



# Optodyne

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Product:

**Linear Measurement Enhancement Package®**

## MODEL ME-2000



**Better than a New Measurement Machine**

**Better Accuracy & Lower Cost**

**For linear measurement machines,**

**SIP Machine or Supermicrometer®**

**Start with a good Model A, B,**

**or C Supermicrometer®**

**Lap the anvils and condition the mechanics as**

**needed & alter headstock on Model C**

**Add an OPTODYNE Laser System with digital**

**readout on a PC monitor**

**Set up measurements and collect data using an**

**IBM PC compatible computer**

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## Specifications

### **Major Features**

**Laser Accuracy:** The Linear Measurement Enhancement Package® is designed to upgrade supermicrometers® to achieve high accuracy. The resolution is 1.5 microinch. The laser accuracy is 1.5 microinches +/- 1 microinch/inch.

### **Opto-Electronic Tailstock:**

Our unique opto-electronic sensor provides a latching signal for automatic data recording.

The repeatability is 3 microinches. There is no need for an analog meter and no need for difficult zero setting.

### **Desk Top Computer Power:**

Display measurements in English or metric units, set measurement parameters, and perform automatic data recording, data processing, and data management.

### **Easy Installation:**

The ME-2000 comes complete with a Desk Top PC, an opto-electronic sensor, and a mounting kit, all of which can be installed in minutes.

### **Automatic Compensation:**

Automatic compensation for environmental changes and thermal expansion is also available as a hardware option.

The Linear Measurement Enhancement Package® may be purchased as a turn-key unit using a customer supplied Supermicrometer® or as a laser kit with instructions for easy customer assembly. (Upon request a used Supermicrometer® can be quoted as part of a turn-key system).

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## ME-2000 Linear Measurement Enhancement Package

### Configuration:

Narrow-beam laser head	L-103
Processor Module as an IBM card and home position switch	P-501-IHS
0.5" Dia. Retroreflector	R-102
Gage block and linear measurement program	S-105
Mounting Kit	LD-26
IBM Compatible PC and color monitor	PC

### Option:

Automatic Temperature compensation	ATC
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### Headstock, Laser Device:

Resolution	1.5 microinches
Accuracy	1.5 microinches ± 1 microinch/inch
Max Range	10 inches
Max Slew Rate	3 ips

### Tailstock, Opto-Electronic Transducer:

Repeatability	± 3 microinch
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<b>Power:</b>	120 VAC, 60 Hz
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**Certification:** NIST file no. provided upon request

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