



POLYTEST

M500-100 AT Tensile Tester

**Machine Capacity
up to 100 kN**

**Comprehensive Wintest
Analysis Package
Supports
ISO, ASTM & BS EN
Specifications**

Table Top Design

**Automatic Detection
of Load Cells**

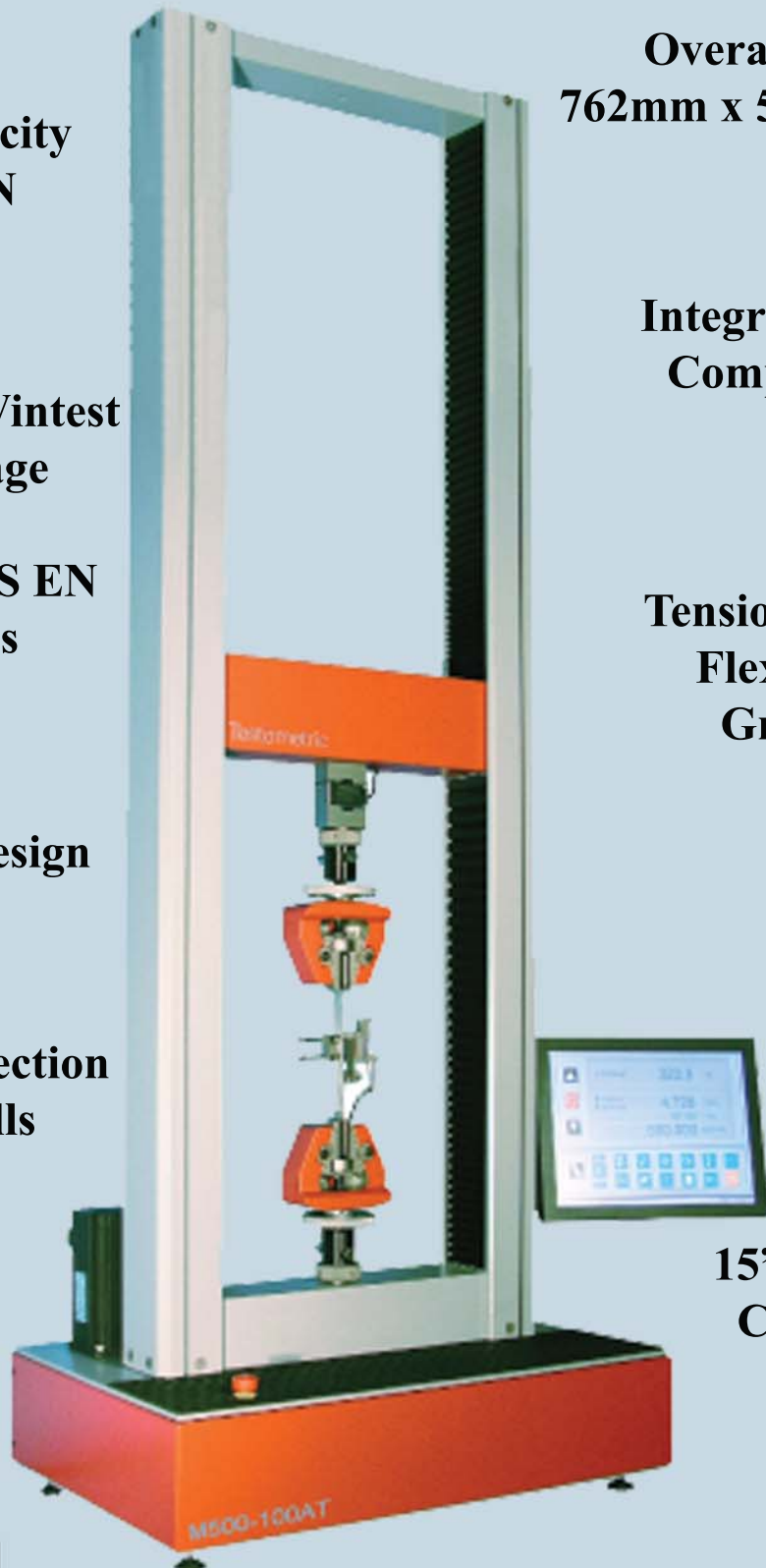
**Power
115v or 230v
@ 50/60 Hz**

**Overall Dimensions
762mm x 505mm x 1585mm**

**Integrated Industrial
Computer Module**

**Tension, Compression,
Flexural & Shear
Grips Available**

**15" Touch Screen
Colour Display**



Certificate No. 4915

World Wide Testing for Quality

M500-100AT Tensile Tester



Machine Features

Bench mounted twin column system.
Integral industrial computer, comprising 1 Ghz CPU, 256MB Ram, 40GB hard drive, lan connection, 4 USB ports and 2 RS232 ports.
15" Touch screen colour display with interactive machine control console.
Widest available certified load range per load cell - down to 1/1000th of load cell.
Exceeds all international standards for accuracy.
Tension, Compression, Shear, cycling and maintain load test facilities.
Automatic identification of load cells.
Tee slots in column for accessory mounting.
High accuracy closed-loop speed control jog facility, selectable range up to 1,000,000:1.
Absolute, relative and auxillary postional control.
Wide range of contacting and non-contacting extensometers.
Grips and fixtures for Tension, Compression Flexure, Shear and product testing.

Load Frame

Rigid frame, using dual slide crosshead guidance system and rigid extruded support columns. Frame stiffness to 400kN/mm plus K factor facility built in. Recirculating ball screws with bellows. Electronic limit trips, total travel trips and customer programmable safety stops. Rubbermat front protection.

Force Measurement

Universally Calibrated better than Grade 0.5 EN 7500-1, DIN 51221, ASTM E-4, AFNOR A03-501. Range 0.4% to 100% minimum. Automatic detection load cells. Resolution 1 part in 500000 with autoranging. Electronic cell protection.

Extension Measurement

Full frame length to 0.001mm. Resolution 0.001 min. Accuracy 0.01mm. Absolute, relative and auxillary modes mm, inch and percent. Programmable extension limits

Speed control

Drive system temperature and current protection. Positional jog speed 0.001mm/min to maximum. Speed setting increments 0.001 mm/min.

Software

Comprehensive wintest Analysis universal windows software covering tensile, compression peel, shear, tear, creep and multistage testing. It includes a wide range of industry standard test methods and facility to create and store an inlimited number of further test methods. There is automated storage of all test data and ease of export to other software packages such as Word, Excel, Access and SPC systems for enhanced report generation. wintest Reports is an enhancement to wintest Analysis to add flexibility to data analysis and statistical reporting. The package provides a report generation capability that can include long term statistics and control charts for all specified calculations. wintest Reports can also be configured to display headings, titles, company logos, graphs, charts, pop-up menus and specific technical information

Accessories

A full range of contacting & non cantacting extensometers and displacement tranducers with auto-recognition. Calipers, thickness gauges and balances with direct input of measurement into test program with averaging of multiple inputs. Task lighting, Cutting Presses & Cutters. Extensive range of grips & fixtures

Options

Inaddition to standard fixtures, we can test your specimens in our applications laboratory and design special grips and fixtures for custom Applications.

Machine Capacity	25kN / 30kN / 50kN / 100kN
Available Load cells	5N,10N, 20N, 100N, 250N, 500N, 1kN, 2.5kN, 3kN, 5kN, 10kN 20Kkn, 25Kkn, 30Kkn, 50Kkn, 100Kkn Maximum of four load cells up to capacity of machine
Crosshead Travel Excluding Grips	1050 / 980 / 1059 mm
Throat	420mm
Overall Height	1585mm
Overall Width	762mm
Overall Depth	505mm
Speed Range	0.001 to 500mm/min
Spigot Size	20 / 30 / 40ø
Weight	186kg / 188kg / 235kg / 368kg
Power	1.20kW
Supply Voltage	115/230V 50 or 60Hz.

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