Motorized Test Stand MX Series
MX-500N/1000N/5000N

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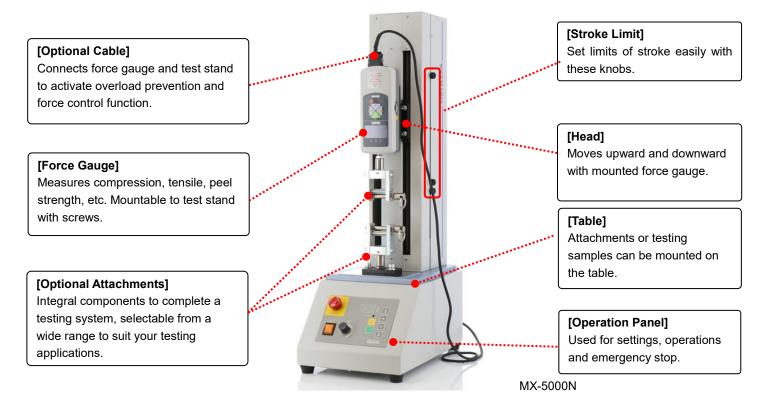Offers overload prevention and force control function when connected with force gauge *

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

MX-500N

MX-5000N

Three Modes		
Manual mode	**Single cycle mode**	**Continuous cycle mode**
The head moves when press and hold the button.	The head starts moving after press 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.

[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-5000N

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

[Main Options]

Long stroke (-L)	Speed change (-V)	Speed and length meter (-E)
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.	This option displays the measuring speed and travel distance of force gauge.

Specifications			
Model	**MX-500N**	**MX-1000N**	**MX-5000N**
Image			
Capacity	500N	1000N	5000N
Speed	10-300mm/min	8-240mm/min	10-300mm/min
Max. Sample Height *1	Approx. 235mm	Approx. 420mm	Approx. 340mm
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 prevention (*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		75W
Dimensions	See [Dimensions]		
Weight	Approx. 13kg	Approx. 24kg	Approx. 30kg
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 -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 -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	-E: Speed and length meter -V150: Speed 5 to 150mm/min
Mountable Force Gauge ***7**	Mechanical Force Gauge: FB, PS, PSM series Digital Force Gauge: DST, DSV, ZTS, ZTA series (Up to 1000N)		
		Mechanical Force Gauge: PSH series Digital Force Gauge: ZTS, ZTA series (Over 2500N)	

*1 Max. sample height refers to the distance between the table and the tip of force gauge measuring shaft when the head is at the top. (MX-500N/MX-1000N: up to 1000N model of ZTS/ZTA series, MX-5000N: over 2500N 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.

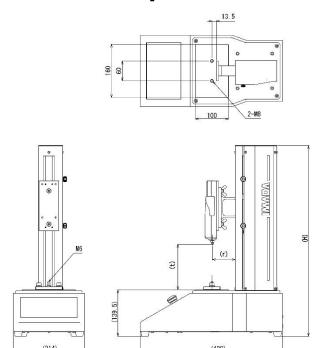*5 The deflection amount becomes larger when the option (-L) is selected.

*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

*7 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**	Motorized Stand **MX2 series**
It offers precise measurement due to its high sampling rate up to 2000Hz. Use optional cable to control motion together with MX series.	Digital force gauge with excellent cost-performance capable to manage data with PC.	Measuring mode and speed can be set digitally. A variety of control functions can be activated by connecting a force gauge.
Software **Force Recorder series**	Optional Cable **CB-508**	
It is designed for data graphing with high accuracy when connected with digital force gauge ZTS/ZTA series.	Connects digital force gauge ZTS/ZTA series and test stand MX to activate overload prevention and force control function.	

[Control Functions] Activated when ZTS/ZTA series force gauge and CB-508 are used together.

-Overload Prevention: Prevents the sensor from getting damaged due to overloading.
  (It does not guarantee complete protection against overloading.)
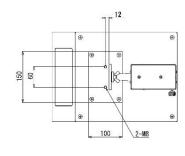-Force control: Allows to set a force value to apply or to stop.
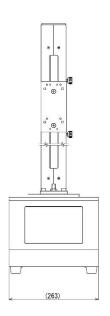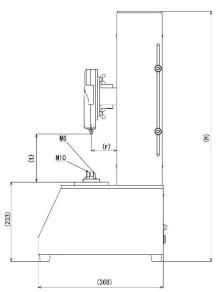
[MX-500N Dimensions]

		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 500N) mounted	260	460
	With ZTS/ZTA (2N to 500N) 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

FORCE MEASUREMENT
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[MX-5000N Dimensions]

		MX-5000N
H		816
r	With DST/DSV/ZTS/ZTA (2N to 1000N) mounted	69
	With ZTS/ZTA (2500N to 5000N) mounted	68
t	With DST/DSV mounted	345
	With ZTS/ZTA (2N to 1000N) mounted	340
	With ZTS/ZTA (2500N to 5000N) mounted	345

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.

IMADA CO., LTD
99 Jinnoshinden-cho aza Kanowari Toyohashi
Japan 441-8077
Tel: +81-(0)532-33-3288
Fax: +81-(0)532-33-3866
E-mail: info@forcegauge.net
Website: http://www.forcegauge.net/en/

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