

ROTALIGN® Ultra

Highest standards in machinery alignment

Number 1 in laser precision alignment



ROTALIGN® Ultra Shaft

ROTALIGN® Ultra is a high-end modular alignment system with a new look and feel. Its stellar performance meets the demands of both professionals and enthusiasts when carrying out alignment jobs.



ROTALIGN® Ultra possesses a new 5.7-inch colour TFT sunlight readable full VGA screen and a faster processor. This powerful combination has led to the development of a new user interface with enhanced graphics. The system integrates a standard communications protocol for wireless connection, increasing flexibility. The shaft and geometric applications running on it are user-friendly and intuitive.

The 3 keys to precision alignment

Toggle quickly from dimensions to results and vice versa for an instant evaluation of the alignment condition.



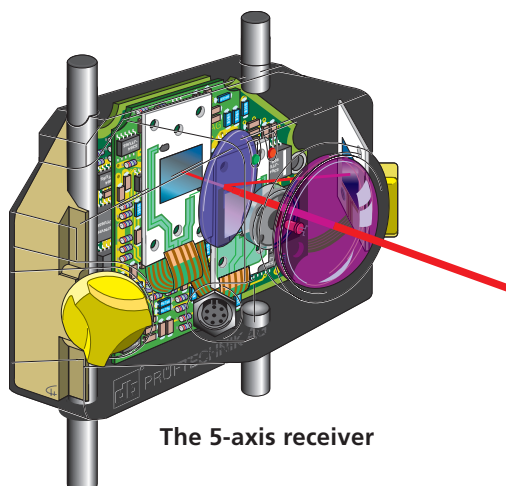
Enter Dimensions



Rotate shafts



Display alignment condition



The 5-axis receiver

The dual position detectors and the built-in electronic inclinometer allow simultaneous monitoring of the vertical and horizontal machine corrections during Live Move

High-performance professional system

High resolution colour display

ROTALIGN® Ultra features a stunning full VGA TFT screen that shows machine and measurement graphics with clarity and high definition. The displayed measurement data which is acquired through wireless transmission technology or via cable can be read easily in low light environments as well as under sunlight conditions. The large display and the very clear graphics provide a superb depiction of the alignment condition.

Measurement with continuous sweep and pass mode

Continuous sweep mode – Data is automatically collected as the shaft is rotated from any position in the machine operational direction. Shaft rotation restrictions are overcome as only a turn of 60° is required for results. This mode is quick and captures hundreds of measurement points, hence more accurate than the 3-clock positions measurement method.



Pass mode – The ideal mode for uncoupled shafts in machines with high rotational inertia. The laser emitter is rotated past the receiver in at least 3 different positions. The internal inclinometer notes the rotation angle each time the beam passes the receiver.



Highlights

Live monitoring of horizontal and vertical corrections simultaneously

Single beam technology, UniBeam®, for quick laser adjustment

Measurement with automatic continuous sweep mode

Protected against dust, water, and grease in compliance with classification IP 65 and IP 67

Full VGA TFT sunlight readable colour screen and backlit alphanumeric keyboard

Wireless connectivity and USB interface for PC and printer

Heavy-duty Li-ion rechargeable battery

Alignment of coupled and uncoupled shafts

Alignment of horizontal, vertical and flanged-mounted machines

Alignment of cardan and spacer shafts

Machine train alignment for up to 14 machines

Soft foot measurement, diagnosis and correction

Different measurement modes to suit any application

InfiniRange® extends detector measurement range to handle gross misalignment

TolChek® – automatic evaluation of alignment condition

User defined tolerances

Fixed feet selection resolves base-bound and bolt-bound problems

Unlimited file saving capacity and data protection through auto save and resume capability

Rigid pre-assembled universal brackets and additional support posts included in a pouch

PC software to support and completely document the alignment job

ROTALIGN® Ultra incorporates a wireless communications technology facilitating transmission of data between peripherals.

The computer's heavy-duty rechargeable Li-ion battery is a reliable power supply source in all field situations

Live Move

The unique measurement principle offered by ROTALIGN® Ultra allows the machine corrections to be monitored simultaneously in both horizontal and vertical planes with the laser and receiver mounted at any angular position. The machine graphics show the direction and the correction value of feet to be moved. A smiley face appears as soon as the alignment condition falls within the set coupling tolerances.

Analysis tools

ROTALIGN® Ultra incorporates analysis tools used to determine the quality of measurement and machine condition. Interactive and customized tolerances are necessary in evaluating the alignment condition. Soft foot analysis is simplified through a diagnostic tool. The quality of measurement can be evaluated using standard deviation and the measurement table which confirms repeatability of results. The in-built thermal length calculator is used to determine thermal growth parameters.



... Shafts and much more

Accurate measurement of surface flatness

LEVALIGN® Ultra, a geometric alignment system, measures quickly and precisely the flatness or levelness of any foundation, consequently improving machine running time and productivity. Applying a rotating laser system, flatness and straightness measurements are carried out with convenience.



Precise, fast and intuitive bore alignment

BORALIGN® Ultra, a precision laser alignment system, is used for bore alignment in turbines, gearboxes, diesel engines, compressors and pumps.

CENTRALIGN® Ultra is a new generation laser alignment system developed for the precise alignment of steam and gas turbines.



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