



Advanced Test Equipment Rentals

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# The VibrAlign V180 Precision Laser Shaft Alignment System.



Fast, Easy and Precise Laser Shaft Alignment At A Price For Everyone!

Introducing the VibrAlign V180, the first Shaft Alignment instrument priced under \$5,000, bringing precision laser alignment to every facility with rotating equipment.

The system is based on dial indicator methods which have been used for years. The VibrAlign V180 system, however, eliminates the need for cumbersome bracket set-up of dial indicators, bracket sag considerations, and brings laser accuracy to every alignment job. Since the V180 displays actual machine values right on-screen, live, the user isn't required to perform any complicated calculations. You can spend your time performing precision alignments, not re-training or remembering equations.

## The V180 Features:

### User-friendly display unit

Figures, numbers and logical symbols guide the user towards a perfect alignment. The system is operated by four keys using symbols that are universally understood. The ► steps you through the alignment process. If you make a mistake or want to backup a step, simply press the ◀ button. Finally, the + and - buttons are used to increase or decrease an entry (such as a dimension). Nothing could be simpler. There are no complicated menus to learn, minimizing training needs. Bottom line, with the VibrAlign V180 laser alignment system you can start doing alignment right away.

### Advanced laser technology

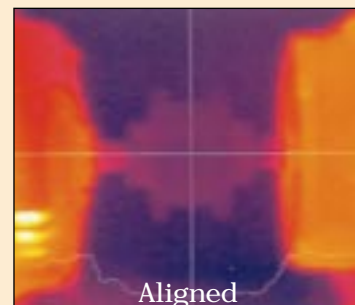
There are two combination transmitter-detector units, each containing a laser transmitter and a high quality 10 mm laser detector. The laser detectors measure the travel of the laser beam as the shafts are rotated. These movements of the laser beam over the detectors represent the misalignment of the shafts.

(over)



## Why Is Precision Alignment Important?

Studies have shown that more than 50% of all excessive machinery vibration is caused by misalignment. Excessive vibration causes energy loss, bearing failures, and unexpected repairs. Precision alignment is proven to deliver significant savings in electricity, machine repair and downtime.



Aligned

One of the ill side effects of misalignment is heat build-up.



Misaligned

Thermal images courtesy of Infraspection Institute.

## “What you do is what you see” operation

The alignment data is continuously updated. All movements of the motor are simultaneously displayed on the screen. The measurement results are displayed with a resolution of 0.0001". As you shim or move the machine the values update to let you know exactly where you are each step of the way. This means no more guessing about the shim amount, or how much to move a machine.

With the VibrAlign V180 laser alignment system there is no interpreting of the values as with dial indicators. The position-sensitive detectors precisely measure the misalignment. The large LCD display clearly presents the position of the machinery being aligned.

## Your complete alignment needs right out of the box

The VibrAlign V180 comes with all the hardware and tools you need to begin doing alignments as soon as you open the carrying case. Anodized aluminum chain brackets fit a wide range of shaft diameters. The brackets fit shafts as small as 1/8" diameter. The chains can be extended to accommodate virtually any shaft diameter.

The transmitter-detector units are mounted on rods extending from each of the brackets. The transmitter-detector units are clearly labeled (one for the stationary machine, and the other for the movable machine). The cables and the display unit are also clearly marked, simplifying the set up.

Once the transmitter-detector units are mounted they plug directly into the display box. The easy-to-use, ergonomically designed display fits right in your hand. Its intuitive design means you can step through an alignment as soon as you pick it up.

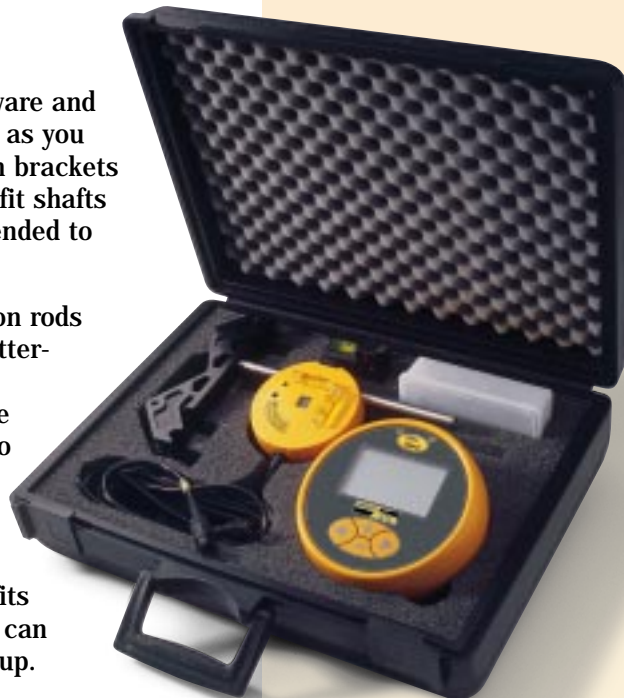
The V180 has been designed to let you concentrate your skill and effort on performing precision alignments, not on figuring out how to use the tool.

*Order your VibrAlign V180 today!*

# Technical Specifications

## Transmitter/Detector Units

Housing material.....	Composite
Laser class.....	2
Laser wavelength .....	675 nm, visible red
Detector area .....	10 x 10 mm
Displayed resolution.....	0.0001"
Measuring distance .....	1 meter
Light stabilization .....	No interference from ambient light



## Display Unit

Housing material.....	Composite
Displayed accuracy .....	+/- 2%
Display .....	Custom LCD (77 x 33 mm)
Power supply.....	(3) "C" alkaline batteries
Weight .....	13 lb. (6 kg)

**VIBRALIGN** *V180*