FLUKE Reliability

TECHNICAL DATA

# New SHAFTALIGN® Touch

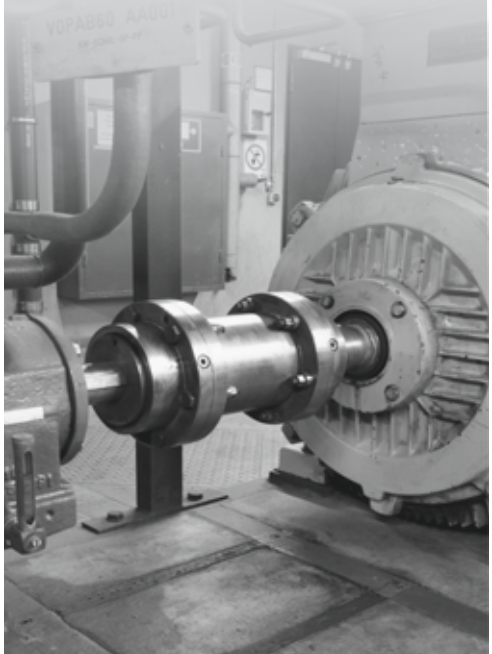
## Setting the benchmark for solving common alignment problems

PRÜFTECHNIK

ADAPTIVE ALIGNMENT
Adaptive Alignment is a combination of software and hardware evolutions, enabling maintenance and reliability teams to address the full variety of horizontal, angular, and vertical alignment challenges.

With Adaptive Alignment solutions, work is completed faster, results are superior, and team capabilities are better utilized compared to other market solutions.

The new ShaftAlign® Touch applies powerful Adaptive Alignment features to exceed the capabilities of conventional tools and deliver greater speed, accuracy, and elimination of human errors.



### Introducing the new SHAFTALIGN® Touch

The new ShaftAlign® Touch laser alignment system provides digital, cloud, and other advancements over the widely used dial indicator and feeler gauge of past decades.

ShaftAlign® Touch masters virtually any alignment task on standard machines driven by rotating shafts. Its laser precision results improve on those of conventional measurement equipment. It also offers simple and quick setup, intuitive handling through a computer-based and guided user interface, and an insightful visualization of results on the bright-colored 3D rugged tablet-like display.

Due to its 3D rugged sensALIGN® 3 sensor and reflector, this new laser alignment system can handle almost any standard machine alignment challenge. With its problem-solving Adaptive Alignment features, the ShaftAlign® Touch offers an unbeatable price-performance ratio.

### Key benefits at a glance

- **High performance and precise results**
  The new ShaftAlign® Touch leverages single-laser technology to provide high-precision, high-performance alignment measurements.
- **Quick setup and intuitive user interface**
  Its quickly mounted setup and tablet-like, intuitive guided user interface make the ShaftAlign® Touch more user-friendly than any of the conventional measurement methods.
- **Share data via the cloud**
  You can leverage its integrated WiFi cloud solution to easily transfer measurement data from the ShaftAlign® Touch handheld device to the ARC 4.0 software.

ShaftAlign® Touch is user-friendly and easy to transport.

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## Why precision alignment is so crucial:

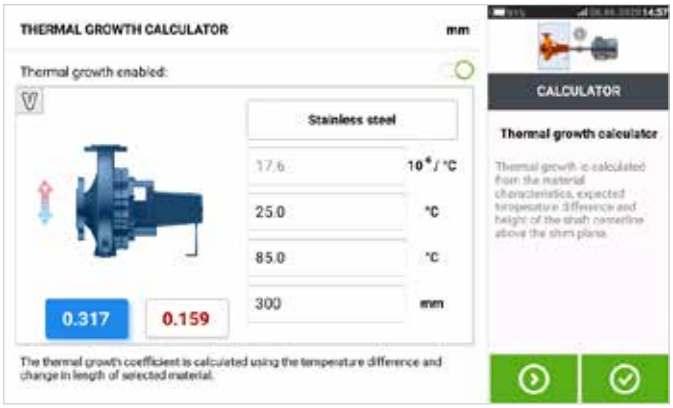
- Decreased power consumption
- Longer machine lifecycle
- Less vibration leading to less wear
- Lower temperatures on bearing, coupling and lubrication
- Reduced costs for spare parts storing

## How Active Situational Intelligence (ASI) supports you

Active Situational Intelligence (ASI) is the core of Adaptive Alignment. It offers a range of problem-solving features based on intelligent software. ASI is a groundbreaking problem-solving technology that helps the user avoid mistakes while working quickly to measure and align machines.

## Underestimated: Thermal growth

ShaftAlign® Touch features an integrated Thermal Growth Calculator. Industrial materials such as steel and alloy typically expand when heated up. Only a few degrees are enough to impact the machine's behavior when running compared to the usual cold condition when alignment measurements are taken. The ShaftAlign® Touch Thermal Growth Calculator automatically factors the expected deviation into the measurement result.




## Adaptive Alignment: Adapt to the situation

**Measure over different types of couplings**
ShaftAlign® Touch provides a wide range of coupling types, making it easier for the user to receive an optimal measuring result without deviating from the specific tolerances. Choose the right coupling adapted to your onsite situation:

- short flex coupling
- spacer shaft
- single plane coupling
- uncoupled shafts
- further various default coupling formats

## Adaptive Alignment: Adapt to the asset

**The best results for use on standard machines**
How ShaftAlign® Touch improves on the performance of traditional alignment tools:

- Faster setup than any dial indicator
- Higher precision than any feeler gauge
- No sagging, even over large distances, due to having laser technology
- Quicker and easier to read results than through a manual matrix calculation
- Ability to operate the device independent from what may be occurring on the coupling/shaft surface

## Adaptive Alignment: Adapt to the team

**Intuitive user interface to benefits all types of users**
Prüftechnik, the inventor and pioneer of laser shaft alignment, offers years of experience in designing systems to serve technicians in the field. The new ShaftAlign® Touch offers a colored 3D user interface that is the key to executing alignment tasks quickly and easily without sacrificing accuracy.

Want to learn more?
Contact us at PRUFTECHNIK.com

**Cloud-based transfer enables data sharing and trending**
All Prüftechnik alignment systems now offer WiFi connectivity to remotely transfer data from and to the ARC 4.0 PC software, where one can store, share, evaluate, and trend all alignment data. Cloud-transfer capabilities enable entire maintenance teams to stay informed and alerted to potential issues that might interrupt production.

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# SHAFTALIGN® Touch rugged device

| General specifications | | |
|---|---|---|
| CPU | Processor: | Exynos 7 Octa, 1.6GHz Octa-Core (Cortex®-A53) |
| | Memory: | 3 GB RAM, 16 GB Flash memory |
| Display | Technology: | TFT<br>Integrated light sensor for automated adjustment of the brightness to the display according to the lighting conditions hence extending battery life |
| | Resolution: | 1280 x 800 Pixel |
| | Size: | 203.1 mm (8") |
| Connectivity | Wi-Fi: | 802.11 a/b/g/n/ac (2.4 GHz +5 GHz) |
| | Wireless: | 4.2 |
| | RFID: | NFC |
| Camera | Main Camera - Resolution: | 8.0 MP, Auto Focus |
| | Front Camera - Resolution: | 5.0 MP |
| Environmental protection | IP 68: | dustproof, submersible 1.5 m |
| Temperature range | Operation: | -20°C to 50°C (-4°F to 122°F) |
| Battery | Type: | Li-Ion rechargeable battery 3.8 V / 4450 mAh / 16.91 Wh |
| | Operating time: | Up to 11 hours |
| Dimensions (without hand straps) | | Approx. 256 x 149 x 35 mm<br>(10 5/64" x 5 55/64" x 1 3/8") |
| Weight (without hand straps) | | Approx. 710 g (1.6 lbs) |

# Reflector (prism)

| General specifications | | |
|---|---|---|
| Type | | 90° roof prism |
| Accuracy (avg) | | > 99% |
| Environmental protection | | IP 67 (submersible, dustproof) |
| Temperature range | Operation: | -20°C to 60°C (-4°F to 140°F) |
| | Storage: | -20°C to 80°C (-4°F to 176°F) |
| Dimensions | | Approx. 100 x 41 x 35 mm (4" x 1 5/8" x 1 3/8") |
| Weight | | Approx. 65 g (2.3 oz) |

# sensALIGN® 3 sensor

| General specifications | | |
|---|---|---|
| Measurement principle | | Coaxial, reflected laser beam |
| LED indicators | | 1 LED for laser beam status and battery status<br>1 LED for Wireless communication |
| Power supply | Battery: | Lithium-Ion rechargeable battery 3.7 V / 5 Wh |
| | Operating time: | 10 hours (continuous use) |
| | Charging time: | Using charger – 2.5 h for up to 90%<br>3.5 h for up to 100%<br>Using USB port – 3 h for up to 90%<br>4 h for up to 100% |
| Environmental protection | IP 65: | Dustproof and water jets resistant, shockproof |
| | Relative humidity: | 10% to 90% (non-condensing) |
| Ambient light protection | | Yes |
| 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) |
| Dimensions | | Approx. 105 x 69 x 55 mm<br>(4 9/64" x 2 23/32" x 2 11/64") |
| Weight | | Approx. 210 g (7.4 oz) with dust cap |
| Detector | Measurement range: | Unlimited, dynamically extendible |
| | Resolution: | 1 µm (0.04 mil) and angular 10 µRad |
| | Accuracy (avg): | > 98% |
| Inclinometer | Measurement range: | 0° to 360° |
| | Resolution: | 0.1° |
| | Inclinometer error (Ta = 22°C): | 0.3% full scale |
| Laser | Type: | Semiconductor laser diode |
| | Wavelength: | 630 - 680 nm (red, visible) |
| | Safety class: | Class 2 according to IEC 60825-1:2014<br>The laser complies with 21 CFR 1040.10 and 1040.11 except for deviations pursuant to Laser Notice No. 50, dated June 24, 2007. |
| | Beam power: | < 1 mW |
| | Beam divergence: | < 0.3 mrad |
| | Safety precautions: | Do not look into laser beam |
| External interface | | Wireless communication |
| Transmission distance | | Up to 30 m (98 ft) direct line of sight |
| CE conformity | | Refer to the CE compliance certificate in www.pruftechnik.com |
| Country radio certifications | | Approvals granted for specific regions (refer to the provided 'Safety and general information' document) |

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