



Rheology Solutions

Rheology Solutions is the sole Australian distributor of this product range and we welcome the opportunity of discussing your application requirements.

*We hope the information you are seeking is contained within this file.
If you have any questions, or require further information please contact us.
We look forward to being of further service.*

Regards from the Team at Rheology Solutions.

RHEOLOGY SOLUTIONS PTY LTD. ACN 082 479 632

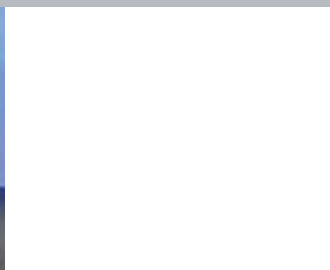
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The Sample Sizer module for the Thermo Scientific HAAKE PolyLab systems allows you to picture an integrated polymer test workflow from compounding to final material testing. In combination with a HAAKE PolyLab extruder system, polymer mixtures can be directly converted after compounding to solid and geometrically well-defined test specimen profiles.

Thermo Scientific Sample Sizer

A module for the Thermo Scientific HAAKE PolyLab extruder systems



Benefits:

- **Integrated solution:** shaping – calibration – conveying – cutting
- **Fast automated sample generation**
- **Quick material change**
- **Easy & safe to use**

Features:

- **Plug & play module for HAAKE PolyLab extruder systems**
- **Polymer test specimen production**
- **Exchangeable vacuum calibration device with water cooling**
- **Clamp-shell die design**
- **Adjustable take-off speed**
- **Programmable sample lengths**
- **Integrated cutter**

Applications:

- **Compounding (PVC, Polyolefines and others)**
- **Sample preparation**
- **Screening tests for additives and mixtures**
- **Physical and chemical testings**

Integrated workflow for product development

The Thermo Scientific Sample Sizer module for the HAAKE PolyLab systems enables the user to set up a highly flexible compounding experimental setup. Polymer mixture, additive amounts and any extrusion parameters can be changed without stopping the experiment. The Sample Sizer, powered by IDE Extrusion, delivers continuously well-defined polymer profiles that are precisely assigned to certain process conditions. These specimens can be used for further chemical, mechanical or optical testing.

Precise control

The polymer melt volume flow is dependent on typical extrusion parameters like feeding rate and extruder speed that can be controlled easily with the Thermo Scientific

HAAKE PolySoft extruder software. The user can access 10 programs for the definition of individual process conditions, e.g. length and number of profiles. All process and production parameters are shown on a LCD display. The haul-off speed and profile production parameters can be adjusted with a separate unit from Bernhard Ide GmbH & Co. KG, Ostfildern/Germany – the ME-Control 10/2 unit.

Flexible operation

The Sample Sizer module is designed to allow easy access and quick material change. Both the extrusion die and calibration unit exhibit horizontally split barrels. Quick release clamps give easy access to channels and process contact surfaces for cleaning or configuration changes such as product changeover.

Specifications	Sample Sizer module for the HAAKE PolyLab Systems
Dimensions L x W x H	1200 x 960 x 1800 mm
Weight	450 Kg
Max. haul-off speed	1,0 m / min
Max. cutting rate	60 cuts / min
Max. profile dimensions W x H	Ø 30 mm, 40 x 15 mm, 50 mm ²
Electrical connection	400 V / 50 Hz / 3 ph + N + PE / 35 A
Vacuum pump	3 KW
Water connections	4
Vacuum connections	4
Air pressure connections	1/4" , 6 bar
Water inlet	3/4", 4 bar
Water outlet	Ø 75 mm
Noise level	75 dB (A)



Customer Support

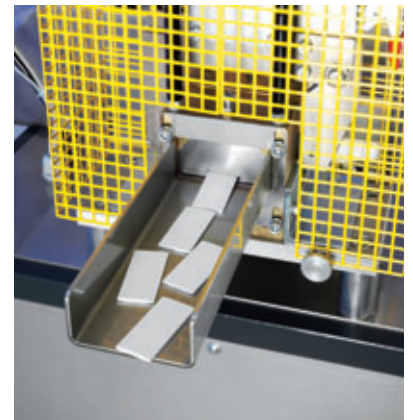
The Thermo Scientific All-You-Need service system is customer-centered and covers every type of service. We also offer customized service solutions that meet specific regulations such as IQ/OQ support. Our service and applications experts are always on call, worldwide, to assist you in protecting your investment. Visit www.thermo.com/mc_service for more detailed information. And then phone your Thermo Fisher Scientific sales representative to arrange for free service assessment.

Measurements according to approved standards

Depending on the haul-off speed and the cutting frequency, the lengths of the Sample Sizer profiles can be adjusted individually. The maximum profile size of the test specimen is 40 x 15 mm (W x H) and the maximum diameter for tubes 30 mm.

These profiles can be used and adjusted for typical material tests, e.g.:

- Tensile tests ISO 527
- Impact resistance ISO 179 etc.
- Bending test ISO 178
- Four-point bending test ISO 53457
- Heat resistance ISO 75-2
- Gloss assessment DIN 67530
- Rheology/Torsional/DMTA



For information on the ME-Control 10/2 unit please contact:
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