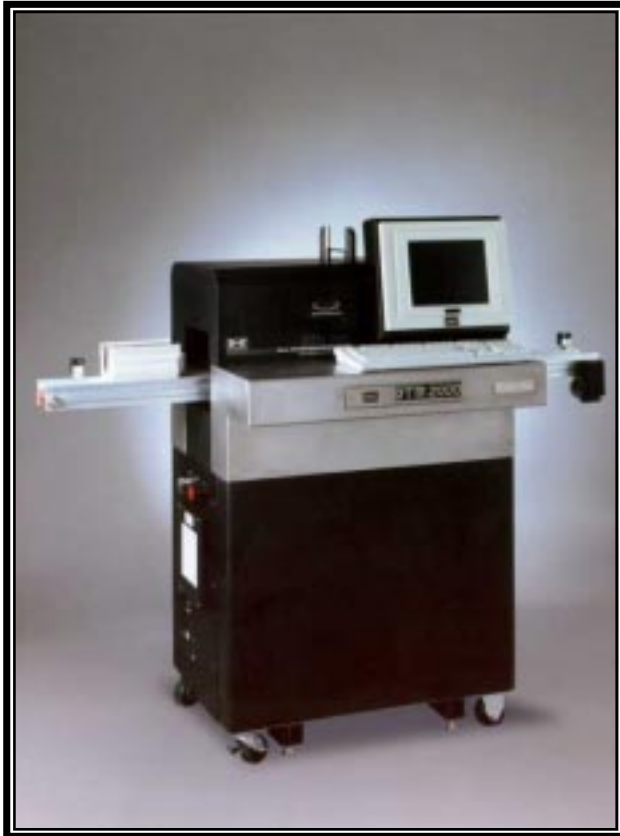


The Ultimate Measurement System

DTM-2000 Dual Texture Measurement System



- **Non – Contact**
- **Fast**
- **Accurate**
- **Automated**
- **100% Inspection**
- **Quick Payback**



Revolutionizing Disk Manufacturing & Inspection

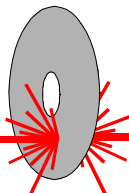
The fastest, most accurate, non-contact automated texture measurement system in the world. This fast laser technology allows for **affordable 100% inspection, at 1200 DPH***. Currently being used successfully by major disk manufacturers. Discover the ultimate solution to the fastest, most accurate measurements in disk

Features:

- **Non-Contact Measurements** cannot harm test surfaces
- **Results** – RA, RMS roughness from 1Å up to 5,000Å
- **Cost** – Lower costs than Profilometer, AFM or Interferometers
- **Precision** – Resolution of 0.01Å reproducibility +/-1.0Å or 1% and repeatability: +/-0.2 Å
- **Speed** – Typically 1200 DPH★

Benefits:

- Quadruple Production Throughput
- Measures Fly & Park Zones
- Increase Performance/Quality
- Unaffected by outside environmental conditions
- Minimal operator training required
- Affordable 100% Inspection, 1 disk every 3 seconds
- Fully Automated – handles all disks & cassette sizes



The Ultimate In Microroughness Measurements

The fastest, highest resolution, most stable non-contact microroughness, fully automated disk measurement system in the world. Advanced laser-based system ideally suited for quantifying interrupted, and zone microroughness testing in production or quality control applications. Now a disk measurement

system that accepts production or shipping cassettes. Each disk is raised from the cassette, both sides are scanned, and the disk is returned to the cassette, all automatically. Discover the ultimate answer to fast, reliable microroughness measurements in disk manufacturing.

■ Measurements

Source:	Class II Laser, 670 nm
Spot Size:	~1mm diameter
Number of Spots:	Programmable (full linescan to single test point)
Primary Results:	RA or RMS (Rq) Microroughness P-V, RMS Slope, TIS, Diffuse Reflectance, Specular Reflectance
Extra Results:	P - V
Speed:	1200 Disks per hour★
Range:	from 1Å up to 200Å (RMS or RA fixed gain) (1– 5,000 Å var. gain)
Resolution:	0.01Å

Technical Specifications

Repeatability:	±0.4 Å or 0.5% ★★
Reproducibility:	±1.0 Å or 2% ★★
Transition Zone Radius:	
Resolution:	±.001 inch
Repeatability:	±.002 inch
Reproducibility:	±.003 inch
Spacial Filtering Frequency: (wavelength)	
Low Band:	0.026 to 0.129 μm^{-1} (7.8 to 38 μm)
High Band:	0.129 to 1.14 μm^{-1} (0.88 to 7.8 μm)
Full Band:	0.026 to 1.14 μm^{-1} (0.88 to 38 μm)

- ★ Varies with Scan and User Setup
- ★★ Whichever is greater same sample, same machine.

■ Lifter

Repeatability:	±0.0015 inch (±0.01 mm)
Accuracy:	±0.0030 inch (±0.03 mm)

■ Data Generation

ASCII Data Files (Detailed), SPC Data Files (Production Statistics)

■ Computer

Pentium class Touch Screen Computer, with optional Color Printer

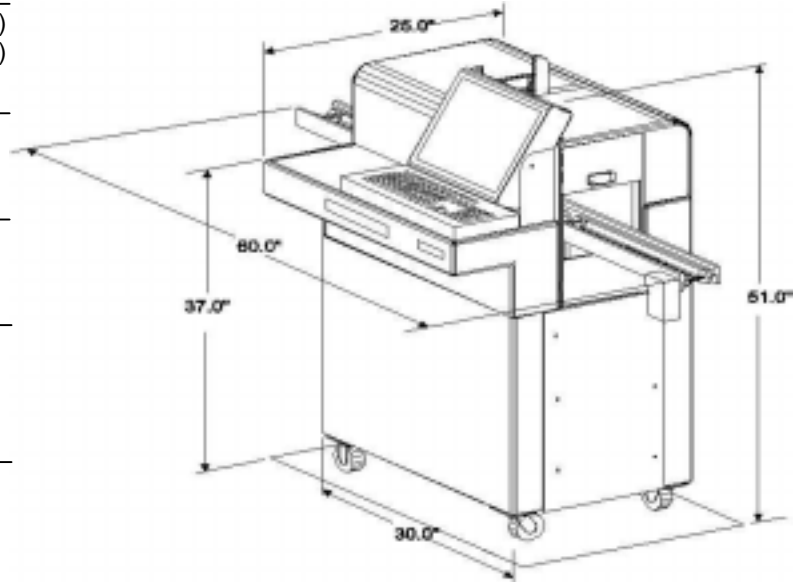
■ Installation

Electrical Requirements: 100-240 VAC – 50/60Hz Meets Class ten clean room requirements.

■ Shipping Weights

DTM-2000:	250 lbs / 113 kg
Total w/packing:	275 lbs. / 125 kg

■ Dimensional Drawing



**SCHMITT
MEASUREMENT
SYSTEMS, INC.**
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