

Motorized test stand EMX-1000N

High end model available up to 1000N (100kgf).

It offers accurate test result and easy operation.

You can set up travel to move a mounted force gauge up/down by 0.1mm. 5 operating patterns (test speed/travel/test number of times) can be saved at maximum.

EMX-1000N

Easy operation

Limitless testing applications are possible with various grips and fixtures.

Easy control

Simple button operation. Good angle of control panel makes it easy to operate.

Operating patterns can be saved.

5 operating patterns can be saved at maximum, saving time to set up.

NOT included.



Precise measurement

High rigidity

Ideal for precise measurement due to high rigidity of column.

Wide range of test speed.

You can move the force gauge up and down at speed from 0.5mm to 600mm/min

Speed shift point

You can choose the point to shift its test speed with the knob.

Digital setup of travel

You can set up travel to move the mounted force gauge up and down by 0.1mm digitally.

Synchronized with external equipment

You can combine it with external equipment, improving testing efficiency etc.

[Example]

Start input	Interlock input	Operating state output	
	A box surrounding EMX-1000N is available, and makes it possible to stop operation when its door is open.	It notifies you operating status by buzzer or light.	

^{*}A force gauge, jigs, and cable are



Easy to operate even for biginners



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 And pausing time

[The number of test] 1 to 65535 times [Pausing time] up to 99min59 .9sec

(per 0.1 sec)

Ideal for repetition / durability test



Set up the travel

You can set up travel to move a mounted force gauge up/down by 0.1mm.

 \downarrow

High repeatability
More accurate test result

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.

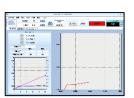


©Useful functions for improving test efficiency.

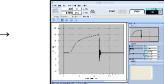
Auto graphing function











Start drawing a graph with the test stand motion start.

The graph drawing is finished and saved at the end of the test.

The stand operation and graph drawing can be linked by the following products

 $\mbox{*}$ Please refer the MX2, EMX, MH2 application examples on page 3.

Digital force gauge	Force-Time graph drawing software	Connection cable	
ZT series	Force Recorder (Light/ Standard)	CB-518	
Follow and capture data properly at 2000 Hz sampling rate though it is momentary force. It realize s accurate measurements.	The software drawing a graph of time and force on PC. (For ZT series)	Connect a force gauge ZTS series and EMX-1000N. Activate the over load prevention(*1) and force control function.	

^{*1} It is NO GUARANTEE to prevent for sensor break-down, completely.



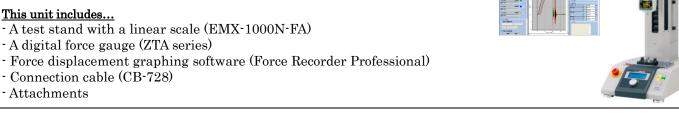
• [Force-Displacement Applications]

Camera shutter switch feeling test	Material bending test	Material softness test
Switch feeling test is possible.	Bending strength test of metal or plastic board is possible.	Material softness can be analyzed.

*EMX-1000N can be upgraded to enable force-displacement measurement. Please refer to Force-Displacement measuring unit below.

Force-Displacement measureing unit FSA series

This unit includes necessary items to perform force-displacement measurement With FSA series, you can perform force-displacement analysis very easily. You can upgrade EMX-1000N to enable force-displacement measurement.



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



[Specifications]

Model		EMX-1000N					
Capacity Maximum f		orce to be added	1000N				
	Speed	Speed range available		From 0.5 to 600mm/min			
			0.5-2	0mm/min	Able to set up sp	ble to set up speed every 0.5mm/min	
		Unit	20-10	0mm/min Able to set up speed every 5mm/min		eed every 5mm/min	
			100-6	300mm/min	Able to set up sp	peed every 10mm/min	
	Stroke	Max distance from table to tip of					
		measurement shaft of force		290mm			
			when	the head is on top			
	Maximum height of a sample	Please refer to "t" of Dimensions in					
Functions		Max gap of distances from table to			less than 0.25mm		
ncti	Deflection	_	tip of gauges, under no force and		[Long stroke] le	ess than 0.6mm	
Fun	/D1		orce ap				
	Travel Stroke limit			and down can be set up	-		
				e with upper/lower strok			
	Force control	Operation is controllable at selected force. *1					
	Display of speed	Speed is displayed digitally					
	Overload prevention	Operation automatically stops when force over capacity is applied.*1*2					
	Mode	Manual/Jog/Cycle mode					
	Timer	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 It is possible to control the motion linkage from an external instrument.					
	External I/O						
		Operating temperature		From 0 +40 degree Celsius			
			ating humidity		From 35 to 70%, avoid condensation		
		Power	er voltage		AC100 ~ 240V,50/60Hz		
	The body		*		(Please specify from 100.120.230V. Accessories are different) 100W		
			Power consumption		100W 280*421*643(mm)		
[Long str		Size Standard type		280°421°643(mm) [280°421*943(mm)]			
		Ü		Approx. 23.5kg			
		wer cable. Grin mountin	r cable, Grip mounting adaptor, Cover, Spare hues, and Tools.				
110000001100			· •	<u> </u>			
Manual mode			JOG mo	ode	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 FA Plus are connected with an optional cable.

[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]

	Model	
Option	Long stroke (To extend stroke by 300mm) *1	EMX-1000N-L
	Length measuring instrument (For displacement measurement)	EMX-1000N-S
	Speed change (Change from standard type) *1	EMX-1000N-V*2
	FA type (A linear scale for measuring displacement built in) *3	EMX-1000N-FA

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

^{*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.

^{*2} The maximum speed can be put in V____

^{*3} Please refer to Configuration Example on page2 and 3.



[Optional Attachment]

IMADA offers variety of attachments for limitless force testing applications. Besides, we can customize

attachments only for you to suit your unique measurement needs.

Urethane made	Pantograph	Film	Fixture for
compression jig	grip	grip	90 degree peel testing
UR series	PGC series	FC series	P90-200N

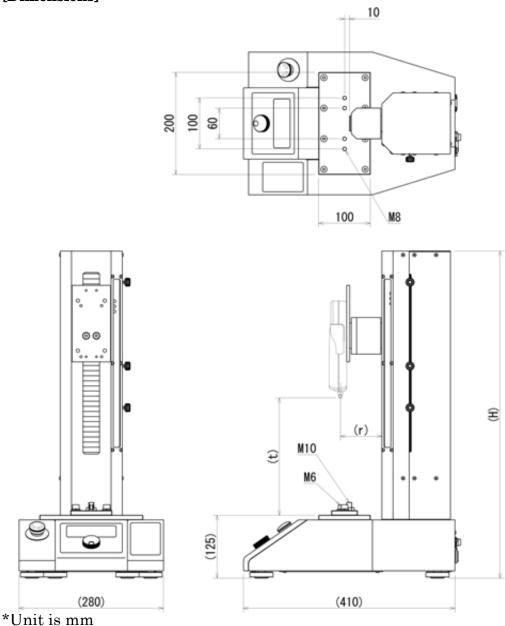
^{*} Please refer to the specification sheet of each attachment.

[Other Option Example]

Scattering prevention panel	Separated operation panel	
It covers the front of a test stand and reduces the	It is useful for remote control and installation to a	
risk of injury from sample scattering.	facility.	

FORCE MEASUREMENT

[Dimensions]



		EMX-1000N	EMX-1000N-L	
H		645	945	
	When DS2/ZT(2N to 1000N) is mounted	80		
r	When ZT(2500N to 5000N) is mounted	93		
	When DPU(lower range of 500N) is mounted	78		
	When DPU(higher range of 1000N) is mounted	82		
	When DS2 is mounted	325	625	
	When ZT(2N to 1000N)is mounted	320	620	
t	When ZT(2500N to 5000N) is mounted	365	665	
*1	When DPU(2N to 10N) is mounted	380 680		
	When DPU(20N to 50N) is mounted.	375	675	
	When DPU(1000N to 5000N) is mounted	300	600	

^{*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.