The T-220 Small-Bore Self-Centering Target

Target Features
Hamar Laser’s T-220 Small-Bore, Self-Centering Target is designed specifically to measure the straightness of small bores, from .70" (18 mm) to 1.5" (38 mm). This small, lightweight, compact target self-centers to an accuracy of .0005" (0.013 mm) and has a sensor area of 4 x 4 mm.

Target features include:
- 3-foot (1 mm), carbon fiber insertion pole with connector (can be folded to 1.5 feet). Extra lengths of pole are available for bores up to 10 feet (3 M) long.
- The target is customized for each bore, but can accommodate diameter changes of ± .010" (0.25 mm) without affecting the ability to self-center in the bore.
- 4 x 4 mm PSD (Position Sensing Detector) is concentric to bore ID to > .0005" (0.013 mm).
- .00002" (0.0005 mm) resolution when used with the R-1307 Readout.
- .654" (16.6 mm) OD, with tungsten carbide, precision-ground measuring balls (feet) and a tapered end for easy insertion in bores.
- Accommodates bores from .70" (18 mm) to 1.5" (38 mm).
- Can be used with the R-1307C or R-1307 2.4ZB target readouts. Use the A-910-2.4ZB Radio Receiver for a PC with the R-1307-2.4ZB for wireless data downloads to our Bore8 software.
- Spirit level orients the PSD sensor axes to the alignment axes of the bore.
Specifications

The T-220 Small-Bore Self-Centering Target

Size: 
.654" (16.6 mm) OD. 1.72" (43.7 mm) long without pole.

Sensor Size/Resolution: 
4 x 4 mm PSD with .00002" (0.5 micron) resolution when used with the R-1307.

Sensor Concentricity to Bore ID: 
< .0005" (0.013 mm)

Material: 
303 stainless steel

Cable: 
Hard-mounted 10′ (3M) cable mounted inside the inserted pole with Lemo connector.

Weight: 
5 oz. (85 g).

Bore Diameter Range: 
Can accommodate ± .010" (0.25 mm) diameter change and still self-center.

Insertion Pole: 
3′ (1M) in two 1.5′ pieces. Extra lengths of pole are available up to 10 feet (3 M).