

# MT500 Series Mechanical Force Tester

The CHATILLON®MT500 Series mechanical test stand is an easy-to-use solution for force measurement applications up to 500 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

- Tensile, Compression, Peel & Flexural Testing
- Optional Column Heights
  - 500mm Standard
  - 1000mm Extended
  - 1500mm Ultra
- 6-inch Stroke
  - Longer Strokes Available as Special Order
- Compact, Lightweight, Benchtop Design
  - Table & Wall Mount Options
- Simple Operation
  - Lever Actuation
  - Handwheel Actuation
- Mounts to Chatillon DF Series Force Gauges
- 2 Year Warranty

## Specifications

<b>Load Capacity:</b>	500 lbf, 2.5 kN
<b>Column Heights:</b>	500mm Standard 1000mm Extended 1500mm Ultra
<b>Stroke</b>	6 inches (152mm) Longer Strokes Available
<b>Travel Rates:</b>	
Lever Actuator:	75mm per Revolution
Handwheel Actuator:	12mm per Revolution
<b>Load Measurement:</b>	Chatillon DF Gauges
<b>Operating Temperature:</b>	40°F to 110°F 5°C to 45°C
<b>Instrument Weight:</b>	20 lbs (9 kg)
<b>Shipping Weight:</b>	25 lbs (12 kg)



*Shown: MT500L Series with optional Chatillon DFE Series digital force gauge and optional digital deflection indicator.*



**Quality Assured.**

## Ordering

### MT500 Series

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, 1000mm (39.4 in)  
 U Ultra, 1500 mm (60 in)

**Force Gauge Mounting Kit - 8th Character**

1 DG Series Force Gauges  
 2 DFIS, DPPH Series Force Gauges  
 3 LG Series Force Gauges  
 4 DF Seires Force Gauges  
 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, standard 750mm (29.5 in) travel with DG Series mounting kit. Vertical bench mounting style with lever actuator. Optional digital travel indicator.

### Optional Accessories

Part No.	Description
SPK-MT-Digital	Digital Travel Indicator
SPK-MT-Ruler	Ruler Assembly
SPK-MT-0001	Gauge Kit, LG Series
SPK-MT-0002	Gauge Kit, DFIS, DPPH Series
SPK-MT-0004	Gauge Kit, DF Series
SPK-MT-0005	Gauge Kit, DG Series
SPK-MT-Remote	Remote Load Cell Kit
SPK-MT-Wall-Horz	Wall Mounting Kit
SPK-MT-L150	Lever Actuator Assembly
SPK-MT-H150	Handwheel Actuator Assembly

### Standard Accessories

Part No.	Description
SPK-FMG-012B	Hook
17012	Compression Plate, 3" Diameter
P-10020	Thread Adapter, 5/16-18 to #10-32
NC000714	Hex Key, 6mm
3157	Set Screw, #10-32 x 3/4"
13048	Coupling, 1/4-28 to 5/16-18
ADT/0115	5/8" Eye End Adapter

**AMETEK**  
 MEASUREMENT & CALIBRATION TECHNOLOGIES

For the authorized Chatillon Distributor or Manufacturer's Representative near you, go to [www.chatillon.com](http://www.chatillon.com)



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