

Tensile Measurement System for Breaking Strength Test

Model: BST-01

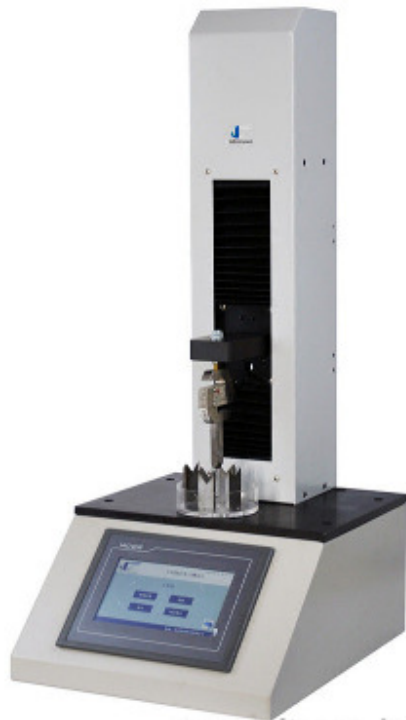


Figure 1.0: Tensile Measurement System for Breaking Strength Test

Equipment summary:

Tensile Breaking Strength Tester can be used to have the quantitative test of work-piece or sample on breaking strength.

A sample is place on the fixtures and the pressing head is driven down by the power system at the speed of 10 mm/m. The breaking strength is detected by the high precision load cell when the pressing head touches on the sample and breaks it.

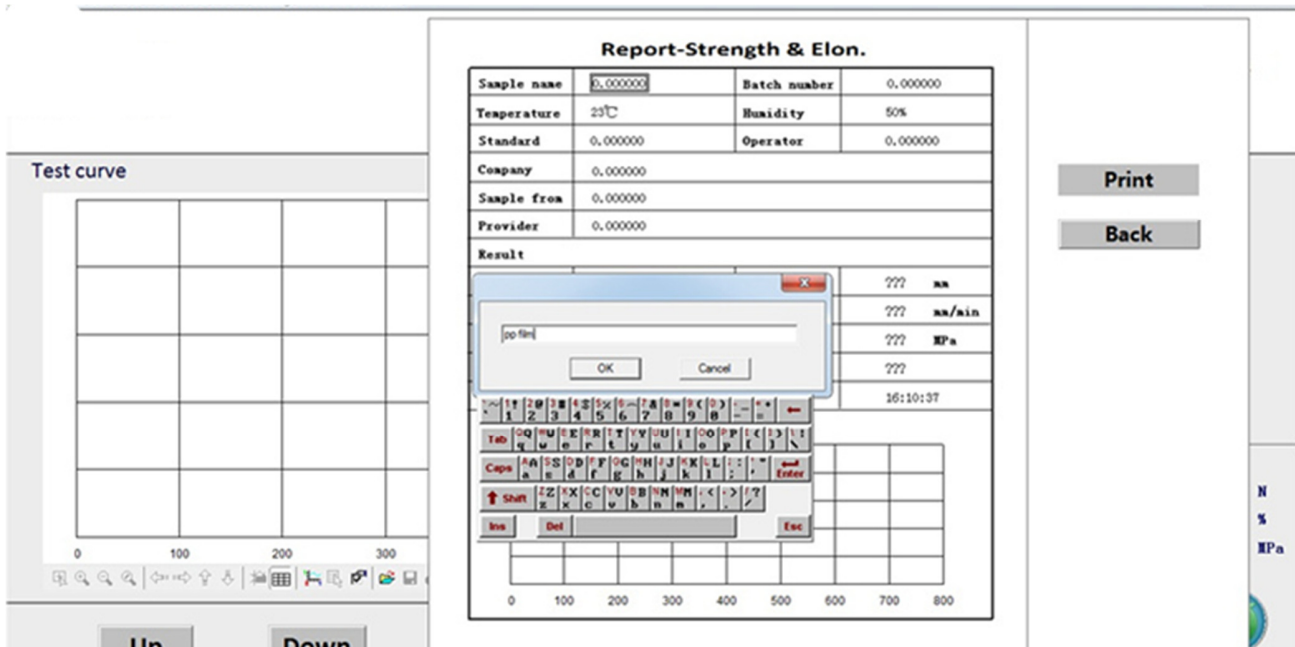
Features:

- 7 inch TFT touch screen operation and PLC control
- Precision ball screw for accurate speed and displacement.
- Different specifications of 1ml, 2ml, 5ml, 10ml, 20ml capacity test fixtures
- Test speed is adjustable
- Micro-printer for easy data output
- RS 232 and professional software (optional)
- Multiple fixtures available for other types of pulling and compression tests used in medical packaging
- Limiting device and automatic returning function

Technical Data:

Model	BST-01
Test Range	0-200N (20kgf)
Speed	10 mm/min (other speeds available) 10-500mm/min
Stroke	400 mm
Dimension	400mm (L) × 340mm (W) × 800mm (H)
Standard	DIN/ISO 9187,GB 2637, YBB00332002

Software Interface:



The screenshot displays the software interface for the BST-01 machine. A central window titled "Report-Strength & Elon." contains a data table with the following information:

Sample name	0.000000	Batch number	0.000000								
Temperature	23°C	Humidity	50%								
Standard	0.000000	Operator	0.000000								
Company	0.000000										
Sample from	0.000000										
Provider	0.000000										
Result	<table border="1"> <tr> <td>???</td> <td>mm</td> </tr> <tr> <td>???</td> <td>mm/min</td> </tr> <tr> <td>???</td> <td>MPa</td> </tr> <tr> <td>???</td> <td></td> </tr> </table>			???	mm	???	mm/min	???	MPa	???	
???	mm										
???	mm/min										
???	MPa										
???											

Below the table is a keyboard overlay with a file name input field containing "[p-p file]". To the right of the report window are "Print" and "Back" buttons. On the left, a "Test curve" window shows a grid with an x-axis from 0 to 300. At the bottom, there are "Up" and "Down" buttons.

1.0 Touch Screen Control Panel Interface:



TST-01 Tensile Tester



Test

Strength & Elong

Heat Seal Strength

Break & Elong

180 degree Peel

Tear Strength


90 degree Peel



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TST-01 Tensile Tester



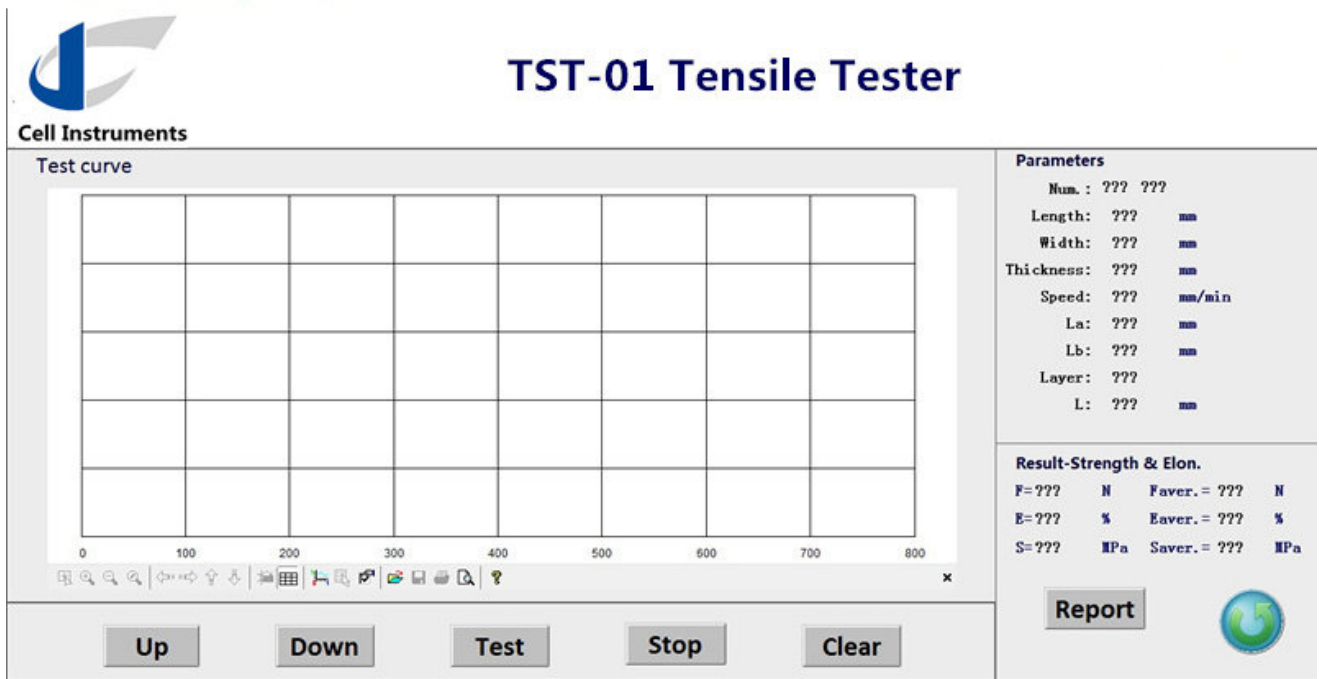
Parameter

Num.	<input style="width: 80%;" type="text" value="0"/>		Speed	<input style="width: 80%;" type="text" value="0"/>	mm/min
Length	<input style="width: 80%;" type="text" value="0"/>	mm	Width	<input style="width: 80%;" type="text" value="0.0"/>	mm
La	<input style="width: 80%;" type="text" value="0"/>	mm	Lb	<input style="width: 80%;" type="text" value="0"/>	mm
Thickness	<input style="width: 80%;" type="text" value="0.000"/>	mm	Layer	<input style="width: 80%;" type="text" value="0"/>	mm



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2.0 Touch Screen Control Panel Interface:



The screenshot displays the 'TST-01 Tensile Tester' interface. At the top left is the 'Cell Instruments' logo. The main area is divided into a 'Test curve' plot (a grid with x-axis from 0 to 800) and a 'Parameters' section on the right. The 'Parameters' section lists: Num.: ??? ??, Length: ??? mm, Width: ??? mm, Thickness: ??? mm, Speed: ??? mm/min, La: ??? mm, Lb: ??? mm, Layer: ???, and L: ??? mm. Below this is the 'Result-Strength & Elong.' section with fields for F=??? N, Faver.= ??? N, E=??? %, Eaver.= ??? %, S=??? MPa, and Saver.= ??? MPa. At the bottom are control buttons: Up, Down, Test, Stop, and Clear. A 'Report' button with a globe icon is located in the bottom right corner.