

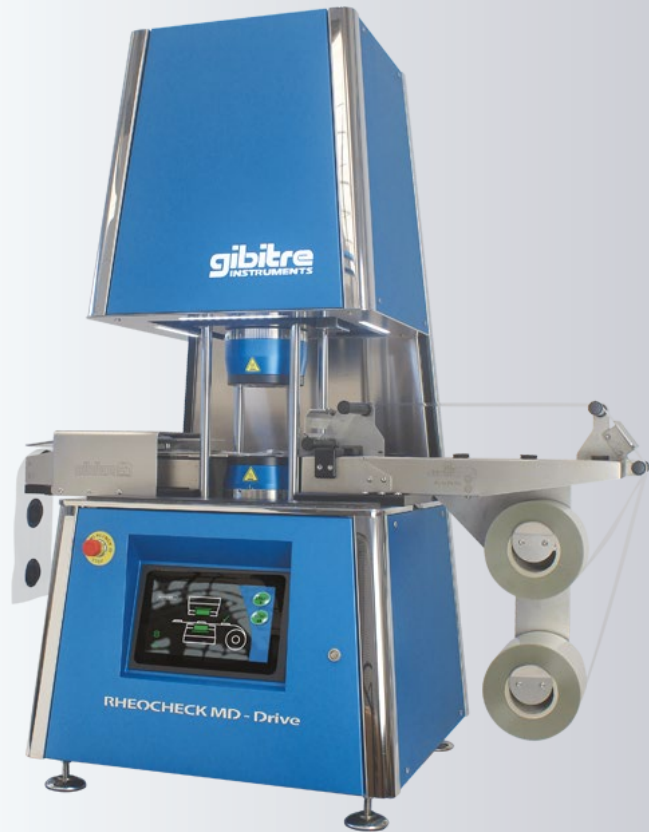


# RHEOCHECK MD - DRIVE

**MOVING DIE RHEOMETER CONTROLLED BY PERSONAL COMPUTER.**

STANDARDS: ASTM D5289; ISO 6502-1; ISO 6502-3;

NOTE: COMPLIANCE WITH SOME STANDARDS MAY REQUIRE OPTIONAL ACCESSORIES OR SETUPS.



Gibitre MD Rheometer measures the cure characteristics of a rubber compound in conformity with the international standards. The measure of the vulcanization is carried out by measuring the modification in the mechanical characteristics of the sample. The instrument permits to apply a cyclic strain to a test piece and to measure the associated force. The test is performed at a defined temperature and the measure of stiffness recorded continuously as a function of time.

### Key Features

- Biconical, closed die system, sealed testing

chamber

- Top brand Torque sensor positioned in the upper test chamber
- Exclusive construction for the micrometric adjustment of the gap between the dies
- Independent PID temperature controllers with 0.1°C resolution
- Compressed air cooling circuit for rapid temperature reduction
- Touch-screen display for instrument control
- Light panel to check the status of the instrument from a distance

- Transparent protection panel with safety sensor
- Full license of Rheocheck\_10 software optimized for Bar-code sample identification
- Full license of Datagest software for complete management of Gibitre SQL Database
- Fume extraction predisposition
- CE label

### Accessories

- Automatic sample loader.
- Pressure sensor for testing of cellular rubber.
- Constant Volume Sample Cutter.

**Numerical Test Data:** Torque Values: MI, ML, M90, MX, MH, PCR S\* @ML, S\* @MH, TanD@ML, TanD@MH. Scorch Time: tS1, tS2, tSX. Cure Time: t90, tX, tML, tMH, tPCR, tRX, CRI; Pressure: PL, PH, tP, MPR, tMPR

**Displayed Curves:** Elastic (S'), Viscose (S"), Complex (S\*), Tan-Delta, storage shear Modulus (G'), loss shear Modulus (G"), Curing speed, Dies Temperatures

**Torque sensor:** Brand: Interface®; Capacity: 20 N\*m; Resolution: 0.01 dN\*m; Linearity Error (%FS): +0.25

**Oscillation frequency:** 100 cycles/minute (1,7 ± 0,1 Hz)

**Oscillation angle:** 0.5°, 1° (3° or other angles available on request); Easy adjustment of the angle with quick replacement of calibrated gauges

**Temperature:** Between room temperature and +250 °C - Resolution 0.1 °C

**Personal Computer (optional):** Minimum Setup: Windows 10/11, Intel Core i3, 5GB RAM

