

Thermo Scientific HAAKE MeltFlow indexers are ideal for injection molding companies to be used for incoming or outgoing quality control of polymers.

Thermo Scientific HAAKE MeltFlow MT



Benefits:

- Easy and safe handling
- Highest quality
- World wide service
- Optional automatic cutter
- Very good price/performance ratio

Features:

- Two heating zones for exact temperature control
- Quick release die lock for easy removal of the dies
- Tungsten carbide dies
- Table top instrument
- Small footprint (30 x 25 cm)

Superior standards and technology

Thermo Scientific HAAKE MeltFlow indexers comply with the ISO 1133, ASTM D 1238, ASTM D 3364, JIS K 7210 and referring standards. Based on a compact design the HAAKE MeltFlow MT is the ideal table top instrument for small labs and infrequent use in a quality control environment. Temperature stability and temperature uniformity (over the barrel length) are superior to these standards!

MVR and MFR measurements

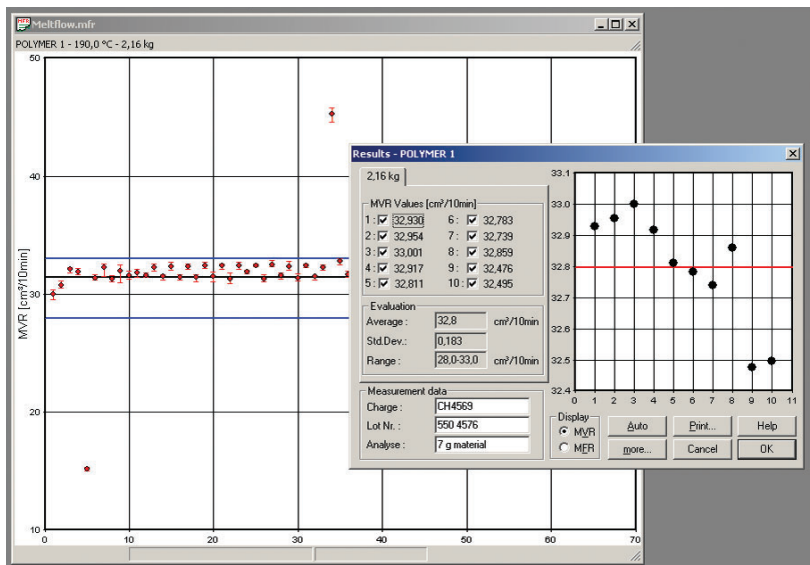
Equipped with a digital displacement sensor the HAAKE MeltFlow MT measures the melt volume rate (MVR) semi automatically. The HAAKE Meltflow MT can also measure the meltflow rate (MFR) semi-automatically with software controlled balance.

Rheological measurements

Using the Thermo Scientific HAAKE MeltFlow software the HAAKE MeltFlow MT can automatically measure apparent viscosity datas (shear rate, viscosity, shear stress).

Options

- Manual and automatic cutter
- Pneumatic cleaning device for convenient cleaning of the barrel
- Available standard weights: 1.2 kg, 2.16 kg, 3.8 kg, 5 kg, 10 kg and 21.6 kg
- Measuring devices to check the diameter of the dies and barrel
- Thermometer for temperature calibration of the barrel
- Replacement tungsten carbide dies
- Cleaning tools
- Reference material



Melt index evaluation

Software

The HAAKE MeltFlow software is a project based software for the complete range of HAAKE MeltFlow indexers. It is designed for easy operation and includes all the tools necessary for performing melt flow index measurements and more.

- Wizard for setting up measurements according to ISO and ASTM standards.
- Easy identification and marking of outliers in both graphs and tables using the mouse. Outliers are also easily excluded from further data analysis.
- User manager with password protection and 3 user-levels.
- Compatible with Windows 95, 98, Me, NT4.0, 2000, XP and Vista.

- Integrated statistical analysis, calculation of mean values and standard deviation.
- Automated MFR measurement by means of integrated automatic control of cutter and balance and subsequent calculation of melt density, apparent shear rate and viscosity.
- Data export in Microsoft ACCESS and ASCII format.
- Extensive on-line help
- IV-calculation for PET
- Flexible LIMS-integration

Technical Specifications

Standards	ISO 1133, ASTM D.1238 and referring standards
Temperature range	Ambient – 350°C
Temperature control	2 microprocessors controlled PID regulators with Auto Tuning
Sensors	2 Thermocouples Type K
Heating zones	2
Temperature stability	+/- 0.1°C
Temperature uniformity	+/- 0.5°C
Barrel diameter	9.55 mm +/- 0.0025 mm
Barrel length	162.0 mm
Material Barrel:	
Stainless Steel (hardened)	Yes
Inconel (chemical resistant)	Option
Material Piston:	
Stainless Steel (hardened)	Yes
Inconel (chemical resistant)	Option
Material Die:	Tungsten carbide
Length measurement	Flag and optical sensor
Length/Increment	5 mm +/- 0.01mm
Measurement range (default 30 mm)	5, 10, 15, 20, 25, 30 mm
Results displayed on the instrument	Software - 6 /test
Operation	Manual & semi-automatic
Cutter (Option)	Automatic
Quick die release	Yes
Weights (force)	0.325 kg, 1.2 kg, 2.16 kg, 3.8 kg, 5.0 kg, 10.0 kg, 21.6 kg (+/-0.5%) – special weights on request
Different weights per Test	1
Software with statistics	Yes
Test methods:	
MFR measurements	Yes - autoweighing with balance (1)
MVR calculation	Yes
MFR measurements	Yes
MFR calculation	Yes
Melt density	Yes
Viscosity	Yes
Shear rate	Yes
Weight	15 kg
Size W x D x H	300 x 250 x 500 mm
Power requirements	230 V, 50 Hz / 110 V, 60 Hz
(1) Software required	

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