

TECHNICAL DATA

Prüftechnik RotAlign Touch Laser Shaft Alignment Tool



Key features

- Single-laser technology enables unrivalled precision for shaft alignment
- Real-time visual guidance to walk you through corrections
- Voice-recognition for hands-free operation
- Cloud connectivity for worldwide data access and transfer
- Extremely durable. Waterproof according to IP65, shock-proof, oil, dirt, and scratch-resistant

Product overview: Prüftechnik RotAlign Touch Laser Shaft Alignment Tool

ROTALIGN touch is the most powerful laser alignment tool in the market, designed to supercharge the efficiency and lifespan of your machinery.

Don't let misalignment cut your equipment's life short, rack up costly repairs, or trigger expensive downtime. ROTALIGN combines high-precision shaft alignment on-site with cloud connectivity so you can increase efficiency and effectiveness. Whether it is a Cardan shaft, a vertical pump, or a turbomachine train, ROTALIGN touch will not let you down.

Adaptive Alignment Features for Any Scenario

With sensALIGN 7 laser/sensor technology and Active Situational Intelligence (ASI), ROTALIGN brings you the confidence to tackle the toughest alignment challenges with ease.

ASI delivers immediate, detailed feedback during a continuous sweep, guiding you on what you need to do to improve the accuracy of a measurement.

Single-laser technology sensALIGN 7 featuring intelliSWEEP, intelliPOINT, and intelliPASS helps you accurately measure and document the initial alignment (no matter the misalignment size) and then track the corrections in both vertical and horizontal directions from any angular position, in real-time.

intelliSWEEP detects and filters out low quality data resulting from error influences (such as coupling backlash, environmental vibration or an abrupt change of rotation feed) so that you only get the best measurement results.

Simple and Easy to Use with Step-by-Step navigation

ROTALIGN Touch features an easy-to-follow interface, 3D machine animations, and tablet-like navigation which makes alignment as simple as using your smartphone.

The voice control feature can be used to keep your hands free for alignment, and can even be operated with Bluetooth headsets.

Instantly share alignment data with your team via cloud connectivity

ROTALIGN's Alignment Reliability Center 4.0 software makes it easier for teams to work together on solving alignment problems. Work orders can be sent to a mobile ROTALIGN touch device anywhere in the world via the cloud, and measurement results sent back from the laser alignment tool, enabling better decision-making.

The built-in RFID tag reader in the system tracks alignment condition of individual assets over time, making maintenance smarter and more proactive.

Made for maximum durability

Drop and impact tests demonstrate that ROTALIGN withstands harsh working conditions. Its waterproof and shock-resistant build ensures dependable, long-lasting performance, securing your investment.

Peace of mind with Fluke's Extended Warranty

The Fluke Reliability Extended Warranty Program, available with an additional purchase, gives you extended warranty coverage, calibration services and exclusive discounts, so that you can enjoy better device accuracy and savings.

Specifications: Prüftechnik RotAlign Touch Laser Shaft Alignment

Tool

Specifications ROTALIGN® touch device	
Dimensions	Approx. 273 x 181 x 56 mm (10 3/4" x 7 1/8" x 2 3/16")
Weight	Approx. 1.88 kg (4.1 lbs)
Display	Technology: Projective capacitive multi-touch screen Type: Transmissive (sunlight-readable) backlit TFT color graphic display Optically bonded, protective industrial display, integrated light sensor for automated adjustment of the brightness to the display. Resolution: 800 x 480 Pixel Dimensions: 178 mm (7") diagonal
Camera	5 MP built-in (depending on configuration)
CPU	Processor: 1.0 GHz quad core ARM® Cortex-A9 Memory: 2 GB RAM, 1 GB Intel Flash, 32 GB SD-Card Memory
Power supply	Operating time: 12 hours typical use (based upon an operating cycle of 25% measurement, 25% computation, 50% 'sleep' mode) Baery: Lithium-ion rechargeable baery 3.6 V / 80 Wh AC adapter/ charger: 12 V / 36 W; standard barrel connector (5.5 x 2.1 x 11 mm)
LED indicators	3 LEDs for baery status 1 LED for WiFi communication
Temperature range	Operation: 0°C to 40°C (32°F to 104°F) Charging: 0°C to 40°C (32°F to 104°F) Storage: 10°C to 50°C (14°F to 122°F)
Environmental protection	IP 65 (dustproof and water jets resistant) as defined in regulation DIN EN 60529 (VDE 0470-1), shockproof Relative humidity: 10% to 90
Drop test	1 m (3 1/4 ft)
Carrying case	Standard: HPX® Harz, drop tested (2 m / 6 1/2 ft.) Dimensions: Approx. 551 x 358 x 226 mm (21 11/16" x 14 3/32" x 8 29/32") Weight: Including all standard parts - Approx. 11 kg (24.3 lb)
Exteal interface	USB host for memory stick USB slave for PC communication, charging (5 V DC / 1.5 A) RS-232 (serial) for sensor, RS-485 (serial) for sensor I-Data for sensor Integrated Bluetooth® wireless communication (covers direct line of sight distances of up to 30 m / 100 ft depending on the prevailing environmental conditions) Integrated Wireless LAN IEEE 802.11 b/g/n up to 72.2 Mbps (depending on configuration) Integrated RFID with read and write capabilities (depending on con-figuration)
Specifications sensALIGN® 7 sensor	
Dimensions	Approx. 103 x 84 x 60 mm (4 1/16" x 3 5/16" x 2 3/8")
Weight	Approx. 310 g (10.9 oz)
Measurement range	Unlimited, dynamically extendible
Measurement resolution	1 µm
Measurement error	< 1.0%
Inclinometer resolution	0.1°
Inclinometer error	± 0.25% full scale
Vibration measurement	mm/s, RMS, 10Hz to 1kHz, 0 mm/s – 5000/f mm/s ² (f in Hertz [1/s])

Specifications sensALIGN® 7 sensor

External interface	Integrated Bluetooth® Class 1 wireless communication, RS232, RS485, I-Data
CPU Type	1.0 GHz quad core ARM® Cortex-A9
LED indicators	4 LEDs for laser adjustment 1 LED for Bluetooth® communication 1 LED for battery status
Power supply	Operating time: 12 hours typical use Battery: Lithium Polymer rechargeable battery 3.7 V / 1.6 Ah 6 Wh
Environmental protection	IP 65: (dustproof and water jets resistant) – as defined in regulation DIN EN 60529 (VDE 0470-1), shockproof Relative humidity: 10% to 90%
Ambient light protection	Optical and active electronic digital compensation
Temperature range	Operation: -10°C to 50°C (14°F to 122°F) Charging: 0°C to 40°C (32°F to 104°F) Storage: -20°C to 60°C (-4°F to 140°F)

Specifications sensALIGN® 7 laser

Type	Semiconductor laser
Dimensions	Approx. 103 x 84 x 60 mm (4 1/16" x 3 5/16" x 2 3/8")
Weight	Approx. 330 g [11.6 oz]
Beam power	< 1mW
Beam divergence	0.3 mrad
Wavelength	630 – 680 nm (red, visible)
Laser class	Class 2 according to IEC 60825-1:2014 The laser complies with 21 CFR 1040.10 and 1040.11 except for deviations pursuant to Laser Notice No. 50, dated June 24, 2007. Safety precaution: Do not look into laser beam
Inclinometer resolution	0.1°
Inclinometer error	± 0.25% full scale
Temperature range	Operation: -10°C to 50°C (14°F to 122°F) Charging: 0°C to 40°C (32°F to 104°F) Storage: -20°C to 60°C (-4°F to 140°F)
Environmental protection	IP 65 (dustproof and water jets resistant) – as defined in regulation DIN EN 60529 (VDE 0470-1), shockproof Relative humidity 10% to 90%
Power supply	Operating time: 70 hours continuous use Battery: Lithium Polymer rechargeable battery 3.7 V / 1.6 Ah 6 Wh AC adapter/charger: 5 V / 3 A
LED Indicators	1 LED for laser transmission 1 LED for battery status

Ordering information

Rotalign Touch

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Fluke. *Keeping your world up and running.®*

Fluke Corporation

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