

Function

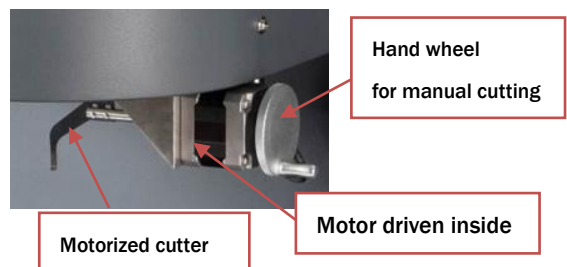
This type of melt flow indexer is a high precise melt testing instrument for the measurement of melt flow rate (MFR)/(MI) or melt volume rate (MVR) in quality control and research applications. The testing result can distinguish the viscous flow performance of thermoplastic material by the model MFI452 showing its advantage in the following industries: factories, products quality testing station, scientific and research institutes, and concerned industries.

Standards

ISO1133, ASTM D1238, ASTM D3364, BS2782, DIN53735, JIS K7210

Features

- Two digital display control panels with membrane covered buttons, comfortable touching, intuitive operating and real-time data displaying.
- Test method (MFR/MVR) can be pre-selected by the control panel, and test can be conducted automatically as preset program. And there is a friendly prompt by hum to alarm the coming end of each test step in the whole test process.
- The AL808 temperature control system is configured with two groups of platinum resistor temperature transducers and one group of the two is used as spare part which makes a high reliability. And the PID algorithm is used to adjust the temperature and compensate the influence of temperature caused by the environment or undulation of power to ensure a good stability.
- Automatic cut-off device, driven by motor, small size, good flexibility. It can carry out the automatic timing cut-off, jog cut-off and manual cut-off as the need of the customers.
- Built-in micro-printer. When the Test is completed, the results will be printed on scrip clearly only by pressing on the "Print" button.
- The displacement of the piston rod is exactly measured by the infrared sensor.
- The piston rod and the filling canister are all made of nitriding steel with high rigidity and strong corrosion resistance.
- A set of elaborately designed accessories to provide a convenient operation and maintenance.



Specifications

Model		MFI452
Temperature range	°C	100~450
Temperature accuracy	°C	±0.5
Temperature variation in 4 hours	°C	≤0.5
Temperature variation with distance at between 10 mm and 50 mm above the die surface	°C	≤1
Temperature Resolution	°C	0.1
Interval of temperature recovering after changing testing samples	minute	≤4
Timing range	second	0~6000
Resolution of timing	second	0.1~1
Inner diameter of die	mm	Φ2.095±0.005
Inner diameter of filling canister	mm	Φ9.550±0.025
Weights accuracy		≤±0.5%
Standard weights	g	875,960,1200,1640
Possible Combination of the Standard Weights	g	325, 1200, 2160, 3800, 5000
Measurement range	g/10min	0.1~100
Dimension	mm	550×430×730
Power Supply		220V±10%, AC, 50HZ, 3A
Weight	kg	65
Cut-off device		Automatic/Jog/Manual cut-off

Standard Accessories

Remark	Quantity
Main machine (with built-in control panel, micro-printer, cylinder heater, cutting knife)	1 set
Piston Rod (with a stud, a piston guide)	1 set
Standard die of Φ2.095±0.005mm	1 set
T-Shape Weights tray	1 set
Weights of 875g, 960g, 1200g, 1640g	1 set for each
Die clean rod, cylinder Clean Rod, packing rod, filling funnel, feeder, wooden handle knife, cut-off blade for spare use	1 set for each

Test Load

Load (g)	Combination of dead weight (g)
325	T-shape weight tray and the weight of piston
1200	325+875
2160	325+875+960
3800	325+875+960+1640
5000	325+875+960+1640+1200
10000	325+875+960+1640+1200+2500+2500
21600	325+875+960+1640+1200+1600+2500+2500+2500+2500+2500+2500

Packing information

Crated dimension (Length x Width x Height)	70x58x89 cm
Crated weight	67kg