

TCM Series Motorized Test Stands

100 lbf (500 N) & 350 lbf (1500 N)

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Features

Key Features

Easy Operation

A single key press to start the test and a return to zero function saves time. A high maximum speed of 40 in/min (1016 mm/min) further reduces cycle time.

Smart Functionalities

The large touch sensitive buttons feature haptic feedback that reduces the time taken to configure and run a test while reducing operator errors. Tests can be configured to pull to a set position or cycle between 2 positions. When combined with specific Chatillon force gauges, additional features such as driving to a load limit and recording break forces become available.

Accurate Test Results

Combined with the Chatillon DF II Series force gauges the load accuracy exceeds 0.1% full scale. Advanced electronics enable set speed accuracy of < 0.1% of set speed value and data sampling rates up to 10 KHz.

Large Working Area - Small Footprint

The compact TCM features a large throat depth enabling samples up to 7.96 in (200 mm) diameter to be tested, yet retains a compact footprint.

Data Analysis and Integrity

Optional Chatillon ForceTest software allows viewing data in graphical form, data logging, result calculations, pdf report creation and data export. Download your free trial version now at www.ametektest.com.

Intuitive Effectiveness

The motorized TCM Series from Chatillon offers fast and effective force testing at an affordable price.

The TCM Series features a high frame stiffness, light weight bench top design suitable for both production and laboratory environments.

Force ranges of 100 lbf (500 N) and 350 lbf (1500 N) are available in both 16 in (406 mm) and extended 32 in (812 mm) travel versions.

Select from Chatillon's wide range of grips and fixtures to use the TCM Series for a wide variety of tests such as:

- Tension
- Compression
- Bending
- Peeling
- Adhesion
- Insertion and extraction



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Chatillon

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Jog Down

Jog Up

Return to Zero

Start/Stop

Force Capacity

ТСМ100	100 lbf / 500 N
ТСМ350	350 lbf /1500 N

Chatillor

Crosshead Travel

Speed Up

Mode

ТСМ100	16 in /406 mm
TCM100 Extended	32 in /812 mm
ТСМ350	16 in /406 mm
TCM350 Extended	32 in /812 mm





A Modular System

The TCM Series offers you a flexible force measurement solution that matches your exact needs. This way you get a solution that lives up to your requirements, without costs for additional features you do not need. Should your needs change over time then it is easy to upgrade your TCM solution to fit your new requirements.

Base Solution

METEK

The TCM Series can be used in combination with Chatillon DFE or DFS Series force gauges. This way, if you already have a Chatillon force gauge available, you only need to aquire the TCM Series test stand to get started on your force testing, enjoying all of

the benefits that the TC Series has to offer:

- Easy operation
- Haptic feedback buttons
- LED color display
- Set position or cycle between 2 positions

Extra Benefits

By adding a digital force gauge from the Chatillon DFE or DFS Series to your TCM Series test stand, additional features will become available enabling you to perform a more advanced, fast and easy force testing on your specimens.

- Drive to load limit
- Password protection
- Pass/Fail limits
- Average load
- Statistics
- Peak break force
- Contact close feature
- Access to ForceTest PC software



Fast and Easy Analysis

Adding the Chatillon ForceTest software will power up your TCM Series force testing solution and will turn your analysis into a fast and simple process. By combining the DFE or DFS Series gauge and the ForceTest software with the TCM Series you obtain:

- Seamless serial data communication from the test machine to your computer
- Save test setup and achieve faster workflow
- Export data as CSV or PDF
 - Time and date stamped data
 - Live data view during tests





Specifications

Technical Specifications

Force Capacity

TCM-100 100 lbf / 500 N TCM-350 350 lbf /1500 N

Speed Range

TCM-100 5.08 to 1016 mm/min / 0.2 to 40 in/min TCM-350 5.08 to 1016 mm/min / 0.2 to 40 in/min

Speed Accuracy

0.1% of set speed value

Crosshead Travel

TCM100..... 16 in / 406 mm TCM100 Extended.... 32 in / 812 mm TCM350..... 16 in / 406 mm TCM350 Extended.... 32 in / 812 mm

Supply Voltage

207-253 VAC at 50 Hz or 103.5-126.5 VAC at 60 Hz

Load Measurement

Chatillon DF Series gauge

Software

ForceTest

Weight

57 lbs / 26 kg - Standard height 69 lbs / 32 kg - Extended height

Shipping Weight

197 lbs / 90 kg - Standard height 209 lbs / 94 kg - Extended height

Throat Depth

3.98 in / 100 mm

Operating Temperature 50-104° F / 10-40° C

To ensure you receive an accurate, reliable instrument of the highest quality, Chatillon force measurement machines are designed and handcrafted at our factories in the United States in accordance to ISO 9001.

The TCM Series is CE certified and supported by our global service centres in accordance to ISO 17025.

Quality and integrity are part of our DNA, and we would like to help make it a part of yours as well.

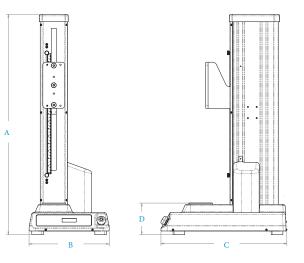


SENSORS, TEST & CALIBRATION

Specifications & Ordering

Dimensions

		TCM100	29.7 in /754 mm
A	Height	TCM100 Extended	45.7 in / 1161 mm
		TCM350	29.7 in / 754 mm
		TCM350 Extended	45.7 in/1161 mm
B Width	TCM100	10.8 in/275 mm	
В	wiath	TCM350	10.8 in / 275 mm
c	Dooth	TCM100	17 in / 431 mm
	Depth	TCM350	17 in / 431 mm
D. Dese Heinhet	TCM100	4.3 in / 108 mm	
D	D Base Height	TCM350	4.3 in / 108 mm



Ordering

Orde	er Numbei		D	escription
			м	odel / Force
TCN	1100		ТС	CM100, 100 lbf / 500 N
TCM	1350		ТС	CM350, 350 lbf / 1500 N
			C	rosshead Travel Height
		S	St	andard 16"
		E	E>	tended 32"
			Po	ower
		115	11	5 VAC 60 Hz, US Power Cord
		230	23	30 VAC 50 Hz, UK and EU Power Cord
		230CNAU	23	30 VAC 50 Hz, China and Australia Power Cord
			М	ounting
			A 1/	2-20F thread in base with 5/16 18M and 10/32M Base Adapter Coupling Kit
			B 5/	'8" Eye End in Base and 5/8" Eye End Adapter Kit for DFE/DFS gauges
тсм	100	E 230		ample order number CM100 Extended, 230 VAC 50 Hz UK and EU Power Cord and with a Base dapter Coupling Kit



Accessories

Standard Accessories

Description	Part Number	TCM A Version	TCM B Version
1/2-20F Thread Base Plate	6344-01	•	•
1/2-20M to 5/16-18M Coupling	17162	•	
1/2-20M to 10M/32M Coupling	NC003238	•	
5/8" Eye Adapter to 1/2 20 Male Thread/ w / Pin & Locking Rings	SPK-TLC-003		•
5/8" Eye End Kit and Grip Pin for DFE/DFS Gauges	SPK-TCM-001		•
TCM USB to PC USB Cable, 3M (for Upgrades & PC Connection)	SPK-TCM-016	•	•
TCM to DFG Cable (Load Limit Communication to TCM)	SPK-TCM-018	•	•

5/8" Eye Adapter to 1/2 20 Male Thread/ w / Pin & Locking Rings

SPK-TLC-003

Optional Accessories

Description	Part Number
Multi-Thread Plate Kit	SPK-TCM-005
T-Slot Table	SPK-TCM-011
Foot Switch	NC002910
Splinter Shield	SPK-TCM-012
DFS Series Remote Load Cell Adapter Kit	SPK-TCM-014
3" Compression Platen	SPK-TCM-013

TCM A Version

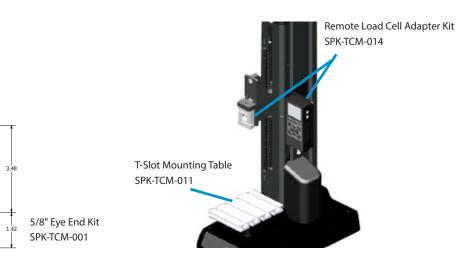


Coupling 1/2-20M to 5/16-18M 17162



Coupling 1/2-20M to 10/32M NC003238





Multi-Thread Plate SPK-TCM-005







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For detailed specifications go to the Data Sheet at ametektest.com

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