

## 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<br>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.<br>Resolution: 800 x 480 Pixel<br>Dimensions: 178 mm (7") diagonal   |
| Camera                                | 5 MP built-in (depending on configuration)  |
| CPU                                   | Processor: 1.0 GHz quad core ARM® Cortex-A9<br>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)<br>Battery: Lithium-ion rechargeable battery 3.6 V / 80 Wh<br>AC adapter/ charger: 12 V / 36 W; standard barrel connector (5.5 x 2.1 x 11 mm)  |
| LED indicators                        | 3 LEDs for battery status<br>1 LED for WiFi communication   |
| Temperature range                     | Operation: 0°C to 40°C (32°F to 104°F)<br>Charging: 0°C to 40°C (32°F to 104°F)<br>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<br>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.)<br>Dimensions: Approx. 551 x 358 x 226 mm (21 11/16" x 14 3/32" x 8 29/32")<br>Weight: Including all standard parts - Approx. 11 kg (24.3 lb)  |
| External interface                    | USB host for memory stick USB slave for PC communication, charging (5 V DC / 1.5 A)<br>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 configuration) |
| 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/s² (f in Hertz [1/s])   |

### Specifications sensALIGN® 7 sensor

|                          |   |
|--------------------------|---|
| Extel 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<br>1 LED for Bluetooth® communication 1 LED for baery status  |
| Power supply             | Operating time: 12 hours typical use<br>Baery: Lithium Polymer rechargeable baery 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<br>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)<br>Charging: 0°C to 40°C (32°F to 104°F)<br>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.<br>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)<br>Charging: 0°C to 40°C (32°F to 104°F)<br>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<br>Relative humidity 10% to 90%  |
| Power supply             | Operating time: 70 hours continuous use<br>Baery: Lithium Polymer rechargeable baery 3.7 V / 1.6 Ah 6 Wh AC adapter/charger: 5 V / 3 A   |
| LED Indicators           | 1 LED for laser transmission<br>1 LED for baery status   |

## Ordering information

### **Rotalign Touch**

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