



Artisan Technology Group is your source for quality new and certified-used/pre-owned equipment

- FAST SHIPPING AND DELIVERY
- TENS OF THOUSANDS OF IN-STOCK ITEMS
- EQUIPMENT DEMOS
- HUNDREDS OF MANUFACTURERS SUPPORTED
- LEASING/MONTHLY RENTALS
- ITAR CERTIFIED SECURE ASSET SOLUTIONS

SERVICE CENTER REPAIRS

Experienced engineers and technicians on staff at our full-service, in-house repair center

*InstraView*SM REMOTE INSPECTION

Remotely inspect equipment before purchasing with our interactive website at www.instraview.com ↗

WE BUY USED EQUIPMENT

Sell your excess, underutilized, and idle used equipment. We also offer credit for buy-backs and trade-ins. www.artisanng.com/WeBuyEquipment ↗

LOOKING FOR MORE INFORMATION?

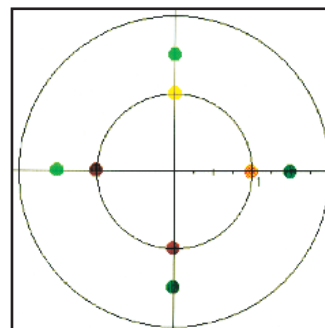
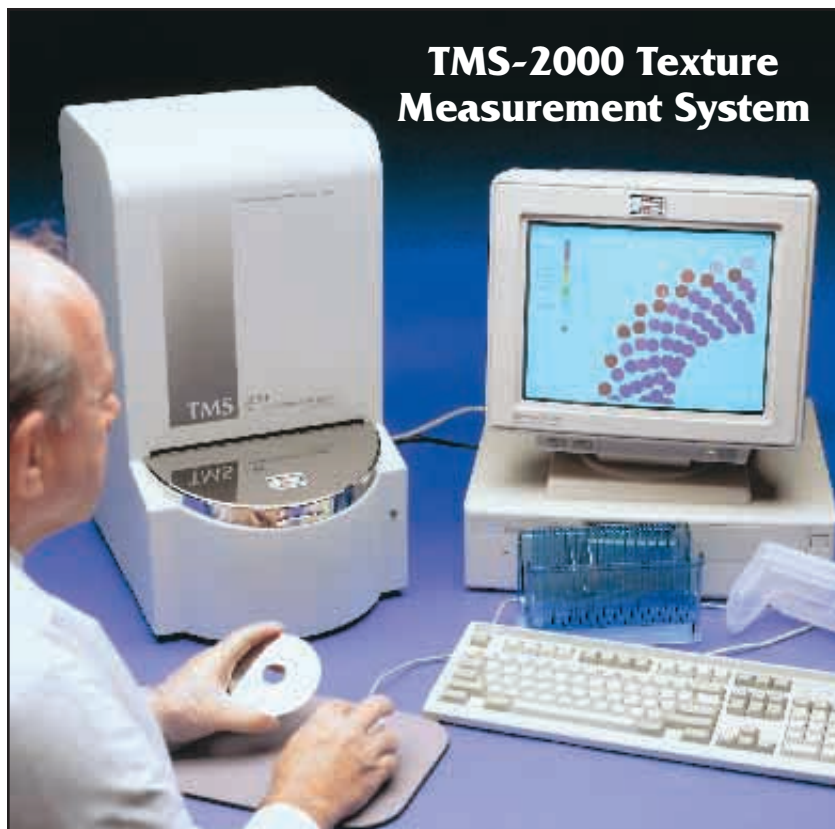
Visit us on the web at www.artisanng.com ↗ for more information on price quotations, drivers, technical specifications, manuals, and documentation

Contact us: (888) 88-SOURCE | sales@artisanng.com | www.artisanng.com

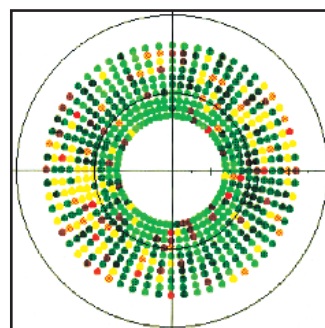
NEW

The Ultimate Measurement System

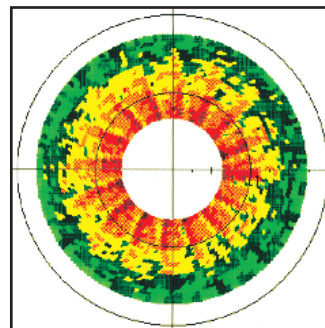
Non-Contact • Fast • Accurate • Repeatable



PRODUCTION SCAN - 8 Test Points
In 8 Seconds



TEST SCAN - 600 Test Points
In 50 Seconds



FULL SCAN - 6,000 Test Points
In 200 Seconds

REVOLUTIONIZING DISK MANUFACTURING TECHNOLOGY

The fastest, most accurate, non-contact texture measurement system in the world. Laser technology of today for the future. Currently being used successfully by major disk manufacturers. Discover the ultimate solution to fast, accurate measurements in disk manufacturing.

FEATURES:

- **NON-CONTACT MEASUREMENTS** cannot harm test surfaces
- **RESULTS** - RA, RMS roughness from 1Å to 1000Å
- **COST** - Lower costs than Profilometer, AFM or Interferometers
- **PRECISION** - Resolution of 0.1Å, reproducibility +/- 0.8Å or 1% and repeatability +/- 0.2Å
- **SPEED** - Typically 25 test points per second

BENEFITS:

- Quadruple Production Throughput
- Measures Interrupted & Zone Textures
- Increase Performance/Quality
- Unaffected by outside environmental conditions
- Minimal operator training required
- Lowest cost per measurement of any system
- Correlates to other measurement instruments



(503) 227-5178
FAX (503) 227-5040

Schmitt Measurement Systems, Inc. ■ 2765 N.W. Nicolai Street ■ Portland, OR 97210

The Ultimate in Texture Characterization

The fastest, highest resolution, most stable non-contact microroughness measurement system in the world. Advanced laser-based system ideally suited for quantifying and mapping full surface, interrupted, and zone textures. Now

used by major disk and wafer manufacturers. Discover the ultimate answer to fast, reliable microroughness measurements in disk and wafer manufacturing, with systems that simplify lab to manufacturing correlation.

TYPICAL SPECIFICATIONS

(At Factory Setup)

MEASUREMENTS

Source:	Class II Laser, 670 nm	Resolution:	0.1Å
Spot Size:	~1mm diameter	Repeatability:	±0.2Å <i>(same sample, same machine)</i>
Number of Spots:	Programmable <i>(full sample to single test point)</i>	Reproducibility:	±0.5Å or 1% <i>(whichever is greater)</i> <i>(same sample, different machine)</i>
Primary Results:	Ra or RMS (Rq) Microroughness	Spacial Filtering Frequency:	<i>(wavelength)</i>
Secondary Results:	P-V, RMS Slope, TIS, Diffuse Reflectance, Specular Reflectance	Low Band:	0.026 to 0.129 μm ⁻¹ (7.8 to 38 μm)
Speed:	25 Measurements per second*	High Band:	0.129 to 1.14 μm ⁻¹ (0.88 to 7.8 μm)
Range:	From 1Å up to 2000Å (RMS or RA)	Full Band:	0.026 to 1.14 μm ⁻¹ (0.88 to 38 μm)

* varies with Scan and User Setup

ROTARY STAGE

Repeatability:	±0.01°
Accuracy:	±0.05°

LINEAR STAGE

Repeatability:	±0.0005 inch (±0.01 mm)
Accuracy:	±0.0010 inch (±0.03 mm)

DATA GENERATION

ASCII Data Files (Detailed), SPC Data Files (Production Statistics), Color Plots, Sample Statistics

COMPUTER

P90 Personal Computer – Optional Color Printer

SAMPLE – HOLDERS

Standard Disks: 48mm, 65mm, 95mm, 140mm
Standard Wafers: 125mm, 150mm, 200mm

MATERIALS

Aluminum, Nickel, Silicon, and other reflective materials

INSTALLATION

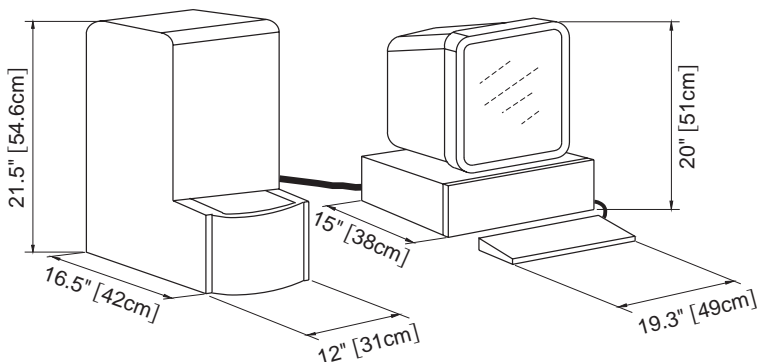
Electrical Requirements: 90-260 VAC – 50/60hz

SHIPPING WEIGHTS

Computer:	70 lbs/ 32 kg
TMS-2000:	70 lbs/ 32 kg
Total w/packing:	156 lbs/ 71 kg

TMS-2000

P90 Computer



Safety Considerations: Complies with all applicable laws for the manufacture of laser devices. This system is classified by the Center for Devices and Radiological Health (CDRH) as a class II laser device. Class II systems: do not stare directly into the laser source or point the laser at another's eye.



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