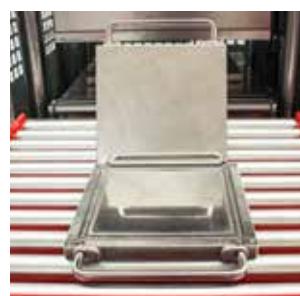
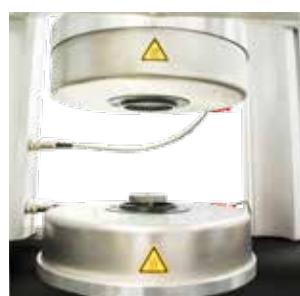
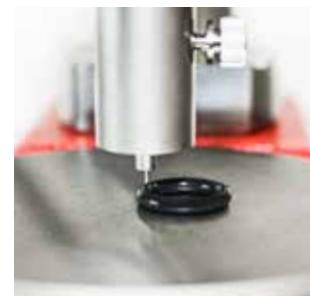
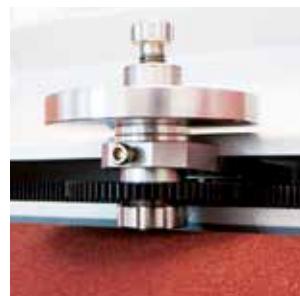
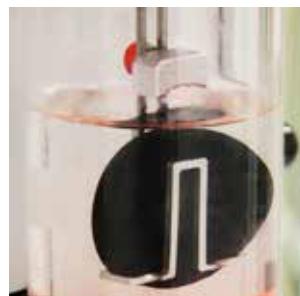


Density



**INNOVATIONS IN
RUBBER TESTING**



MonTech DM 3000

Semi-Automatic Densimeter

Densimeter for testing of individual samples with automatically guided test sequence and precision weighing system

The MonTech DM 3000 is a semi automated Densimeter. The compact instruments is designed for rapid and accurate determination of specific gravity - with a simplified, software guided operation up to 4 tests per minute can be performed.

The Densimeter utilizes the hydro-static method by comparing the weight of the sample in air as well as in an immersion liquid. For optimum test results for different types and shapes of samples a wide variety of sample holders are available (e.g. basket, needle, wire, pellet, clip, ...).

The operator simply hangs the sample from the balance and pushes the start button.

A intergrated precision scale then weighs the sample in air, automatically raises a beaker with the immersion liquid, takes the weight of the sample in the immersion liquid and lowers the beaker. This whole process is software guided and once the procedure is completed the density is displayed. Additionally the sample weight in air, weight in water, and the weight difference are also recorded and reported.



Technical specification

Measurement method	Hydro-static weighing method
Measured data	Density, Mass change, Volume change
Weighing range	0.000 to 420 grams (0.0 to 160.0 grams with optional 0.1mg resolution)
Sample weight (typ.)	1.000 to 50.000 grams
Density range	0.50 – 10.00 g/cm ³ (lower density range possible with anti-float or needle holder)
International standards	Rubber: ISO 1817, ISO 2781, ISO 4649, BS 903, EN 681-1 ASTM D 297, ASTM D 471, ASTM D 5963 Plastics: ISO 1183-1, ASTM D 792 Hoses: ISO 7840 Cellular foams ISO 6916-1, ISO 6916-2, ASTM D 1056, ASTM D 3574
Resolution	1 Milligram (optional 0.1mg) / 0.00001 g/cm ³
Repeatability	Better than ± 0.020%
Output interfaces	Serial (RS232), USB 2.0 optional
Dimensions (H x W x D)	565 (765) mm x 250 mm x 480 mm
Weight	approx. 23 kg net
Electrical	90-250 V, 2 Amps, 47-63 Hz, Single phase
Options	- Various sample holders (Basket, Needle, Wire Pellet, Clip, ...) - Anti-float bracket - Variable dipping speed - Auto correction of water density (temperature sensor installed in beaker) - Spare standard or double wall beaker - Digital clip-on thermometer - Temperature control kit (+5 to +80°C) according ISO 1183-1 (includes double wall beaker, silicone hoses, external chiller system with fluid)

Features:

Ease of Maintenance

- Snap-in Components
- Simple and rugged mechanics

Ease of Use

- Single Button Operation
- Guided operation sequence
- Fully automated calibration
- LED workroom lights

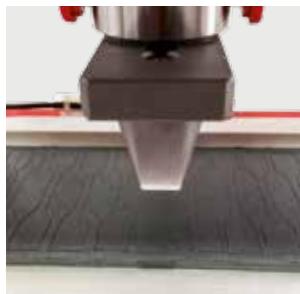
Applicable Data Measurement

- Density
- Volume change

Scope of delivery:

- DM 3000 Densimeter main unit
- Standard glass beaker
- Integrated electronic lift device
- Basket sample holder for solid samples
- Glass safety shields and sliding doors
- MonLink Software for Density measurement
- Instruction Manual and calibration certificate
- Standard accessories, cables

Rubber Testing Solutions



MonTech
Werkstoffprüfmaschinen GmbH
Carl - Benz - Straße 11
D - 74722 Buchen / Germany

Phone: +49 (0)6281 562230
Fax: +49 (0)6281 562255
info@rubber-testing.com
www.rubber-testing.com

