Features

- **Frame**
  Rugged cast iron legs provide mechanical stability ensuring measurement repeatability and reproducibility.

- **Granite Surface Plate (optional)**
  Provides required stability to minimize influences on the integrity of the measurement system.

- **Vibration Isolation Stand (optional)**
  Specially designed active air isolation system works together with granite surface plate to provide a maximum of vibration control.

- **Keyboard & LED Display**
  Clearly marked keys and a bright LED display makes instrument operation a breeze.

- **Motorized Probe**
  Touch activated two-speed measurement control eliminates operator influence.

- **Digital Laser Interferometer**
  Wavelength of laser light used as basis for measuring. Operating principle insures maximum resolution, traceability and performance.

- **Two-Step Calibration**
  This advanced feature allows the LASERULER to be calibrated with two lab grade NIST traceable gage blocks. This two-step process takes only 30 seconds from start to finish.

- **Automatic Cycling**
  Programmable inspection cycle permits predetermined constant throughput rate. Operator need only position the part for automatic measurement, allow the probe to engage the specimen, and then remove. This simple procedure is repeated until the lot is complete.

- **Direct Reading or Comparator**
  Depending on your accuracy requirements, the instrument can easily be operated in either mode.

- **Go/No-Go Presets**
  Automatic go/no-go decisions from operator-entered tolerance limits and actual measured values.

- **Statistical Measurement**
  Summation of all measurements is stored on command. Stats display indicates computed mean value and one standard deviation.

- **Printer (optional)**
  Convenient hard copy for automatic test record.
**SPECIFICATIONS**

<table>
<thead>
<tr>
<th>Specification</th>
<th>Instrument Uncertainty: 1, 2</th>
<th>Repeatability: 1</th>
<th>Display Resolution:</th>
<th>Measurement Range:</th>
<th>Maximum Specimen Size (Cylindrical Shape):</th>
<th>Measurement Probe Contact Force, Standard:</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>5 + .5L Microinches (±2 std. dev.)</td>
<td>1.6 Microinches (±2 std. dev.)</td>
<td>0.1 Microinch</td>
<td>0-8.0 inches</td>
<td>15 inches x 8.3 inches high</td>
<td>0.5 oz*</td>
</tr>
<tr>
<td></td>
<td>1.25 + .5L Microns (±2 std. dev.)</td>
<td>.04 Microns (±2 std. dev.)</td>
<td>0.0025 Microns</td>
<td>203 mm</td>
<td>381 x 210 mm</td>
<td>14 grams*</td>
</tr>
</tbody>
</table>

**Measuring Probe Geometry:**
- Tungsten Carbide Flat (1/10 wave)
- Diamond Tip (standard 0.125'/3mm radius)
- Mounts with ADG #4-48 adapter

- **LED Data Display:** 16 Digit, Alpha-Numeric
- **Electrical Requirements:** 110/120 VAC 60 Hz (2 AMP) or 220/240 VAC 50 Hz (1 AMP)
- **Printer Interface:** Centronics Compatible
- **Serial Port:** RS-232C Compatible. Sends and receives ASCII characters.

**Dimensions (W x D x H):**
- 20 x 16 x 26 inches
- 51 x 41 x 66 cm

**Shipping Weight:**
- 150 lbs.
- 68 kgs.

**Laser Type:** Helium-Neon 632.8 nm (RED)

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1. Environmental conditions should be within +/- 0.5°F (0.25°C), +/- 0.05 in Hg (1.5mm Hg), and +/- 25% relative humidity between mastering and measuring. Simply re-master if variation exceeds these conditions. Re-mastering takes less than 1-minute.

2. Total measurement uncertainty will vary with grade of master and application.

L = length

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**NIST TRACEABLE!**

LASERULER’S exclusive Digital Interferometer-based sensor accurately measures length by comparing the measurement probe position to the absolute wavelength of the laser light source.

*Contact factory for specific requirements

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**OPTIONAL ACCESSORIES (LABMASTER & LASERULER)**

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Description</th>
<th>Supplier Part Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>U302593</td>
<td>.750&quot; Lapped Cylinder</td>
<td>U305759</td>
</tr>
<tr>
<td>U302594</td>
<td>V-blocks (set of 3)</td>
<td>U305754</td>
</tr>
<tr>
<td>305849</td>
<td>Probe Tip Adapter</td>
<td><strong>U305761</strong></td>
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<tr>
<td>305901</td>
<td>Breath Shield</td>
<td><strong>U305930</strong></td>
</tr>
<tr>
<td>306023</td>
<td>Small Part Anvil</td>
<td><strong>U305755</strong></td>
</tr>
<tr>
<td>*306000</td>
<td>Serrated Stainless Steel Anvil</td>
<td><strong>D10065-007</strong></td>
</tr>
<tr>
<td>*306024</td>
<td>Serrated Large Parts Anvil</td>
<td><strong>D10555-004</strong></td>
</tr>
<tr>
<td><strong>U306053</strong></td>
<td>.030&quot; Backstop for Small Parts Anvil</td>
<td><strong>U305756</strong></td>
</tr>
<tr>
<td><strong>U306052</strong></td>
<td>.125&quot; Backstop for Small Parts Anvil</td>
<td><strong>305762</strong></td>
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<tr>
<td>*305997</td>
<td>Serrated Tungsten Carbide Anvil</td>
<td><strong>D10554-014</strong></td>
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<tr>
<td>*306024</td>
<td>Serrated Large Parts Anvil</td>
<td><strong>D10555-004</strong></td>
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<tr>
<td><strong>U306027</strong></td>
<td>Stainless Steel Saddle Anvil</td>
<td><strong>D10555-003</strong></td>
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<tr>
<td>U305843</td>
<td>Tower Thermometer</td>
<td>U305758</td>
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<tr>
<td>D10017-005</td>
<td>Line Regulator</td>
<td>U305753</td>
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<tr>
<td>U305917</td>
<td>24&quot; x 24&quot; Surface Plate</td>
<td>U305939</td>
</tr>
<tr>
<td>D10559-104</td>
<td>Stand with Castors</td>
<td>U305752</td>
</tr>
<tr>
<td>D10559-016</td>
<td>Isolation Stand</td>
<td><em>D10555-019</em></td>
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<tr>
<td>U305763</td>
<td>24&quot; x 36&quot; Surface Plate</td>
<td><em>U306114</em></td>
</tr>
<tr>
<td>U305970</td>
<td>Stand with Casters</td>
<td><em>U306487</em></td>
</tr>
</tbody>
</table>

*Available for LABMASTER only.
**Available for LASERULER only.

Note: Be sure and ask for an item not listed. We are always developing new accessories.
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Any part which, under normal operating conditions in the plant of the original purchaser, proves defective in material or workmanship within one (1) year from the date of shipment as determined by Pratt & Whitney’s inspection, will be repaired free of charge, f.o.b. factory Bloomfield, Connecticut, provided that the product has been properly installed, maintained and operated within the limits of rated and normal usage.

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Bloomfield, CT 06002-3619
U.S.A.

Toll Free: (800) 371-7174
Phone: (860) 286-8181
Fax: (860) 286-7878
E-mail: info@prattandwhitney.com
www.prattandwhitney.com

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