

The A-516 2-Axis Target with Built-in, Self-Centering Bore Adapter

Designed for deep-bore, large-diameter bore straightness applications

Hamar Laser's new A-516 Target is a 2-axis, self-centering target with roller-bearing feet, designed for deep-bore, large-diameter bore straightness applications, such as gun barrels and hydraulic cylinders. It can measure bores as small as 3.25 in. (82.6 mm) and as large as 16 in. (406.4 mm) for straightness and alignment.

With a 20x20 mm PSD, it has a very large measuring range for large straightness errors typically seen in long cylinders. The roller bearing feet make it extremely easy to insert the target into the bore and push it deep into the cylinder. An accelerometer on the A-516 keeps track of the rotational position and allows the user to keep the target at top dead center. A scale is imprinted on the insertion pole so it is easy keep track of each measurement point. Use with Bore9 to collect the data and calculate the straightness.

Target Features

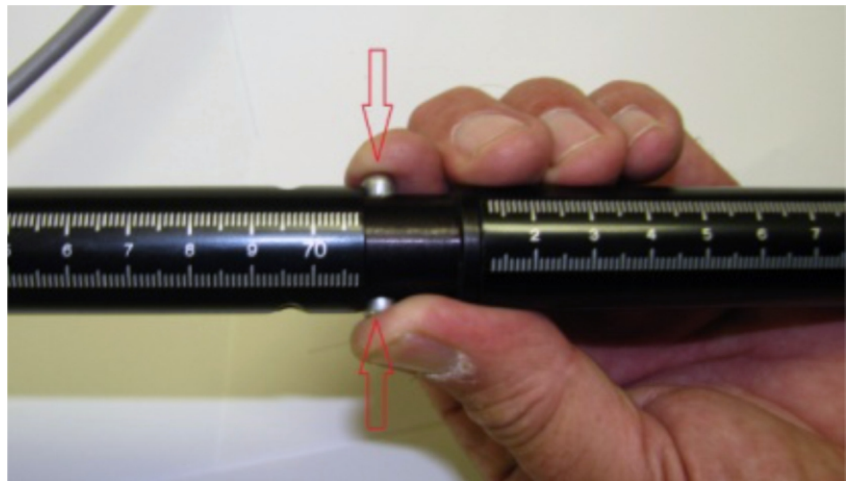
- 20x20 mm PSD, (position sensing device) with 0.001 mm resolution and < 1% linearity.
- Built-in, self-centering adapter that uses A-516CLR Customized Measuring Legs with roller bearing tips for easy insertion into very deep bores.
- Can perform straightness checks on gun barrels or cylinders up to 33 ft. (10 m) long.
- For bores from 3.25 in. (82.6 mm) to 16.00 in. (406.4 mm). Quick-connect poles with measuring scale have an accuracy to ± 5 mm.
- Accelerometer helps to keep the target in the same rotational orientation for better accuracy.
- Supports our R-1307BC+R 2-Axis Readout.
- Use with Bore9 Software to record alignment data, calculate the straightness and plot the alignment data points.

Applications

- Straightness checks on gun barrels and cylinders.



A-516 2-Axis Target



A-516P Quick-Connect Poles



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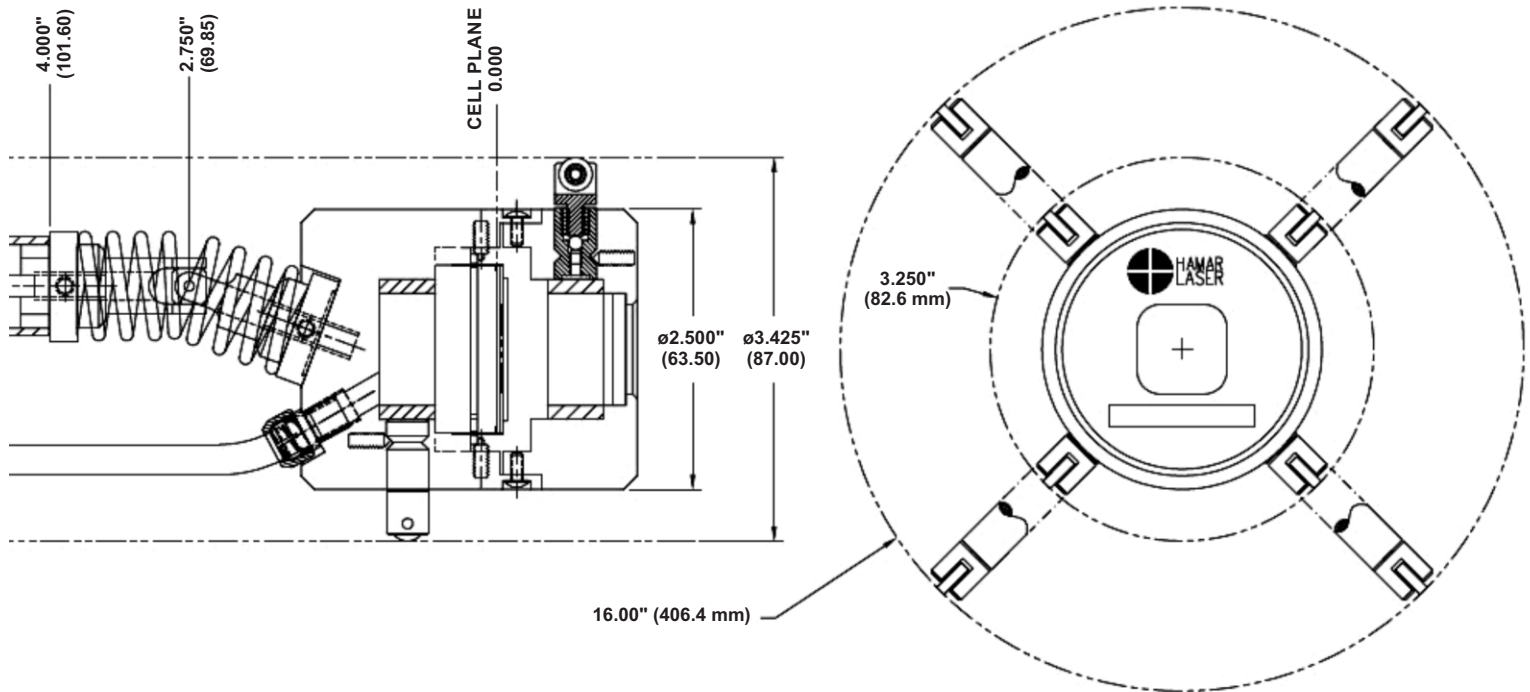
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For a list of our distributors, please visit: http://www.hamarlaser.com/intl_distributors.htm

Specifications

The A-516 2-Axis Target



Weight	1.7 lbs. (.78 kg)
Material	440C Stainless Steel
Resolution	0.001 mm
Target Cell Error	<1% over the effective measuring range
Bore Diameter Range	3.25 in. (82.6 mm) to 16.00 in. (406.4 mm). Each bore requires 1 set of A-516CLR measuring legs.
PSD Size and Type	.78 x .78 in. (20 x 20 mm) 2-axis
Measuring Range (L-705, L-706, L-708)	± .30 in. (7.5 mm)
Measuring Range (L-708LD)	± .10 in. (2.5 mm)
Accelerometer	Resolution: 0.1 degree Accuracy: ±1.0 degrees
Cord Dimensions	33 ft. (10 m)
Housing OD	2.5 in. (63.5 mm)
PSD Concentricity to Housing	.0005 in. (0.01 mm)
Measuring Tape Accuracy on A-510E Insertion Pole	± 5 mm