

# ALIGNMENT SYSTEM

## REVERSE DIAL INDICATOR ALIGNMENT SYSTEM

Alignment is the procedure by which the shaft centerline of one machine element, such as a motor, is adjusted to be co-linear with the centerline extension of another machine shaft, such as a pump. It is also possible to align three (3) or more elements in more complex machines. One of the leading problems to be corrected is misalignment of shafts and couplings.

Our Reverse Dial Indicator Alignment System offers an efficient and economic alternative to costly and more technical optical (laser) alignment equipment and programs. This package is an effective choice for performing machinery alignments more accurately and quicker than other methods.

The custom designed and machined Reverse Dial Indicator Alignment System is equipped with the necessary brackets, bars, and dial indicator set to complete a successful and accurate shaft alignment (even on smaller, space confined machinery).

Our system includes the following components: Alignment Program Version 7.01 Software (Windows™ PC and/or WinCE device), customized machined bracket set, Starrett™ dial indicator, tape measure, inspection mirror, digital micrometer, specially developed Horizontal and Vertical datasheets, Soft Foot/Horizontal Move Application Notes, users manual, CD-Rom Training Videos (demonstrate system setup and features), an optional Hand-held Computer (including docking station) and a waterproof carrying case.

Significant savings can be achieved by improving the machine condition through proper alignment. Operating costs can be **minimized** in various ways:

- Exponential increase in bearing life
- Fewer replacement parts
- Fewer premature seal failures
- Energy savings
- Reduced maintenance and repair
- Reduced machinery vibration
- Overall decrease in downtime
- Reduced power consumption through

Any alignment job, done properly, involves at least three (3) major steps:

1. Measurement of the amounts & directions of misalignment (i.e., offset & angularity)
2. Calculation of corrective moves (i.e., mils or mm at machine feet)
3. Machinery movement itself

With our Reverse Dial Indicator System, no longer does the alignment task have to be complicated by having to perform calculations that result in errors and mistakes. The result is quick and accurate alignment readings allowing for the maximum time to be spent on the most difficult task involved with alignment - corrective movement of the machinery.



**Complete Alignment Kit**



**Vigilant Marine Systems, LLC**

170 N. Maple Street • Suite 104 • Corona, CA 92880

Tel: + 1 951-808-9940 • Fax: + 1 951-808-8530

email: [info@vigilantmarine.com](mailto:info@vigilantmarine.com) • [www.vigilantmarine.com](http://www.vigilantmarine.com)