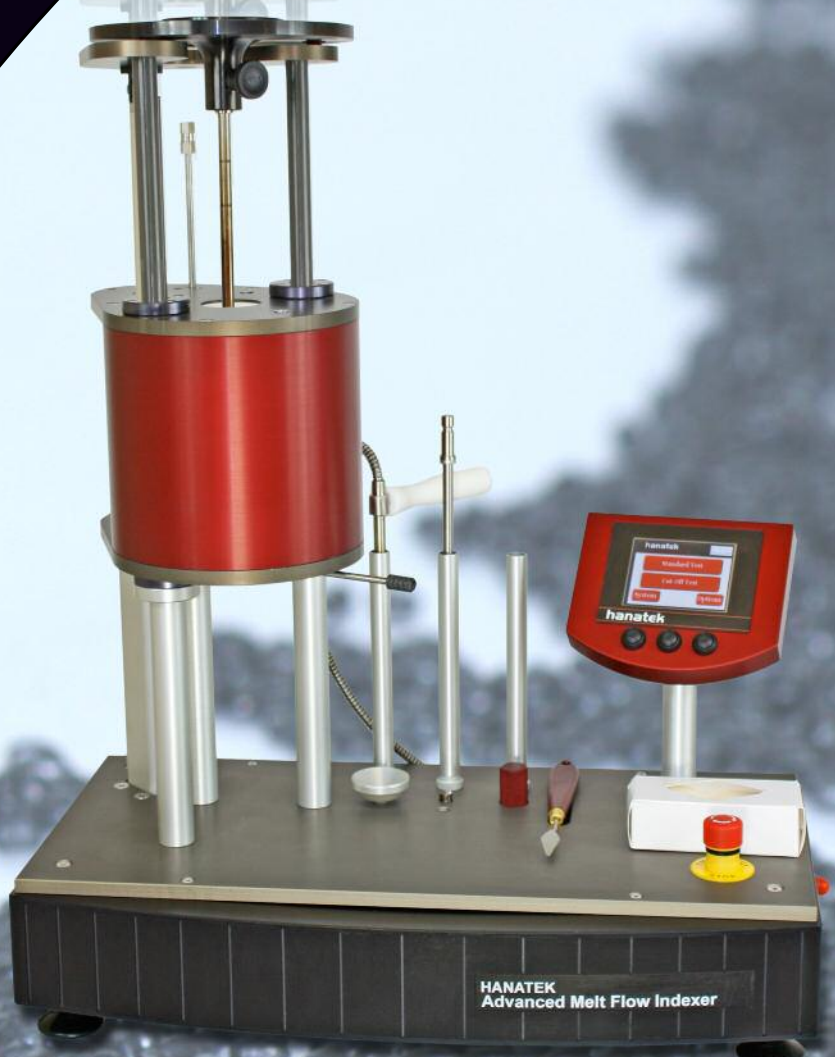
HANATEK
INSTRUMENTS



www.hanatekinstruments.com

HANATEK MFI

MELT FLOW INDEXER

- Precise Measurement
- Fully Automated
- User Certifiable
- Operator Safe

Hanatek products are exclusively manufactured and distributed by RHOPOINT INSTRUMENTS

MFI Melt Flow Indexer

ACCURATE INSTRUMENT • REPEATABLE MEASUREMENT

The Hanatek MFI is used to accurately measure the melt characteristics of thermoplastic polymers.

Understanding melt flow is a key indicator for producers, processors and converters of plastic materials as it dictates the temperatures and pressures required to manufacture consistent quality products.

PRECISE MEASUREMENT

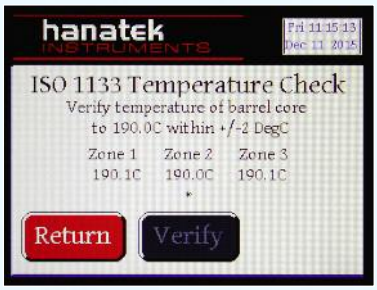
Tri-Zone Barrel Heating and Control

Stable and accurate temperature is maintained across the entire barrel length ensuring exact compliance to all international standards.

Temperature Monitor and Control

The included barrel temperature monitor ensures that every test is made to exact temperature specifications. Deviations in measurement can be quickly identified and fine tuning of the barrel can be actioned.

WHY IS THIS IMPORTANT? Almost 80% of MFI in current use have temperature variations of up to 20°C across the barrel*, leading to inaccurate test results and potential raw material failures.



Accurate Results

The piston travel sensor accurately reports the flow rate of the polymer throughout the test.

*Source Hanatek calibration survey 2010

Test Types

- MFI/MFR
- Melt volume rate
- Melt density
- Shear stress/rate
- Melt viscosity
- Spread values

REPEATABLE MEASUREMENT • EASY TO USE

FULLY AUTOMATED

Automatic Testing

With automatic weight control and displacement sensor every test is fully motorised; no user intervention is required to start tests or monitor conditioning times.

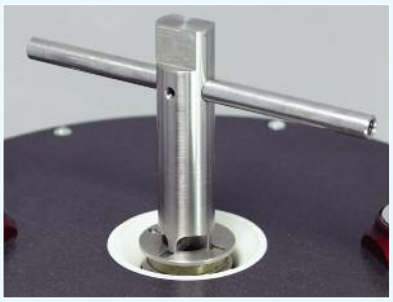
Automatic Calculation

Touch screen control with pre-loaded test routines for MFI / MFR / MVR / melt density / shear rate / stress / melt viscosity / spread values. Automatic calculation of results for every polymer eliminating operator associated errors.

User Changeable Barrel Core

This feature eliminates the high cost and inconvenience of an offsite repair due to barrel damage.

A replacement barrel can be fitted to the Hanatek MFI at any time to ensure the instrument fully complies to international standards.



USER CERTIFIABLE

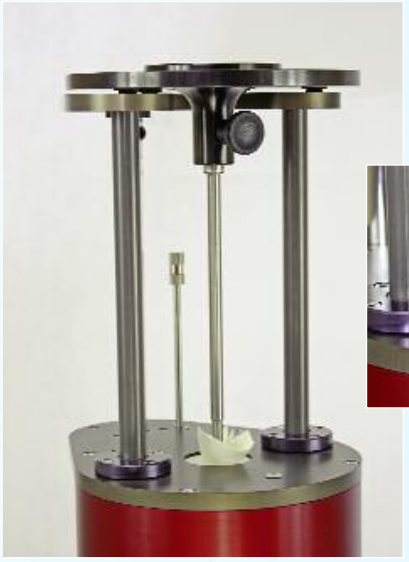
UKAS Certified Calibration Kit

The Hanatek MFI can be annually serviced by the user whilst maintaining full UKAS/ISO 17025 certification, eliminating the cost of an onsite calibration service or return to manufacturer calibration.

OPERATOR SAFE

Automatic Cleaning Cycle

An automated cleaning process minimises the risk of contact with hot apparatus whilst completely eliminating the risk of RSI injury.



MFI Melt Flow Indexer

MFI SPECIFICATION

Standards	ISO 1133, ASTM D1238 (Part A, B & C), BS 2782
Range	40 – 400°C
Resolution	0.1°C
Accuracy	0.2°C
Power	120V/230V; 50Hz/60Hz
Weight	14kg
Dimensions	(H)500mm x (W)350mm x (D)242mm
Packed weight	15.5kg
Packed dimensions	(H)530mm x (W)430mm x (D)430mm
Commodity code	9026 1029

TEMPERATURE PROBE SPEC

Measurement	3 x PT 100 Sensors
Range	0 – 500°C
Accuracy	0.1°C
Calibration	UKAS / ISO 17025

INCLUDED ACCESSORIES

- Temperature probe
- Die
- Piston
- Barrel core
- Die cleaning tool
- Die retainer
- Cleaning probe
- Filling funnel
- 2.16kg weight
- Cleaning patches
- Heat resistant gloves

OPTIONAL ACCESSORIES

- Test weights, range: 5 – 21.6kg
- Results printer

UKAS Certified re-calibration kit

- Barrel core
- Barrel changing tool
- Die (2.095mm diameter)
- Temperature calibration probe
- Calibration activation code
- Piston

ORDER CODES

MFI 240V: HAN-A4050MFI

MFI 115V: HAN-A4050MFI/115V

Cert ficate no: FS 695372
ISO 9001:2015

Calibrated Accessories and Calibration Kits supplied by Rhopoint Metrology Limited (Calibration Laboratory No. 0720) and traceable to UKAS

LOCAL AGENT

HANATEK INSTRUMENTS

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