

Motorized test stand MH2 series

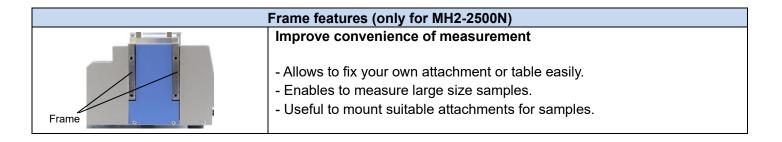
- High repeatability with constant testing speed and direction
- The horizontal design for easy sample setting
- Simple digital setting of testing modes and speed
- Various functions with force gauge



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High Repeatability	Easy Operation		
- Constant testing speed and direction for applying	- Inclined control panel for easy operation		
compression and tensile force	- Easy dial operation for digital value		
- Rugged design minimizes influence of deformation	- Three testing modes to meet testing requirements		
(0.5mm or less)			
High Versatility for various testing.	Functions for efficient testing		
- Ideal for durability test by setting the number of test	- Easy setting of travel distance according to the sample		
cycles to repeat	size.		
- Useful timer function for compression testing allows	- Automatically changes traveling and measuring speed		
pausing at a set force value. (*)	at a set force value. (*)		
- The table is able to fix various attachments.	- Software records automatically according to stand		
- Optional functions for various purposes	operation.(*)		
- Convenient frame for fixing a table and attachment.			

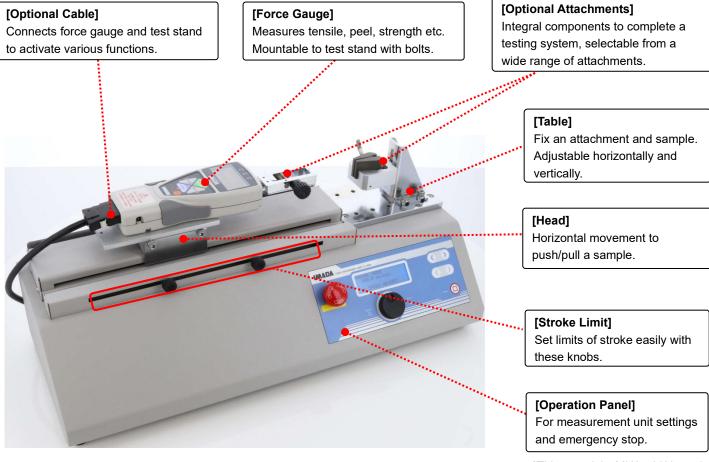
Special Features

^{*} Required certain models of force gauge and optional cable.





[Application Example and Configurations]



*This stand is MH2-500N model. *Force gauge, optional attachments and optional cable are sold separately.

[Operation Panel]

[Emergency Button]

Press for emergency stops.

[Push Dial]

For measuring unit settings by turning and pressing.



[LCD]

Shows status and settings

[Operation Buttons]

Press to move the head.

[Applications] Use suitable attachments for varieties of measurements.

Applications of ose suitable attachments for varieties of measurements.			
Wire crimp pull test	Coefficient of friction test		
Tests the strength of crimped terminal by measuring the tensile	Measures kinetic and static coefficient of friction by pulling the		
force required to remove a crimped terminal.	weight on film or paper sample.		



[Basic Operations]

Adjusting speed	MANUAL MODE 170.0 mm/min \$ SPEED ADJUST	Testing speed is easily adjustable by dialing. Setting resolution: [10-20mm/min: 0.5mm/min] [20-100mm/min: 5mm/min] [100-300mm/min: 10mm/min] Adjustable speed types: Start, Measuring, Return
Three measuring modes	MANUAL MODE 250.0 mm/min ± SPEED ADJUST	Three testing modes according to purpose. - Manual mode: Moves while operation buttons are pressed. - JOG mode: Minute feeding by turning dial (approx. 0.05mm per 1 turn) - Cycle mode: Travels between stroke limit knobs for cycles.
Other functions	CONFIG MODE[1] COUNTER LIMIT 100	Cycle mode allows to set the number of tests to repeat and pausing time. Counter (number of tests to repeat): Max. 65535 times Timer (pausing time): Up to 99 min 59 sec 9 (by 0.1 sec)

[Main Options]

[Main Options]		
Speed change (-V)	Length meter (-S)	
Changes the speed range.	Built in digital screen indicates travel distance of force	
Useful for tests required faster/slower speed condition.	gauge.	
FA option (-FA)	External signal input (-CN)	
Provides built in liner scale.	The connector for external signal input.	
Allows displaying displacement data on force gauge together	Allows inputs such as start, stop, and interlock.	
with force value and drawing FS curves in PC via USB.		
*ZTA series force gauge and optional cable are required.		
*Force-displacement measurement unit FSA series includes		
the necessary products are also available.		
10.30 mm 5.49 N Min IMAX		



[Specifications]

Model	MH2-500N	MH2-2500N	
Capacity	500N	2500N	
Speed	Digital 10 to 300mm/min [10 - 20mm/min: by 0.5mm/min] [20 - 100mm/min: by 5mm/min] [100 - 300mm/min: by 10mm/min]		
Max. Sample Height (*1)	Approx. 245mm	Approx. 340mm	
Rigidity	[Standard models	s] 0.5mm or below	
Stroke Limit	Controllable with	n horizontal knob	
Measuring Modes	Manual / Jog	/ Cycle mode	
Functions	Counter (number of tests to repeat): Max. 65535 times Timer (pausing time): Up to 99 min 59 sec 9 (by 0.1 sec)		
Control		rol (*2), overload stop (*2, *3)	
Operating temperature humidity	0 to +40 degree Celsius RH 85% or less (without condensation)		
Voltage	AC100 to 240V, 50/60Hz (Select from 100, 120 and 230V. Accessories are provided accordingly.)		
Power Consumption	50W		
Dimensions	Refer to dimensions shown in the diagram page 6/7		
Weight	Approx. 14kg	Approx. 27kg	
Accessories	Operation manual, power cable, spare fuse, tools, grip mounting plate, warranty certificate	Operation manual, power cable, spare fuse, tools, attachment mounting plate (GF-2), warranty certificate	
Available Options (*4) (*5)	- FA: Indilit linear scale		
Mountable Force Gauge (*6)	Mechanical Force Gauge: FB, PS, PSM series Digital Force Gauge: DST, DSV, ZTS, ZTA series (1000N or lower) Load cell: DPU series (500N or lower)	Mechanical Force Gauge: FB, PS, PSM PSH series Digital Force Gauge: DST, DSV, ZTS, ZTA series Load cell: DPU series (500N or lower) DPUH series (1000 to 5000N) (*7)	

^{*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. (With up to 1000N model of ZTS/ZTA series)

[User Mounted Unit (only for MH2-2500N)]

. ,	
OP-MH225-S: Length Scale	OP-MH225-FA: FA version *1
It digitally indicates travel distance of a force gauge.	It builds a linear scale into a test stand to output travel
	distance of a force gauge and allows to utilize it for
	analysis of force-displacement relations.

^{*} Requires to fix the unit to current MX2-5000N by yourself.

^{*2} Connection to a compatible force gauge (ZTS/ZTA/eZT/FA Plus2/eFA Plus2 series) with a dedicated cable is 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 MH2-500N ... Model: MH2-500N-L

^{*5} Capacity is reduced as below by some speed change options of MH2-500N.

⁻V600 capacity 250N, -V900 capacity 150N

^{*6} Ensure to use within the capacity of force gauge and test stand regardless of the mountable models.

^{*7} Mounting block is required to be attached to the DPUH series (5000N or lower)

Amplifier such as ZTA or FA Plus2 (sold separately) or Software are required to record measuring value of linear scale.

^{*1} Select -FA option if the test stand with built in linear scale is required.



[Related Products]

	gital Force Gau		Software Force Recorder series	Force-Displacement Measurement Unit FSA series
rate of 2000H	surement with h Hz. Cable conne with MH2 series	ction	Able to start and stop automatically based on the trigger setting of MH2 test stand function.	It draws a force-displacement graph, which is suitable for tactile test, material evaluation and more. This unit includes a force gauge, a test stand with a linear scale, a cable and a graphing software.
			The second sec	
	CB-528	For connecting with force gauge ZTS/ZTA series: Activate Control Functions		
Cable	CB-706	For –CN option: Open end cable to connect with external device		
Cabio	CB-718	For –FA option: Connects ZTA series force gauge and test stand to enable force and displacement measurement. (Motion control and related functions are also available.)		

[Control Functions] Activated when connecting to a compatible force gauge with a dedicated cable.

- **Overload stop**: Prevents the sensor from getting damaged due to overloading. (Does not guarantee complete protection against overloading.)
- Force control: Sets a applying or stopping force value.
- Measuring speed setting: Enables automatic speed change at a point of contact by set force value.
- Automatic measurement: Automatically performs zero reset of force gauge and software recording
- * Refer to 'Advanced Functions of Test Stands' for details.
- * Compatible force gauge: ZTS/ZTA/eZT/FA Plus2/eFA Plus2 series.

[Examples of Customized Solutions]

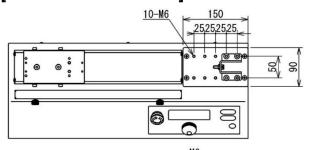
External signal input: -CN option		Interlock cover	
For switching on/off operation, foot pedal can be connected.		The shield prevents debris of test sample from scattering, and stops operation when the door is open for more safety. *1	
Large Sample testir	ng attachment	Controller-separated Model	
For testing a sample larger than the standard test stand table or testing multiple points on a large sample to push in/pull.		To incorporate a force measuring system into your equipment or to operate the stand remotely to avoid accidents.	

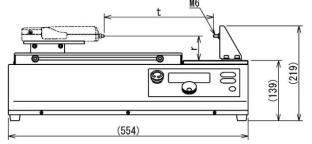
^{*} Images above show examples of vertical type test stand.

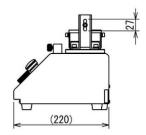
^{*1 -}CN option and safety setting of MH2 series are required to activate interlock function.



[MH2-500N Dimensions]



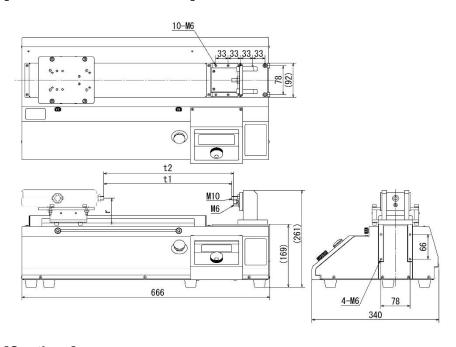




Model		MH2-500N	
	DST/DSV/ZTS/ZTA	56	
r	(2N~500N)	30	
	DPU (500N or lower)	54	
	DST/DSV	250	
	ZTS/ZTA (2N~500N)	245	
τ	DPU (2N~10N)	270	
	DPU (20N~500N)	260	

Unit: mm

[MH2-2500N Dimensions]



	Model	MH2-2500N
	ZTS/ZTA (2500N or higher)	70.5
	ZTS/ZTA (1000N or lower)	57.5
r	DPUH (1000N to 5000N) (mounting block is sold separately)	70.5
	DPU (500N or lower)	55.5
t1	ZTS/ZTA (2500N or higher)	0-340
	DPUH (1000N to 5000N) (mounting block is sold separately)	0-310
t2	ZTS/ZTA (1000N or lower)	0-300
	DPU (500N or lower)	0-350

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.

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Visit our website for more information on a wide range of product specifications, measurement applications and videos.