

Specifications

S-640 Coupling Alignment System

Model S-640 Coupling Alignment System

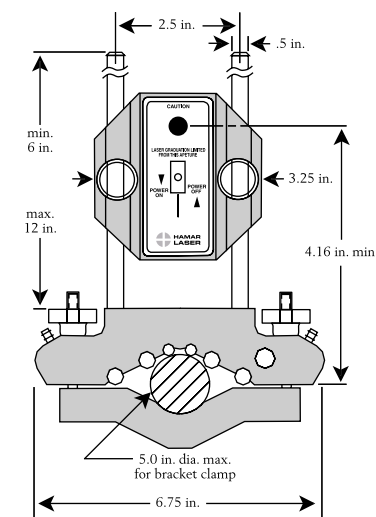
L-740 Laser
Laser Type Visible diode, Class II
Wavelength 670 nanometers
Power <1 mW
Operating Range 30 feet (9.45 meters)
Size 3.25" square × 2.0" (8.25cm × 8.25cm × 5cm)
Power Supply Rechargeable battery pack (8-hour life)
Weight 18 oz. (510g)
Material Case: Aluminum

T-266 Target
Type 4-axis simultaneous
Resolution .00002" (.0005mm) center
 .00001"/in (.01mm/M) angular
Measuring Range +/-5° angular
 +/- .150" (3.81mm) center
Size 3.25" square × 2.0" (8.25cm × 8.25cm × 5cm)
Cable Length 10 feet (3.05 meters)

R-358 Computer Interface
Size 3.33"W × 1.20"H × 5.25"D (84.6mm × 30.5mm × 133.4mm)
Weight 12 oz.
Power 3.5V, 1350 mAh lithium ion rechargeable battery
Battery Life 8 hours continuous operation

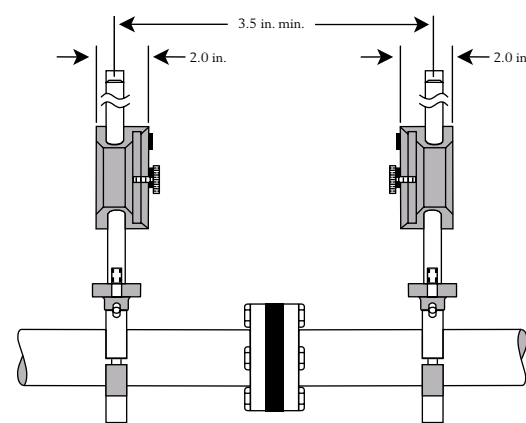
A-907 Bracket Set
Brackets 0.5"W (12.7mm) with magnetic attachments for coupling flanges, etc.
Shaft Range:
Standard Bracket Set .375" diameter to 5.0" diameter (9.5mm to 127.0mm)
Link Chain Clamp Set 5"+ diameter to 12" diameter (127.0mm to 304.8mm)
 Can accommodate shafts up to 18" diameter (457.2mm) by adding additional chain
Chain Type #35 roller chain, 3.3 ft. long (1m)
Fixture Rods (4) 6" long (152.4mm)
 (4) 12" long (304.8mm)

L-740 Laser and A-907 Bracket Set



(All dimensions in inches)

L-740 Laser (left) and T-266 Target (right)



(All dimensions in inches)

A comprehensive system offering high accuracy and simple set-up.



HAMAR LASER
 Hamar Laser Instruments, Inc.
 5 Ye Olde Road, Danbury, CT 06810
 Phone: 800.826.6185 • Fax: 203.730.4611
 E-mail: sales@hamarlaser.com
 www.hamarlaser.com



The Most Feature Rich Mid-Level System on the Market

Quality, Accuracy, Flexibility

- 1 • T-266 4-axis target.
• Sub-micron resolution.
- 2 • L-740 Laser has an operating range of up to 30 feet.
- 3 • Large, concise color display of data and misalignment graphics.
• 4-axis simultaneous live graphics.
• Real-time processing allows viewing of alignment corrections as they are being made.
- 4 • Optional ruggedized laptop computer designed for shop-floor environments.
- 5 • Many flexible mounting configurations available.
• Laser and targets are pre-aligned to brackets for quick and easy set-up.



Properly aligned shafts can prolong motor, pump, bearing and seal life, increase productivity, and reduce costly downtime due to unplanned maintenance and repairs.

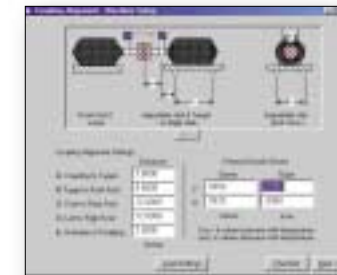
Proper alignment of motors also reduces electrical consumption significantly — as much as \$150,000 per year in one study. Hamar Laser's S-640 shaft alignment system simplifies the task of detecting, then fixing, misalignment problems. Alignment times can also be reduced by two-thirds or more, compared to conventional, less accurate alignment methods.

The S-640 Coupling Alignment System has been an alignment workhorse for over 10 years. It was the first system to have a simultaneous 4-axis live display of the misalignment, and the first to run on a laptop computer. It has field-proven durability, with newly redesigned electronics that offer submicron (.00002") resolution, upgraded

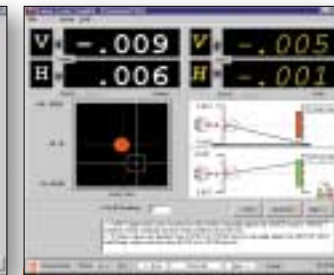
software and redesigned brackets that are even faster to set up. The S-640 can dynamically measure and adjust the alignment of almost any motor pump configuration and size. And, the 4-Axis Live Alignment Screen feature means you don't have to retake data when switching from the vertical to the horizontal stage of the alignment.

The S-640 is the perfect system for the user who does not need the features of a high-end unit but demands accuracy, simplicity, quality and durability in a mid-level coupling alignment system.

Alignments Done in Five Easy Steps



Step 1 Enter machine dimensions, tolerances and thermal offsets for accurate shim and move calculations.



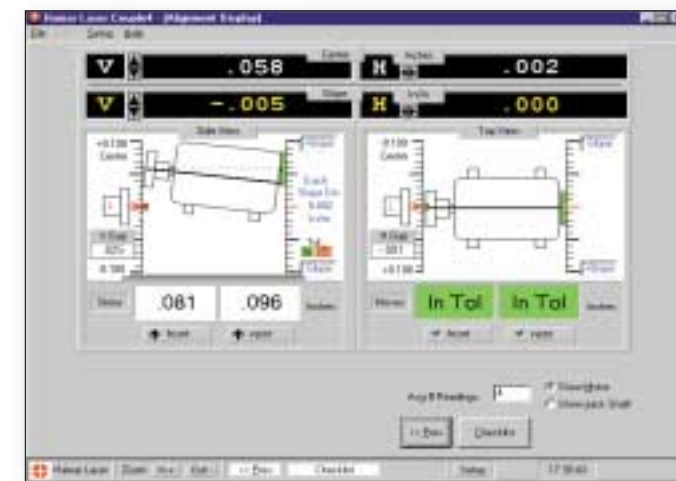
Step 2 Set up laser/target and adjust readings <0.030 and use for rough angular alignment on new installations.



Step 3 Perform simple, soft-foot routine to eliminate time-consuming alignment problems caused by soft feet.



Step 4 Rotate shafts to three clock positions and press space bar to determine laser and target mounting errors.



Step 5 Provides shim values, horizontal moves and a live alignment status for all 4 axes simultaneously. Shim box turns green when alignment tolerances are met.



L-740 Laser
The S-640 uses an adjustable, visible-diode, Class II laser beam with an operating range of up to 30'.



T-266 Target
The S-640 features a true 4-axis target that reads both center and angle simultaneously.



A-907 Bracket Set
Standard mounting fixture sets are designed to work with shaft diameters ranging in size from 3/8" to 12" - 18" with optional mounting kit.

Features

- 4-axis dynamic display of shims and moves.
- Sub-micron resolution (.00002").
- Accurate alignments with as little as 90° of rotation.
- Windows-based software with large, color graphics.
- Quick-set brackets for 3/8" to 18" diameter shafts.
- Coupled or uncoupled shaft alignment capabilities.
- Vertical pump capability.
- Soft-foot routine.
- Rotation sensor automatically adjusts screen for clock position.
- Portable/rugged.
- Up to 30' operational range between laser and target.
- Optional color printer, for printing reports.

System Configuration

- L-740 Coupling Laser
- T-266 4-Axis Coupling Target
- R-358 Computer Interface
- R-342 Notebook Computer
- A-907 Bracket Set
- A-509D Pelican Shipping Case
- S-1393 Couple4 Software

Optional Accessories

- A-907A Offset Bracket Set
- R-1342 Toughbook® Laptop
- R-353C Color Field Printer
- A-907B Extra Chain Links