

Lab Master[®] Probe Tack Tester



INTRODUCTION

The Lab Master[®] Probe Tack Tester is designed for precise measurement of adhesion, tack, quick stick and cohesion. Force is measured to 0.1 gram resolution and 0.02% full-scale accuracy. Thousands of data points per test are used to generate force/distance curves that reveal material behavior during test.

APPLICATIONS

Adhesives, Tapes, Pressure Sensitive Labels, Glue, Coatings and Seals

SPECIFICATIONS

- Meets ASTM D 2979

FEATURES

- **User-selectable contact pressure, position, rate of separation and duration of test**
- **Display test results as numbers and curves**
- **Configure for R&D analysis or one-touch automated process control**
- **RS-232 output**

- **Includes Windows operating system and touch screen flat panel display in a compact, network ready unit**
- **Innovative design (patent pending) maintains accuracy over changing loads and frequent use.**

INSTRUMENT SIZE

Depth: 535 mm (21.00 in.)
Height: 880 mm (34.75 in.)
Width: 490 mm (19.25 in.)

WEIGHT

50 kg (110 lb)

CONNECTIONS

Electrical: Auto-ranging Power Supply
· 100-120 V nominal $\pm 10\%$, 50/60 Hz
· 220-240 V nominal -5% $+10\%$, 50/60 Hz

ORDERING INFORMATION

Catalog number 80-92

**The TMI Group
of Companies**



www.testingmachines.com

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Specifications

Force (tension and compression)			
Maximum	±2.3 kg	±5.0 lb	Other force ranges available
Resolution	0.1 g	0.0002 lb.	
Accuracy	±0.5% of reading	±0.5% of reading	Exceeds the requirements of ISO 7500-1 Class 0.5
Overload rating	±0.5 g 150%	±0.5 g 150%	Tension or compression
Travel and Position			
Travel (maximum)	160 mm	6.25 inches	Varies, depending on attachment
Position Resolution	0.1 µm	0.00004 inches	
Position Repeatability	0.2 µm	0.00008 inches	
Position Accuracy	±1.0 µm	±0.0004 inches	
Position Accuracy (cumulative)	±1.0 µm/60mm	±0.000017 inches/2.4 inches	
Speed			
Range	0.01 to 13 mm/sec	0.01 to 0.5 inches/sec	
Accuracy (steady state)	better than 0.05%	better than 0.05%	
Throat depth	82 mm	3.3 inches	
Number of repeat cycles	as required	as required	
Data Acquisition rate	2 kHz	2 kHz	
Display			
TFT flat panel touch screen	300 mm	12 inch	
Physical Dimensions			
Height	880 mm	34.75 inches	
Width	490 mm	19.25 inches	
Depth	535 mm	21.00 inches	
Working surface height	290 mm	11.5 inches	
Weight	50 kg	110 pounds	
Electrical Characteristics			
Supply voltage (universal)	100-240 VAC	100-240 VAC	
Current (max.)	10 Amperes	10 Amperes	
Frequency	50-60 Hz	50-60 Hz	
Environmental Range			
Temperature (operating)	5°C to 35°C	40°F to 95°F	
Temperature (storage)	-20°C to 55°C	-4°F to 130°F	
Humidity (operating and storage)	10% to 85%	10% to 85%	Non-condensing

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