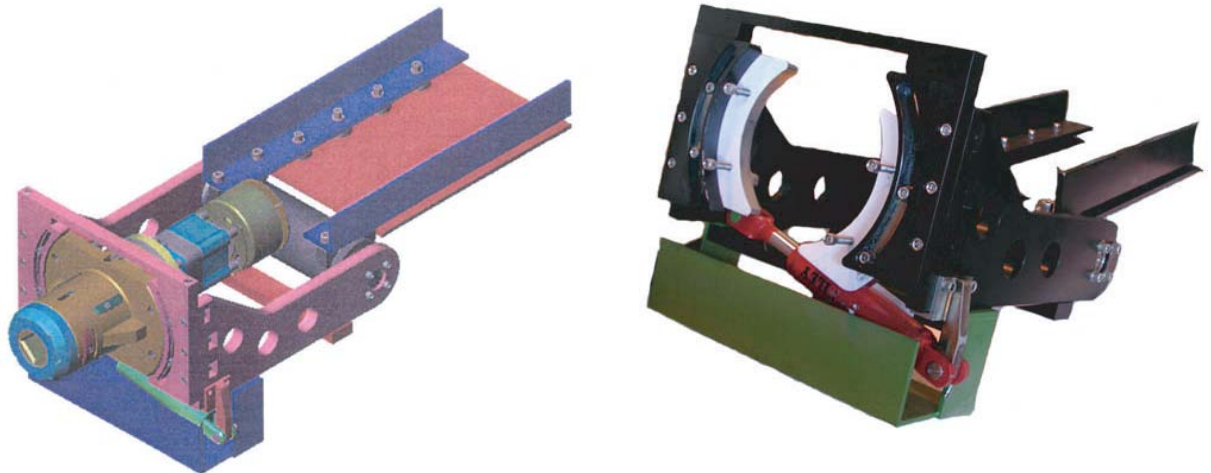


FLOT - FLYING LEAD ORIENTATION TOOL

Technical Data / Specifications

Length	38 in
Width	18.5 in
Height	4.5 in
Weight in air	92 lbs
Weight in water	75 lbs
Pitch	+/- 90°
Roll	+/- 10°
Roll Torque	5,000 ft lbs at 2,500 psi
Working Pressure	3,000 psi (max)
Hydraulic Flow	1.5 gpm



Overview

The Orientation Tool (Torque Tool Positioning System) allows the torque tool to be repositioned in real time without the need for reconfiguration of the tool handle or ROV mounting position. It is also designed to orient and guide the flying leads into the stab plates on subsea equipment.

Tool pitch is controllable from -90 to +90 degrees, permitting the tool to be operated in the horizontal or vertically down mode, as well as stowed for launch recovery. Tool roll is controllable from -10 to +10 degrees in applications where large moments are being handled by the tool. The length of the positioning arm can be increased to position the torque tool further away from the ROV. The pitch and roll actuators are controlled from the ROV's spare rate valves, and are rated for 3,000 psi. The orientation tool is capable of withstanding lateral/yaw loads up to 1,000 lbs.

The ROV Orientation Tool package is designed for standard subsea ROV intervention by virtually any hydraulically powered work class ROV.