



The TMT Flowbase Orientation Tool is designed to be used to measure the misalignment of an installed tubing hanger with the flow base. The tool is fitted to the flow base tombstone and can measure up to 45° Clock Wise (CW) and 45° Counter Clock Wise (CCW), from the centre tombstone datum point. Once fitted to the tombstone, the client operated Tubing Hanger Laser Alignment tool is deployed onto the misaligned tubing hanger and activated. The offset degree is then noted by visually observing where the laser beam strikes the measurement frame. The tool is deployed by an ROV.

The Flowbase Orientation Tool is constructed of 316 Stainless Steel and Aluminum.

The TMT Flowbase Orientation Tool can be customised to suit most applications.

Features:

- Robust construction
- Corrosion resistant materials
- ROV deployed
- $\pm 45^\circ$ angular measurement
- Fabrication accuracy of 0.034° on average

Specifications:

- | | |
|----------------------|---------------------|
| • Dimensions | 1352L x555W x550Hmm |
| • Weight in Air | 37.8kg |
| • Weight in Seawater | 24.2kg |
| • Depth Rating | Unlimited |

Specifications subject to change without notice. All rights reserved.