:** Remote / Deck Control Van • Fixed / Winch Back Panel

#### DEPLOYMENT
- **Tether Management System (TMS)**
- **Launch & Recovery System (LARS)**

#### GENERAL
- **Certifications**
  - DNV for Containers (vans), Winch and A-Frame
  - Zoning as Required
  - U/W Electrical Design Standard

---

Specification details listed are for marketing purposes only. Any reproduction in part or as a whole without the written permission of C-Innovation is prohibited. Equipment may change due to product improvement or other reasons. Confirm equipment specification and performance at time of order placement.