

Motorized test stand MX2-1000N/2500N

With a force gauge and attachments, compression/tensile/peeling tests are possible up to 1000N/2500N. It provides consistent testing speed and direction, offering highly accurate test results.

MX2-2500N

This is a model with FA option.
 Cable is NOT included.

A force gauge

*It is NOT included.



MX2-1000N/2500N Feature

More precise measurement

Since the rigidity of the axis is high and it is hardly bent, more precise measurement is possible.

Different tests are possible by changing attachments

With a variety of attachments, different types of sample can be tested.



Retort pouch durability test



Nozzle tension strength test

**We provide special attachments only for you.*

Wide space

Table size is 200*100(mm), wide enough to put sample easily.

Easy to operate

Good angle of the control panel makes it easier to operate and see its monitor

Easy to operate even for beginners



With one dial

Speed adjustment

- Set-up the number of test
- Fine adjustment of a force gauge's position are possible.

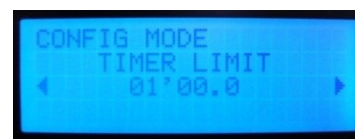


Set up the number of test

Possible to select from 1 to 65535 times



Ideal for repetition test



Set up the pausing time

Possible to set up pausing time at selected place



Ideal for durability test

Prevention against sensor break-down and operation control with an optional cable

It stops operation before force over capacity is added, or its operation is controlled according to load values When you combine it with a ZT series force gauge and an optional cable.

*We cannot assure the perfect prevention against sensor break-down.

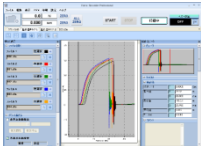



[Application Example]

Retort pouch compression test	Metallic board breaking test	Thick wire tensile test
Recommended test stand: MX2-1000N/2500N	Recommended test stand: MX2-1000N/2500N	Recommended test stand: MX2-2500N
Possible to test pressure-resistant of retort pouch with PR-2500N, compression fixture.	Possible to test bending strength of metallic board.	Possible to test thick wire's harness and its covering tear or slip.

[Configuration Example]

	Measuring instrument	Software	Cable	Attachment
Simple measurement	Mechanical force gauge PSH series 	N/A	N/A	
	For measuring maximum value	—	—	
Graph drawing Data management	<p>Auto graphing function</p> <p>Test start → Start drawing a graph with the test stand motion start.</p> <p>Test finish → The graph drawing is finished and saved at the end of the test.</p> <p>The stand operation and graph drawing can be linked by the following products * Please refer the MX2, EMX, MH2 application examples on page 3.</p>			<p>Please select the suitable attachment for your sample. We will help your selecting if necessary.</p> <p>We also accept custom-made order for your test. Please feel free to contact us.</p>
	Digital force gauge ZTS series 	Graph drawing software Force Recorder Standard 	Connection cable CB-518 	
	Connection to external equipment Comparator function	Force-time graph	Overload prevention *1 Force control	

Force-displacement Measurement*	<p><u>Force-displacement measuring unit FSA series*</u></p> <ul style="list-style-type: none"> - A test stand with a linear scale (MX2-1000N-FA, MX2-2500N-FA) - A digital force gauge ZTA series - Force displacement graphing software (Force Recorder Professional) - Connection cable (CB-718) - Attachments 	 	<p>Please select the suitable attachment for your sample. We will help your selecting if necessary.</p> <p>We also accept custom-made order for your test.</p> <p>Please feel free to contact us.</p>
	<p>MX2-1000N/2500N can be upgraded for force-displacement measurement. With FSA series, you can perform force-displacement analysis very easily.</p>		

*1 We cannot assure the perfect prevention against sensor break-down.

* Please refer to specifications for FSA series for further information. Other models are also available.

[MX2-1000N/2500N Specifications]





[Functions/Operating environment/Accessories]

Model		MX2-1000N	MX2-2500N	
Capacity	Maximum force to be added	1000N	2500N	
Functions	Speed	Speed range available		
		Unit	10-20mm/min	Able to set up speed every 0.5mm/min
			20-100mm/min	Able to set up speed every 5mm/min
	100-300mm/min		Able to set up speed every 10mm/min	
	Stroke	Max distance from table to tip of measurement shaft of force gauge when the head is on top	290mm	
	Maximum height of a sample	Please refer to "t" of Dimensions in page 5 and 6.		
	Rigidity	Max gap of distances from table to tip of gauges, under no force and max force applied.	[Standard type] less than 0.5mm	[Long stroke] less than 1.0mm
	Stroke limit	Controllable with upper/lower stroke limit sensor		
	Display of speed	Speed is displayed digitally		
	Force control	Operation is controllable at selected force. *1		
	Overload prevention	Operation automatically stops when force over capacity is applied.*1*2		
	Mode	Manual/Jog/Cycle mode		
Timer	Possible to set up pausing time every 0.1 sec, up to 99min59.9sec			
Counter	Count or set up the number of tests (Max 65535 times)*3			
The body	Operating temperature	0+40 degree Celsius		
	Operating humidity	35-70%, avoid condensation		
	Power voltage	AC100 ~ 240V,50/60Hz (Please specify from 100.120.230V. Accessories are different)		
	Power consumption	50W		
	Size Standard type [Long stroke]	280*421*660(mm) [280*421*960(mm)]	280*410*644(mm) [280*410*944(mm)]	
	Weight	Approx. 19kgf	Approx. 26kg	
Accessories	Manual, Power cable, Grip mounting adaptor, High capacity gauge mounting plate (only for MX2-1000N), Small gauge mounting plate (only for MX2-2500N), Cover, Spare hues, and Tools.			
Manual mode		JOG mode	Cycle mode	
Possible to keep a force gauge moving upward or down word while the buttons are pressed.		Possible to move a force gauge in small increments, by turning its dial	Measurement starts only by pressing a button according to operating conditions fixed in advance automatically.	

*1 Possible only when ZT series force gauge and digital force amplifier are connected with an optional cable.

*2 We do not assure you that it can prevent overload completely.

*3 If you need to test repeatedly more than 65535 times, please feel free to contact us.

PSH	DS2	ZT (2 to 1000N)	ZT (2500 to 5000N)
			

[Option] Specification can be changed flexibly according to your measurement conditions.

We fulfill your needs such as
“Faster speed is necessary” “Longer stroke is needed” “Wider space for sample is required”

[Option example]

	Specification	Model
Option	Long stroke (To extend stroke by 300mm) *1	MX2-1000N-L, MX2-2500N-L
	Length measuring instrument (For displacement measurement)	MX2-1000N-S, MX2-2500N-S
	Speed change (Change from standard type) *1	MX2-1000N-V, MX2-2500N-V
	External signal input (To mount connector for external I/O)	MX2-1000N-CN, MX2-2500N-CN
	FA type (A linear scale for measuring displacement built in) *2	MX2-1000N-FA, MX2-2500N-FA

*1 Please feel free to contact us if you would like to change stroke and range of speed.

*2 Please refer to Configuration Example on page2.

[MX2-1000N-CN, MX2-2500N-CN option example] ←

Start input	Interlock input	Operating state output
Possible to start and stop operation with a foot pedal switch connected to MX2-1000N/2500N.	A box surrounding MX2-1000N/2500N is available, and makes it possible to stop operation when its door is open.	It notifies you operating status by buzzer or light.


[Speed change option] ←

Speed changed model	Speed range	Allowable capacity
MX2-1000N-V75	2~75 mm/min	1000N
MX2-1000N-V150	5~150 mm/min	1000N
MX2-1000N-V750	25~750 mm/min	500N
MX2-1000N-V1000	35~1000 mm/min	250N
MX2-1000N-V1500	50~1500 mm/min	100N
MX2-2500N-V45	1.5~45 mm/min	2500N
MX2-2500N-V75	2.5~75 mm/min	2500N
MX2-2500N-V150	5~150 mm/min	2500N

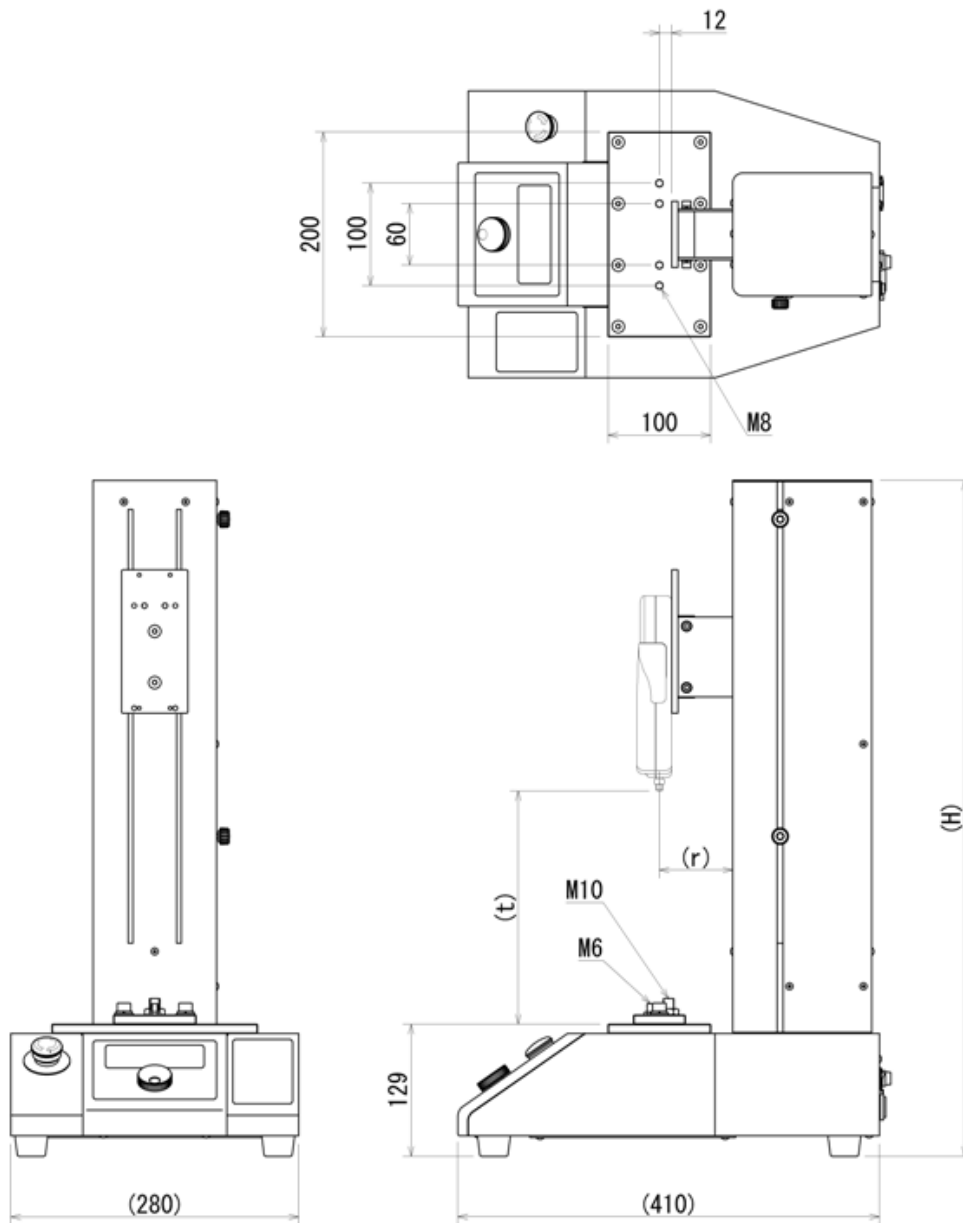
* Please note the decreasing of allowable capacity by the speed change.

* Please feel free to contact us for the other speed range change.

[Option example for safety]

Anti-scattering panel	Adapter for safety against overturning
	[preparing]
Cover the front of a test stand and reduce the risk of sample scattering and injured.	It prevents MX2-1000N/2500N from overturning in disasters such as earthquake.

[Dimensions for MX2-1000N]

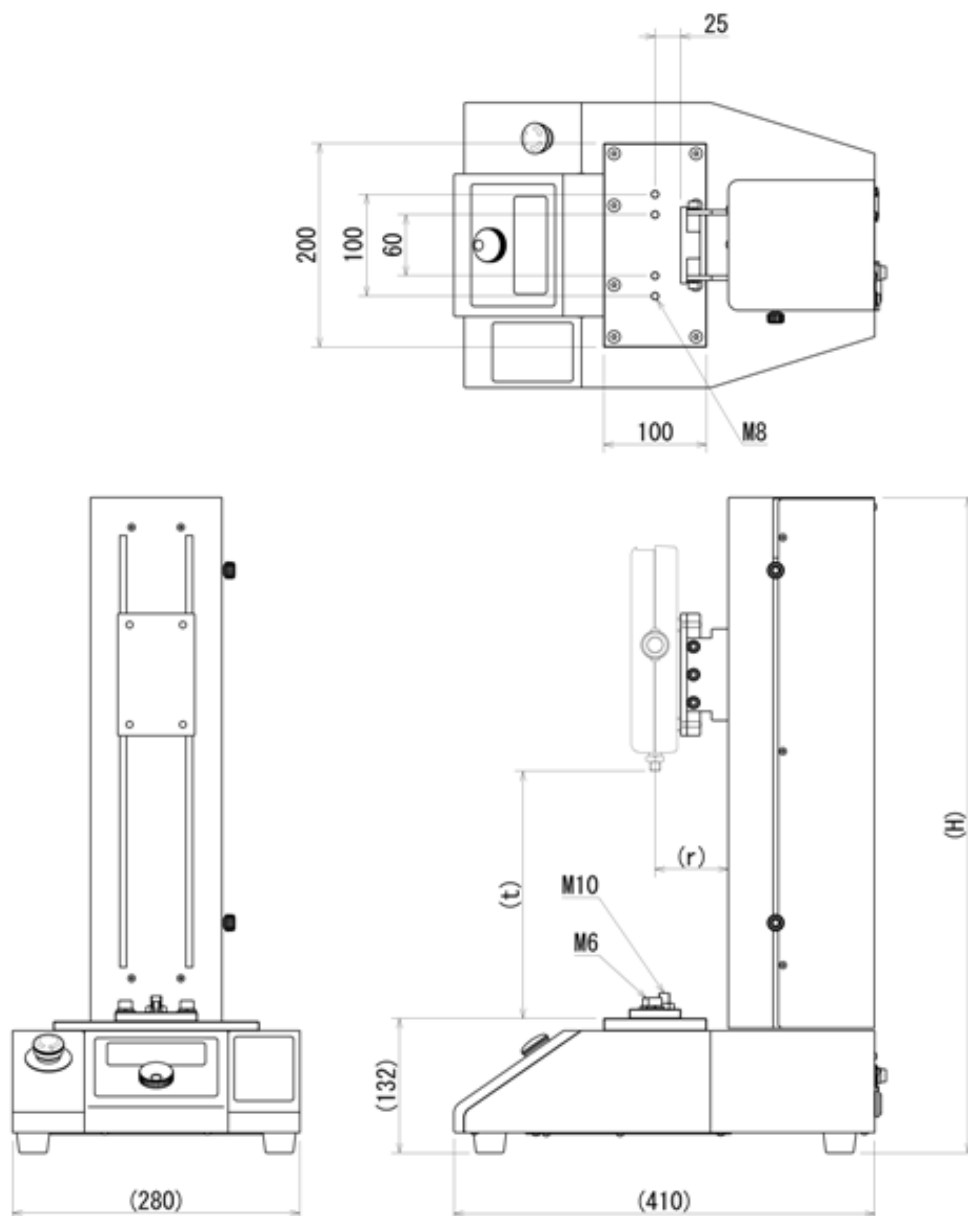


*Unit is mm

[Size]

		MX2-1000N	MX2-1000N-L
H		660	960
r	When DS2/ZT(2N to 1000N) is mounted	71	
	When ZT(2500N to 5000N) is mounted	74	
	When DPU(lower range of 500N) is mounted	69	
	When DPU(higher range of 1000N) is mounted	73	
t	When DS2 is mounted	310	610
	When ZT(2N to 1000N) is mounted	300	600
	When ZT(2500N to 5000N) is mounted	340	640
	*1 When DPU(2N to 10N) is mounted	325	625
	When DPU(20N to 500N) is mounted	315	615
	When DPU(1000N to 5000N) is mounted	345	645

*1 The value is without attachments. Please note that the maximum height of sample will be shorter than “t” when you combine a gauge or a load cell with attachments.



*Unit is mm

		MX2-2500N	MX2-2500N-L
H		644	944
r	When DS2/ZT(2N to 1000N) is mounted	72	
	When ZT(2500N to 5000N) is mounted	71	
	When DPU(lower range of 500N) is mounted	70	
	When DPU(higher range of 1000N) is mounted	74	
*1 t	When DS2 is mounted	320	620
	When ZT(2N to 1000N) is mounted	315	615
	When ZT(2500N to 5000N) is mounted	320	620
	When DPU(2N to 10N) is mounted	290	590
	When DPU(20N to 50N) is mounted	285	585
	When DPU(1000N to 5000N) is mounted*2	210	510

*1 The value is without attachments. Please note that the maximum height of a sample will be shorter than “t” when you combine a gauge or a load cell with attachments.

*2 An optional adaptor is needed to mount DPU series (from 1000N to 5000N). Please contact us for further information.

IMADA CO.,LTD.

Motorized test stand MX2-1000N/2500N



[Cautions]

- *The contents may be changed without notice in advance.
- *This product is designed for measurement purpose only.
- *Do not copy the contents without permission.
- *Force gauge is not included but necessary for force measurement.

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