

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

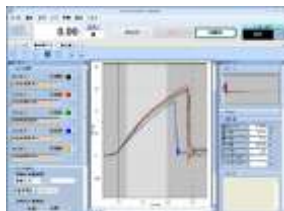
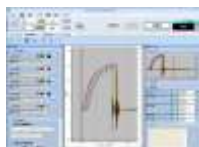
Easy to operate even for beginners

		
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	Please select attachments or fixtures fit for your sample. We will advise for choosing it. We also provide special attachment according to your sample. Please feel free to contact us for advice.
	For measuring maximum value	—	—	
Graph drawing Data management	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*	<u>Force-displacement measuring unit FSA series*</u> - 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  			
	MX2-1000N/2500N can be upgraded for force-displacement measurement. With FSA series, you can perform force-displacement analysis very easily.			

*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 range available	10-300(mm/min)	
	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.

[Force gauges mountable to MX2-2500N]

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

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

We meet your needs like

“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.

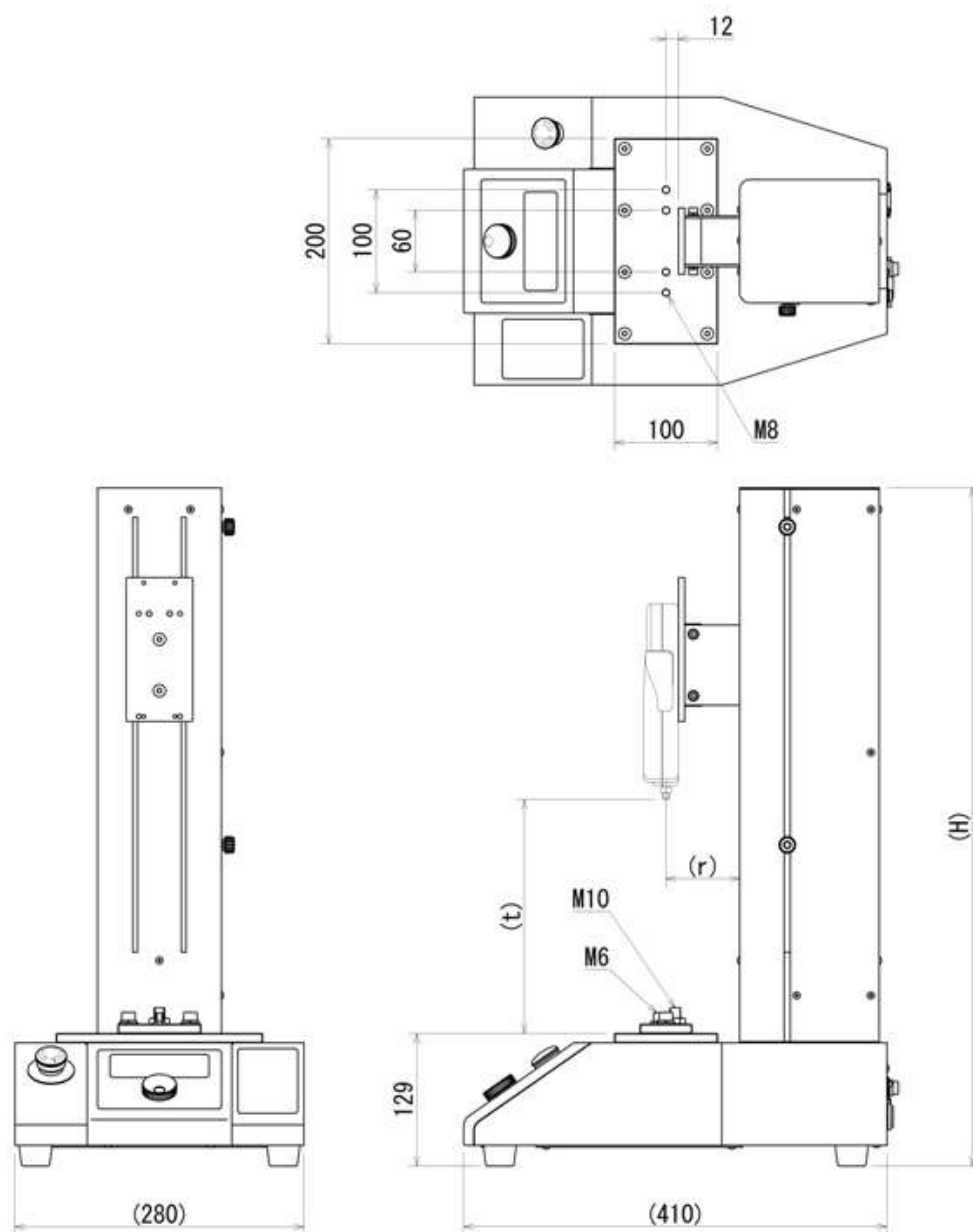
[MX2-1000N-CN, MX2-2500N-CN option example] ←

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.

[Option example for safety]

Anti-scattering panel	Adapter for safety against overturning
	[preparing]
It is useful for the prevention against sample scattering and good for your safety as well	It prevents MX2-1000N/2500N from overturning in disasters such as earthquake.

[Dimensions for MX2-1000N]



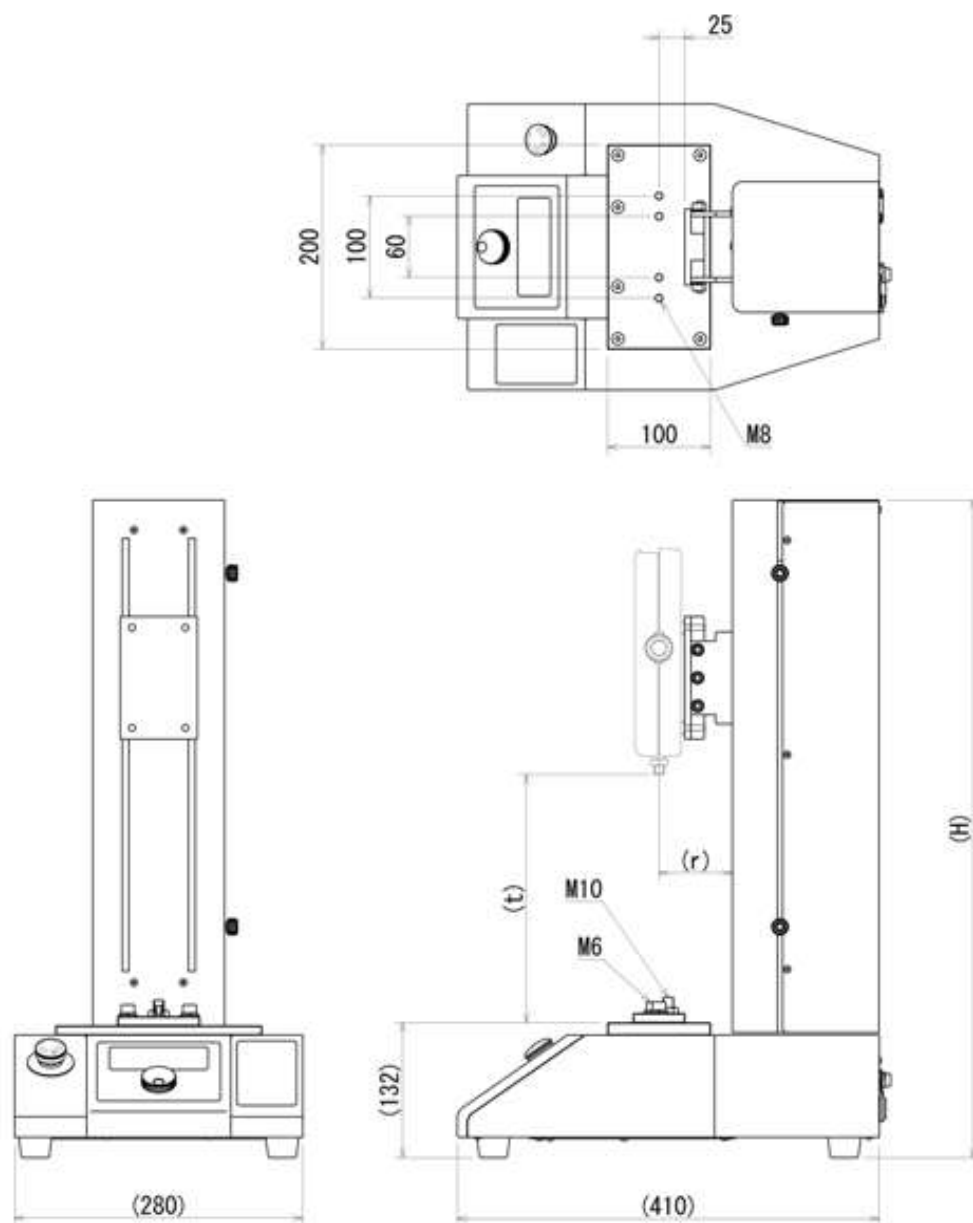
*Unit is mm

[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 *1	When DS2 is mounted	310	610
	When ZT(2N to 1000N) is mounted	300	600
	When ZT(2500N to 5000N) is mounted	340	640
	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.

[Dimensions for MX2-2500N]



*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	
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.

[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.