



MST-I Marshall Stability Tester

This instrument is designed and made as per industrial standard T0709-2011 and ASTM D6927 in TG E20-2011 Specification and Test Methods of Bitumen and Bituminous Mixture for Highway Engineering. It is used to do the Marshall stability test for bituminous materials.

I. Main features

1. This instrument has functions of parameters setting, measurement calibration, automatic test control, automatic data collection and timer. The control unit will collect the stability and flow value for sample and judge the peak value automatically.
2. LCD display shows the stability, flow value, curves, result and time. The test effect is intuitive .
3. 100 groups of test data and test time can be stored in the instrument and callout whenever needed. All procedures will be controlled automatically.
4. RS232 communication port. Realize the communication with upper computer. The data process, store, print and display can be controlled by a PC. Also the test procedures can be controlled by a PC.
5. This instrument also has functions for manual lifting, lowering and stopping. Convenient to use.

Note: Φ 100mm sample clamp is in standard accessory list for this instrument. Users can also select clamps as blow:

1. Sample clamp: Φ 150mm, one piece
2. Sample clamp: Φ 100mm and Φ 150mm, one for each.

II. Technical specifications

1	Maximum load	50KN
2	Measuring range	$\leq 40\text{kN}$
3	Measuring bias	$\leq \pm 0.1\text{kN}$
4	Overload protection	Automatically protect when load is over 39kN
5	Vertical deformation(flow value)	Range 0~20mm, bias $\leq \pm 0.05\text{mm}$
6	Lifting rate for pressure machine	$(50 \pm 5)\text{mm/min}$

7	Communication port	RS232
8	Power supply	AC220V±10%, 50Hz
9	Ambient temperature	0℃～60℃
10	Dimension	600mm×380mm×840mm
11	Motor power	AC(380±10%)V;16A;
12	Ambient temperature	550W
13	Net weigh	98KG

III.Optional accessories

- 1,Low temperature thermostatic water bath
- 2, Marshall electric compactor

IV.Package list

No.	Name	Unit	Qty
1	MST-I Marshall Stability Tester	Set	1
2	Pressure sensor (Installed in machine)	Set	1
3	Displacement sensor(Installed in machine)	Set	1

4	Power line	Piece	1
5	PC communication line	Piece	1
6	Hand crank	Piece	1
7	Printer (including regulated power supply)	Set	1
8	Operation manual	Piece	1