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200KN UNIVERSAL TESTING MACHINE QM- 200M1F



APPLICATIONS

200kN Universal Testing Machine QM-200M1F

Universal Testing Machine QM-200M1F is capable of conducting material and product tests with a maximum capacity of 200 kN. This tensile testing machine is equipped with a servo motor, a precise transmission system, and an advanced M1F controller system.



The M1F software is compatible with Windows systems and can analyze tests such as tensile, compression, bending, peeling, and tearing strength. The machine's rigid and durable structure ensures stable testing and reduces damage. This series of

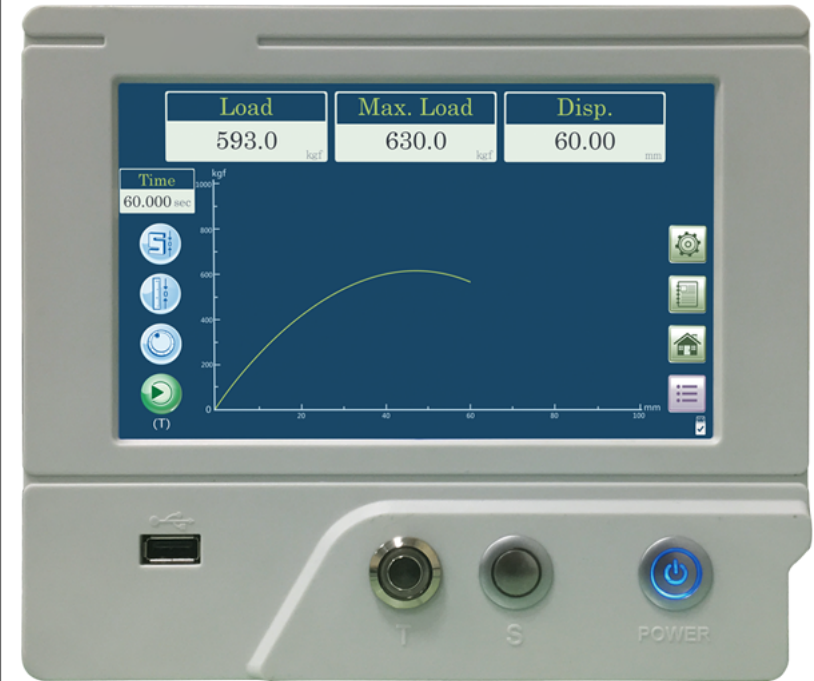
universal tensile testing machines can be applied to metals, composites, construction materials, and other materials requiring high test force.

Low noise operations and accurate test results are guaranteed. The 7-inch TFT touch screen is an optional accessory for the tensile tester, allowing users to perform tests on a standalone basis. The crosshead's movement can be finely adjusted using the jog controller, making calibration and positioning more convenient and safe, thus preventing overload. The speed range is 0.2-375 mm/min, conforming to various standards.

Accessories



- 7" color touch TFT display panel.
- Supports English and other languages.
- Displays force, pressure, displacement, and time.
- Test condition settings include test speed, direction, auto-return, and stop at the break point.
- Analyzes maximum force, interval force, force at break point, and more.
- Provides multiple stopping point settings: force, displacement, time, and elongation.
- Supports over-travel, overload, and overtime stop protection settings.
- Can save up to 50 test results; supports USB storage.
- Option to restore the machine to factory settings.
- Stand-alone mode calibration available.
- Supports switching between Metric and Imperial units.



QM-L-Ext Long Extensometer

QM-L-Ext Long Extensometer is ideal for measuring elongations greater than 20% in materials such as rubber, plastic, PE, fabric, and webbing. These high-elongation measurement accessories are typically used with dumbbell-shaped specimens. The extensometer can connect with the testing machine to automatically detect the deformation of the test piece during testing.



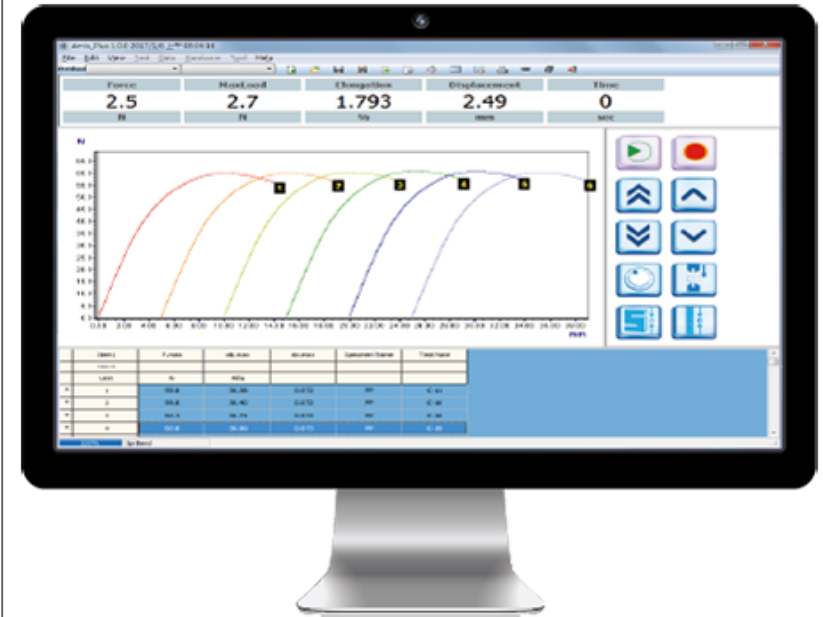
QM-S-Ext Clip-on Extensometer

QM-S-Ext Clip-on Extensometer is designed to measure the deformation of metals and hard plastics with less than 100% elongation. During testing, it can measure the complete deformation rate without needing to be dismantled. For specimens with longer gauge lengths or higher elongation rates, a customized longer extensometer is also available.



Software functions

- Data sampling rate up to 400 Hz.
- Controlled by mouse, keyboard, and the up/down button on the machine for quick grip position adjustment.
- Requires Windows system.
- Available languages: English and other languages.
- Operation Mode: TCP/IP two-way transmission to connect with PC.
- Can import and display multiple test data simultaneously.
- Supports switching between Metric and Imperial units.
- Provides a flexible table for data analysis.
- Allows naming data results and creating user-defined formulas.
- Data can be displayed in table, graph, or both.
- Data processing capabilities: save, import, list, statistical comparison, etc.
- Adjustable X-Y axis on the graph, including curve marks, interval marks, slope, etc.
- Supports tensile, compression, bending, spring, and other tests.
- Machine protection features: over-travel, overload, and overtime stop conditions.
- Supports various test patterns such as constant tensile (compression) and 10-stage settings.
- Specimen modular design for easy and quick specimen information setting.
- Test condition modular design to reduce human error.
- Supports upper and lower limits for data selection to access key information.
- Multiple I/O ports for additional test functions.



FEATURES

200kN Universal Testing Machine QM-200M1F Features

- Supports auto-identification of load cell parameters.
- Supports auto-identification of displacement accessory parameters.

- Provides screw holes for future multi-usage of other fixtures.
- The jog controller allows precise adjustment of displacement, making calibration more convenient.
- No specification limitations for the PC connecting to the software, ensuring easy PC maintenance.
- Allows a maximum of 10-stage speed settings in one test.

TECHNICAL SPECIFICATIONS

200kN Universal Testing Machine QM-200M1F Technical Specifications

Model	QM-300M1F	QM-200M1F	QM-100M1F
Max. Capacity	300 kN	200 kN	100 kN
Unit	Force : gf, kgf, lbf, N, kN, ozf, tonf(SI), ton(long), tonf(short) Pressure : Kpa, Mpa, psi, bar, mm-Aq, mm-Hg		
Force Resolution	1/50,000 (31 bits)		
Force Precision	±1% (within 2%-100% of load cell capacity; higher accuracy is optional)		
Test Stroke (w/o grips)	1100 mm		
Stroke Resolution	0.0001 mm		
Cantilever Distance	550mm (680mm, 800mm are optional.)		
Speed Range	0.2 ~ 330.0 mm/min	0.2 ~ 330.0 mm/min	0.2~375.0 mm/min
Speed Precision	±1%		
PC-Port	RJ45 (TCP/IP) [Software is optional]		
Data Sampling Rate	Max. 400 Hz		
Motor	Servo Motor		

Machine Stiffness	388.60 kN/mm	388.60 kN/mm	85.10 kN/mm
Hardware Safety Protection	Upper/Lower limit, Emergency Stop Button		
Software Safety Protection	Force, Displacement, Time Protection		
Voltage	3 Phase 200~240VAC • 30 A (110V is also available)	3 Phase 200~240VAC • 20 A (110V is also available)	Single Phase 200~240VAC • 10 A (110V is also available)
Dimension	140 × 66 × 235 cm	140 × 66 × 235 cm	120 × 60 × 220 cm
Weight	1250 kg	1250 kg	800 kg



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