



Technical data

sensALIGN™ sensor



CPU and memory	ARM Cortex™ M3 and 2GB Flash memory
Environmental protection	IP 65 (dustproof and water jet resistant), shockproof
Relative humidity	10% to 90%
Ambient light protection	Optical and active electronic digital compensation
Operating temperature	-10°C to 50°C
Measurement range	Unlimited, dynamically extendible (U.S. Pat. 6,040,903)
Measurement resolution	1 µm
Measurement error	< 1.0%
Vibration measurement	mm/s, RMS, 10 Hz to 1 kHz, 0 mm/s – 5000/f • mm/s² (f in Hertz [1/s])
Inclinometer resolution	0.1°
Inclinometer error	± 0.25% full scale
External interface	Integrated Bluetooth® Class 1 wireless communication, RS232, RS485, I-Data
LED indicators	4 x LED for laser adjustment, 2 LEDs for Bluetooth® communication and battery status
Operating time	12 hours continuous use
Power supply	Lithium Polymer rechargeable battery 3.7 V / 1.6 Ah / 6 Wh
Dimensions	Approx. 103 x 84 x 60 mm
Weight	Approx. 310 g

sensALIGN™ laser



Type	InGaAlP semiconductor laser
Beam divergence	0.3 mrad
Environmental protection	IP 65 (dustproof and water jet resistant), shockproof
Relative humidity	10% to 90%
Beam power	< 1mW
Wavelength (typical)	635 nm (red, highly visible)
Safety class and precautions	Class 2, IEC 60825-1:2007 Do not stare into laser beam
Operating temperature	-10°C to 50°C
Inclinometer resolution	0.1°
Inclinometer error	± 0.25% full scale
LED indicator	2 LEDs for battery status and laser transmission
Operating time	70 hours continuous use
Power supply	Lithium Polymer rechargeable battery 3.7 V / 1.6 Ah / 6 Wh
Dimensions	Approx. 103 x 84 x 60 mm
Weight	Approx. 330 g

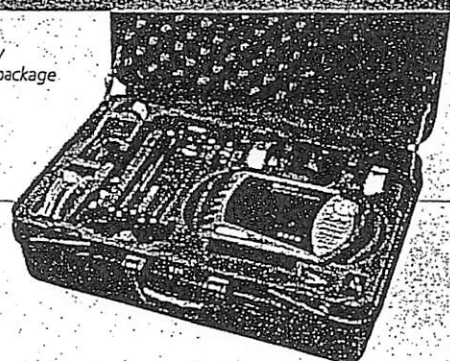
ROTAALIGN® Ultra IS technical data



CPU	Intel XScale Processor running at 520 MHz
Memory	64 MB RAM, 64 MB Internal Flash, : 1024 MB Compact Flash Memory
Display	Type: Transmissive (sunlight-readable) backlit TFT color graphic display Resolution: Full VGA, 640 x 480 pixels; Dimensions: 145 mm/ 5.7 inch diagonal Keyboard elements: navigation cursor cross with up, clear and menu keys; Alphanumeric keyboard with dimensions, measure and results hard keys
LED indicators	4 LEDs for laser status and alignment condition 2 LEDs for wireless communication and battery status
Power supply	Operating time: 25 hours (using Li-Ion rechargeable battery), 12 hours (using disposable batteries) typical use (based upon an operating cycle of 25% measurement, 25% computation and 50% 'sleep' mode) Lithium-Ion rechargeable battery: 7.2 V / 6.0 Ah Disposable batteries: 6 x 1.5 V IEC LR14 ("C") [optional]
External interface	2 x USB host for printer, keyboard or PC communication 1 x USB slave for printer, keyboard or PC communication RS232 (serial) for receiver I-Data socket for receiver. Ethernet Integrated Bluetooth® wireless communication, Class 1, transmitting power 100mW AC adapter/charger socket
Environmental protection	IP 65 (dustproof and water spray resistant), shockproof Relative humidity: 10% to 90%
Temperature range	Operation: 0°C to 45°C [32°F to 113°F] Storage: -20°C to 60°C [-4°F to 140°F]
Dimensions	Approx. 243 x 172 x 61 mm [9 9/16" x 6 3/4" x 2 3/8"]
Weight	1 kg (without battery)
CE conformity	EC guidelines for electric devices (2004/108 EEC) are fulfilled

ROTAALIGN® Ultra IS case

Contents may vary
depending upon package
ordered



Three packages: Lite – Advanced – Expert

Lite

- High resolution color backlit TFT screen – 145 mm/ 5.7 inch diagonal and backlit alphanumeric keyboard
- USB interface for PC and printer
- Heavy-duty Li-Ion rechargeable battery
- Rigid pre-assembled universal brackets and additional support posts included in a pouch
- UniBeam® – patented single laser-sensor technology for quick laser adjustment
- Integrated electronic inclinometer
- Alignment of horizontal, vertical and flanged-mounted machines
- Alignment of coupled / non-coupled and rotatable / non-rotatable machines
- Alignment of cardan and spacer shafts (cardan requires a special bracket)
- Machine train alignment up to 6 machines
- Soft foot measurement and correction
- User-defined tolerances
- TolChek® – automatic evaluation of alignment condition with 'Smiley' and LEDs
- Variety of measurement modes: SWEEP, Static, Multipoint and Dial gauge inputs
- InfiniRange® extends detector measurement range to handle gross misalignment
- Live monitoring of horizontal and vertical corrections – Live Move
- Move simulator
- Static feet selection to resolve base-bound and bolt-bound problems
- Realistic machine graphics which can be designated
- Save thousands of measurement files in the device
- Save reports as PDFs directly to memory stick
- Data protection - auto save and resume capability
- In compliance with IP 65 classifications
- PC display for presentations/training in customer premises
- Platform prepared for other alignment applications like Straightness, Flatness and Bore concentricity measurement

ROTALIGN® Ultra iS is based on a three-level system. The basic Lite version is packed with powerful features that include the Move Simulator and user-defined tolerances. This version is easily upgradable to the Advanced version to include the intelligent features and the powerful analysis tools. The system can be extended to the Expert level by adding 'Live Trend' and/or the multiple coupling application.

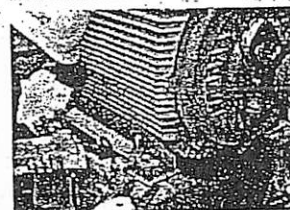
Advanced

- Intelligence features
- Vibration acceptance check without extra accessories
- Live simultaneous Move in both horizontal and vertical directions
- Soft foot wizard
- Machine train up to 14 machines
- Measurement Pass mode
- Standard Deviation
- Editable ellipse
- Thermal growth calculator
- Under/over-constrained feet
- File/Machine templates
- Vector tolerances
- History table
- RFID Machine Identification

Expert

- 'Live Trend' with magnetic or permanent fixation brackets
- Multiple coupling measurement

Optional: shims (left) and a lifter unit to lift machine to insert or remove shims.



Optional: Different mounting brackets for different applications.

Optional: Move assist

