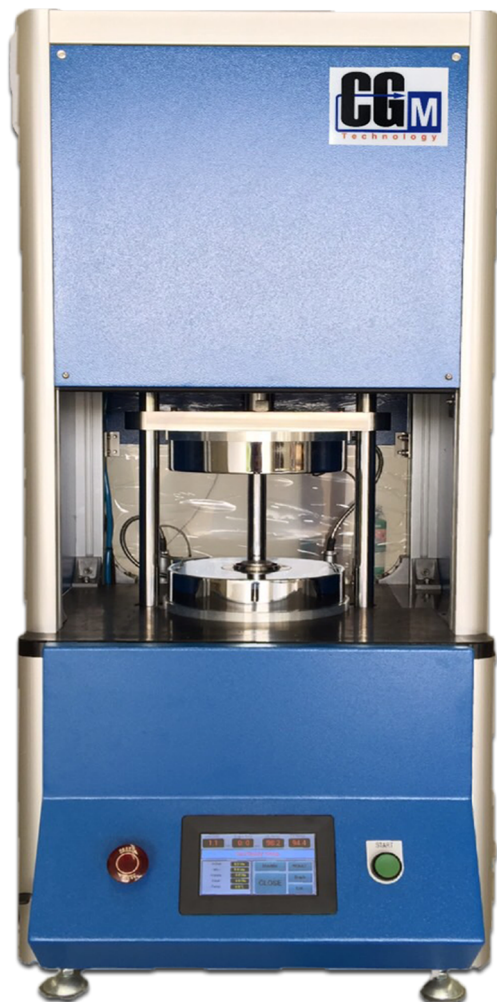




MV-01

# MOONEY VISCOMETER



# Application

The Mooney Viscometer MV-01 is an easy to operate and maintenance. For determining Mooney Viscosity, Mooney Scorch and Stress Relaxation characteristics of natural rubber & compounds rubber in according to ISO 289, ASTM D1646 and JIS K6300.

## Features and Function

### -Design and Safety

1. The core structure of MV-01 is made of rust-proofing material, which is easy for maintenance and cleaning.
2. Protection door during Test: Test starts only when the door is closed and stops when the door is opened.
3. Overheating protection system.
4. Overload protection function.

### - Operation

1. Set the accuracy of temperature by adjusting linearity of temperature by at least 6 points on touch screen.
2. High quality torque transducer and accurate torque measurement.
3. Stand-Alone: On the built-in touchscreen, set test conditions, see Test Result, Chart, etc. and print out by compact printer or Dot matrix printer.
4. In case of use with a computer, user can set acceptable range for test results by setting reference values in the Data process software.

## Options

1. Sample Cutter
2. Data Process unit interface to PC.
3. Small Printer
4. Service (Maintenance & Calibration)



# Specifications

- Reference Standard	ISO 289, ASTM D1646, JIS K6300
- Pressure system	Air cylinder system
- Die & Rotor Configuration	The die according to Reference Standard (Radial V-Groove die) Large Rotor Ø 38.10 ±0.03 mm. Small Rotor Ø 30.48 ±0.03 mm.
- Temperature System	PID Microprocessor Controlled Probe RTD Pt 100 Ω (Class A)
- Temperature range	Room Temp. (+25 °C) to 200 °C Accuracy 0.1°C, Resolution 0.1°C Units °C/ °F
- Rotation Speed	2 ±0.02 rpm (option: Variable rotor speed)
- Drive Motor	Servo Motor
- Torque Measurement	Torque Transducer (Direct Torque Measurement)
- Torque range	0.01 MU to 200.00 MU Resolution 0.01 MU
- Torque Calibration (Balance weight)	Fully automatic span by Built-in actual weight (Equivalent to 100 MU)
- Operation Panel	Capacitive Touch Screen, 5 Inches (Standard Alone)
- Test Mode	Real Time Display <ul style="list-style-type: none"> <li>- Mooney Viscosity</li> <li>- Stress Relaxation</li> <li>- Scorch times</li> </ul>
- Measured Time	Max. 99.0 Minutes Unit (min-min/ min-sec/ sec)
- Communication Data	RS-232, USB
- Power Supply	220 VAC ±10 VAC, 50/60 Hz
- Air Pressure	4.5 bar to 5.5 bar
- Dimension	Width 50.0 cm., Depth 54.5 cm., Height 105 cm.
- Weight	140 kg

## *After-Sales Service*

### *Maintenance Service*

- Preventive Maintenance Program : Maintenance of the machine on schedule. Crucial for meeting maintenance standards and ensuring that manufacturing line is never disrupted .
- Emergency Call : Service for emergency case within 24 hours .

### *Calibration*

CG Engineering Laboratory has successfully undergone assessment under National Standardization Council of Thailand (NSC-ONSC) Thai Industrial Standards Institute for meeting its criteria of competence, which are in accordance with General requirements for the competence of testing and calibration laboratories, (ISO 17025)

## *Information*

CGM Technologies co., Ltd. And CG Engineering Ltd., Part.  
7/10 Moo 6, Tambol Banpathum, Amphur Samkhok,  
Pathumthani 12160 Thailand

Phone : (66) 2 156-9470-1 Fax : (66) 2 156-9472

E-mail : [wisitt@cg-engineer.com](mailto:wisitt@cg-engineer.com)

Website : [www.cg-engineer.com](http://www.cg-engineer.com)

