The T-1220 2-Axis Bore Target with See-Through Capability

Target Features

- 20x20 mm PSD, offering twice the measuring range of the T-220 Target.
- See-through capability. Prism flips out of the way to allow the laser beam to pass through to other targets without having to remove the target.
- Higher accuracy, super-linear PSD with up to 1 micron resolution and <1% error over the full measuring range.
- Compatible with the R-1307 Series of readouts (the R-1307C, R-1307-2.4 and A-910-2.4ZB) and Hamar Laser alignment software to perform straightness checks on bores from 6 inches (152.4 mm) to 40 inches (1 m).
- Uses the T-1225L Large-Bore Centering Fixture with user-suppliable legs to measure bores or customers’ fixtures.
- Compatible with the T-1230 Target Stand.
- Removable cable that can be inserted into both the front and back of the target.

Applications

- Stern tube bores and shaft bearing alignments on large ships
- Long-distance applications where the L-708LD Laser is used
- General alignment of large bores where a big misalignment is expected
- Cam/Crankshaft/Cylinder Bore Alignment/Inspection
- Turbine Bores

Hamar Laser’s new T-1220 Target is a 2-axis, large-range target with see-through capability designed for large-bore centering applications such as turbines or stern tubes, and also for long distance applications using the L-708LD Laser. The T-1220 can be used with the T-1225(L) flange(s) adapter, the T-1230 target stand or custom fixtures. Compatible lasers include the L-700, L-705, L-706, L-708, L-708LD and L-741.
## Specifications

### The T-1220 2-Axis Bore Target

**Weight**  
4.4 lbs. (2.0 kg)

**Material**  
440C Stainless Steel

**Resolution**  
0.0002 inches (.0005 mm) with R-1307 Readout

**Target Cell Error**  
<1% over the effective measuring range

**PSD Size and Type**  
0.78 x 0.78 inches (20 x 20 mm) 2-axis, see-through capability

**Measuring Range (Standard Lasers)**  
± 0.295 inches (± 7.5 mm) in both axes

**Measuring Range (Long Distance Laser)**  
± 0.100 inches (± 2.5 mm) in both axes

**Cord Dimensions**  
Target to connector: 10 feet (3.05 meters). Removable cable with Lemo connector

**Connector**  
Lemo 9-pin metal - located on front and back of target

**Mounting Dimension**  
3.9993 inches to 3.9998 inches (101.582 mm to 101.595 mm) outer diameter

**PSD Concentricity**  
PSD concentric to mounting surface to within 0.005 inches (0.0127 mm) TIR (electrical center to mechanical center)