

## digiBURST I Nx™

### INTRODUCTION

Textile fabrics having no particular direction cannot be tested for its strength on a tensile tester; a multidirectional force generated by hydrostatic pressure is applied on fabric to check the strength of that fabric, this phenomenon is called bursting strength testing. Paramount digiBURST I Nx™ is specially designed to perform the bursting strength testing of knitted fabrics; it can also be used for leather, paper & card Boards etc.

### EQUIPMENT

Paramount digiBURST I Nx™ has a sturdy body made of mild steel having a specially designed clamp to hold the fabric for bursting test. The upper clamping surface, which is in contact with the test specimen, has a continuous spiral groove and the lower clamping surface has a number of concentric grooves to minimize the slippage of specimen. A circular diaphragm of synthetic rubber of 1.8mm is clamped between the lower clamping plate & pressure cylinder.

The equipment is fitted with a motor driven cam mechanism, which increases fluid displacement on the lower side of the diaphragm at a specified rate. The equipment has an arrangement, which automatically brings down the pressure and stops the motor on completion of the test cycle. A digital, microprocessor-based control panel with digital display of peak value & zero setting option. The equipment is beautifully finished in Blue Metallic paint for modern aesthetics

### SALIENT FEATURES

- Specially designed equipment to determine bursting strength of knitted fabrics.
- Latest design with digital control panel.
- Maximum capacity 35 kgs.
- Glycerin used as test fluid.
- Smooth precision engineered components for excellent performance.
- Complete with all accessories including calibrated aluminum foil for calibration.
- Supplied with calibration & inspection certificates.

### **digiBURST I Nx™ is supplied complete with below accessories.**

Main Unit	: 01 No.
Synthetic Rubber Diaphragm	: 02 Nos.
Diaphragm Tightening wrench	: 01 No.
This User's Manual	: 01 No.
Calibration Certificate (Traceable to NPL)	: 01 No.
Inspection & Conformance Certificate	: 01 No.



### TECHNICAL DETAILS

Equipment Bursting Capacity	: 0 – 35 Kg/cm <sup>2</sup>
Opening in upper clamp	: 31.5 mm diameter
Opening in lower clamp	: 30.5 mm diameter
Rate of fluid displacement	: 95 cc/minute
Test fluid	: Glycerin about 98% purified
Glycerin Capacity	: 160 ml.
Glycerin Density (d 20° / 4°)	: 1.255 – 1.261
Geared Motor	: 1/4 HP, Motor
Pressure Sensor	: Pressure Transducer Sensor
Power Supply	: 220 Volt, 50 HZ AC
Dimensions of the Instrument	: 530 (L) x 430 (W) x 610 (H) mm 21" (W) x 17" (D) x 24" (H) Inch
Net Weight of the Instrument	: 85 Kg. (Approx.) (187 lbs)

### RELATED STANDARDS

BS	3424/3137
ASTM	3786 / ASTM D 774
ISO	2758/2559/3303/3689



Corporate Member



An ISO 14001 : 2004 Group  
We Care for our Environment !



Member : Bureau of Indian Standards