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.

**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 in. (152.4 mm) to 40 in. (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
### Specifications

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

- **Weight**: 4.4 lbs. (2.0 kg)
- **Material**: 440C Stainless Steel
- **Resolution**: .00002 in. (.0005 mm) with R-1307 Readout
- **Target Cell Error**: <1% over the effective measuring range
- **PSD Size and Type**: .78 x .78 in. (20 x 20 mm) 2-axis, see-through capability
- **Measuring Range (Standard Lasers)**: ± .295 in. (± 7.5 mm) in both axes
- **Measuring Range (Long Distance Laser)**: ± .100 in. (± 2.5 mm) in both axes
- **Cord Dimensions**: Target to connector: 10 ft. (3.05 m). Removable cable with Lemo connector
- **Connector**: Lemo 9-pin metal - located on front and back of target
- **Mounting Dimension**: 3.9993 in. to 3.9998 in. (101.582 mm to 101.595 mm) outer diameter
- **PSD Concentricity**: PSD concentric to mounting surface to within .0005 in. (0.0127 mm) TIR (electrical center to mechanical center)