Flying Lead Orientation Tool (FLOT)

The FLOT is designed to orient and guide flying leads into the stab plates on subsea equipment. It also increases efficiency by enabling repositioning of the torque tool in real time without the need for reconfiguration of the torque tool’s handle or ROV mounting position.

FEATURES

- Designed for use during subsea ROV intervention
- Enables repositioning of torque tool in real time
- Compatible with hydraulically powered work class ROVs
Flying Lead Orientation Tool (FLOT)

The tool can be operated in horizontal or vertical planes with tool roll controllable from ±10° to suit applications where large moments may be experience. The FLOT features an arm with adjustable length to position the torque tool further away from the ROV.

Pitch and roll actuators are controlled from the host ROV’s spare rate valves and are rated for 3,000 psi. The FLOT is capable of withstanding lateral and yaw loads up to 1,000 lb (454 kg).

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**Specifications**

| Dimension (LxWxH)       | 41 x 18.75 x 17 in  
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<tbody>
<tr>
<td></td>
<td>104 x 47.7 x 43.1 cm</td>
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<tr>
<td>Weight in air/water</td>
<td>165 / 135 lb</td>
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<td>75 / 61 kg</td>
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**Hydraulic input**

Pressure: 3,000 psi (max)
Flow: Min 1.5 gpm
Hydraulic fluid type: Tellus 22

**Hydraulic connections**

4 x 4m R2AT hoses with JIC 4 female swivel ends

**Performance data**

<table>
<thead>
<tr>
<th>Pitch</th>
<th>±90°</th>
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<tr>
<td>Pitch axis load capacity</td>
<td>550 lb @ 18 in extension from rotary actuator centerline @ 3,000 psi</td>
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<tr>
<td></td>
<td>380 lb @ 31 ½ in extension from rotary actuator centerline @ 3,000 psi</td>
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<tr>
<td>Roll</td>
<td>±10°</td>
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<tr>
<td>Roll torque</td>
<td>6,000 in-lb @ 2,500 psi</td>
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**Fittings for mounting FLOT to ROV (typical)**

- 5 x M12 x 50 socket head cap screws
- 6 x M12 nylon nut
- 16 x M12 flat washer
- 4 x M12 x 100 socket head cap screws
- 1 x M12 x 80 socket head cap screw

**Fittings for mounting tool to FLOT (typical)**

- 8 x ½ in UNC x 1 in bolt
- 4 x ½ in UNC -13 x 1½ in socket head cap screws

**Transport information**

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<thead>
<tr>
<th>Transport case (LxWxH)</th>
<th>47 x 39.4 x 31.5 in / 120 x 100 x 80 cm</th>
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<tbody>
<tr>
<td>Weight</td>
<td>397 lb / 180 kg</td>
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