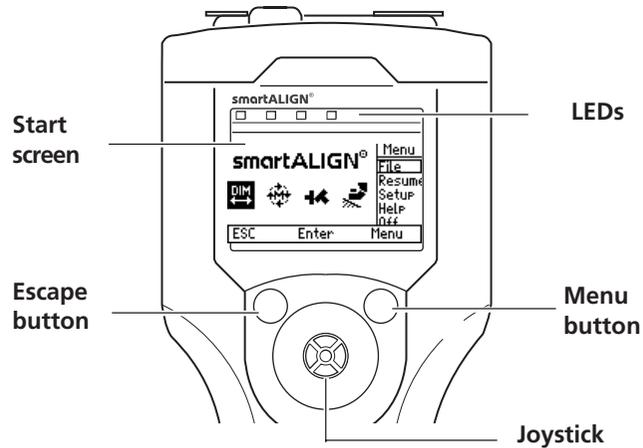
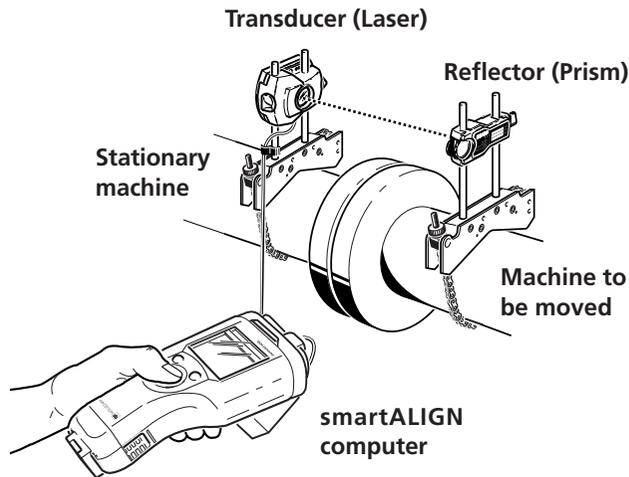


1. Know your smartALIGN

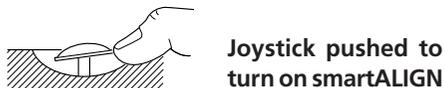


The main operating buttons are the joystick, the menu button and the escape button.

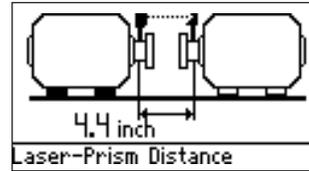
2. Mount smartALIGN and switch on



Switch on the instrument by pushing the joystick forward and holding for a few seconds. All 4 computer LEDs light up.



3. Enter dimensions



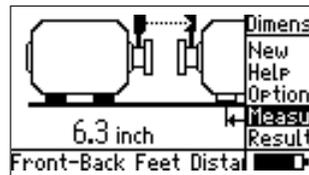
From the start screen, select the dimensions icon. Depress joystick to enter machine dimensions. The rectangular box appears when the joystick is pushed forwards or backwards. Proceed to edit dimension by moving the joystick forwards, backwards and/or side-ways.

Dimensions to be entered include:

- Laser-to-prism
- Laser-to-coupling center (calculated automatically from laser-prism distance, or distance to right side of spacer coupling)
- Coupling diameter
- RPM
- Laser-to-front foot (of right machine)
- Front foot-to-back foot (of right machine).

When the dimensions have been entered, the dimensions submenu appears with 'Measure' highlighted.

4. Measure



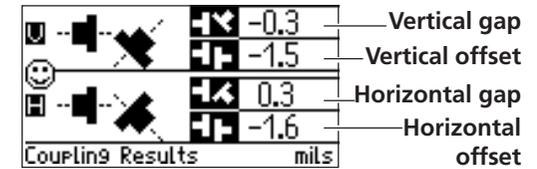
With the cursor on 'Measure', depress joystick to proceed with measurement. Measurement can also be started by selecting the measure icon in the start screen.

Center the laser beam using the reflector thumbwheel and the yellow knob. When the beam is centered, the blue LED lights up.

As the default measure mode is continuous sweep, this mode is automatically initiated when the shafts are rotated. After a rotation of at least 60°, the results option is highlighted. Depress joystick to view alignment results.

5. Results

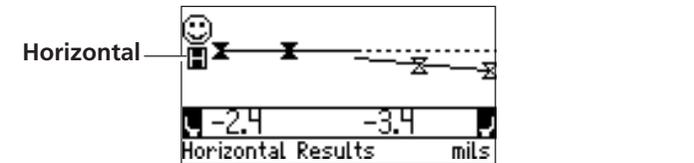
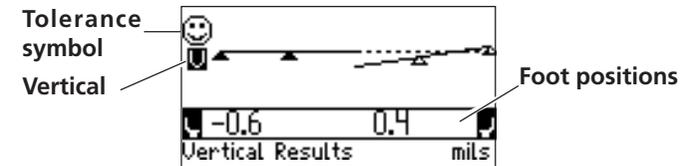
Access the submenu item 'Results' by pressing the menu button. With 'Results' highlighted, depress joystick to obtain results. Results can also be accessed by selecting the results icon in the start screen.



Coupling results are given in the form of gap difference at the entered coupling diameter and offset.

With left machine stationary, gap is positive when open at top or side away from viewer

Foot results are accessed by moving joystick.



Both vertical and horizontal results show the foot position relative to the stationary machine centerline.

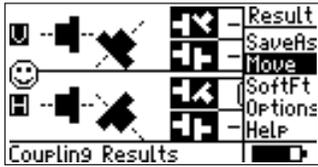
Positive values indicate that machine foot is upwards or away from viewer. Negative values indicate that machine is downwards or towards the viewer.

The alignment condition is indicated by both the tolerance symbol and the corresponding lit smartALIGN LED.

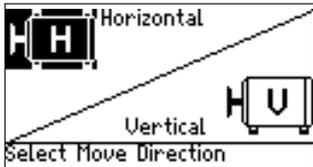
- ☺ With blue LED lit - values within excellent tolerances
- OK With green LED lit - values within acceptable tolerances
- ☹ With amber LED lit - values out of tolerance
- ☹ With red LED lit - machine misaligned

6. Move

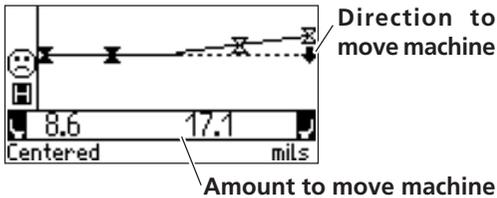
Live MOVE can be performed in both horizontal and vertical directions. From the results screen press the menu button and select 'Move' from the results submenu.



Depress joystick and then select the direction of the MOVE.



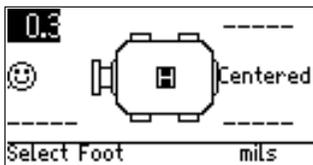
Turn shaft to any 45° position and then center the laser beam, and start live MOVE by depressing the joystick when the 'Begin Move Now' screen appears.



Soft foot

Soft foot can be checked at any time.

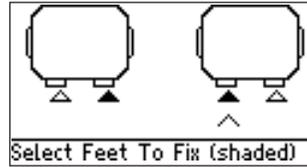
Access the soft foot function via the start screen or the results submenu. Rotate shaft to 3:00 or 9:00 o'clock position and then center the laser beam. Select foot to check by moving the cursor. Depress joystick and loosen corresponding anchor bolt. A happy smiley indicates that no further investigation at that particular foot is warranted.



Alignment options

Static feet

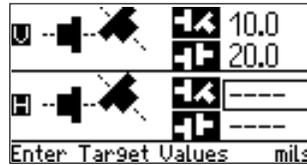
Any pair of machine feet can be designated as static. Depress the menu button while in either the dimensions or results submenu to access the 'Options' menu item. Select 'Options'/'Fix Feet'.



Move the cursor under foot pair to fix and depress joystick to confirm selection.

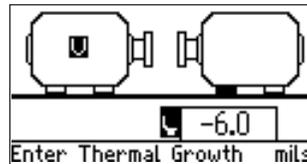
Targets

Set coupling targets by accessing the 'Options' menu item. Select 'Options'/'Set Targets', and enter values via the text editor. The values are activated by going to 'Options'/'Targets' and selecting 'ON'.



Thermal growth

Enter thermal growth values by accessing the 'Options' menu item. Select 'Options'/'Set Thermal Growth', and enter values via the text editor. The values can either be positive or negative. The values are activated by going to 'Options'/'Thermal growth' and selecting 'ON'.



Save file

To save a file, select 'File'/'Save as' from the start screen menu and save file using the text editor.

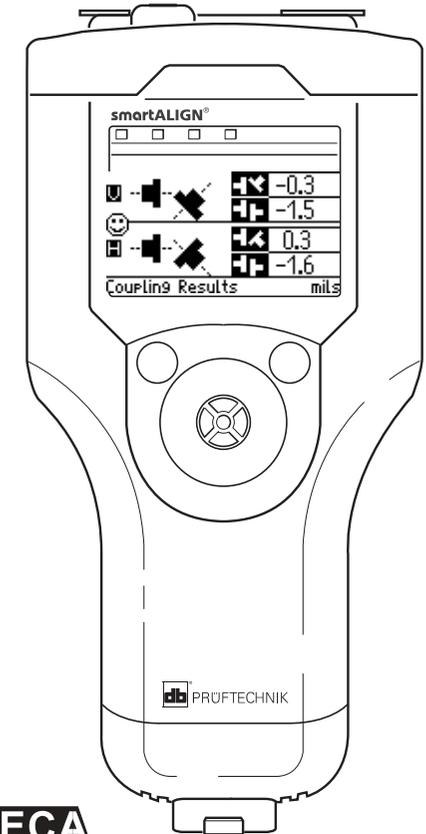


For uppercase letters double click

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(For details please refer to the smartALIGN handbook ALI 9.702G.)