

# OPTALIGN® smart

Precision laser alignment a snap. Optalign it!

Number 1 in precision laser alignment

PRÜFTECHNIK

Dimensions



Coupling RPM value

OPTALIGN® smart



PRÜFTECHNIK  
Alignment Systems

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## Standard features

Automatic continuous measurement as shaft is rotated – start and stop rotation at any position

TolChek® – automatic evaluation of alignment condition

Soft foot check – measure, correct and save results

Alignment of coupled and uncoupled shafts

Alignment of nonrotatable shafts

High resolution backlit TFT screen

UniBeam® for quick adjustment of the single laser beam

QuickCheck – a quick alignment check using a single dimension to display both horizontal and vertical coupling values

Static measurement mode – requires any 3 of the 8 available 45° measurement positions

Live monitoring of horizontal or vertical machine corrections

Graphical alignment results

Save up to 50 measurement files

Data protection - auto save and resume capability

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

PC freeware ALIGNMENT REPORTER is used to backup measurement files and print reports



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product design 2007

## Powerful options

Ability to enter alignment targets and thermal growth values

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

InfiniRange® extends detector measurement range to handle gross misalignment

Bluetooth® RF module for transducer

3-Machine train alignment

Alignment of vertical and flange-mounted machines

Multipoint mode – measurement at any 3 or more positions over 70° rotation or wider

Customer-defined tolerances

Alignment of spacer and cardan shafts

Save up to 500 measurement files

Verify measurement repeatability using the results table

Input of dial indicator readings

The PC software ALIGNMENT CENTER supports 2-way communication between a PC and the system, and is used for editing, archiving and printing professional color reports

Alignment results in 3 'smart' steps:  
1. Enter dimensions,  
2. Rotate shafts,  
3. Display alignment condition.



PRÜFTECHNIK Alignment Systems is the market leader in precision laser alignment. Our 'Made in Germany' hi-tech instruments are used in four-fifths of the top industrial organizations around the world. OPTALIGN® smart is our latest laser precision shaft alignment system.



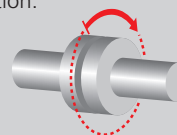
The OPTALIGN® smart **Bluetooth® interface** allows wireless data transmission from the transducer to the computer via the optional Bluetooth® RF module.

## Automatic evaluation of alignment

**TolChek®** – Dynamic tolerances evaluate the alignment condition based upon the machine RPM. The LEDs and Smiley provide visual indication of the alignment condition and the update status during machine correction.

## Continuous sweep mode

**Sweep mode** – As shafts are rotated, hundreds of readings are taken over the rotated area and up to 128 are selected to calculate the alignment results, hence more accurate than 3 position measurement methods. Results are calculated by curve fitting to an ellipse for increased accuracy. OPTALIGN® smart determines the alignment condition with a shaft rotation of as little as 60° at any sensor separation.



**PRÜFTECHNIK Alignment Systems GmbH**  
Freisinger Strasse 34  
85737 Ismaning, Germany  
Tel +49.89.99616-0  
Fax +49.89.99616-100  
info@pruftechnik.com  
www.pruftechnik.com

**LUDECA Inc.**  
1425 N.W. 88th Avenue  
Doral, FL 33172  
Tel (305) 591-8935  
Fax (305) 591-1537  
info@ludeca.com  
www.ludeca.com

