

ARTISAN®
TECHNOLOGY GROUP

Your **definitive** source for quality pre-owned equipment.

Artisan Technology Group
(217) 352-9330 | sales@artisantg.com | artisantg.com

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LASERULER®

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.



LASERULER®

SPECIFICATIONS

Instrument Uncertainty:[1, 2]	5 + .5L Microinches (±2 std. dev.)	.125 + .5L Microns (±2 std. dev.)
Repeatability:[1]	1.6 Microinches (±2 std. dev.)	.04 Microns (±2 std. dev.)
Display Resolution:	0.1 Microinch	0.0025 Microns
Measurement Range:	0-8.0 inches	203 mm
Maximum Specimen Size (Cylindrical Shape):	15 inches x 8.3 inches high	381 x 210 mm
Measurement Probe Contact Force, Standard:	0.5 oz*	14 grams*
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)	

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

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

OPTIONAL ACCESSORIES (LABMASTER & LASERULER)

U302593	.750" Lapped Cylinder
U302594	V-blocks (set of 3)
305849	Probe Tip Adapter
305901	Breath Shield
* 306000	Serrated Stainless Steel Anvil
* 306023	Small Part Anvil
*U306053	.030" Backstop for Small Parts Anvil
*U306052	.125" Backstop for Small Parts Anvil
* 305997	Serrated Tungsten Carbide Anvil
* 306024	Serrated Large Parts Anvil
*U306027	Stainless Steel Saddle Anvil
U305843	Tower Thermometer
D10017-005	Line Regulator
U305917	24" x 24" Surface Plate
D10559-104	Stand with Castors
D10559-016	Isolation Stand
U305763	24" x 36" Surface Plate
U305970	Stand with Casters
U305759	Isolation Stand
U305754	Remote Footswitch Control
**U305761	Thermal Printer (110-120 volt)
**U305930	Thermal Printer (220-240 volt)
**D10065-007	Printer Paper
**U305755	Specimen Anvil
**U305756	Saddle Anvil
** 305762	Carbide Anvil
D10544-014	3-piece Master Gage Block Set
D10555-004	12 Assorted Probe Tips
D10555-003	Diamond Probe Tip
U305758	Variable Force Kit
U305753	Monochromatic Light (110-120volt)
U305939	Monochromatic Light (220-240volt)
U305752	Optical Leveling Gage
*D10555-019	Corner Cube Probe Tip
*U306114	Serrated Bump Anvil
*U306487	5-Point Positioner
*U306274	Corner Cube Anvil

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

Note: Be sure and ask for an item not listed. We are always developing new accessories.

WARRANTY POLICY

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.

For further information call or write:

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