



VV ENTERPRISES



V & V Enterprises

Quality is Remembered Long After Price is Forgotten
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Moving Die Rheometer (MDR-3000)



Specification	
Standards	ISO 6502, ASTM D 5289, DIN 53529
Die System	Biconical, sealed die rheometer with direct wearless servo drive and ceramic bearings
Model	Moving Die Rheometer (MDR-3000)
Application	Rubber testing and cure characterization
Temperature Range	Ambient to —
Temperature Precision	—
Torque Range	Up to —
Oscillation Frequency	— standard; variable frequency optional depending on model
Oscillation Strain / Angle	— standard; adjustable depending on model
Measured Data	Torque, Temperature, Frequency, Strain, Cure Rate
Features	Soft-closing mechanism to prevent foil rips and protect die surfaces
Frame	Rigid frame for improved repeatability and lower noise
Software	Windows 10/11 based control software
Optional Features	Normal force / pressure measurement, automated sample loading, variable frequency / strain
Utilities	Pneumatics: — Electrical: —

Oscillating Disc Rheometer

Specification	
Main Power Supply	AC 175-275 V, 50 Hz, 20 Amp. maximum
Compressed Air	60 psi (4.2 Kg./Sq. Cm.) minimum. Operating pressure controlled by Integral Regulator with Gauge.
Frequency of Oscillating Disk	100 cycles/min. (1.66 Hz)
Oscillating Amplitude	+/- 1°, 3°, 5° (Half Cycle)
Temperature Control	Microprocessor Controlled Calibrated Range: 100-200 Degree C Independent Upper & Lower Platen Control
Temperature Sensor	PT-100, Platinum Resistant
Torque Transducer	Directly shaft mounted in line with Oscillating Disk (Reaction Torque Sensor)
Recording & Display	Directly On-Line Display on VGA Monitor memory Storage Data
Environment	Free from Dust & Humidity
Compressed air supply Panel	Directly On-Line Display on VGA Monitor memory Storage Data
Panel	42X20X20



Mooney Viscometer



Specification	
Standards	According to International Standards -----ASTM DI646, ISO289
Rotor Speed	2.00+ 02 RPM
Mooney measurements	Choice of 3 readings
Temperature	PT 100 Platinum resistor microprocessor controlled Calibrated range 50e to 200° C. Independent Upper and Lower Platen Control
Torque transducer	Four Arm temperature compensated semi-conductor strain gage bridge. Reaction torque sensor.
Recording & Display	Computer Controlled testing. At the end of the test the computer calculates the result automatically and display it.
Printed Data	Colour Inkjet Printer
Compressed air supply	60psi (4.2 kg/sq.cm) minium operating pressure.
Environment	Dust free reasonably controlled ambient temperature and humidity
Net Weight	Main machine 200 kg
Compressed air supply	60psi (4.2 kg/sq.cm) minium operating pressure.
Net Weight	Main machine 200 kg

Moving Die Rheometer (MDR-1000)



Specification	
Main Power Supply	AC 175-275 V, 50 Hz.
	20 Amp. maximum
Compressed Air	60 psi (4.2 Kg./Sq. Cm.) minimum.
	Operating pressure controlled by Integral Regulator with Gauge.
Frequency of Moving Die	100 cycles/min. (1.66 Hz)
Moving Die Amplitude	+ - 05, 1 (half cycle)
Temperature Control	Microprocessor Controlled Calibrated
	Range: 100-200 Degree C Independent Upper & Lower Platen Control
Temperature Sensor	PT-100, Platinum Resistant
Torque Transducer	Directly shaft mounted in line with Moving Disk (Reaction Torque Sensor)
Recording & Display	Directly On-Line Display on
	VGA Monitor memory Storage Data
Environment	Free from Dust & Humidity
Panel	42X20X20

Double Screw Universal Tensile Testing Machine

- ▶ Data Processing Facility : Embedded Controller Controller Inside With External
- ▶ Load Cell: With One Load Cell
- ▶ Crosshead Speed: 5mm/Min To 600mm/M In
- ▶ Accuracy Of Crosshead Speed : 1 mm
- ▶ Trip Space For Crosshead: 1000 mm
- ▶ Testing Space Width: Unrestricted
- ▶ Accuracy Of Force : + 1% Of Applied Force
- ▶ Speed Setting Method: Steeples Speed Setting
- ▶ Clamp: With One Mechanical Clamp For Tension Set
- ▶ Power Unit: Electronic Variable Frequency Drive
- ▶ Motor: AC Servo Controlled Motor
- ▶ Screw: With Single And Double Speed Setting
- ▶ Power Unit: Electronic Variable Frequency Drive
- ▶ Motor: AC Servo Controlled Motor
- ▶ Screw: With Single And Double Screw Boll etc.



Tensile Testing Machine



- ▶ Data Processing Facility: Microprocessor/digital controller based system
- ▶ Load Cell: High accuracy load cell for precise force measurement
- ▶ Testing Type: Suitable for tensile, compression, bending and peeling tests
- ▶ Crosshead Speed: Variable speed control for different testing requirements
- ▶ Speed Accuracy: Stable and accurate speed performance during test
- ▶ Grip Arrangement: Strong mechanical grips for secure specimen holding
- ▶ Testing Space: Adequate vertical testing space for different sample lengths
- ▶ Force Accuracy: High precision load measurement with reliable results
- ▶ Display System: Digital display / controller for load, elongation and test parameters
- ▶ Control Method: Easy operating panel with user-friendly controls
- ▶ Drive System: Double screw / ball screw mechanism for smooth movement
- ▶ Motor: Heavy-duty AC / servo motor controlled drive
- ▶ Construction: Strong and rigid body structure for vibration-free testing
- ▶ Application: Used for testing rubber, plastic, wire, cable, fabric, leather and other materials

Tensile Testing Machine

- ▶ Data Processing Facility : Embedded Controller Controller Inside With External
- ▶ Load Cell: With One Load Cell
- ▶ Crosshead Speed: 5mm/Min To 600mm/M In
- ▶ Accuracy Of Crosshead Speed : 1 mm
- ▶ Trip Space For Crosshead: 1000 mm
- ▶ Testing Space Width: Unrestricted
- ▶ Accuracy Of Force : + 1% Of Applied Force
- ▶ Speed Setting Method: Steeples Speed Setting
- ▶ Clamp: With One Mechanical Clamp For Tension Set
- ▶ Power Unit: Electronic Variable Frequency Drive
- ▶ Motor: AC Servo Controlled Motor
- ▶ Screw: With Single And Double Speed Setting
- ▶ Power Unit: Electronic Variable Frequency Drive
- ▶ Motor: AC Servo Controlled Motor
- ▶ Screw: With Single And Double Screw Boll etc.



Slab Mould Press Manual Machine



V&V Lab Slab Mould Press is specially designed to prepare slabs for laboratory purpose only. It is a Bonsai Model of Press which have two platens directly heated by pencils type heaters of 500 watts each and a ram beneath attached with hydraulic pressure pump which manually operated for user friendly operation of this equipment between two platens (7" x 7") a book type mould (150 x 150 mm) is placed with rubber compound in it.

A steady lead screw on the top to maintain hydraulic pressure. An electric panel is placed on the press which have switches, digital temperature controller with digital display on front. Glow sign indicators are also provided.

There is a large round shape pressure gauge displays the hydraulic pressure maintained during slab preparation process.

Slab Mould Press Automatic Machine

- Specially designed to prepare rubber slabs for laboratory use with better consistency, convenience and controlled operation.
- ▶ Two directly heated platens using high-quality pencil type heaters for uniform heating during slab preparation.
 - ▶ Book type mould (150 x 150 mm) placed between platens for preparing standard rubber test slabs.
 - ▶ Automatic hydraulic pressure system for smooth and efficient operation.
 - ▶ Digital control panel mounted on the press with switches, push buttons, digital temperature controllers with front display, and indicator lamps.
 - ▶ Large round pressure gauge displays the hydraulic pressure developed during slab preparation process.
 - ▶ Steady hydraulic pressure holding arrangement for consistent pressure application.
 - ▶ Sturdy and compact construction designed for repeatable results.
 - ▶ User-friendly controls with accurate temperature-pressure management.
 - ▶ Strong construction, user-friendly controls and accurate temperature-pressure management make it highly suitable for rubber testing laboratories.



Specific Gravity Balance



- ▶ Used for measuring the specific gravity (density) of rubber, plastics, and other solid materials.
- ▶ Provides highly accurate and reliable specific gravity calculations.
- ▶ Digital LCD display with clear and easy-to-read readings.
- ▶ Quick and simple one-touch tare function for easy zeroing of container weight.
- ▶ Suspended weighing pan for convenient submersion of samples in water.
- ▶ Built-in water tank with a metal weighing mesh and sample holder.
- ▶ Quick measurement results saving valuable time in the laboratory.
- ▶ Compact design with easy-to-use controls for efficient operation.
- ▶ Essential for quality control and material testing in research and industrial laboratories.
- ▶ Sturdy and compact construction designed for repeatable results.
- ▶ User-friendly controls with accurate temperature-pressure management.
- ▶ Essential for quality control and material testing in research and industrial laboratories.

Muffle Furnace

- ▶ High-temperature laboratory furnace designed for a wide range of material tests such as ashing, ignition and heat treatment.
- ▶ Stable temperature control up to 1200°C* for consistent and precise high-temperature operation.
- ▶ Robust construction with advanced ceramic fiber insulation for high energy efficiency and rapid heating.
- ▶ High-quality heating elements that ensure uniform and efficient heating throughout the chamber.
- ▶ Digital PID temperature controller for accurate temperature setting and advanced temperature management.
- ▶ Bright LED display shows set temperature, actual temperature and other parameters.
- ▶ Safety features include over-temperature protection and alarm system.
- ▶ Durable and corrosion-resistant interior and exterior made from high-grade materials.
- ▶ User-friendly design for easy operation and maintenance.
- ▶ Essential equipment for thermal testing, material research and quality control applications in industrial and research laboratories.



Sample Cutter Manual Machine

- ▶ Specially designed for accurate cutting of rubber, plastic and test specimens for laboratory use.
- ▶ Manual operation system for simple, reliable and user-friendly working.
- ▶ Heavy-duty body construction ensures stability and long service life.
- ▶ Sharp cutting die arrangement provides clean and precise sample cutting.
- ▶ Hydraulic jack mechanism helps in applying uniform cutting pressure.
- ▶ Strong guide pillars with spring-loaded top plate for smooth operation.
- ▶ Compact bench-top design suitable for laboratory and quality control applications.
- ▶ Suitable for preparing standard test samples for tensile and other material testing.
- ▶ Low maintenance machine with easy handling and dependable performance.
- ▶ Ideal for rubber testing labs, research centres and industrial quality control departments

