



Penetrometer



This instrument is designed and made as per T0604-2011 Penetration Test for Bituminous Materials in JTG E20-2011 Specification and Test Methods of Bitumen and Bituminous Mixture for Highway Engineering and ASTM D5 Standard Test Method for Penetration of Bituminous Materials. It is used to determine the penetration of pavement petroleum asphalt, modified asphalt, liquid petroleum asphalt and emulsified asphalt. It is also suitable to test solid particle, powder, colloid and raw-food materials such as cheese, glycine, butter, cream and leavening. It can be widely used in food industry, highway engineering and other industrial fields.

Model: PT-II

I.Main features

1. The needle holder is designed lovely. It can be moved vertically and adjusted roughly and finely without measurable friction.
2. It adopts novel heating design. The heating and temperature measuring appliance is separated from water bath. Easy to operate.
3. Equipped with automatic temperature controller and high accuracy temperature sensor, the temperature can be set conveniently and control precision is high.
4. It adopts newly designed digital meter. The measuring data is stable and reliable.

II.Technical specifications

1	Measurement range	(0~600) penetration scale
2	Resolution	0.01mm
3	Timing controller	5s or 60s, can be setted at will, bias within $\pm 0.1s$
4	Heating power	200W
5	Temperature control accuracy	$25^{\circ}\text{C} \pm 0.1^{\circ}\text{C}$ (Note: The ambient temperature shall not exceed 20°C)
6	Temperature control mode	High accuracy digital temperature controller

7	Constant temperature bath	Hard glass bath
8	Stirring	Automatically stirred by magnetic stirrer
9	Standard needle	2.5g±0.05g
10	Needle holder	It can be adjusted roughly and finely without measurable friction to make the tip aim the sample conveniently.
11	Power supply	AC (220±10%) V, 50Hz
12	Dimension	280mm×350mm×700mm