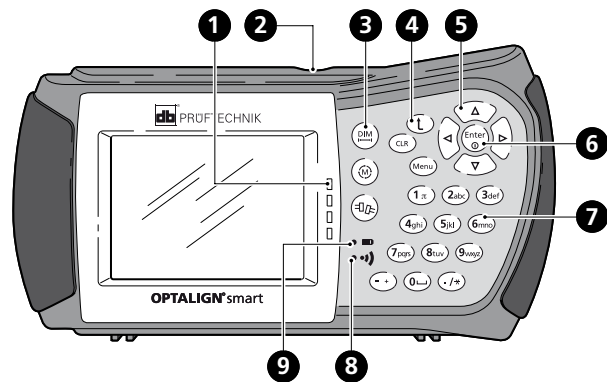



Know your OPTALIGN® smart

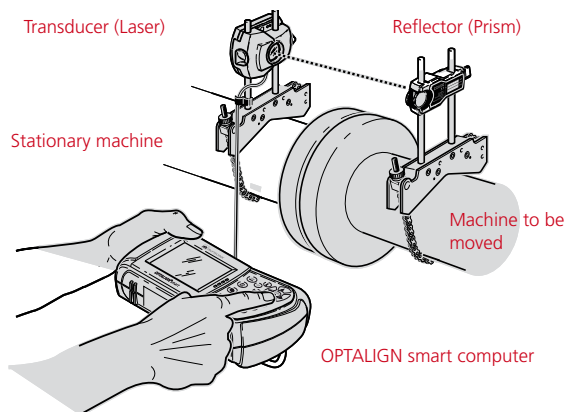
The main operating keys are the oval-shaped data entry keys, the round functions keys, the 4-way navigation keys, an On/Off/Enter key, an up key, a clear key and a menu key.



- | | |
|----------------------------|---------------------------|
| 1 Alignment condition LEDs | 5 Navigation keys |
| 2 USB port | 6 On/Off/Enter key |
| 3 Transducer socket | 7 Data entry keys |
| 4 Charger socket | 8 Bluetooth indicator LED |
| 5 Function keys | 9 Battery status LED |
| 6 Up/Clear/Menu keys | |


Mount system and switch on

Switch on the instrument by pressing  and hold down for a few seconds. The 4 alignment condition LEDs and the Bluetooth indicator LED light up. Shortly afterwards, the splash screen appears, followed by the machine dimensions screen.



Alignment options

Context menu

The context menu can be accessed from any screen by pressing . The menu items displayed are relevant to the screen selected. Use the navigation keys to highlight the required menu items. The context menu item 'Configuration' is used for configuring device and regional settings, and licencing applications and features.



- 1 The scanning process detects the neighbourhood for Bluetooth devices

If measurement is carried out using the optional Bluetooth® RF module, the measurement screen context menu item 'Sensor selection' is used to select the communication method.

Contact

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OPTALIGN smart

Pocket guide

Number 1 in laser precision alignment



db PRÜFTECHNIK
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1. Enter dimensions



Use the data entry keys to directly enter all missing dimensions. The editing box appears as soon as a data entry key is pressed. Confirm entry by pressing either or . The rectangular highlight box moves to the next dimension.



Dimensions to be entered include:

- ▶ Transducer-to-reflector
- ▶ Transducer-to-coupling center
- ▶ Coupling diameter (default is 100 mm)
- ▶ RPM (default is 1500)
- ▶ Transducer-to-front foot (right machine)
- ▶ Front foot-to-back foot (right machine)

The dimensions screen can always be accessed by pressing .

2. Measure



Press to proceed with measurement. Center the laser beam using the reflector thumbwheel and the yellow knob. The default measure mode, continuous sweep, is automatically initiated by rotating the shafts when the laser beam is centered. Minimum rotation of at least 60° is required.

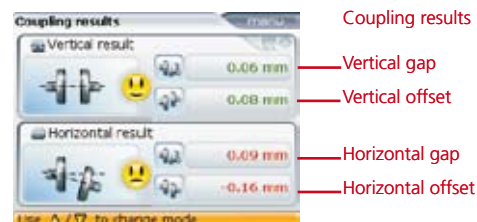


Press to finish measurement.

3. Results



Press to view alignment results.



Coupling results

Vertical gap

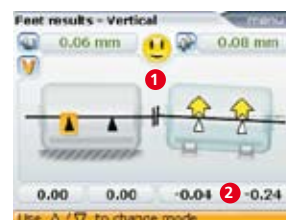
Vertical offset

Horizontal gap

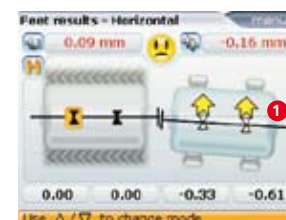
Horizontal offset

Coupling results are given in the form of gap and offset. Gap is positive when open at top or side away from viewer. Offset is positive when moveable machine is higher or further away from viewer.

Foot results are accessed by pressing / / .



- 1 Tolerance symbol
- 2 Foot position



- 1 Direction of correction

Both vertical and horizontal results show the foot position relative to the stationary machine centerline. Positive values indicate that right machine is upwards or away from viewer. Negative values indicate that right machine is downwards or towards the viewer. The alignment condition is indicated by the tolerance symbol.

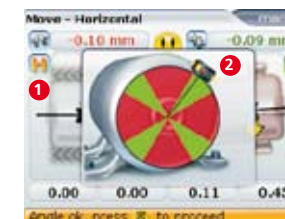
- ▶ With blue LED lit – values within excellent tolerances
- ▶ With green LED lit – values in acceptable tolerances
- ▶ With red LED lit – values out of tolerance



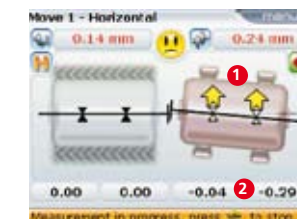
Move

Live MOVE can be performed in either the horizontal or vertical direction. From the results screen press and then select 'Move' from the context menu. Press , and then select the direction of the MOVE (horizontal or vertical) by pressing / .

Turn shaft to any 45° position and then center the laser beam and start live MOVE by pressing .



- 1 Horizontal view
- 2 Transducer positioned at the 45° arc



- 1 Direction to move machine
- 2 Amount to move machine

Loosen base bolts and move machine following the alignment values in real-time and the smiley on the display. Tighten anchor bolts and check alignment by taking another set of measurements and viewing results. If within tolerance (indicated by a happy face smiley), then machines are aligned.

Soft foot

Soft foot can be checked at any time. Access the soft foot function by pressing . Use the navigation keys to select . Rotate shaft to 3:00 or 9:00 o'clock position and then center the laser beam. Press and use / to select foot to check. Press and loosen corresponding anchor bolt and wait until the readings stabilize and then press . Tighten bolt and press / to select next foot. Repeat the procedure for all feet.