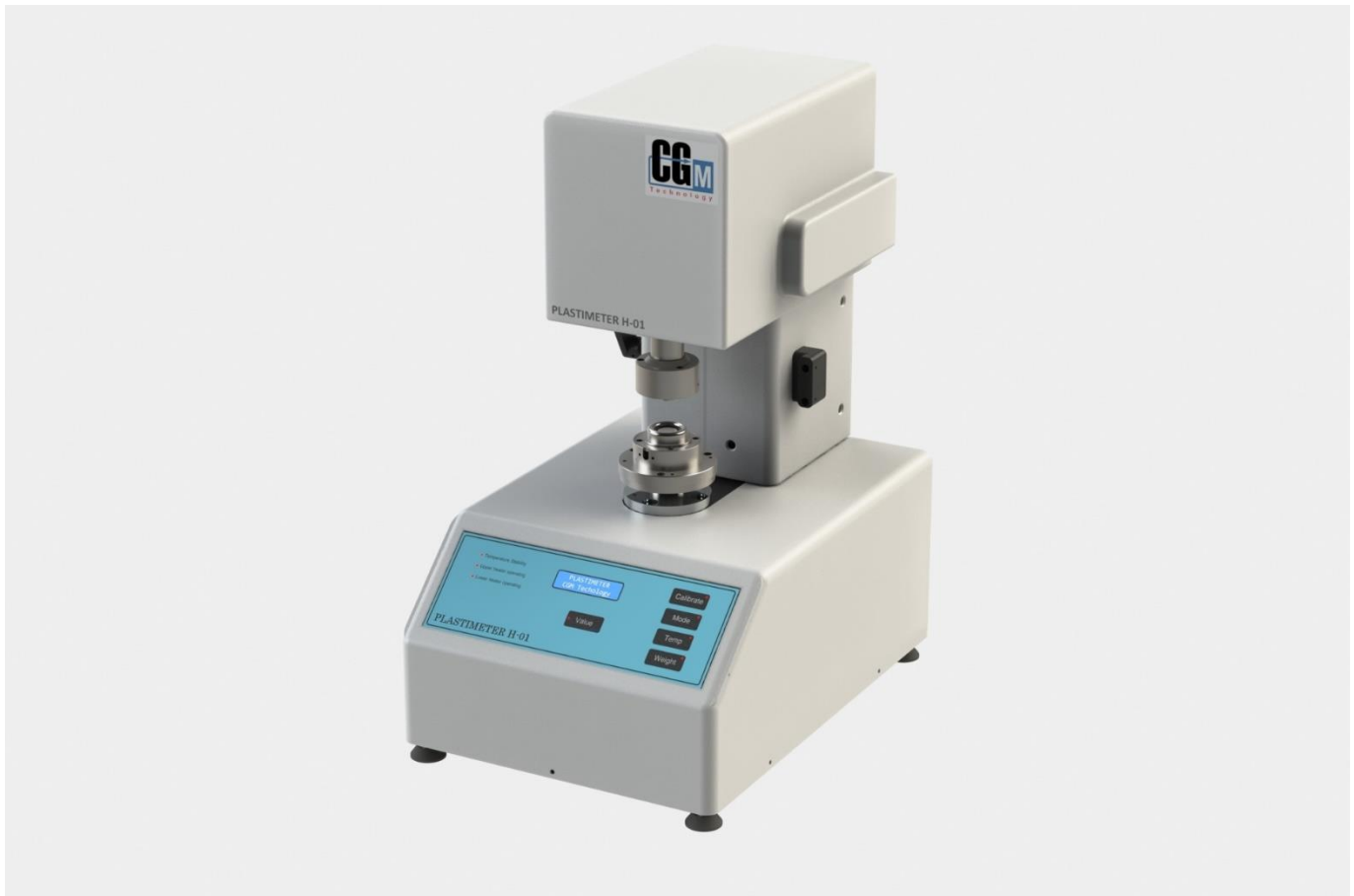


PLASTIMETER

MODEL H-01 CGM TECHNOLOGIES



The CGM Plastimeter H-01 measures rubber plasticity in order to determine plasticity retention index (PRI) according to ISO 2007, ASTM D3194 and BS 903: Pt A59. The sample has a flat and circular shape with thickness of 3.2 – 3.6 mm. with diameter of 13 mm. The sample is placed between the testing dies, where temperature is controlled at 100 °C. When the test starts, the lower die will move upwards to the upper die closing the gap, keeping sample thickness at 1 mm., the sample is then preheated for 15 seconds, and the upper testing head will apply weight load with force of 100 N for 15 seconds. After which, the remaining thickness will be read after applying force. Then PRI (Plasticity Retention Index)

can be calculated. The PRI is the ratio of plasticity of sample after heating in the aging oven for 30 minutes at 140 °C against the plasticity of the sample without aging process.

Specification Sheet

Reference Standard	ISO 2007, ASTM D3194-99, BS903: Pt.A59
Compressive Force	100 ± 1 N
Fixed Thickness	1.00 ± 0.01 mm
Test Time	Preload 15 +1 sec, Compression 15 ± 0.2 sec
Measuring Resolution	0.1, 0.5 unit
Indicator	LCD Character 16 x 2
Testing Temperature	100 ± 1 °C
Temperature Resolution	0.1 °C
Platen Diameter	10.0 mm (7.3, 14.00 mm option)
Output	RS232 for printer or computer
Printer	Thermal-sensitive line dot method 50, 80 mm (option)
Upper and Lower Die Distance	25 – 30 mm
Machine Dimension	293 x 407 x 540 mm (W x D x H)
Electric Power Source	AC220V 2A single phase 50/60 Hz
Machine Weight	45 KG

Highest Precision

- The force applied from the upper die is designed for highest precision, using 2 separate bearings for pressing the die and lifting the die to minimize positional error, resulting in accurate force throughout testing $100 \pm 1N$.
- The machine is designed with weight on the upper head, and the lower die moving upwards to close the gap, in order to minimize positional error compared to the traditional design of moving the upper head downwards.
- The LVDT has high resolution in measuring the distance or plasticity value.

Best Temperature Control

- High quality heater for fast and consistent heating
- Temperature is controlled by microcontroller with PID response.
- High quality insulator to prevent heat loss and to keep constant temperature
- Die and Plate are made of stainless steel for better heat transfer

Strong and Long-lasting Exterior Structure

- The main body is a single piece stainless steel, strong and lasting structure to prevent error from re-assembly.

Designed for Easy Use and Easy Maintenance

- Equipped with LCD Screen for control, operation and error message
- 2 calibration methods
 - 1) automatic calibration by standard shim
 - 2) self-calibration without the standard shim by memorizing the previous shim calibration for quicker daily calibration
- Electronic Parts can be easily re-assembled for easy cleaning and maintenance

Safety Feature

- Over heating prevention system at 140 °C. This is to prevent damage to heater and electronic parts.

Software Option

- Option for excel data export and database on PC.

Warranty, Maintenance and Calibration Service

- 1 Year Warranty
- Deliver with ISO17025 Calibration Certificate
- Calibration methods are specialized for the plastimeter
- Professional Preventive Maintenance and Emergency Service available for long term use.