

Motorized test stand MX2-500N

With a force gauge and attachments, compression/tensile/peeling tests are possible up to 500N. It provides consistent testing speed and direction, offering highly accurate test results.

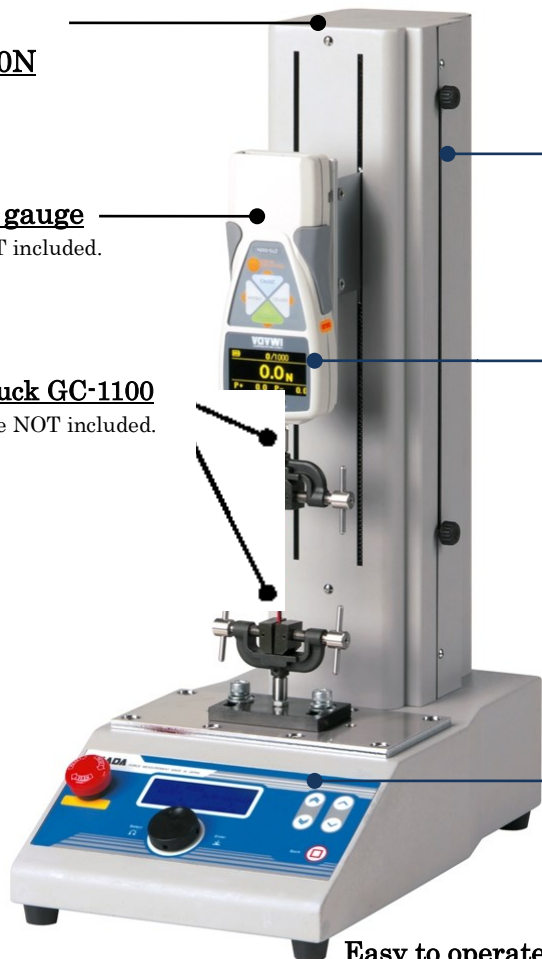
MX2-500N

A force gauge

*It is NOT included.

Flat chuck GC-1100

*They are NOT included.



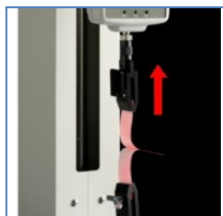
MX2-500N Feature

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.



180 degree peel test of heat sealing



USB connector extracting/inserting force test

**We provide special attachments only for you.*

Space saving size

It needs only approx. A3 paper size space to place on.

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.

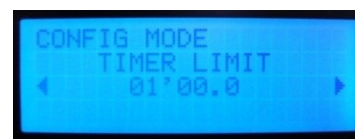


Set up the number of test

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.


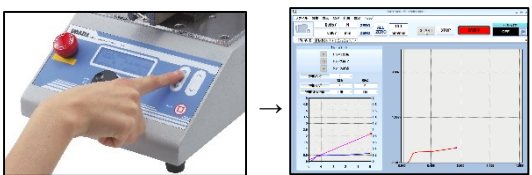
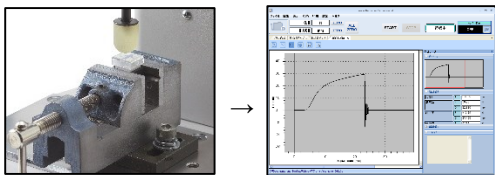

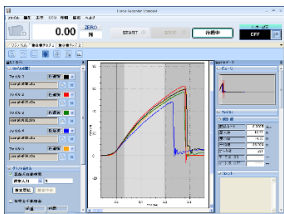

*We cannot assure the perfect prevention against sensor break-down.



[Application Example]

90 degree peeling test	Film sticking test	Crimp pull test
Peeling test of tape, an adhesive, and more is possible.	Sticking strength test of packaging material, PET bottle, and more is possible.	Crimp pull strength test is possible.
		

[Configuration Example]

	Measuring instrument	Software	Cable	Attachment
Simple measurement	Digital force gauge DS2 series 	N/A	N/A	
	For measuring maximum value	—	—	
Graph drawing Data management	<p>Auto graphing function</p> <p>Test start</p>  <p>Start drawing a graph with the test stand motion start.</p> <p>Test finish</p>  <p>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 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.</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 (MX2-500N-FA) - A digital force gauge ZTA series - Force displacement graphing software (Force Recorder Professional) - Connection cable (CB-718) - Attachments 		<p>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.</p>
	<p>MX2-500N 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.

[Specifications]

[Functions/Operating environment/Accessories]

Model		MX2-500N	
Capacity	Maximum force to be added	500N	
Functions	Speed	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	230mm
	Maximum height of a sample	Please refer to “t” of Dimensions in page 5.	
	Rigidity	Max gap of distances from table to tip of gauges, under no force and max force applied.	Less than 0.5mm
	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]	220*380*562(mm) [220*380*762(mm)]	
	Weight	Approx. 18kg	
Accessories	Manual, Power cable, Grip mounting adaptor (GF-1), 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]

PS	DS2	ZT (2 to 1000N)
		

[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 200mm) *1	MX2-500N-L
	Length measuring instrument (For displacement measurement)	MX2-500N-S
	Speed change (Change from standard type) *1	MX2-500N-V
	External signal input (To mount connector for external I/O)	MX2-500N-CN
	FA type (A linear scale for measuring displacement built in) *2	MX2-500N-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.

[MX2-500N-CN option example] ←

Start input	Interlock input	Operating state output
Possible to start and stop operation with a foot pedal switch connected to MX2-500N.	A box surrounding MX2-500N 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
MX2-500N-V45	1.5~45 mm/min	500N
MX2-500N-V90	3~90 mm/min	500N
MX2-500N-V450	15~450 mm/min	500N
MX2-500N-V600	20~600 mm/min	250N
MX2-500N-V900	30~900 mm/min	150N

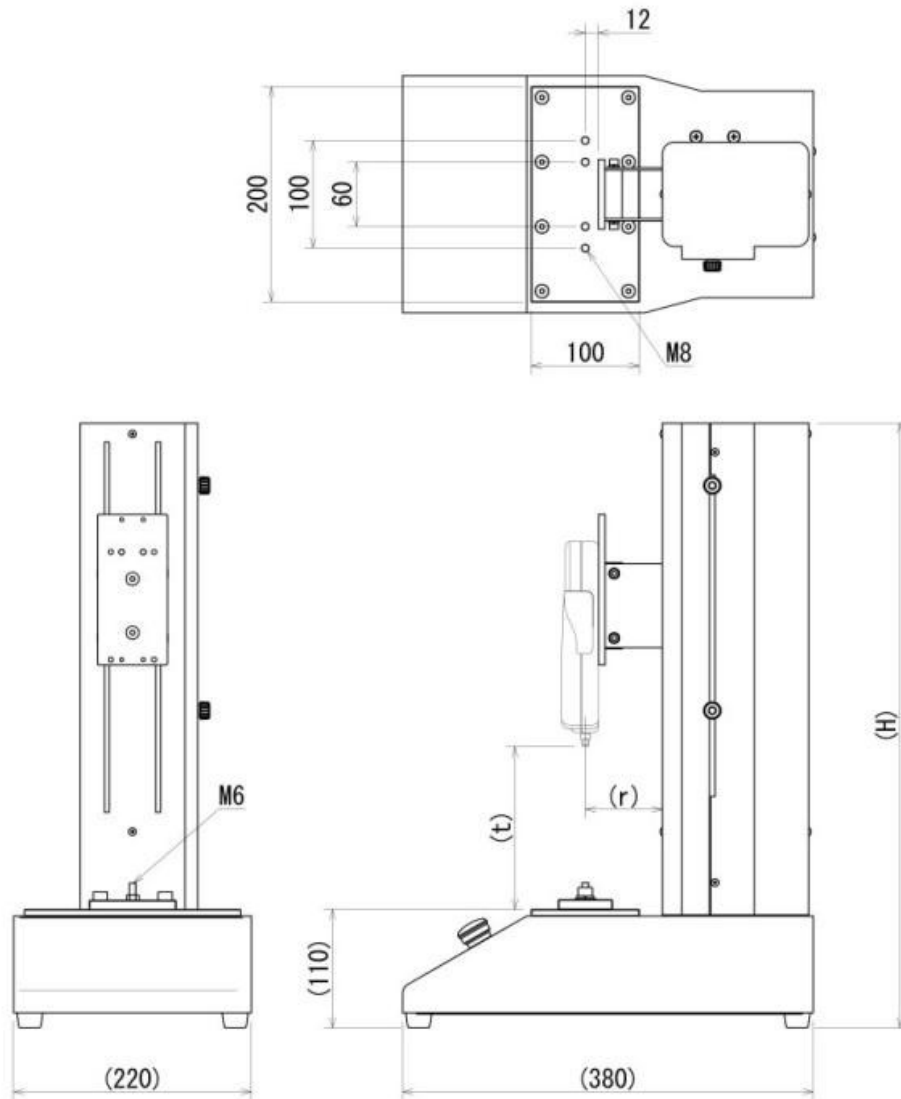
* Please note the decreasing of allowable capacity by the speed change.

* 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]
It is useful for the prevention against sample scattering and good for your safety as well	It prevents MX2-500N from overturning in disasters such as earthquake.

[Dimensions]



*Unit is mm

		MX2-500N	MX2-500N-L
H		562	762
r	When DS2/ZT(2N to 500N) is mounted	71	
	When DPU(lower range of 500N) is mounted	69	
t*1	When DS2 is mounted	245	445
	When ZT(2N to 500N)is mounted	235	435
	When DPU (2N to 10N) is mounted	260	460
	When DPU (20N to 500N) is mounted	250	450

*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.

[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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