

LEVALIGN® Ultra

Measuring surface flatness and levelling
with precision and convenience



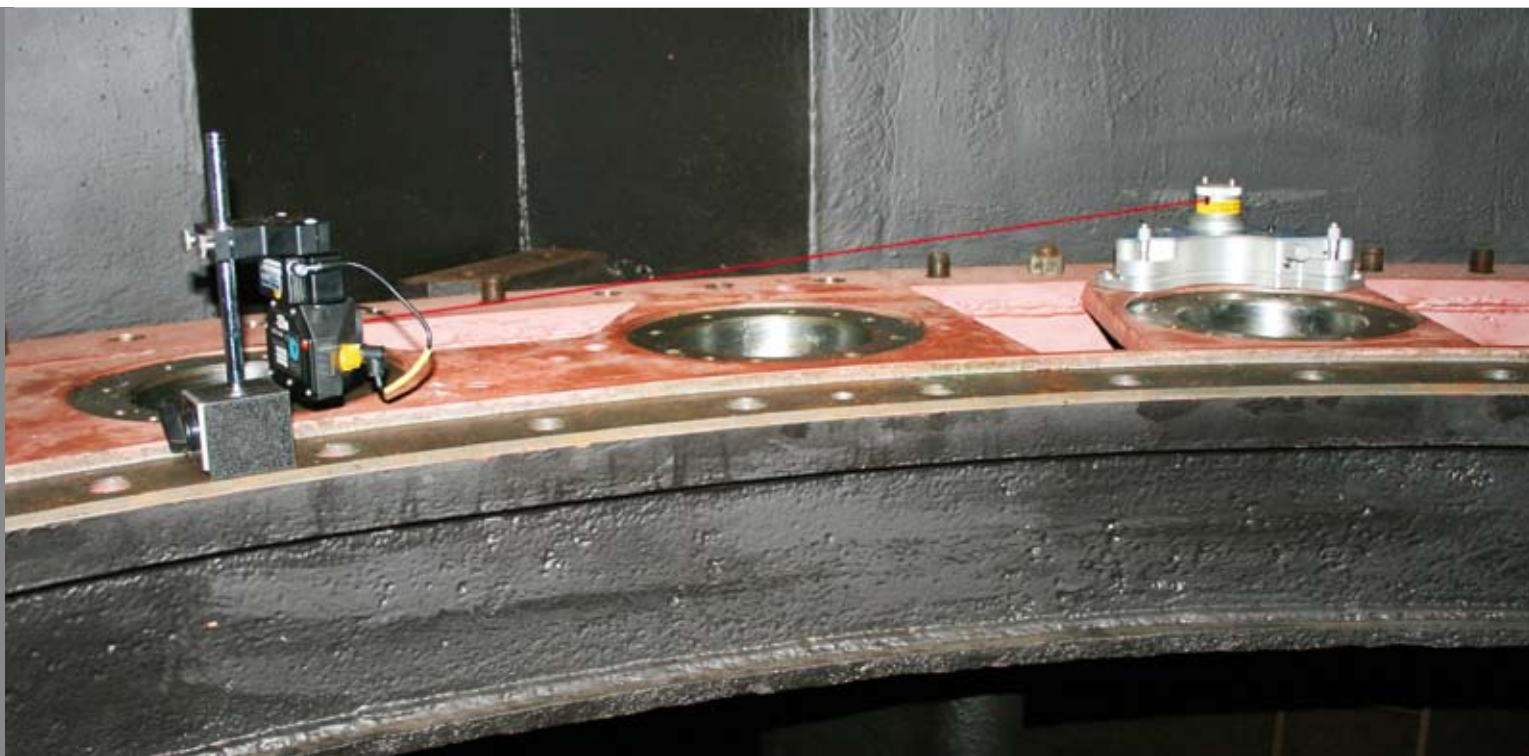
For OEMs, maintenance and service

LEVALIGN Ultra is a geometrical alignment system applied successfully within the following industries – petrochemical processing, paper mills, shipping, glass, marine engine builders, mobile crane manufacturers, and power generation. Service companies and OEMs will also find this system extremely advantageous. It improves machine running time and productivity. Used in conjunction with ALIGNMENT CENTER, a powerful Windows™ based PRÜFTECHNIK Alignment common software platform, makes it possible to measure perpendicularity and parallelism of two or more planes. The system is also available as an add-on module to the proven ROTALIGN Ultra system. Wireless data transmission via the RF module ensures flexible and convenient operation



- ▶ **Flatness, levelling and perpendicularity**
Levelling or measuring flatness of a plane. Using the PC software makes it possible to measure parallelism and perpendicularity of different surfaces
- ▶ **RF module**
Wireless data transmission ensures flexible and convenient operation
- ▶ **Variable reference points**
Choose the points to set your reference plane
- ▶ **Surface location to be welded or grinded**
Reference your measurement either to the lowest or highest point
- ▶ **Manual or automatic tolerance values**
Set your own tolerance value or let the system do it for you
- ▶ **Infinite number of points and surface area with InfiniSplice™ and ALIGNMENT CENTER software**
Link one or more measurements. This powerful feature allows you to manage big or very uneven surfaces as well as different laser setups

The stand alone package LEVALIGN Ultra case includes all necessary components for geometrical alignment such as the LEVALIGN laser, receiver and necessary mounting accessories.



Levelling and surface flatness measurement

For advanced industrial applications

- ▶ Wind turbines
- ▶ Machine foundations
- ▶ Bed plates and tables
- ▶ Circular and rectangular flanges
- ▶ Machine half casing
- ▶ Crane slewing rings



Precision alignment in three steps

Quick and straightforward



Enter Dimensions

Create the grid to be measured using the Set-up wizard. Customized point properties: position, vertical offset and name



Measure

Just press a key to take a measurement. Several measurements can be taken at a point and consistent ones averaged using the measurement table



Display results

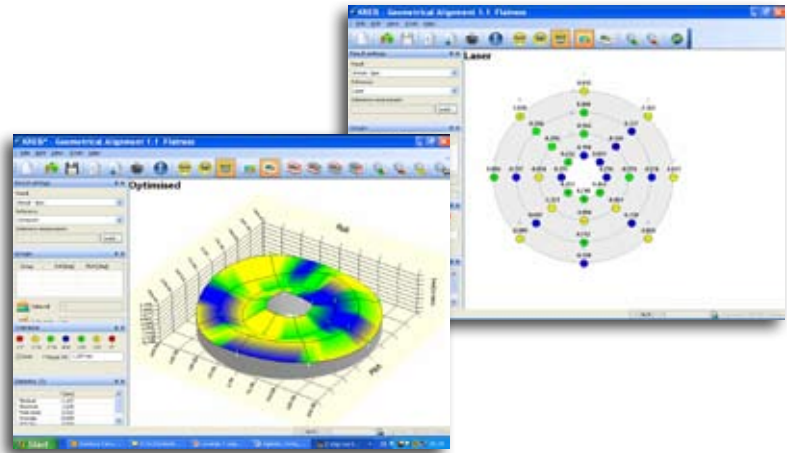
Get and analyze the results. Reference the measurement to the laser plane or to an optimized plane.



More flatness



One software for all PRÜFTECHNIK alignment products and applications
ALIGNMENT CENTER is a Windows™ based software platform for all shaft and geometrical alignment applications. It is compatible with all previous and current PT products.



Take advantage of exclusive features

- ▶ Job preparation beforehand
- ▶ Reference line comparison (similar or counterpart)
- ▶ InfiniSplice® for infinite number of points
- ▶ Measurement of parallelism and perpendicularity using group feature
- ▶ Surface levelling with the laser reference
- ▶ Customer defined or automatically evaluated tolerances
- ▶ Professional colour reports in various formats
- ▶ Picture import
- ▶ Company logo

LEVALIGN laser emitter technical data

Laser	GaAlAs semiconductor laser
Wavelength	670 nm (typical)
Beam diameter	approx. 5 mm
Beam divergence	< 0.2 mrad
Beam power	< 1 mW
Accuracy	< 0.02 mm/m
Measurement range	20 m radius; range has no limit when using InfiniSplice™ from the ALIGNMENT CENTER Flatness application
Laser safety class	Class 2; FDA 21 CFR 1000 and 1040
Safety precautions	Do not look into laser beam
Power supply	9V battery IEC 6LR61 (alkaline or lithium)
Operating time	50 hours continuous depending upon battery type
Temperature range	-5°C to + 50°C (23°F – 122°F)
Weight	approx. 2.8 kg

Further modular ROTALIGN® Ultra applications

Shaft alignment



The ultimate shaft alignment system for any type of machine and coupling

Straightness measurement



Measurement of vertical and horizontal straightness

Bore alignment



Bore alignment in turbines, gearboxes, diesel engines, compressors and pumps

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