

# El-Shaft Ace

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Datasheet

**EI Shaft Ace**  
the world's  
fastest & easiest  
to use laser  
shaft alignment  
system.



## Laser Shaft Alignment

The EI-Shaft™ Ace offers users the easiest shaft alignment experience available. The simple 5-Step alignment process is so intuitive that most users can start performing laser alignments right out of the box. Our easy to understand software is Microsoft Windows ready and can be installed on any Windows OS tablet, laptop or PC.



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## System Advantages

- > Improve asset availability & uptime through precision alignment.
- > Reduce unnecessary costs associated with unplanned failures & premature wear.
- > Reduce your energy consumption.
- > Wireless Bluetooth communications for safety
- > More efficient, and faster than dial-indicators
- > 5-Step Simple™ alignment process

## Sensors Units

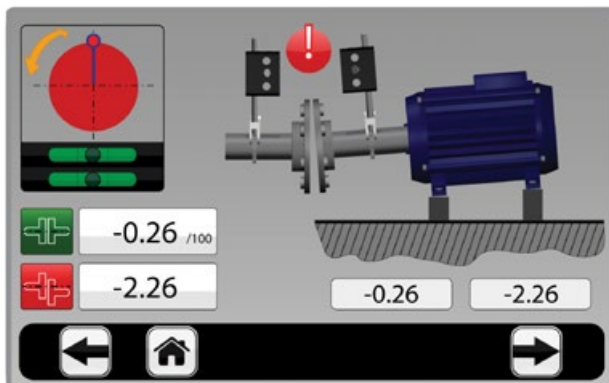
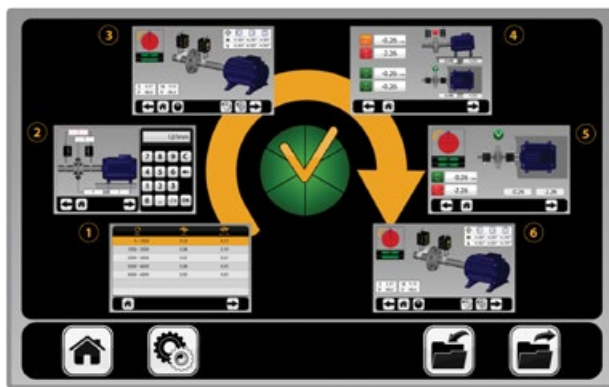
Our sensors use the latest digital Bluetooth® data processing technology. Sensor units have 30mm CCD-detectors to accommodate even the most difficult alignment set-ups, providing you with precise, repeatable measuring results and allows the system to be more interference immune from the external factors such as vibration and ambient light.



Responsive  
windows  
interface with  
**3D animation**






















Thanks to the compact and durable aluminum case of the sensor units, you can work even in the most confined space & harsh environments. Large CCD detectors also eliminate the need to pre-align machines.


## Technical Specs



<b>Material</b>	Anodized aluminium
<b>Dimensions</b>	90 x 60 x 32 mm
<b>Laser radiation</b>	Diode laser with laser wavelength 635 nm, class II
<b>Laser power</b>	< 1 mW
<b>Measurement distance</b>	Up to 10m
<b>Detector length</b>	30mm
<b>Detector type</b>	Digital CCD detector
<b>Measurement accuracy</b>	0,3% ± 7 m
<b>Inclinometer</b>	0.1
<b>Degree of protection</b>	IP65
<b>Operating time</b>	up to 20 hours
<b>Bluetooth</b>	4.0
<b>Operating temperature</b>	14° F to 140° F (-10° C to +60° C)

# FEATURES AVAILABLE

	Horizontal Alignment		Machine Train
	Clock Method		User Defined Tolerance
	SmartAngle™		Optical Smart Filter
	SmartSpin™		VibeDr™
	SmartPoints™		LiveDial™
	Vertical/Flange Mounted Machines		Save Job
	Soft-Foot Check		User Friendly Reports
	Bolt or Base Bound		Thermal growth expansion
	Select Coupling Type		SwitchIt™
	Cardan Shaft		Shims Calculator
 Help			

<b>CLOCK METHOD</b>	The 9-12-3 o'clock method is the basic method for taking measurements. It requires a clear set of units at the 9, 12 and 3 o'clock positions.	<b>BOLT OR BASE BOUND</b>	Get any pair of feet locked on the machine. Enabling this option will ensure precise results when aligning base-bound or bolt-bound machines.	<b>USER-FRIENDLY REPORTS</b>	Save alignment reports in PDF, add photos of the unit, the company logo and work notes when necessary.
<b>SMARTSPIN™</b>	The measured values are automatically recorded during shaft rotation. With hundreds of points registered, you can start measuring at any shaft position. The measurement quality is controlled by a certified processing algorithm based on Shelly AI™, which provides the greatest possible repeatability of measurements.	<b>SELECT COUPLING TYPE</b>	This option allows you to specify the coupling type used for shaft connection – i.e., short flex or spacer shaft.	<b>THERMAL GROWTH EXPANSION</b>	Automatic compensation system for the thermal growth expansion of machines allows to keep the efficiency of alignment in any environment.
<b>SMARTPOINTS™</b>	This multipoint method allows you to record an unlimited number of points at any sector of the shaft circumference. It is perfect for centering turbines and machines with sleeve bearings.	<b>CARDAN/OFFSET MOUNTED MACHINES</b>	This option is specially designed for alignment of cardan and offset mounted machines. Cardan Bracket set (accessory) required.	<b>SWITCHIT™</b>	Simplify the measurements by selecting the machine location relative to an operator.
<b>SMARTANGLE™</b>	Take measurements at any three positions of the shaft rotation. Turn shafts in any direction at least by 20 degrees and register the results. This mode is extremely helpful when the clock method is not available.	<b>MACHINE TRAIN</b>	Enable this option and align shafts of up to five machines that are connected together.	<b>VIBEDR™</b>	VibeDr™ filters vibration related influences that can negatively impact precision alignment thus insuring the machines in the same proximity do not adversely effect your alignment job.
<b>VERTICAL/FLANGE MOUNTED MACHINES</b>	Measure and align vertical and flange machines with a program specially created for this purpose.	<b>USER DEFINED TOLERANCE</b>	Specify the alignment tolerance based upon manufacturer recommendations or customer specification.		
<b>SOFT FOOT CHECK</b>	Adjust machine feet beforehand for better results. Soft foot check option is designed specifically for this job.	<b>SMARTFILTER™</b>	Keep the alignment precise under any circumstances. The averaging filter reduced the influence of external visual challenges such as lighting, steam, and other visually impairing variables while taking measurements.		
		<b>LIVEDIAL™</b>	Monitor the data coming directly from the measuring units on the screen of your device.	<b>AVAILABLE ACCESSORIES:</b> - CARDAN BRACKETS - OFFSET BRACKETS - MAGNETIC BRACKETS - MAGNETIC BASE - EXTENSION RODS - EXTENSION CHAIN - NON-ROTATING SHAFT BRACKETS - RENT ADVANCED FEATURES TEMPORARILY	

**2**  
YEAR  
WARRANTY

## ACCESSORIES AVAILABLE

CARDAN BRACKETS – MAGNETIC BRACKETS – OFFSET BRACKETS – MAGNETIC BASE – EXTENSION RODS – EXTENSION CHAINS, NON-ROTATING SHAFT BRACKETS – RUGGED CASE

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