

ROTALIGN® Ultra Flatness

Measuring surface flatness and levelling with precision and convenience



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Advantages at a glance

Evaluate the flatness of your surface profile in 3D

InfiniSplice™ measurement for infinite number of points and surface area

Select any number of fixed/reference points

Present results values as positive, negative or both positive and negative

Cost effective upgrade for existing ROTALIGN® Ultra customers



A versatile system for maintenance jobs

ROTALIGN® Ultra flatness is a high precision system using the LEVALIGN® rotating laser for measuring surface flatness and leveling.

The 3-D graphic display shows the real surface profile. The evaluation of the surface flatness is made easy by using different colors according to the specified tolerances and the selected reference points.

The system is most suitable for many applications within a variety of industries like petrochemical processing, paper mills, shipping, glass, marine engine builders, mobile crane manufacturers, and power generation.

As an add-on to the ROTALIGN® Ultra platform, it builds an important part for the complete system for shaft alignment and geometrical applications. This makes the system very attractive for OEMs and companies who offer full maintenance services to improve machine running time and productivity.

For advanced industrial applications:

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

3D view on the ROTALIGN® Ultra computer allowing better comprehension and evaluation of results

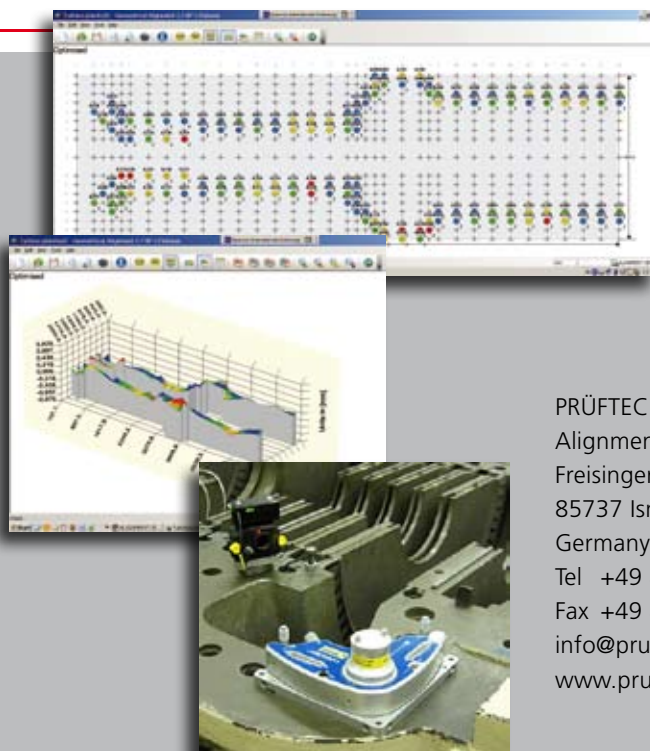
The powerful PC software

Used in conjunction with ALIGNMENT CENTER, the powerful Windows™ based PRÜFTECHNIK Alignment common software platform, makes it possible to measure perpendicularity and parallelism of two or more planes.

The facility to customize data reports into specific user format including company logo and photo makes the software package a valuable tool for documentation.

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



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