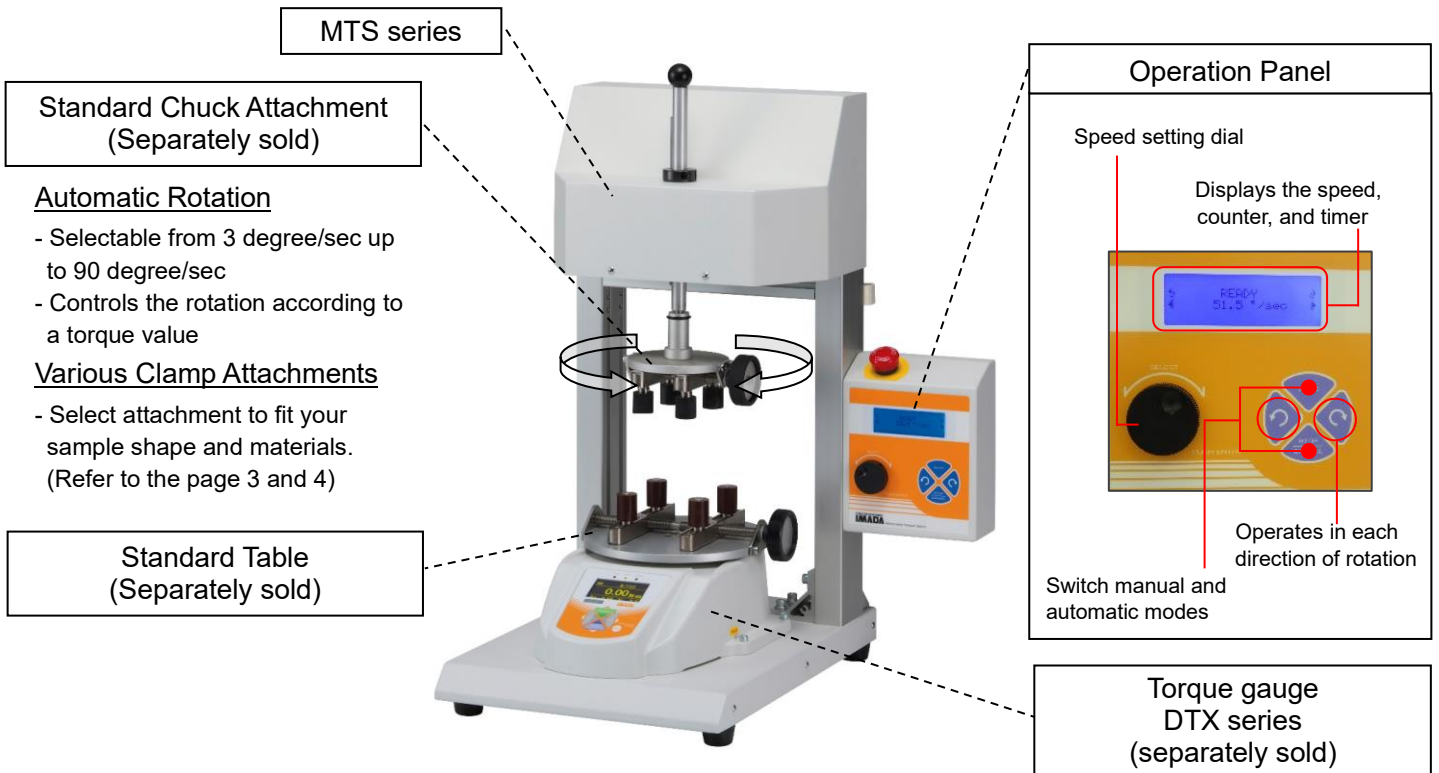


Motorized Torque Stand MTS series

- Achieves highly accurate measurement due to the constant rotation speed
- Various measuring functions such as automatic testing and torque-angle measurements and more
- A wide range of clamps/attachments available to fit your measurement requirement



[MTS Features]

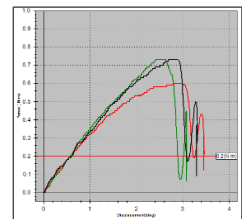
1. Highly repeatable measurement

Simply set the speed and press the start button to start highly repeatable measurements at constant test speed



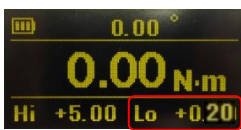
The Start Buttons

Speed Setting Dial



2. Automatic operation

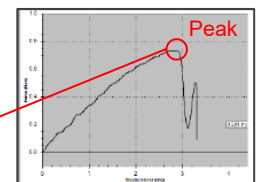
After acquiring the peak value, the measurement automatically stops when torque reaches the low setpoint



Set the **Low setpoint**



Start automatic mode testing



* This test method can be used to comply with corresponding part of JIS C 8280:2011" Edison screw lampholders"

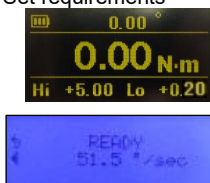
3. Repetition function (available for durability tests)

Set the measurement conditions to apply constant torque force repeatedly



For durability tests for bottle caps or circuit boards

Set requirements



High setpoint
Low setpoint

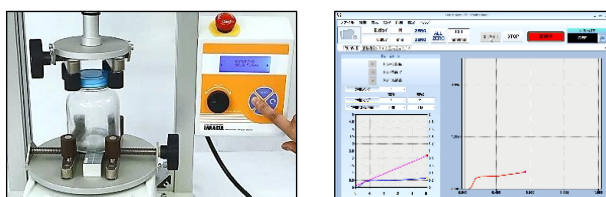
Rotating speed
Repeat number



4. Efficient measurement using software

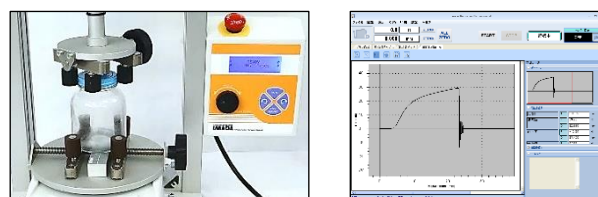
Measuring data can be drawn and saved by the software

Start testing



Press START button to start measurement, and software starts graphing at the same time.

Finish testing



When measurement is done, software stops graphing and saves the data automatically.

[MTS series specification]

Specifications	
Capacity	10N-m
Stroke	See [Dimensions]
Dimension	See [Dimensions]
Weight	Approx. 14kg
Speed range	3 to 90 degree/sec
Function	Manual mode, JOG mode, Automatic mode (CONTINUOUS, ONE WAY) (*1), Overload preventing function (*1), Speed adjustment
Option	Angle meter option (*2) (add the option code -RA after the model name)
Voltage level	AC100V to 240V, 50/60Hz, max 3A (*3)
Available temperature	0 to 40 degree Celsius
Available humidity	Less than 85% (No condensation)
Accessories	Power cable, Torque gauge connecting cable (*4), Centering stick, Spare fuse, Instruction manual, tools, Packing cardboard

*1 It is necessary to connect the torque gauge with supplied cable.

*2 This option enables sending angle data to torque gauge. DTXA torque gauge and Force Recorder Professional are required to record and check the angle. This option is a factory build-in option. It cannot be added afterwards.

*3 The fuse may need to be changed depending on the country, contact us or your local distributor for more details.

*4 The supplied cable is different depending on the model. (Standard model: CB-518, -RA option (angle meter option): CB-728)

[MTS series]

Model	MTS-10N	MTS-10N-L	MTS-10N-2L
Image			Printing
Maximum sample height	140mm	240mm	340mm
Feature	For small samples	For medium size samples	For large samples
Recommended samples *1	 Jam bottle, eye drop bottle, energy drink bottles, etc.	 PET bottle (500ml), feeding bottle, etc.	 PET bottle (1.5 liter or more)

* We offer custom-made options to meet your requirements. Contact us for more details

*1 You may need an extension shaft to measure small samples when using MTS-10N-L and MTS-10N-2L.
Refer to "How to select the extension shaft" below for more details.

[How to select the extension shaft]

For MTS-10N-L

Sample height	Required extension shaft
130 to 240mm	No need
Lower than 130mm	MT-EXT (100mm length)

For MTS-10N-2L

Sample height	Required extension shaft
230 to 340mm	No need
130 to 230mm	MT-EXT (100mm length)
Lower than 130mm	MT-EXT2 (200mm length)

* Refer to P7 for the dimensions of the shaft.

* MT-EXT and MT-EX2 can be combined, but the connecting part may not be stable during rotation. We offer an integrated shaft without connection. Contact us for more details.

[Optional Function -RA]

Angle meter option	
Code	Features
-RA	The relationship between torque and angle can be analyzed by using with torque gauge DTXA series. *Add the code to the end of model. For example: MTS-10N- <u>RA</u>

* TAA series Torque-Angle Analysis Unit, which includes MTS series (-RA options) and DTXA series torque gauge are also available.
Refer to TAA series specification sheet for more details