LABTRON

Tensile Tester

TP-B1 Series

Tensile Stiffness Tester TP-B10

Automatic Horizontal Tensile Tester TP-B11

Vertical Tensile Tester TP-B20

Automatic Horizontal Tensile Tester TP-B12

www.labtron.com info@labtron.com

Tensile Stiffness Tester TP-B10

Tensile Stiffness Tester TP-B10 is a used to measure the bending resistance (stiffness) of paper and paperboard. It is designed in accordance with working principle of international 'Static bending method', where the curvature of a vertical clamping specimen comes with free end, It can take the specimen to a certain bending angle when the resistance is the bending stiffness, and the unit is mN, resistance and test product of length will be in mN.m.

Features

- Incorporation of international static bending method design
- Measuring range (1-500) mN.m (divided into 7 small ranges)
- Sample size 38×70 mm
- Test speed ($200^0 \pm 20^0$)/ min

Applications

Tensile Stiffness Tester is used in paper & cardboard paper making industry, packaging industry to measure the stiffness of material.

Specification

Model no.	TP-B10
Sample (size) length	38 × 70 mm
Measuring range	(1-500) mN.m (divided into 7 small ranges)
Indication error	0.02
Test speed	(200° ± 20°)/ min
Dimension (L*W*H)	220 × 230 × 350 mm
Net weight	15 kg
Power supply	220 V ± 10 %, 50 Hz

Automatic Horizontal Tensile Tester TP-B11, TP-B12

Automatic horizontal tensile tester TP-B11, TP-B12 are adopted with pneumatic clamps to minimize the error by properly holding of the sample. With the advanced ARM technology, it has strong data processing functions. The large LCD touch screen interface makes it easy to operate the tester. Tensile tester can test tensile strength, tensile force, tensile energy absorption, fracture length, tensile index, 180^0 peel strength of paper, paperboard, plastic film & other non-metal materials.

Features

- Fully automatic or Semi-automatic sample loading
- Adopted with imported noiseless motor, with precise controls
- Large screen, display the tensile time, tensile strength, tensile curve
- Equipped with RS232 interface, connection to PC for data transfer
- Can get the measurement result directly
- Easy to obtain & print the statistical results like average value, standard deviation, variable coefficient
- High automation system with advanced parts
- Variable tensile size & speed

Applications

Tensile horizontal tester is used in paper, paperboard, plastic film & other non-metal materials industry to test tensile strength, tensile force, tensile energy absorption, fracture & other parameters.

Specifications

Model no.	TP-B11	TP-B12
Sample (size) length	90 to 200 mm	180 mm (180, 150, 100, 90, 50 mm adjustable)
Sample width	15 mm, 25 mm, 50mm	15 mm
Measuring range	0 to 30, 0 to 100 N, 0 to 300 N	0 to 30, 0 to 100 N, 0 to 300 N, 0 to 500 N, 0 to 1000 N
Accuracy	± 1 %	
Tensile strength velocity	1 to 399 mm/min (adjustable)	
Tensile return velocity	1 to 399 mm/min (adjustable)	
Sample loading	Full automatic to clamp the sample	Semi-automatic, can clamp the sample using hands
Clamp air pressure	0.4 to 0.6 MPa	nil
Dimension (L*W*H)	920 × 420 × 300 mm	800×270×200 mm
Weight	65 kg	40 kg
Power supply	AC220 V ± 10 % 50 H	

Vertical tensile tester TP-B20

Vertical tensile tester TP-B20 is microprocessor controlled adopted with vertical, many pillar structure. The clamp distance can be adjusted within the specified scope. Test directly for the normal size sample and can adjust sample length and measurement range as per the needs. It is used to test the tensile strength, tensile force, tensile energy absorption, fracture length, tensile index, 180^0 peel strength of paper, paperboard, plastic film & other non-metal materials.

Features

- Imported noiseless motor, with precise controls
- Large screen display with wide user interface
- Equipped with RS232 interface, connection to PC
- Easy to obtain & print the statistical results
- High automation system with messages processing & motion controls parts
- Multifunctional, flexible operation settings
- Protection against sudden power-off

Applications

Tensile horizontal tester is used in paper, paperboard, plastic film & other non-metal materials industry to test tensile strength, tensile force, tensile energy absorption, fracture & other parameters.

Specification

Model no.	TP-B20
Sample length	0 to 200 mm adjustable
Sample width	15 mm
Measurement range	0 to 30 N (tissue paper), 0 to 100 N,0 to 300 N, 0 to 500 N, 0 to 1000 N
Accuracy	± 1 %
Tensile strength velocity	1 to 399 mm/min (adjustable)
Tensile return velocity	1 to 399 mm/min (adjustable)
Dimension	450 × 550 × 120 mm
Weight	55 kg
Power supply	220 V ± 10 %, 50 Hz