S-660 3-AXIS WIRELESS SHAFT ALIGNMENT SYSTEM

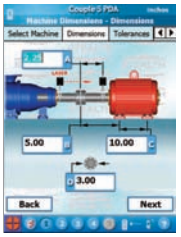
With standard wireless communication, color software and high accuracy, the S-660 offers the best value in entry-level shaft alignment lasers. Its Dual-Fan™ technology provides the highest accuracy of all the entry level systems without the limitations of 2 laser/2 detector type systems. Choose from a portable smart phone or rugged PDA to display our Couple5 Shaft Alignment Software.

Features

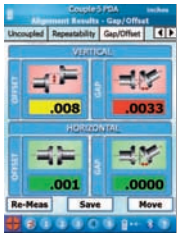
- **Dual-Fan™ Measurement Technology -** allows highly accurate measurement of offset and angle simultaneously using two, unidirectional, 0.5-degree laser fans and two PSDs, providing full angular measuring range over the full operating range between laser and target.
- **Bluetooth® Wireless Communication -** Sealed inside the IP67 housing, our Bluetooth transmitter has a range from Target to PDA of up to 33' (10 M).
- **True PSD Detector Technology -** 1-axis PSD technology provides 1 micron resolution with a detector size of 20 mm (V) x 1 mm (H).
- **Highest Entry-Level System Accuracy -** Up to 5x higher sensor accuracy than our competitors, the S-660 gives you the most accurate measurement of any entry-level shaft alignment system.
- **Industry's Longest Wireless Battery Life -** Laser and target use the latest in lithium polymer battery technology, which offers the industry's longest battery lives of over 14 hours of continuous use!
- **Auto Clock™ Data Taking Mode -** A standard feature, making coupled alignment amazingly easy. Built-in accelerometer detects shaft rotation and automatically selects the clock location to record up to 8 data points. More data points mean better accuracy and quicker alignments.
- **Soft Foot Check -** A standard feature that not only finds the soft foot but also recommends the amount of shim to fix it.
- **Color-Coded Tolerance Check -** Choose a tolerance and Couple5 software applies it to the data displays, which are color coded to show: out of tolerance (red), acceptable alignment (yellow) or excellent alignment (green).
- **2-Axis Live Move Screen -** Offset and angular alignment values and dynamic motor graphics continuously update to show how much the motor moves as you adjust it.
- **Flip-It™ Screen Graphics -** A very popular feature where double tapping the screen flips the graphics orientation if you are on the wrong side of the machine. No more upside-down displays and mixed-up shims!
- **Any-Point Move Screen -** Our live move screen does not need the shafts to be at any specific clock location. Just be within +/- 30 degrees of 12, 3, 6, or 9 and Couple5 automatically switches axes to match the shaft rotation without pushing any buttons!
- **Measurement Noise Filter -** Variable data averaging allows the user to choose the amount of data filtering to reduce the effects of poor measuring environments.
- **Smart Phone Display Platform -** The S-660 uses the latest in smart phone technology as a platform for our Couple5 software, making it easy to find replacements if the phone is damaged or stolen..
- **Text Message Reports -** Utilizing commercially available smart phone technology, alignment data can easily be sent as a text attachment to any cell phone or email in the world.

Industry-Leading Couple5 Software for Smartphones and PDAs.

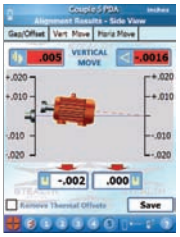
In any alignment system, the hardware is only half the story. The software is the other, more important half because it is the software that you use 95% of the time. So when we designed the Stealth™ Series Couple5 Software, we wrote it with the novice user in mind and created our Easy Guide™ approach to software navigation that makes it so easy to use that it requires little to no training. Easy-to-follow, high quality, color screens lead you through each stage of the alignment, so don't need to constantly refer to "cheat sheets" just to remember how to use it!



Step 1 - Dimensions
For standard machines, enter only 4 motor dimensions.



Step 4 - Gap/Offset-Results Screen
Shows misalignment results instantaneously against the user-selected tolerance.



Step 5 - Live Move Screen
Live in both offset and angular axes, the Move Screen graphics instantaneously update with each move.

STEALTH SERIES™ S-660 3-AXIS WIRELESS SHAFT ALIGNMENT SYSTEM

Options

Bracket Options

A-970A Chain Bracket Upgrade (4", 12" posts, extra chain)

A-970B Small Shaft Adapter

A-970C Extra Chain Set 1.5"-12" Shaft Diameter

A-980NRA Non-Rotating Small Shaft Bracket

A-980NRB Non-Rotating Large Shaft Bracket

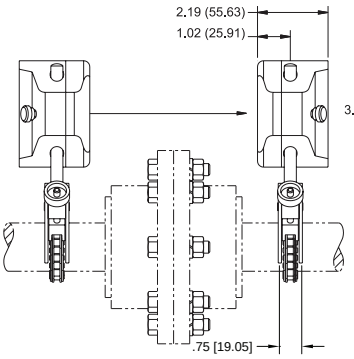
A-980OF Offset Bracket

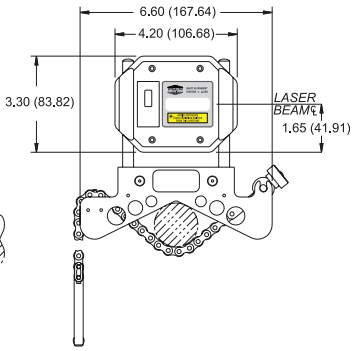
A-982 Magnetic Bracket Adapter

Display Options

R-1340 Smart Phone Data Platform
Standard Smart Phone Display features Windows CE® 6.5, high resolution VGA display, mobile phone (voice and data plan not included) and GPS. Text or e-mail data reports to any phone or PC.

R-1345 PDA Device
Standard PDA Display features Windows® 6.1, high resolution VGA display, ruggedized design, and an environmental rating of IP67.





Standard Software Features

- Auto Clock™
- Horizontal Machines
- Vertical Machines
- Thermal Growth at Coupling
- Soft Foot Shim Calculator
- Flip-It™ Machine Graphics
- Recommended Tolerances
- 1,000 Saved Files
- Report Software for PC

Optional Software Features

- Auto-Sweep™
- Bolt Bound™
- Point Mode
- Repeatability/History Table
- Thermal Growth Foot Calculator
- Live Vertical Move Screen
- Spacer Shafts
- Save 2,000 Files
- User-Defined Tolerances
- Templates

Laser/Target Unit Size	4.2" x 3.3" x 2.2" (107 mm x 84 mm x 50 mm)
Housing Material	Impact resistant plastic
Detector Type & Size	Single-axis super-linear PSD 20 mm (v) x 1 mm (h) provides 2 continuously updating alignment axes.
Target Measurement Resolution	Offset: 1.0 micron (.000039") Angular: 0.025 mm/M (.0003"/ft.)
Target Measurement Accuracy	Offset: <0.75% Angular: <1.5%
Angular Sensor Range	+/2° (+/- .034"/inch or 3.4 mm/100 mm)
Laser Type	650 nm dual-fan laser with 0.5 degree fan < 0.9mW
Communication between Target & Data Analyzer	Wireless Bluetooth® Class II 2.4 GHz radio frequency
Wireless Range	33 feet (10 M)
Display Platform	IP 54 Smart Phone or IP 67 Rugged PDA
Rotation Sensor (3rd axis)	Accelerometer Resolution: 0.1° Accuracy: +/- 1.0°. Measurement accuracy not affected by rotation sensor accuracy

Environmental	IP 67 (laser and target)
Data Storage Capacity	1,000 files
Bracket Set	Covers 1.5" (37.6 mm) to 6" (152.4 mm) diameter shafts. Comes with 6" (150.4 mm) posts
Application Range	15 feet (4.5 M) between laser and target. Move offset value sensitivity not affected by long distance.
Operating/Storage Temperature	5°F to 140°F (-15°C to 60°C) for Laser, Target and PDA
Battery Life Target	15 hours continuous use with Bluetooth®. Target can be plugged into power source during use. Battery status icon and LED for both T-1280 Target and Smart Phone.
Battery Life Laser	60+ hours continuous use. Blinking LED indicates low battery status.
Battery Life	Smart Phone: 8 hours normal use (12 hours with battery upgrade) Rugged PDA: 15 hours normal use
AC Battery Charger (Laser, Target and PDA)	110V to 220V with U.S. and European adapters

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HAMAR LASER®
Shaft Alignment Laser Systems