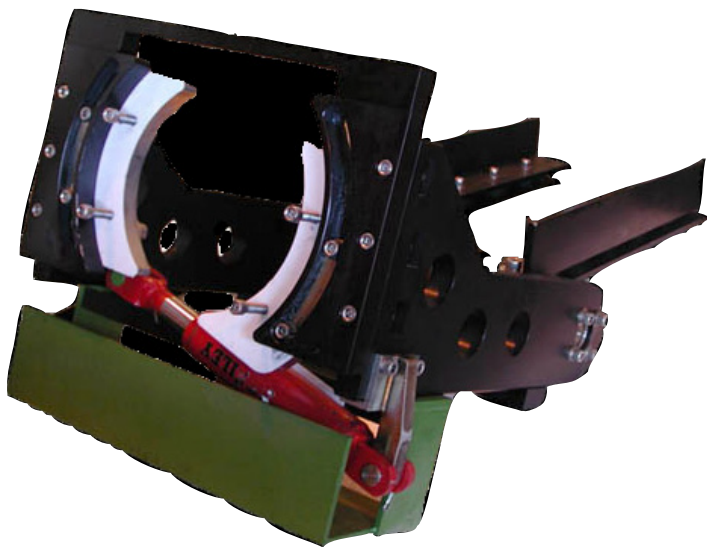


FLYING LEAD ORIENTATION TOOL (FLOT)

The Flying Lead Orientation Tool (FLOT) is designed to allow the Torque Tool (TT) to be positioned in real time without the need for re-configuration. The FLOT allows the TT to position and guide the Flying Leads into the stab plates on subsea equipment.

The FLOT provides pitch and roll capabilities for maneuvering the torque tool. The pitch range is from -90° to $+90^{\circ}$, thus permitting the torque tool to be operated in horizontal or vertical mode, including launch/recovery positions. The roll is variable from -10° to $+10^{\circ}$ in instances where the Remotely Operated Vehicle (ROV) is not aligned straight with the Flying Lead receptacles.



Technical Data / Specifications

Dimensions

Length	41.0 in
Width	21.5 in
Height	14.5 in

Weight

Air	145 lb (approximate)
Water	120 lb (approximate)

Performance Data

Pitch	$\pm 90^{\circ}$
Pitch Load Capacity	550 lb
Roll	$\pm 10^{\circ}$
Roll Torque	6,000 in-lb @ 2,500 psi

Materials

- AL 6061-T6, Carbon Steel, Bronze
- 316 Stainless Steel, 17-4 PH Stainless

Coating

Aluminum	Anodize
Carbon Steel	Xylan coat (Green)

Hydraulic Requirements

Working Pressure	3,000 psi (max)
Hydraulic Flow	1.5 gpm
Hydraulic Fluid Type	ISO Type Fluid

Electrical Requirements

None

ROV Connectivity

- Four 12 feet hoses, 4,000 psi rating, #4 (1/4 in) JIC Female Swivel ends

