

# MT500 Series Mechanical Tester (562 lbf, 2500 N)

**Specification Sheet**  
SS-FM-3126-0904  
September 2004

The MT500 Series mechanical test stand is an easy-to-use solution for force measurement applications up to 562 lbf (2.5 kN) capacities. The test stand may be equipped with a quick-action lever or precision handwheel for controlling crosshead speed and travel. The MT500 test stand can be bench mounted, wall mounted or positioned horizontally. Vertical clearances are available from 750mm (29.5 inch) up to 1500mm (60 inch). Standard stroke is 6 inches (150 mm), although longer strokes can be accommodated as a special order.

The MT500 Series features an innovative design that maximizes working space and simplifies operation and maintenance. The single column design with 150mm (6 in) throat is ideal for large specimens. The removable platen is designed to accommodate metric and imperial threaded fixtures. Special gauge adapter make gauge alignment automatic. Options include a digital travel indicator, capable of displaying travel up to 0.01mm (0.0005 inch) and column ruler which is graduated in millimeters and inches. The MT500 Series includes hook, compression plate, adapters and gauge mounting hardware.

## Features

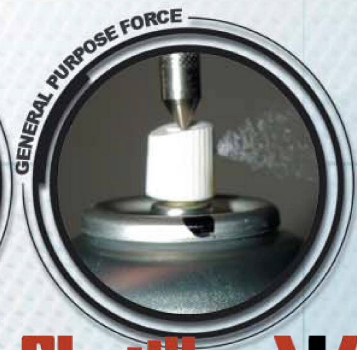
- ❑ Large Working Area
  - 150mm (6 in) Throat for Large Specimens
  - Universal Fixturing (Metric or Imperial)
  - 150mm (6 in) Full Crosshead Travel
- ❑ Modular Design
  - Bench, Horizontal or Wall Mounted
  - Lever or Handwheel Operation
  - Multiple Travel Lengths
- ❑ 2 Year Warranty

## Specifications

<b>Capacity:</b>	562 lbf (2.5 kN)
<b>Loading Method:</b>	Quick-Action Lever or Handwheel
<b>Travel Rates:</b>	
Lever	75mm (3 in) per Revolution
Handwheel	12mm (0.5 in) per Revolution
<b>Column Height:</b>	
Standard	750mm (29.5 inch)
Extended	1000mm (39.4 inch)
Ultra	1500mm (59 inch)
<b>Maximum Stroke:</b>	150mm (6 in) *Longer Strokes available
<b>Weight:</b>	Approx. 22 lbs (10 kg)



*MT500L  
Lever-Actuated Tester with DFS Series  
force gauge, performing capsule crush test.*



**You Get More with Your CHATILLON Gauge.**



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# Ordering

## Order No. Description

MT500L **BASE Model Number - 1st thru 6th Characters**  
 CHATILLON MT Series Mechanical Tester, Lever Actuated  
 MT500H CHATILLON MT Series Mechanical Tester, Handwheel Actuated

**Column Height - 7th Character**  
 S Standard, 750 mm (29.5 in)  
 E Extended, 1000 mm (39.4 in)  
 U Ultra, 1500 mm (60 in)

**Force Gauge Mounting Kit - 8th Character**  
 1 DG Series Force Gauges  
 2 DPPH, DFIS Series Force Gauges  
 3 DF, DFT Series Force Gauge  
 X Not Required

**Mounting Style - 9th Character**  
 B Bench, Vertical Mounting  
 H Bench, Horizontal and Wall Mounting

**Options - 10th Character**  
 1 Digital Travel Indicator  
 2 Ruler Assembly (Imperial/Metric Graduations)  
 X Not Required

MT500L S 1 B 1  
 (MT500LS5B1)

**Sample Order Number**  
 CHATILLON MT500 Series (562 lbf), standard 750mm (29.5 in) travel with DG Series mounting kit. Vertical bench mounting style with lever actuator. Optional digital travel indicator supplied.

## Standard Accessories

Order No.	Description
NC002660	User's Manual
NC000714	Hex Key, 6mm
SPK-FMG-012C	Hook, Stationary
17012	Platen, 3-inch diameter
NC002686	Set Screw, 5/16-18 x 1 inch
13048	Coupling, 1/4-28 to 5/16-18
ADT/0115	Eye End Adapter, 5/8-inch

## Optional Accessories

Order No.	Description
SPK-MT-Digital	Digital Travel Indicator (May be ordered as part of stand)
SPK-MT-Ruler	Ruler Assembly (May be ordered as part of stand)
SPK-MT-0001	Gauge Mounting Kit, DPP, LG, DFIS, DFA Force Gauges
SPK-MT-0002	Gauge Mounting Kit, DPPH, DFIS Force Gauges
SPK-MT-0003	Gauge Mounting Kit, DFM Force Gauge
SPK-MT-0004	Gauge Mounting Kit, DFT Force Gauge
SPK-MT-0005	Gauge Mounting Kit, DG Force Gauge
SPK-MT-REMOTE	Gauge Mounting Kit, REMOTE Series Loadcells
SPK-MT-Wall-Horz	Wall/Horizontal Mounting Kit Assembly
SPK-MT-L500	Lever Actuator Assembly Module
SPK-MT-H500	Handwheel Actuator Assembly Module

# AMETEK

## TEST AND CALIBRATION INSTRUMENTS

### Algen Scale Corp.

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For additional information or to place an order please call 1-800-836-8445 or visit [www.algen.com](http://www.algen.com).

