

ROTALIGN® Ultra Straightness

Measure vertical & horizontal straightness
with precision and convenience



Number 1 in precision laser alignment

db PRÜFTECHNIK
Alignment Systems

For OEMs, maintenance and service

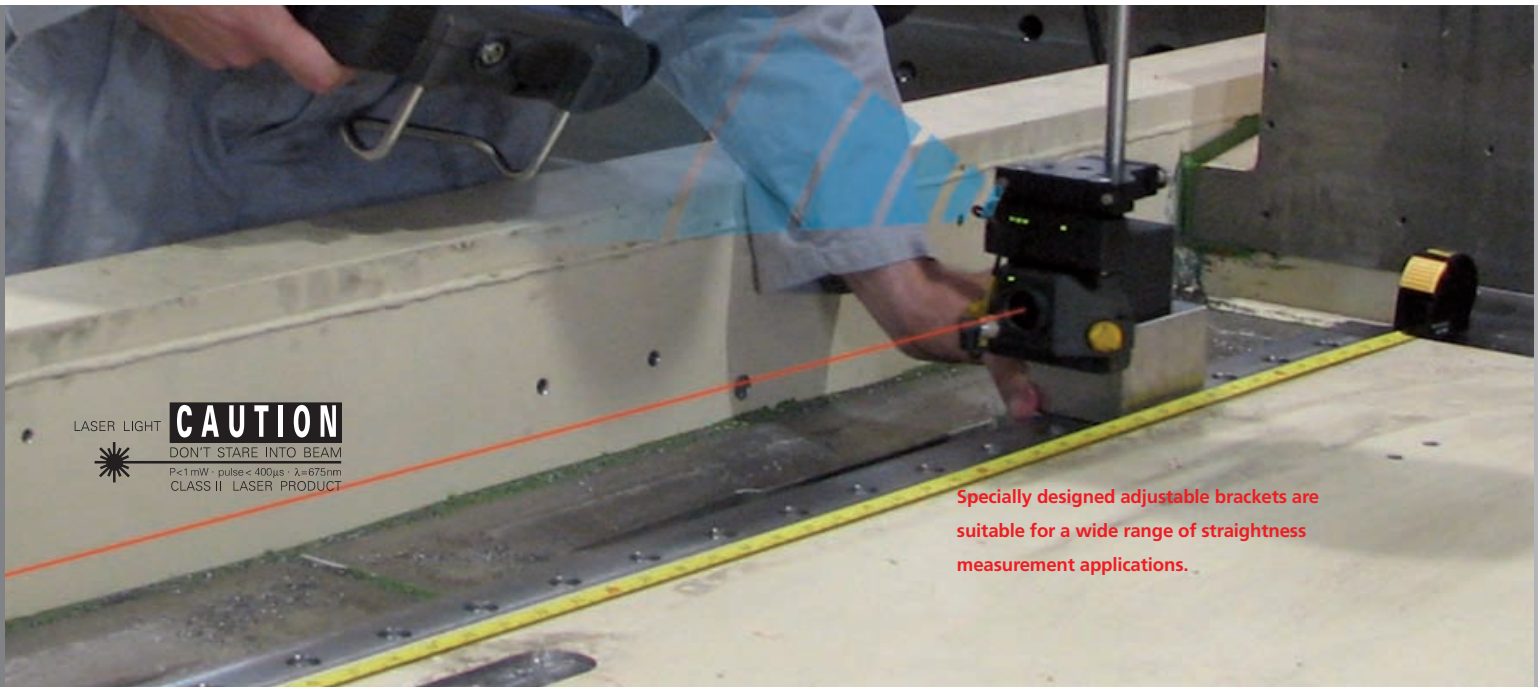
This innovative application is a development in response to industry's demand for solutions to complex applications. What is straight in one axis might be curved in another dimension.

The ROTALIGN® Ultra Straightness 2D measurement application is available as an add-on package to other ROTALIGN® Ultra applications. It is a versatile new geometry package, taking advantage of all ROTALIGN® Ultra system hardware capabilities like Bluetooth® wireless transmission and color screen.

ROTALIGN® Ultra Straightness 2D measures in two axes, gathering each points horizontal and vertical deviation from the laser beam. Depending on customer needs, it is possible to measure vertical and horizontal straightness along a line – no matter its slope – or to level the line itself. Levelling needs the LEVALIGN® laser, included in the long range package. LEVALIGN® has several additional capabilities: it allows measuring plumb lines and the measurement range grows from 33 to 65 ft.



The system utilizes the proven ROTALIGN® Ultra Shaft components, usable for shaft alignment, bore alignment and flatness applications.



LASER LIGHT **CAUTION**
 DON'T STARE INTO BEAM
 P<1mW · pulse < 400µs · λ=675nm
 CLASS II LASER PRODUCT

Specially designed adjustable brackets are suitable for a wide range of straightness measurement applications.

Measure vertical & horizontal straightness and levelness

For demanding industrial applications

- ▶ Straightness of long machine beds
- ▶ Runout on moving slides
- ▶ Bearings and shaft supports: positioning over long runs
- ▶ Deflection and bending in long structures
- ▶ Long rail and track section alignment
- ▶ Deflection in rams, actuators and extrusion presses
- ▶ Geometry of paper machines

Advantages at a glance

- ▶ Horizontal and vertical straightness measurement simultaneously
- ▶ Manual and automatic tolerance values
- ▶ Infinite number of points in conjunction with PC software
- ▶ Surface location to be welded or ground
- ▶ Powerful Windows™ based software
- ▶ Long range option available – up to 65 ft



Precision measuring in 3 steps

Quick and straightforward



Enter dimensions



Measure

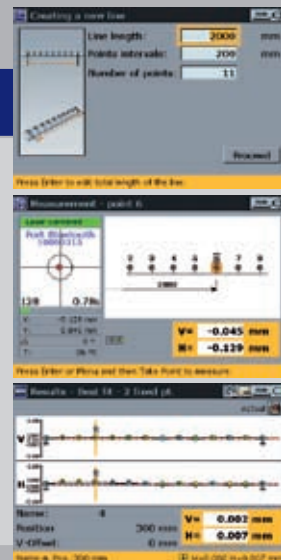


Display results

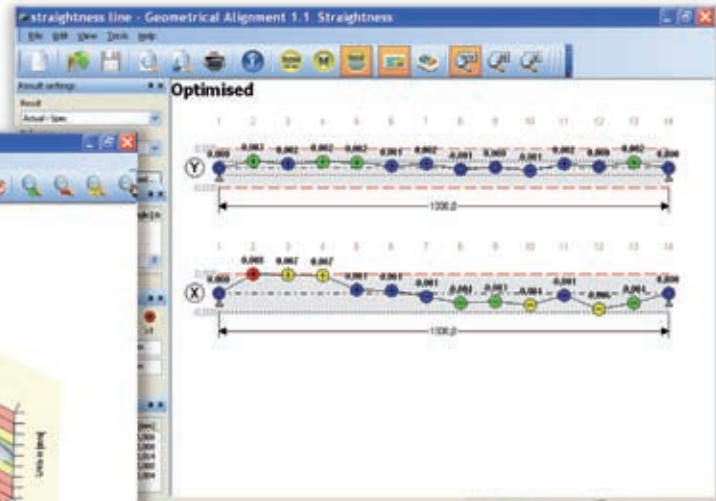
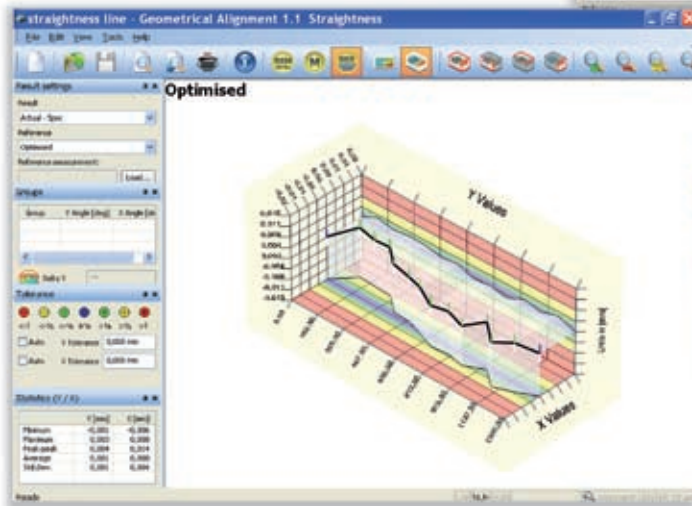
Create the line to be measured with the new Setup Wizard. Customized point properties: position, vertical offset and name

Just press a key to take a measurement. It is possible to take multiple measurements per point and average the ones you want by using the measurement table

Get and analyze the results. Reference the measurement to the laser plane or to an optimized plane or fixed points. Manage the data according to the measurement purpose



More straightness



ALIGNMENT CENTER and REPORTER

Choose the software that meets your needs, from the freeware REPORTER to the complete ALIGNMENT CENTER for more challenging tasks with:

- ▶ Infinisplince® for an infinite number of points
- ▶ Reference line comparison
- ▶ Unlimited possibility of point references
- ▶ Color reports with company logo

Advanced measurement capabilities

- ▶ **Bluetooth®** – Wireless data transmission ensures flexible and convenient operation
- ▶ **Live Move** – Bearings and shaft supports positioning by monitoring the points to move
- ▶ **Tolerances** – Tolerances values can be manually set or automatically calculated
- ▶ **Averaging** – Define measurement duration, in order to manage vibration conditions
- ▶ **Measurement table** – Average multiple measurements

Further modular ROTALIGN® Ultra applications

Shaft alignment



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

Flatness measurement



Measurement of surface flatness and levelness to improve productivity

Bore alignment



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

PRÜFTECHNIK

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