VIBRO-LASER VLSAT

Laser Shaft Alignment Tool
Multi-Platform easy-to-upgrade
Solution

VIBRO-LASER
GET ALIGNED™



INTRODUCTION

2 YEAR LIMITED WARRANTY

VIBRO-LASER Instruments LLC 52 Main Street Queensbury, NY 12804
www.vibro-laser.com +1.877.223.4606

TECHNICAL DATA

Engineered for maximum resolution, accuracy and minimal set up time

Distance between units	up to 10 m (33 ft)
Laser emission	diode laser with wavelength 635nm, class II, <1 mW
Detector type	latest generation industrial linear CCD sensor
Dimensions	90mm x 60mm x 32mm (3.5 in x 2.3 in x 1.2 in)
Detector receiver length	30 mm (1.2 in)
Detector resolution	0.001 mm
Measuring accuracy	0.3% ± 7um
Protection class	IP65 (Dust-proof & water resistant)
Bluetooth	4.0
Operating temperature	from -10 ° C to +55 ° C (14 to 122°F
Time of operation	up to 20 hours

SOFTWARE

With VLSAT you receive all needed features for laser shaft alignment with a simple license key upgrade.
See all features below:



Horizontal Alignment



Clock Method



SmartAngle™



SmartSpin™



SmartPoints™



Vertical/Flange Mounted Machines



Soft-Foot Check



Bolt or Base Bound



Select Coupling Type



Cardan Shaft

SOFTWARE



Machine Train



User Defined Tolerance



Optical Smart Filter



VibeDr™



LiveDial™



Save Job



User Friendly Reports



Thermal growth expansion



SwitchIt™



Shims Calculator



Help

FEATURES

A brand-new step by step, intuitive interface with 3D animation simplifies the operator's work and reduces time spent on alignment.

CLOCK METHOD	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.
SMARTSPIN™	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.
SMARTPOINTS™	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.
SMARTANGLE™	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.
VERTICAL/FLANGE MOUNTED MACHINES	Measure and align vertical and flange machines with a program specially created for this purpose.
SOFT FOOT CHECK	Adjust machine feet beforehand for better results. Soft foot check option is designed specifically for this job.

FEATURES

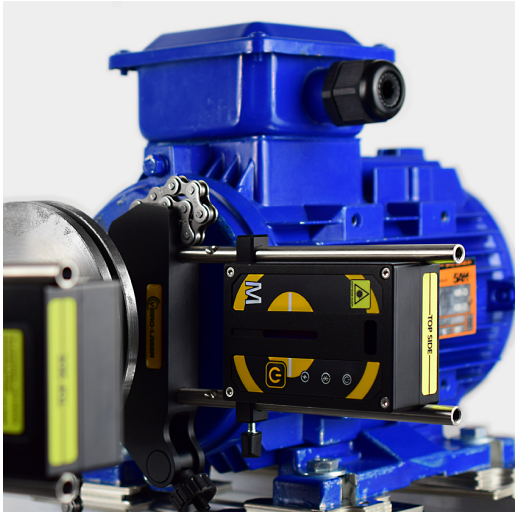
	The program analyzes the position of machine feet, indicates if any of them need adjustment, and saves all values for the further work.
BOLT OR BASE BOUND	Get any pair of feet locked on the machine. Enabling this option will ensure precise results when aligning base-bound or bolt-bound machines.
SELECT COUPLING TYPE	This option allows you to specify the coupling type used for shaft connection – i.e., short flex or spacer shaft.
CARDAN/OFFSET MOUNTED MACHINES	This option is specially designed for alignment of cardan and offset mounted machines. Cardan Bracket set (accessory) required.
MACHINE TRAIN	Enable this option and align shafts of up to five machines that are connected together.
USER DEFINED TOLERANCE	Specify the alignment tolerance based upon manufacturer recommendations or customer specification.
SMARTFILTER™	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 measure-ments.
LIVEDIAL™	Monitor the data coming directly from the measuring units on the screen of your device .

FEATURES

USER-FRIENDLY REPORTS	Save alignment reports in PDF, add photos of the unit, the company logo and work notes when necessary.
THERMAL GROWTH EXPANSION	Automatic compensation system for the thermal growth expansion of machines allows to keep the efficiency of alignment in any environment.
SWITCHIT™	Simplify the measurements by selecting the machine location relative to an operator.
VIBEDR™	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.







AVAILABLE ACCESSORIES:

- CARDAN BRACKETS
- OFFSET BRACKETS
- MAGNETIC BRACKETS
- MAGNETIC BASE
- EXTENSION RODS
- EXTENSION CHAIN
- NON-ROTATING SHAFT BRACKETS
- RENT ADVANCED FEATURES TEMPORARILY

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