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MonTech®
Rubber Testing Solutions

TECHNICAL SPECIFICATION

International standards	ISO 13145, ISO 6502, ASTM D 5289, ASTM D 6204, ASTM D 6601, ASTM D 6048, ASTM D 7050, ASTM D 7605, DIN 53529
Die configuration	Biconical, closed die system, sealed
Drive system	Advanced wearless servo drive system with ceramic bearings
Oscillation frequency	0.001 Hz to 100 Hz (0.05 to 6000 cpm)
Oscillation strain	+/- 0.0001° to 360° (+/- 0.0014% to 5032%)
Temperature range	Ambient to 232 °C
Measured Data	Torque, temperature, frequency, strain; Optional: Normal force, die gap, die pressure
Calculated Data	S´, S˝, S*, G´, G˝, G*, tan δ, phase angle, cure speed, η´, η˝, η*, ...
Die gap	0.45 mm nominal, variable die gap and closing force optional
Sample volume	approx. 4.5 cm^3

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Sample volume	approx. 4.5 cm^3
Closing system	Soft closing to prevent foil rips and damage of test samples, optionally variable closing force and die gap
Torque range	0.0001 to 250 dNm
Normal force / Pressure (opt.)	0 to 10,000 kPa (1.450 lbin), Auto tare
Temperature check system	Recordings of the temperature gradient on the screen, microprocessor monitored
Subroutines	Isothermal, Non-Isothermal, Timed, Temperature Sweep, Strain Sweep, Frequency Sweep, Shear rate Sweep, Relaxation, Retardation, Hysteresis, Tension tests, LAOS, ...
Data Interface	Ethernet (10/100 MBit), USB (int.), CF card (int.), RS232 (opt.)
Data points	Over 3500 data points available for each static subtest Including S‘ Min, S‘ Max, TS 1, TS 2, TC 10, TC 30, TC 50, TC 90 Integrated, automatic reporting features for dynamic tests
Pneumatics	min. 4.5 Bar / 60 psi
Electrical	200 V - 240 V, 6 Amps, 50/60 Hz