VIBRO-LASER

WWW.VIBRO-LASER.COM

VIBRO-LASER PRO

OUTLINE

THE VIBRO-LASER PRO SYSTEM is designed to eliminate alignment issues on a maximum range of rotating machinery (compressors, generators, turbines, etc.), this system combines all the basic functions with a choice of different coupling types and adds the advanced features inherent in powerful shaft alignment tools.

With the Pro Kit you have a choice of several different measurement methods, e.g. continuous **SMARTSPIN™** and multipoint **SMARTPOINTS™**. The simplest and most expedient means of acquiring the alignment status of coupled equipment.

Consequently, machinery alignment is made achievable, regardless of whether the rotating equipment possesses sliding (sleeve) bearings or rolling (anti-friction) bearings.

FEATURES

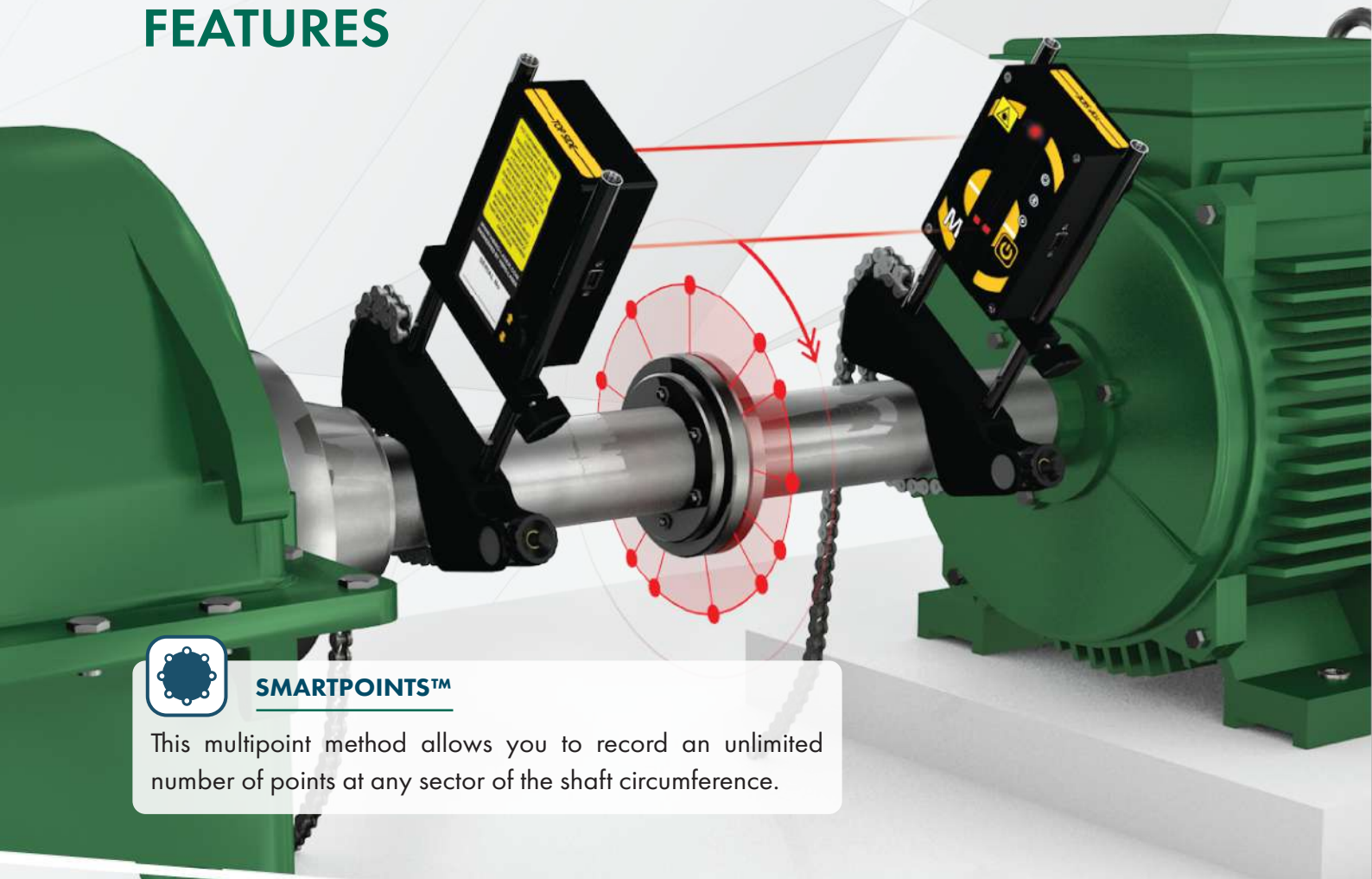
SMARTSPIN™

The measured values are automatically recorded during shaft rotation. With hundreds of points registered, you can start measuring at any shaft position.

SMARTSHIFT™

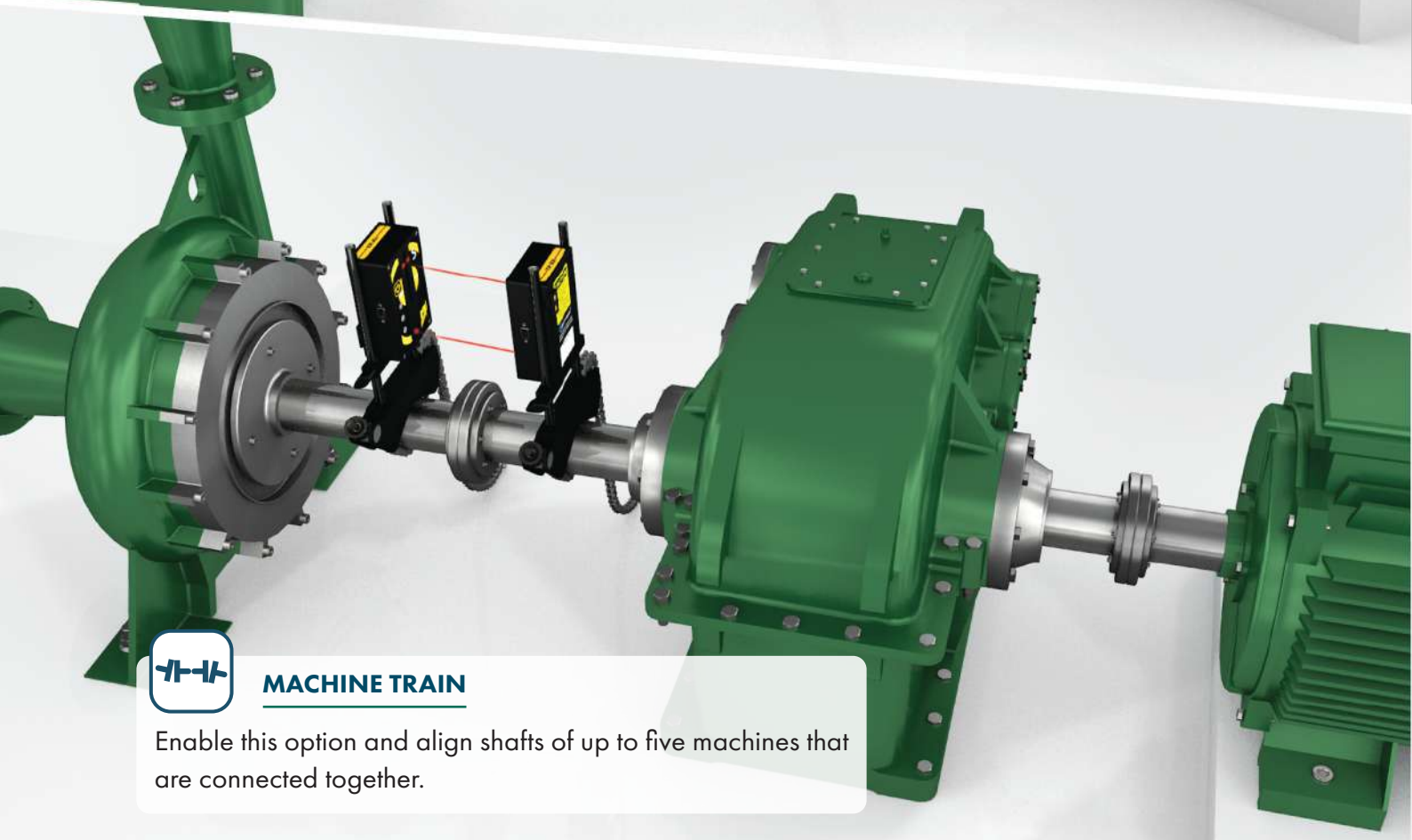
When it's necessary to change the position of the laser units or change the position of the laser on the detector during the measurement, you have to use feature the Smart Shift™.

FEATURES



SMARTPOINTS™

This multipoint method allows you to record an unlimited number of points at any sector of the shaft circumference.



MACHINE TRAIN

Enable this option and align shafts of up to five machines that are connected together.

CLOCK METHOD

An alignment method which requires the measurements taken at any three of four preset clock positions (3, 6, 9 and 12 o'clock).

SMARTANGLE™

Take measurements at any three positions of the shaft rotation. Turn shafts in any direction at least by 40 degrees and register the results.

VERTICAL/FLANGE MOUNTED MACHINES

Measure and align vertical and flange machines with a program specially created for this purpose.

SOFT FOOT CHECK

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.

USER DEFINED TOLERANCE

Specify the alignment tolerance and user definable tolerances in advance according to the machine rotation speed.

SMARTFILTER™

The averaging filter reduced the influence of external visual challenges such as lighting, steam, and other visually impairing variables while taking measurements.

SENSOR READINGS

Monitor the data coming directly from the measuring units on the screen of your device.

VIBEDR™

Filters vibration related influences that can negatively impact precision alignment thus insuring the machines in the same proximity do not adversely affect your alignment job.

SAVE JOB

Allows user save alignment job status at any time and return to the job at a later time.

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.

LIVE MOVE MODE

Allows live aligning in any angle position of the measuring units. When it is not possible to install the measuring units strictly in the 9–12–3 hours position.

SHIMS CALCULATOR

Allows user simulate changes in alignment results with virtual movement of the machine in horizontal and vertical planes.

REPEATABILITY TABLE

Allows choose any from the last 10 measurements that you have taken based on which further actions will be carried out.

TECHNICAL DATA

MEASURING UNITS S, M (2 UNITS)

DIMENSIONS	90mm x 60mm x 32mm (3.5in x 2.3in x 1.2in)
LASER EMISSION	diode laser with wavelength 635nm, class II, <1 mW
DISTANCE BETWEEN UNITS	up to 10m (33ft)
DETECTOR RECEIVER LENGTH	30 mm (1,2 in)
DETECTOR RESOLUTION	0,001 mm
OPERATING TEMPERATURE	from -10 º C to +55 º C (14 to 122°F)
PROTECTION CLASS	IP67 (Dust-tight and protected against water)
MEASURING ACCURACY	0.3% ± 7um
BLUETOOTH	4.0
OPERATING TIME	up to 20 hours
DETECTOR TYPE	latest generation of industrial linear detector
EXPLOSION-PROOF CONFIGURATION (optional)	EACEx in accordance with Customs Union Technical Regulation TP TC 012/2011 AND MINIMAL SET UP TIME

CHAIN V-BRACKETS (2 UNITS)

PURPOSE	used to fix the measuring units on the shaft diameter 25 - 225 mm (1 in - 8.6 in).
CONTENT	1 × standard V-bracket
SUPPLIED WITH	2 x threaded rods of 160 mm (6.3 in), 1 x chain w/screw end 500 mm (19,7 in).

CASE CONTENT

EXTENSION CHAIN WITH CARABINER (2 UNITS)

Used for mounting on larger diameter shafts. Installed in addition to the standard chains.

RACKS (4 UNITS, 120 MM)

Serve to increase the mounting height of the measuring units on the fixture.

TIGHTENING WRENCH (1 UNIT)

Serves for the possibility of changing the attachment struts.

OFFSET BRACKETS (2 UNITS)

Offset brackets are used when the space is limited. This type of mounting allows the racks to be moved out for convenient installation of the measuring units.

MAGNETIC BASE BRACKETS (2 UNITS)

Measuring heads can be mounted on large diameter shafts with the magnetic base.

MEASURING TAPE (1 UNIT)

Used to perform measurements before operating the measurements system.

HARD RUGGED CASE PELICAN VAULT 200 BLUE

Engineered for robust usage, formidable impact, and superior weather resistance, this case excels in durability.

USB CABLE (2 UNITS)

Required to charge the measuring units.

POWER ADAPTER (1 UNIT)

Operates in collaboration with a USB cable to recharge the measuring units.

DISPLAY UNIT (1 UNIT, OPTIONAL)

A unique tablet computer built specifically to increase fieldwork efficiency.

MAGNETIC V-BRACKETS (2 UNITS)

Magnetic V-brackets are used for mounting the measuring units on the side of the coupling with strong magnets when chains cannot be used.

CONTACTS

WHATSAPP

SITE

E-MAIL