Soft Foot Wizard Press ⬛➡ in Program Manager

1. Enter Front to Back Foot dimension. Press ⊛(M) ;

press ⬛XY View and adjust until centered & press **OK** .

2. Using the ⬅➡ keys, select a foot, and press

Meas. . Loosen bolt, press **OK** and re-tighten bolt.

3. Repeat steps until all four feet have been measured.

4. Press ⟋↧ , and read instructions on screen.

5. Press ⬛Enter gaps and enter feeler gauge values for the

four corners of the foot or feet the Rotalign has chosen

& Press **OK** & follow instruction on screen , and

shim accordingly. 6. Press ⬛Re-start and ⬛Meas. , and

measure each foot again. Press ⟋↧ , and follow

instructions. 7. Repeat these steps until the Rotalign

says "No soft-foot found!" or until you are satisfied with

the readings. Generally, we try to reduce the Soft Foot

to 2.0 mils (.002"). 8. Press ⬛Exit to save the soft foot

file and return to the Program Manager.

Note: Pressing ⬛MENU , ⬛CLR also will return you to the

Program Manager.

Tip! Use these at any time: ⬛DIM⬌ | ⬛⊛(M) | ⬛⟋↧ | ⬛MENU

To change inch/mils to mm - or - mm to inch/mils:

⬛MENU ⬛DEVICE CONFIG **OK** ⬛inch / mils ▦

In case of 'lock-up' press ⬛ON OFF ⬛CLR ⬛ENTER all at once.

⬛MENU Main Menu in Align Shafts

MACHINE TYPE	Select machine types: 'normal 4-feet,' '6-feet,' 'single bearing,' 'V-form.' Left machine can be made moveable.
THERMAL GROWTH	Enter the expected horizontal and vertical movement for the feet.
COUPLING TYPE	Select 'Short flex,' 'Single plane' (solid), 'Spacer shaft,' or 'Cardan shaft'.
COUPLING TARGETS	Enter the 'cold' coupling target alignment, based on display mode selected in COUPLING TYPE above.
COUPLING TOLERANCES	TABLE tolerances based on RPM. Select Table based on Cycles and Coupling Style.
STATIC FEET	Set feet which cannot be moved. If left machine is 'Stationary ' (in MACHINE SETUP above) then entire right machine must be moveable.
JOB SHEET	Contains information on the alignment.
DEVICE CONFIG	Unit, Language, Contrast, Date, User name, Company, Printer, Configure serial (COM) port, Etc.
FILE	Save, Open files, etc.
REPORT	Print selected file in various report formats.
PROGRAM MANAGER	Select Align Shafts, Check Soft Foot, Etc.
SOFTFOOT CHECK	Starts the basic Soft Foot program
SOFTFOOT WIZARD	Starts the Soft Foot *WIZARD* analysis program

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ROTALIGN® PRO

☺ Short Instructions
for Version 3.1x (rev. c)

by

Voelzow & Company, Inc.
704-233-9222

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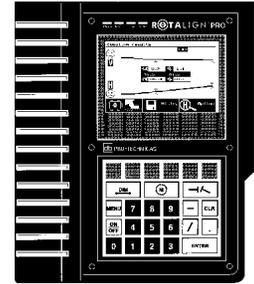
1. Mount ROTALIGN® PRO & Press ⬛ON OFF

To adjust the display contrast in the Start-up Screen,

press & hold **0** to lighten and **1** to darken.

Laser is always mounted on the Stationary Machine
(your **L**eft)

Receiver is always mounted on the **M**achine **T**o **B**e **M**oved (your **R**ight)

Stationary (Pump)

M.T.B.M. (Motor)

The Computer is *normally* used on the 9 o'clock (left) side of the machine.

CAUTION
LASER LIGHT
DON'T STARE INTO BEAM
CLASS II LASER PRODUCT
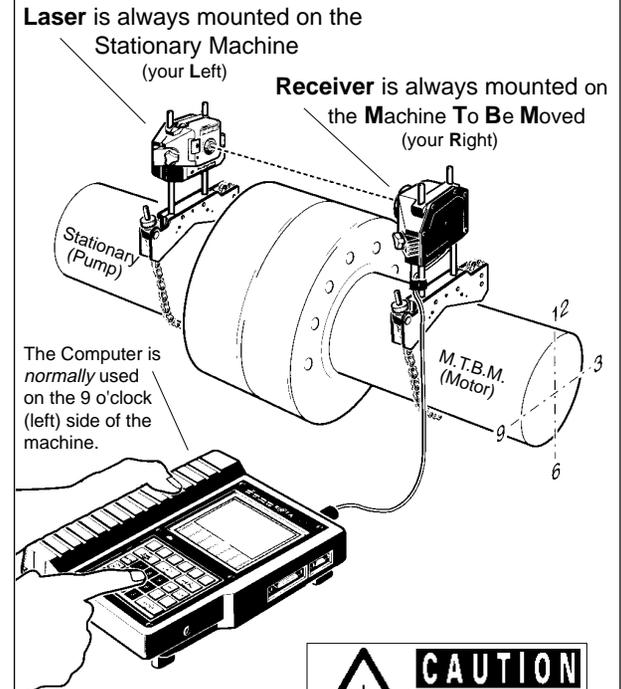
Note: To return to the Start-up Screen &

Program Manager *anytime*, press ⬛MENU , ⬛CLR

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2. Press ⊞ Align Shafts (Soft Key)

Dimension reference mark on top of the Receiver. — φ

Indicates dimensions shown are for machines number 1 and 2. PRO can display up to 6 machines!

↻ 1750   1▪2

◄— 4.875 —►
10.000
◄— 6.375 —►   ◄— ▬▬▬ —►
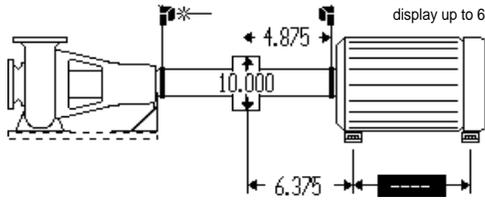
1. Coupling diameter — Use 10"   ➡
2. Coupling center to receiver 🔲 φ   ENTER
3. Coupling RPM   ENTER
4. Coupling center to front foot   ENTER
5. Front foot to back foot   ENTER

Dimensions can be entered as decimals or fractions.

For example press 9.75   ENTER

or press 9 ✚ 3 / 4   ENTER

3. Press (M) Measure
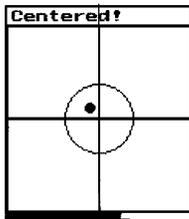
Centered!

Adjust thumbwheels on laser to center of travel. *Then* switch on and adjust beam onto center of receiver dust cap by sliding laser up or down on risers. Loosen bracket to adjust for side-to-side. (Avoid using the fine adjustment thumbwheels just yet.) Remove cap and center dot on targets.

Centered! Plane 2
Plane 1

IMPORTANT!!
Check the XY VIEW!
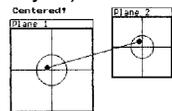
For Fine Adjustment: Up/down (Y-axis)—use top thumbwheel. Side-to-side (X-axis)—use side thumbwheel.

3a. Soft Foot Check

1. Press MEAS. MODE , ➡ , Start .

2. Using the ⬅ ➡ keys, select a foot, and press MEAS. FOOT loosen the bolt, press STOP and re-tighten bolt. Repeat step #2 for all feet. Using feeler gages — reduce the Soft Foot to 2.0 mils (.002").

Note: The largest number is usually the Soft Foot!

3b. Measure continued — Press (M)

Verify "Centered", then **Turn shafts** or press Start sweep and rotate one complete turn (or a minimum of 75˚); press STOP .

4. Press ⟨⊸⊢⟩ for Alignment Results

Vertical (Side view)   Left machine   **Alignment (Coupling) shown here**   Right machine   Support (foot) side view

Coupling results   1▪2

☺ V

Tolerance indicators

☹ ☹ 0.7 mils ⊞ -1.1 mils   Use this button to zoom in on the "Alignment Parking Spot©" H or V
☹ -35.4 ⊞ -0.2

H

▣ 🔼 💾 Histry (H) Option
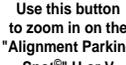
Horizontal (Top view)   to Results at Feet   Alignment - Gap & Offset (symbols show direction)

5. Press 🔳 for Results at Feet

Vertical (Side view)   Left machine   Right machine

Feet results [mils]   1▪2

☺ V

Tolerance indicators

Results at Feet shown here   -1.6 -2.6   22.4 79.0

H ☹

▣ ⊞ 💾 Histry (H) Option

Horizontal (Top view)   to Results at Coupling (Alignment)   Saves File   Front foot & back foot "positions" - used to get corrections

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Note: The optimum position to set the Laser & Receiver for a Horizontal Move is 3 or 9 o'clock!

6. Press ⟨▣⟩ Move

Do Not Loosen the Bolts Yet!

Horizontal Move: Use the Move function to monitor or keep the horizontal position! Be sure to press (H) to monitor only the Horizontal changes even if you are going to shim! This lets you control the Horizontal even while you shim & still see the "Alignment Parking Spot©"!

1. If "Centered" — move will start automatically! If not "Centered" — the Rotalign goes to the XY view. Adjust laser into inner circles then press **OK** . You should be watching the changes at the feet. If not, switch by pressing 🔳 .

2. Loosen bolts and shim or move the machine.

3. Re-tighten bolts and then press STOP .

Note: For very large horizontal corrections adjust horizontally before shimming. Note: If you are having trouble making your horizontal move you need to check Soft Foot again! Press MENU and select "Softfoot check" or for tough Soft Foot problems — "Softfoot wizard"!

7. Recheck, go back to step 3b.

Receiver Live Mode Indicator — LED's

	Red LED	Green LED	Screen
1. Out of range	Steady	Off	'OFF'
2. Edge of range	Fast blink	Fast blink	'END'
3. Adjustment OK	Off	Slow blink	'OK'