Mounting the Laser Tracker Upright, Horizontal, Sideways, or Upside Down

Overview

The FARO® Laser Tracker can be mounted upright, horizontal or sideways, and upside down. Regardless of how you mount the Tracker, a stable, vibration-free mount plays a critical role in measurement accuracy. The Tracker technical specifications for accuracy do not change. The operator should follow best practices for measurement and make sure that the Tracker in its mounted position is properly compensated. This article discusses options for mounting in all orientations.

Upright

For upright mounting you can use the mandrel or your own custom mount. For details about the standard upright mounting, see the User Manual for your Tracker model. See links in the See Also section below. If you want a permanent mounting for an upright Tracker, you can use similar techniques as those discussed here for other mounting orientations.

Horizontal or Sideways

For horizontal or sideways mounting, you can use the expanding mandrel or your own custom mount. The FARO accessories catalog has a sideways mount that is ideal for this purpose. The FARO sideways mount has a counterbalance to offset the Tracker's weight. However, the counterbalance takes up room behind the Tracker and can prevent it from being mounted in tight areas.
Upside Down

For upside down mounting, do not use the mandrel. When mounting the Tracker past the horizontal sideways position, the circular bolt pattern on the bottom of the Tracker's mandrel receptacle should be used to bolt the Tracker to the mount. This circular bolt pattern consists of four 0.25”-20 UNC-2B holes spaced equally apart at 90° intervals. For the Vantage Laser Tracker, the bolt pattern's diameter is 3.5” For the ION, X, Xi and SI Laser Tracker, the bolt pattern's diameter is 3.125”.

Alternatively, the Tracker's mandrel receptacle can be removed to expose the 3.5” diameter thread pattern. This thread pattern is identical to the pattern on the bottom of the mandrel and allows the Tracker to be threaded directly onto a mount.
See Also

- Accessories Manual for the Laser Tracker
- User Manual for the Vantage Laser Tracker
- Technical Specification Sheet for the ION Laser Tracker

Keywords:

alternative mounting, bracket