The Alpha 5 is a tough and reliable multi-function electric manipulator for harsh environments.

With high accuracy joint positioning (0.1°) and a master/slave topside controller, the Alpha 5 is the most advanced manipulator for the portable ROV community. A must for operators in the new era of close inspection work and complex intervention.

**Features**
- Fits on very light ROV’s
- Quick to integrate
- End-effector interchangeable
- Embedded controllers - no additional POD
- Adjustable grab force - pick up a sea urchin or cut a cable
- Self-protection against collision
- One-click home position
- Corrosion and scratch resistant anodized aluminium
- Highly Modular and Configurable - 3, 4 or 5 function versions available

**Mission Specific End-Effectors**
- Parallel Jaws
- Quad Jaws
- Rope Cutter
- Standard Jaws

**Note:** Master Arm not included
**SPECIFICATIONS**

<table>
<thead>
<tr>
<th>Feature</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Max Closing Force</td>
<td>600N</td>
</tr>
<tr>
<td>Push-rod axial load rating</td>
<td>100kg</td>
</tr>
<tr>
<td>Reach</td>
<td>0.4m</td>
</tr>
<tr>
<td>Outer Diameter</td>
<td>40mm</td>
</tr>
<tr>
<td>Standard Connector</td>
<td>Teledyne 6 Pin IE(W)-55 Impulse Connector (whip included)</td>
</tr>
<tr>
<td>Operator Control Options</td>
<td>3D Space Mouse, Gamepad, Software GUI, Master Controller</td>
</tr>
<tr>
<td>End-Effector Options</td>
<td>Quad Jaws, Pincer, Parallel Jaws, Rope Cutter</td>
</tr>
</tbody>
</table>

**ELECTRICAL**

- **Voltage**: 18-30V
- **Wattage**: 35W Max
- **COMS**: RS232/485

**ENVIRONMENTAL**

- **Depth**: 300MSW
- **Temp**: -35°C to 35°C
- **Material**: AL6061

**MECHANICAL**

- **Lift Capacity**: 2kg (Full Reach)
- **Weight (Air)**: 1360g
- **Weight (Water)**: 900g

- **High Mobility & Compact**

- **Note**: base joint is software limited to 352° (not continuous)

- **210mm**
- **150mm**
- **220mm**

- **0.4m Max Reach**