



**University of Massachusetts Amherst
Department of Procurement**

**Request for Bids:
Laser Alignment Equipment
per the attached specifications or approved equal**

**RFB# AA08-RH-2757
Bid Opening Date – May 13, 2008 @ 1:00 p.m.**

Laser Alignment General Specifications

1. Provides for shaft alignment of horizontal machines utilizing the 9-12-3 method.
2. Allows complete alignment measurement with only 75° rotation of the shafts.
3. Provides for alignment of vertical and flange-mounted machines.
4. Displays live readings from the Stationary and Moveable Machine
5. Can be used for shaft alignments and straightness measurements.
6. The entire alignment can be followed live on the screen.
7. Check that the machine is standing on all feet –Soft Foot/ Sprung Foot- Displays which foot to correct
8. Compensates for difference in thermal growth between machines.
9. Checks the offset and angle values against selected tolerance. Shows graphically when the alignment is within tolerance.
10. Accurate measurement results even in poor measuring conditions like air turbulence and vibration.
11. Any pair of feet can be locked/set as a reference.

Operational Specifications

1. Able to Measure accurately and repeatedly up to a distance 20 feet
2. Able to operate between a Temperature range of 32-122° F [0-50° C]
3. Able to operate between a Relative humidity of 10-95%
4. Class 2 Diode laser
5. Resolution 0,001 mm [0.05 mils]
6. Electronic inclinometers
7. No influence from ambient light
8. Able to be used on Shaft diameters from at least ¾” up to and including 18” utilizing standard included brackets.
9. Include shaft brackets that can be installed on a shaft with less than ¾” usable shaft engagement.

A purchase order will be issued to the successful bidder after analysis of the bids.

Delivery: FOB, Amherst, MA 01003

Delivery of equipment is to be made to:

University of Massachusetts
Attn: Thomas Fydenkevez
Physical Plant
360 Campus Center Way
Amherst, MA 01003
Phone: 413-545-3231