

## Melt Index Measuring Instrument

JH-450 series melt flow rate meter is mainly used for the analysis and research of melt flow rate of thermoplastics under certain conditions. Melt flow rate of thermoplastics (melt index) refers to the plastic at a certain temperature and load, melt every 10 minutes through the standard die mass, expressed by MFR (MI) value, which can distinguish thermoplastics in the molten state of the viscous flow characteristics. The test is of great significance to the quality assurance of raw materials and products of thermoplastics and chemical fiber.

### 1. Melt Index Measuring Instrument Introduction

Shanghai Jiahang JH-450A Melt Index Measuring Instrument is fully in line with ASTM D 1238 standard, and improved and upgraded to facilitate the test of high flow instant fat meter, especially suitable for the melt-blown material PP (polypropylene), polyethylene and other materials test.

Meet the quality standards:

ISO 1133-2011, ASTM D1238-13, GB/T 3682-2018, JJG878-1994 (2005), JB/T5456-2005

### 2. Melt Index Measuring Instrument Parameter

model	JH-450A
advantage	Can measure products with fast flow rate, with membrane plug
Measurement methods	Mass method Volume method
Display method	LCD color touch screen
Timekeeping accuracy	0.01S
Cutting method	Manual / Auto
Measuring range	(0.1-2000)g/10min
Recovery Time	≤2min
Result output	Mini printer
power supply	220V,50HZ
Extrusion part	
Inner diameter of discharge port (die)	$\phi 2.095 \pm 0.005\text{mm}$
Length of outlet (die)	$8.000 \pm 0.025\text{mm}$
Inner diameter of charging barrel	$\phi 9.550 \pm 0.007\text{mm}$
Length of charging barrel	152mm
Piston rod head diameter	$\phi 9.474 \pm 0.007\text{mm}$

Piston rod head length	6.350±0.100mm
Piston displacement indication error	±0.01mm
Load part: the standard test force is eight grades, the relative error of the test load is ≤0.5%, and the mirror plating standard is adopted	
Level 1	0.325kg=(piston rod+weight tray+heat insulation sleeve+1 weight body)
level 2	1.200 kg=(0.325+0.875 weight No. 2)
Level 3:	2.160 kg=(0.325+No. 3 1.835 weight)
level 4:	3.800 kg=(0.325+No. 4 3.475 weight)
Level 5:	5.000 kg=(0.325+No. 5 4.675 weight)
Level 6:	10.000 kg = (0.325 + No. 5 4.675 weight + No. 6 5.000 weight)
Level 7:	12.500 kg = (0.325 + No. 5 4.675 weight + No. 6 5.000 + No. 7 2.500 weight)
Level 8:	21.600 kg=(0.325+No.2 0.875+No.3 1.835+No.4 3.475+No.5 4.675+No.6 5.000+No.7 2.500+No.8 2.915 weights)
Barrel temperature	
Barrel temperature range	The temperature control point can be set arbitrarily within the range of 50.0℃~450.0℃
Adopt intelligent PID adjustment	Reach temperature control point and keep constant temperature in a short time
Constant temperature accuracy	±0.2℃
Temperature control gradient (℃):	≤±0.5℃ (10mm above the die)
Temperature resolution	0.01℃

### 3. Melt Index Measuring Instrument Feature And Application

1. The equipment adopts PID intelligent temperature control with high temperature control accuracy, which can ensure that the temperature at the upper 10 mm of the inner die of the cylinder is within ±0.5℃.
2. After packing, can quickly restore the constant temperature state

3. Nitriding processing of key parts, high strength, hardness, small deformation characteristics and ensure the accuracy and stability of the measured data.

4. The heating speed is fast, the instrument heater adopts special spring heating ring of hot runner, and its main material is imported nickel chromium wire alloy. Compared with the traditional heater, the dry burning ability is stronger, the power is higher, the heating uniformity is better, the service life is long, and the instrument can work for a long time at high temperature 450°C.

5. The instrument is heated by voltage regulating module, which can adjust the voltage and power in a full range. Compared with the traditional solid-state relay on-off control, the heating is more stable and rapid, so that the constant temperature can be quickly restored after packing.

6. The instrument adopts custom-made armored platinum resistance temperature sensor, the accuracy is the highest grade A, the accuracy is within 0.1°C, compared with the traditional sensor, has the characteristics of impact resistance, corrosion resistance, vibration resistance and can be bending at will, the service life is longer, can ensure the instrument in 450°C the highest temperature environment for A long time.

#### 4. Product Qualification

Jiahang Melt Index Measuring Instrument has obtained CE certification, TART certification, ISO quality management system certification, more than 10 software copyrights and multiple patents to ensure that each instrument has stable performance and excellent quality.

#### 5. Deliver, Shipping And Serving

We have a top R&D team returned from Europe and America, cooperate with our superb manufacturing team, professional sales team and dedicated service team, working together to provide customers with high-tech, high-quality products and efficient, convenient, Comprehensive pre-sales and after-sales professional services.

#### 6. FAQ

##### **How many years have your company made Melt Index Measuring Instrument ?**

22 years of scientific instrument manufacturer, laboratory solution provider!

##### **Which certificate do you have for your products?**

Jiahang has obtained CE certification, TART certification, ISO quality management system certification, more than 10 software copyrights and multiple patents to ensure that each instrument has stable performance and excellent quality.

##### **Will you will attend the fair to show your products?**

Yes, Every year we will participate in some internationally renowned exhibitions to launch our new products, such as Arablab, PICCTON, Analytica Russia, Lab Africa, Analytica Germany, Analytica Latin America and so on, we are looking forward to your visit.

### **How about your company's R&D strength**

Possess strong R&D technical capabilities (a R&D team of more than 20 people, with an average degree of doctorate degree, graduated from well-known universities at home and abroad, with an average work experience of 8 years), able to deal with and solve product-related technical problems

### **If OEM is acceptable?**

Provide OEM customization service, product built-in software has autonomy, can customize development settings

### **Are you a trading company or a manufacturer?**

100% manufacturer, no middlemen and distributors make the price difference, the price of the source factory is very advantageous; Jiahang is headquartered in Shanghai, China, has 15 service outlets and 2 production plants in China, and has sales in more than 10 countries overseas proxy.

### **How about your delivery time?**

"Generally, it will take 7 to 15 working days after receiving your advance payment. Depend on the quantity."

### **Which payment can be acceptable ?**

We could accept the payment by L/C, TF, Paypal , Western Union,etc.

### **Service**

We could provide Online instruction ; Real-time support by video-ca or voice-chat.

Any customer who cooperates for the first time promises to provide a production cost price trial opportunity to solve your worries about product quality problems.

Provide official product quality assurance documents that comply with legal benefits to escort you with worry-free after-sales service.