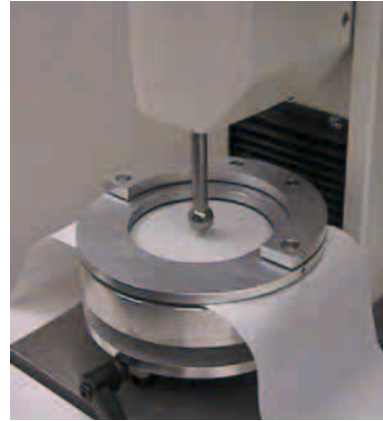


# Lab Master® Ball Burst Tester



*Meets new industry standards!*

## INTRODUCTION

The Lab Master® Ball Burst Tester measures Burst Force, Burst Strength and Burst Index with 0.1 gram resolution and 0.02% accuracy. Analyze penetration resistance (poke-through strength) of dry or wetted sample. Measure and control position with 0.1  $\mu\text{m}$  resolution and 0.2  $\mu\text{m}$  repeatability. Thousands of data points per test are used to generate force/distance curves that reveal material behavior during test.

## APPLICATIONS

Tissue, Nonwovens, Paper

## SPECIFICATIONS

- TAPPI T 570, ISO/FDIS 12625-9:2001  
CEN TC 172 (Proposed European Standard)

### Force

- Range & Resolution 2270 gf  $\times$  0.1 gf
- Measurement Accuracy  $\pm 0.5$  gf or 0.5% of reading
- Control Accuracy  $\pm 0.68$  gf steady state

## FEATURES

- User specifies force, position, speed 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
- Sample clamp included; pneumatic clamp optional
- 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.

## 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 13-90-00

## The TMI Group of Companies



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# Lab Master® Ball Burst Tester

## Specifications

### Force (tension and compression)

Maximum	±2.3 kg	±5.0 Lb	
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
	±0.5 g	±0.5 g	
Overload rating	150%	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
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### Number of repeat cycles

as required	as required
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### Data Acquisition rate

2 kHz	2 kHz
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### Display

TFT flat panel touch screen	300 mm	12 inch
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### 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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