

Motorized Test Stand MX Series

MX-500N/1000N

Achieves high repeatability with constant testing speed and position
Handles a wide range of test applications such as tension, compression and peel test
Offers overload stop and force control function when connected with force gauge *

* Activated when ZTS/ZTA series force gauge and CB-508 cable are used together.



MX-500N



MX-1000N

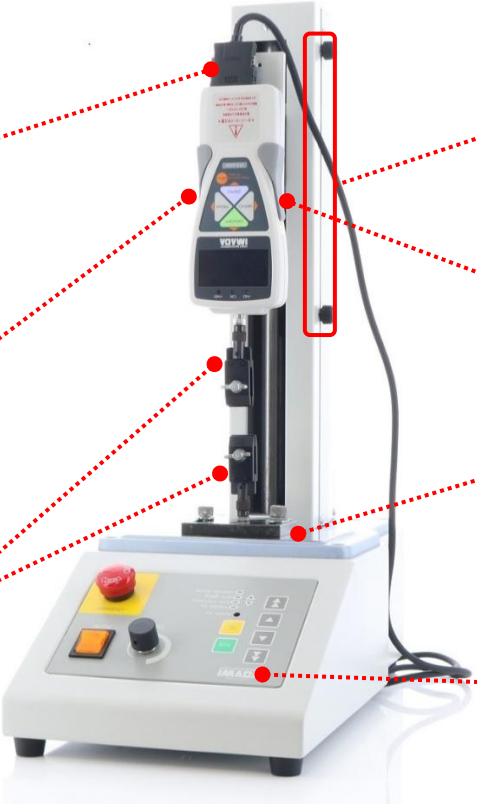
Three Modes		
Manual mode	Single cycle mode	Continuous cycle mode
The head moves when pressing and holding the button.	The head starts moving after pressing the button, and it returns automatically when it reaches travel limit.	The head repeats travelling between its upper and lower travel limit.

[Application Example and Configurations]

[Optional Cable]
Connects force gauge and test stand to activate overload prevention and force control function.

[Force Gauge]
Measures compression, tensile, peel strength, etc. Mountable to test stand with screws.

[Optional Attachments]
Integral components to complete a testing system, selectable from a wide range to suit your testing applications.



The image shows the IMADA MX-500N Motorized Test Stand. It is a white, boxy machine with a vertical column and a horizontal arm. A force gauge is mounted on the arm. A control panel is on the front. Red dotted lines with dots point to various components: the optional cable, the force gauge, the optional attachments, the stroke limit knobs, the head, the table, and the operation panel.

[Stroke Limit]
Set limits of stroke easily with these knobs.

[Head]
Moves upward and downward with mounted force gauge.

[Table]
Attachments or testing samples can be mounted on the table.

[Operation Panel]
Used for settings, operations and emergency stop.

MX-500N

*Force gauge, optional attachments and optional cable are sold separately.

[Main Options]

Long stroke (-L)	Speed change (-V)
This option provides extended stroke. Useful when testing stretching samples or testing for long distance.	This option changes the speed range. Useful for tests that require faster or slower speed condition.
	
Speed and length meter (-E)	Length meter (-S)
This option displays the measuring speed and travel distance of force gauge.	Built in digital screen indicates travel distance of force gauge.
	

Specifications		
Model	MX-500N	MX-1000N
Image		
Capacity	500N	1000N
Speed	10-300mm/min	8-240mm/min
Max. Sample Height	Approx. 235mm *1	Approx. 420mm *1
Stroke Limit	Controllable with upper and lower knob	
Measuring Modes	Manual mode, Single cycle mode, Continuous cycle mode	
Functions	Emergency stop, force control (*2), overload stop (*2, *3)	
Operating temperature humidity	0 to +40 degree Celsius 35 to 70% (avoid condensation)	
Voltage	AC100 to 240V, 50/60Hz (Select from 100, 120 and 230V. Accessories are provided accordingly.)	
Power Consumption	50W	
Dimensions	See [Dimensions]	
Weight	Approx. 13kg	Approx. 24kg
Accessories	Operation manual, power cable, spare fuse, tools	
	GF-1 (Grip mounting adaptor)	GF-2 (Grip mounting adaptor)
Available Options *4*5*6	-E: Speed and length meter -S: Length scale -L: Extended stroke by 200mm -V60: Speed 2 to 60mm/min -V600: Speed 20 to 600mm/min -V1200: Speed 40 to 1200mm/min	-E: Speed and length meter -S: Length scale -L: Extended stroke by 250mm -V120: Speed 4 to 120mm/min -V400: Speed 15 to 400mm/min -V600: Speed 20 to 600mm/min -V800: Speed 27 to 800mm/min -V1200: Speed 40 to 1200mm/min
Mountable Force Gauges	See [Mountable Force Gauges] on page 4	

*1 This value is the distance between the test stand table and the tip of force gauge measuring shaft when the head is in the uppermost position. (When up to 1000N model of ZTS/ZTA series is mounted.)

*2 ZTS/ZTA series force gauge and optional cable CB-508 are required.

*3 It does not guarantee complete protection against overloading.

*4 Add the option code after the model name to complete the model with options.

e.g. When adding long stroke option to MX-500N, the model becomes MX-500N-L.

*5 The deflection amount becomes larger when the option (-L) is selected.

*6 Capacity is reduced as below by some speed change options.

Model	MX-500N	MX-1000N
-V400		500N
-V600	250N	500N
-V800		300N
-V1200	100N	200N

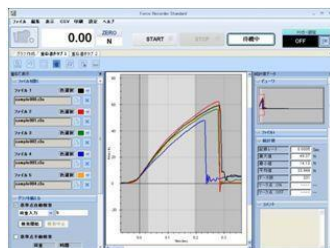
[Mountable Force Gauges]

	MX-500N	MX-1000N
DST/DSV-2N to 1000N	✓	✓
ZTS/ZTA-2N to 1000N	✓	✓
ZTS/ZTA-2500N to 5000N	N/A	✓
DPU-2N to 500N	N/A	N/A
DPUH-1000N to 5000N	N/A	N/A
FB/FS/PS/PSS/PSM series	✓	✓
PSH series	N/A	✓

* Load cells not listed cannot be mounted on any of our test stands.

* Ensure to use within the capacity of force gauge and test stand regardless of the mountable models.

[Related Products]

Digital Force Gauge ZTS/ZTA series	Digital Force Gauge DST/DSV series	Optional Cable CB-508
Digital force gauge capable of measuring at a sampling rate of 2000 Hz. Connection with MX series by the cable CB-508 enables interlinking functions.	Digital force gauge with excellent cost-performance capable of managing data with PC.	Connects digital force gauge ZTS/ZTA series and test stand MX series to activate interlinking functions.
		
Standard Type Vertical Motorized Test Stand MX3 series	Advanced Type Vertical Motorized Test Stand EMX2 series	Software Force Recorder series
Motorized test stand that allows for easy digital adjustment of measurement modes, speed, and other settings. A variety of interlinking functions can be activated by connecting a force gauge.	In addition to the features of the MX3 series, EMX2 series is equipped with a variety of functions, including digital setting of test distances. Test speeds can be set from 0.5 to 600 mm/min.	Plots highly responsive force-time graphs at a recording rate up to 2000Hz. (Refer to the individual specification for compatible force gauges.)
		

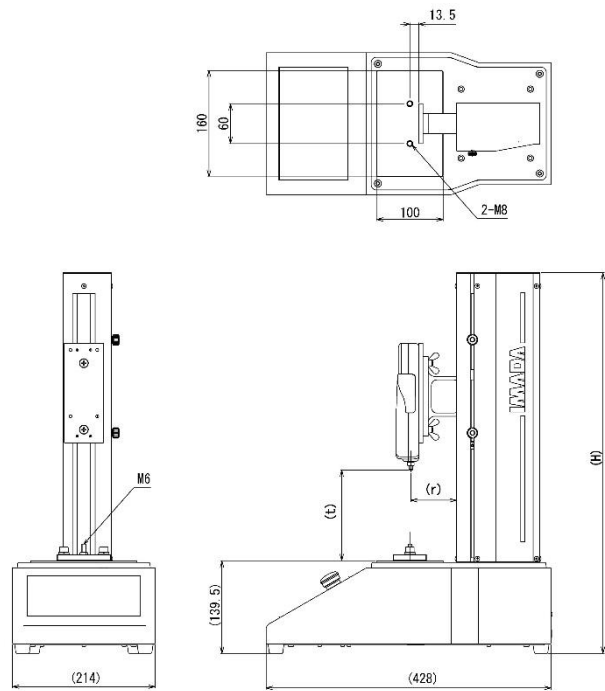
[Force gauge Interlinking function] Applicable with the ZTS/ZTA series and CB-508 connections.

- Overload Stop: Automatically stops the operation when an overload signal is received from the force gauge. (This function does not guarantee complete prevention of failures due to overloads.)
- Test stand operation control with the force gauge (Stop/Revers/Force value keep) according to the force value.

[About MX series Dimensions]

Grip mounting adaptor, GF-1/GF-2, is depicted on the front view and the side view but not on the top view of MX2 series Dimensions. “M6” or “M10 (for 1000N or higher models)” on the front view and the side view are for attachment installation and “M8” on the top view indicates the position of holes for the screw to fix the grip mounting adaptor to the stand.

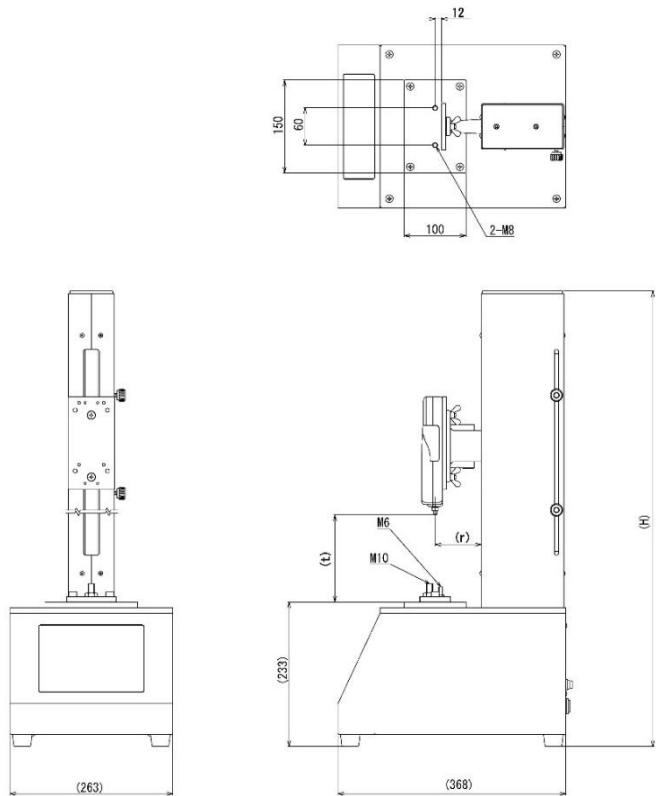
[MX-500N Dimensions]



		MX-500N	MX-500N-L
H		573	773
r	With DST/DSV/ZTS/ZTA (2N to 500N) mounted	68	
t	With DST/DSV (2N to 1000N) mounted	260	460
	With ZTS/ZTA (2N to 1000N) mounted	250	450

Unit: mm

[MX-1000N Dimensions]



		MX-1000N	MX-1000N-L
H		903	1153
r	With DST/DSV/ZTS/ZTA (2N to 1000N) mounted	74	
t	With DST/DSV mounted	430	680
	With ZTS/ZTA (2N to 1000N) mounted	420	670

Unit: mm

[Cautions]

- Information in this document is subject to change without prior notice.
- This document is product descriptions and handling precautions, and do not guarantee various characteristics or safety.
- This product is designed for force measurement purpose only.
- Do not copy and use this content without authorization.
- A force gauge (sold separately) is required to use this product.
- Do not use this product in the environments including fierce temperature changes, high temperature, high humidity, near water, dusty place.

FOR MORE INFORMATION PLEASE CONTACT:



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