

Model 2002

Auto- Collimating Alignment laser System-Model 2002



Applications

- Jigs & Fixtures
- Machine Tools
- Turbines & Shafts
- Adaptable for in-process control
- Ship Assemblies
- Rolling Mills
- Tracks

System Description

SMS Auto-Collimating Alignment Laser System - Model 2002 is the most accurate laser alignment system available. The incorporation of a solid-state laser diode provides increased beam stability. The addition of an operator selectable auto-collimating feature provides one arc second accuracy over a large angular range.

To improve ease of operation, the Model 2002 incorporates a solid-state laser, which eliminates warm-up time. A microprocessor automates system configuration. A new bus interconnect reduces setup time and allows up to seven operator selectable targets, reducing time required to perform measurements. A complete Model 2002 system consists of an auto-collimating laser, power supply, digital display, and end targets, carrying case, and cable assemblies.

2002 Auto-Collimating Alignment Laser System — Technical Information

Laser

Dimensions	2¼" diameter x 12" length
Weight	9 lbs.
Output Power	700µW, Class II
Modulation	100% AM at 5kHz
Wavelength	670 nm.
Laser Life	>10,000 hrs
Alignment Range	200 feet
Auto-Collimating Range	100 feet
Beam Diameter	0.3 in. at exit aperture
Beam Concentricity	±0.001 in.
Beam Parallelism	±2 arc second
Auto-Collimating	
Angular Measurement Range	±10 arc seconds at 100 feet
Angular Resolution	± 1arc second (display limited)
Angular Accuracy	±1 arc second (slow dampening)

Power Supply Dimensions

Dimensions	5"h x 8¼"w x 71/8"d
Weight	8 lbs.
AC Input Voltage	100 to 120 Volts AC or 220 to 240 Volts AC Input
Frequency	47 to 63 Hz
AC Input Power	30 Watts

Display

Dimensions	5"h x 8¼"w x 71/8"d
Weight	4 lbs.
Type	±3 digit, 7 segment LED
Color	Red, 635 nm
Range	±999 x 0.001 in.
Detector Selector	Push-wheel switch, 0-7 (8 detectors)
Dampening Time Constant	Fast 0.1 second; slow 1.0 second

End Target

Dimensions	2½"h x 2½"w x 2¾"d
Weight	2 lbs.
Detector	
Range	±0.150 in.
Resolution	±0.001 in. (display limited)
Accuracy	±0.001 in.

See-Thru Target (Consult Factory)

Detector Bus Ability to plug in at any 20' increments on 100' and 200' cables.

Cable	
Length	10 ft., 50ft, 100ft, 200ft
Weight	5.5 lbs/100 feet
Type	Extra flexible, PVC insulated
Outside Diameter	0.25"



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Specifications subject to change.