



Alignment Systems

Products & Services



From the inventors of Laser Shaft Alignment

Shaft Alignment

The beginning of an era

1983 marked the year in which OPTALIGN®, the first laser shaft alignment system, was introduced. OPTALIGN® revolutionized the practice of shaft alignment in the maintenance of rotating machinery. PRÜFTECHNIK used the experience gathered from OPTALIGN® to develop and produce customer-oriented laser alignment systems that meet both the user's needs and budget.



All our shaft alignment systems feature the patented automatic CONTINUOUS SWEEP measurement mode which evaluates hundreds of readings during shaft rotation. This compares to shooting a movie vs. only taking flash pictures at certain intervals. The end result is less shimming and horizontal moves because you are measuring much more accurately.



Precision alignment of pulleys & sprockets

Our pulley/sprocket alignment tools allow you to quickly ascertain and correct angular and offset misalignment. Traditional methods are cumbersome and require two people. One person does it easily with our rugged and economical laser tools!

www.ludeca.com/pulleys



Brands and types are country specific.

SS Precut shims The alignment time-savers

Precut shims pay for themselves very quickly when alignment time and accuracy are at a premium. Shims come in a storage carrying case with size dividers or in individual packages. Available in 13 different thicknesses. Sizes A, B, C, D, G and H.

www.ludeca.com/shims



OPTALIGN® smart Quick, accurate and reliable alignments

The latest addition to the OPTALIGN® family features Continuous Sweep, fully automatic tolerance evaluation, graphical alignment display, full color screen and Bluetooth® wireless communication. OPTALIGN® smart is fully modular, or customizable to meet your exact requirements and budget.

www.ludeca.com/optalign

www.ludeca.com/aligneo

ALIGNEO® Customized to your needs

This system has been specially conceived for customers looking for the right laser alignment equipment to fit both their application and budget. Like the OPTALIGN® smart, ALIGNEO® enables users to design their own system, acquiring specific features for their needs, and simply adding capabilities as job requirements grow.



ROTALIGN® Ultra

The ultimate alignment system

The third generation of ROTALIGN® features wireless Bluetooth® communication to the sensor and a 'Soft Foot Wizard' that not only measures your soft foot condition but analyzes it and suggests a solution. Obtain alignment results in 3 easy steps: Dimensions - Measure - Results! Advanced features such Standard Deviation let you cope with even the most complex alignment tasks including machine trains, over- and under-constrained machines, etc.



Brackets

Quick fit brackets save time

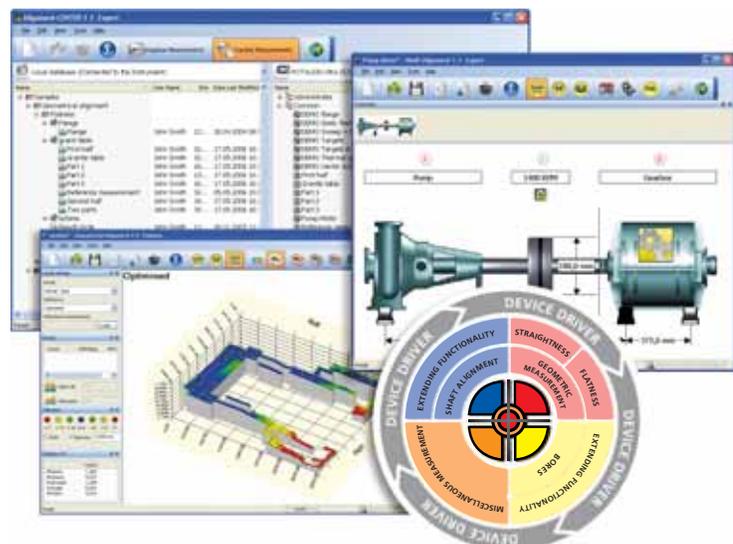
We offer a wide range of specially designed brackets for a variety of machine applications ensuring both fast measurement and accurate results. These brackets fit any PRÜF-TECHNIK shaft alignment system you have chosen and all of them are available for immediate delivery.



ALIGNMENT CENTER

The common PC software platform for all alignment products

The ALIGNMENT CENTER PC software handles the archival of all alignment data through a common file search and database structure for all measurement types including shaft alignment, straightness, flatness and bore measurements. Creates versatile customized color reports for compliance with ISO quality standards.



Industrial Alignment

Unsurpassed precision

PRÜFTECHNIK designs, manufactures and sells laser alignment systems that satisfy industrial applications such as bore and turbine alignment, the measurement of surface flatness and straightness, and non-contact monitoring of positional changes. These industrial systems are rugged, highly accurate, and their software makes measurement and the interpretation of results simple.



BORALIGN®

Alignment measurement of bearing shells and bores

BORALIGN® is a portable laser-based instrument for aligning bores, bearing pedestals and other circular machine elements. It also includes a measurement procedure for the alignment of work pieces to boring heads. The optional ALIGNMENT CENTER Bore PC software displays 2D and 3D views of bore setups from different perspectives.

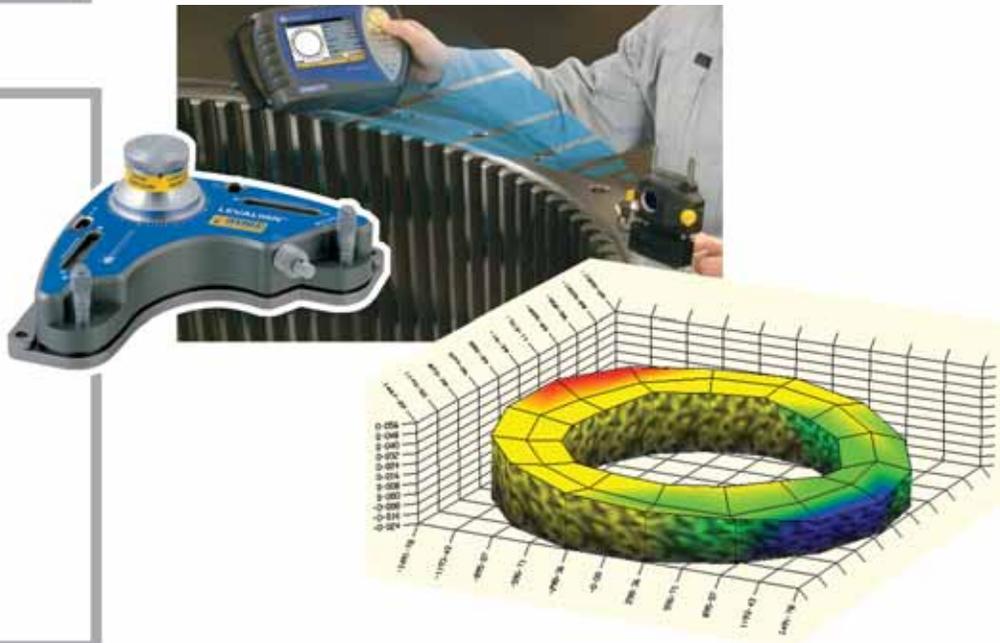
www.ludeca.com/bores

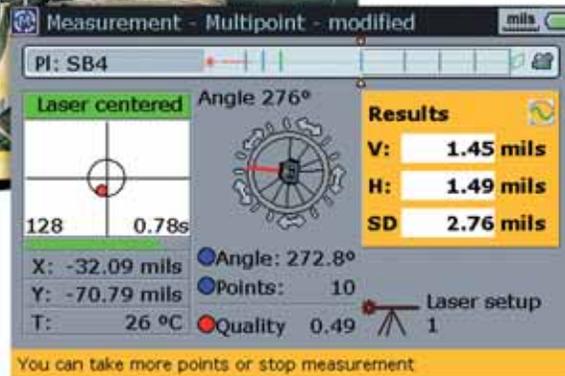
www.ludeca.com/flatness

LEVALIGN®

Determining surface geometry

The LEVALIGN® rotating laser provides an effective solution for measuring flatness, straightness and levelness of any type of surface. Simply position the sensor on each point of the grid and take measurements with one stroke of the key. Used together with the powerful optional ALIGNMENT CENTER Flatness PC software, the system can measure extremely large surface areas and thousands of points.





CENTRALIGN®

Laser alignment of bearing pockets / turbine diaphragms

CENTRALIGN® aligns concentric parts such as turbomachinery bearing pockets, steam glands, bearings on reciprocating engines and compressor cam holders quickly and accurately. No tedious pre-levelling and repeated set-ups, even for long spans.

www.ludeca.com/turbines



PERMALIGN®

Laser monitoring of machine alignment

PERMALIGN® maintains a watchful eye on positional changes during machine operation, notifying the operator if tolerances are exceeded. When used with its PC trending software, the system is ideal for determining or verifying thermal growth specifications or observing other types of displacement over time.

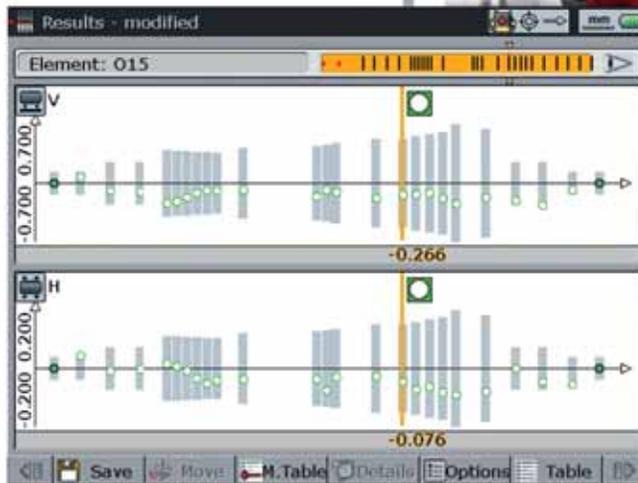


www.ludeca.com/permalign

Turbine alignment service

Laser alignment of bearing pockets / turbine diaphragms

Using CENTRALIGN® we offer complete measuring and alignment of turbines, both for new installations and for overhauls, including steam and gas turbines.

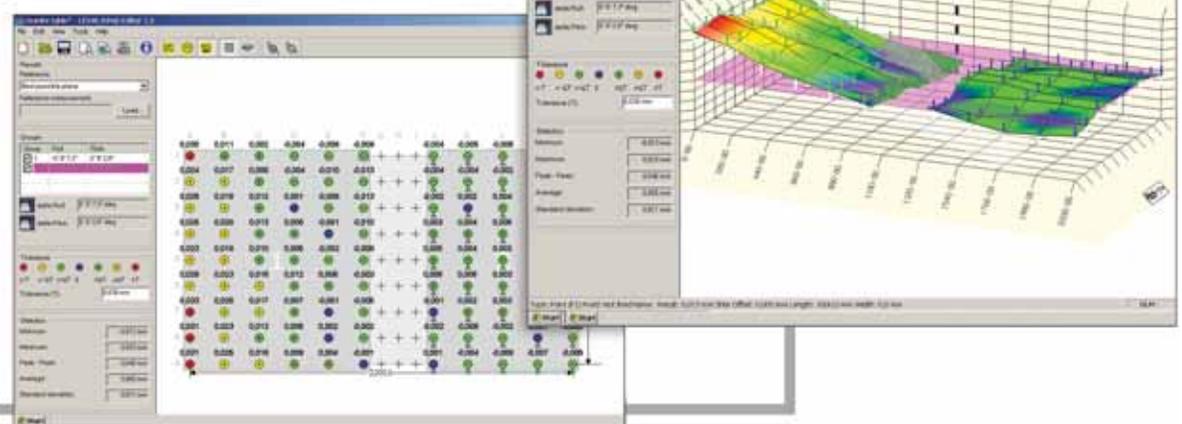


www.ludeca.com/consultation

Geometric alignment services

Measuring machine geometry

Using LEVALIGN® we measure the flatness and straightness of machine foundations, bedplates and tables, circular and rectangular flanges, machine half casings, and crane slewing rings.



www.ludeca.com/consultation



Induction Heating

EDDYTHERM® Induction heaters for shrink fitting

EDDYTHERM® induction heaters offer the ideal solution for fast, accurate, safe and efficient heating and automatic demagnetization of bearings, couplings, gears and other shrink-fitted parts. A wide range of models offers just the right capacity for nearly any size of workpiece.

www.ludeca.com/heater



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Productive maintenance technology