



Motorized test stand MH2 series

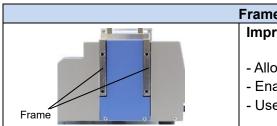
- High repeatability with constant testing speed and direction
- The horizontal design for easy sample setting
- Simple digital setting of testing modes and speed
- Various functions with force gauge



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



Frame features (only for MH2-2500N)

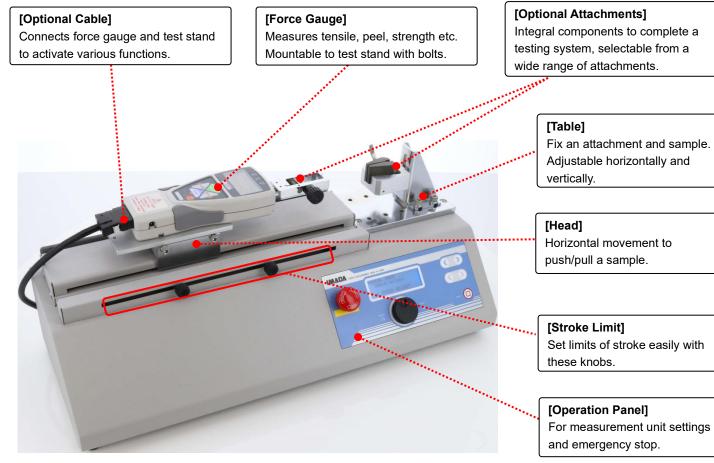
Improve convenience of measurement

- Allows to fix your own attachment or table easily.
- Enables to measure large size samples.
- Useful to mount suitable attachments for samples.





[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.		
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.				
-NG CK +NG 10.30 mm 5.49 N Min Min Max				





[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	-	/ Cycle mode	
Functions		o repeat): Max. 65535 times 99 min 59 sec 9 (by 0.1 sec)	
Control		*2), overload prevention (*2, *3)	
Operating temperature humidity	0 to +40 degree Celsius 35 to 70% (avoid condensation)		
Voltage		60V, 50/60Hz cessories are provided accordingly.)	
Power Consumption	50)W	
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)	-CN: External signal input -S: Length scale -FA: Inbuilt liner scale -V45: Speed 1.5 to 45mm/min -V90: Speed 3 to 90mm/min -V450: Speed 15 to 450mm/min -V600: Speed 20 to 600mm/min -V900: Speed 30 to 900mm/min	-CN: External signal input -S: Length scale -FA: Inbuilt linear scale -V75: Speed 2.5 to 75mm/min -V150: Speed 5 to 150mm/min	
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), DPU series (1000~5000N)(*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)

- *2 ZTS/ZTA series force gauge and optional cable CB-518 are 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 DPU series (1000~5000N)

[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.

^{*} 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 ZTS/ZTA serie		Software Force Recorder series	Force – Displacement Measurement Unit FSA series
rate of 2000H	surement with h Hz. ection enables lin		Able to start and stop automatically based on the trigger setting of MH2 test stand function.	Draws a detailed graph of force and displacement suitable for tactile test, material evaluation and more. Includes a force gauge, a test stand with a linear scale, a cable and a graphing software.
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	CB-518 For connecting with force gauge ZTS/ZTA series: Enables useful functions			s useful functions
Cable CB-706 For –CN option: Open end cable to connect with external device		device		
CB-718 For –FA option: Connects ZTA series force gauge and test stand to enable force a measurement. (Motion control and related functions are also available.)			•	

[Control Functions] Able to be used by connecting ZTS/ZTA series and CB-518.

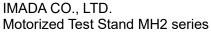
- **Overload sensor failure prevention**: Prevents the sensor from malfunction due to overloading. (Does not guarantee complete protection against overloading.)
- Force control: Sets a applying or stopping force value.
- Measuring speed setting: Enables automatic speed change at a point of contact by set force value.
- Automatic measurement: Automatically performs zero reset of force gauge and software recording

[Examples of Customized Solutions]

External signal input: -CN option		Interlock: -CN option	
For switching on/off operation, foot pedal can be connected.		At the time of door opening, measuring operation stops automatically with correspondent safety regulations requirements.	
Large Sample testing	ng attachment	Controller-separated Model	
For testing larger size samples, those not possible to be placed fully on the test stand table, measuring with the multiple sample points with push/pull action is recommended.		Recommended usage - Fix to own equipment Fix controller/drive part to a specific place Keep distance to avoid risks during test.	

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

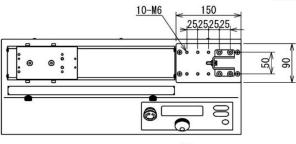
^{*} Refer to 'Advanced Functions of Test Stands' for details.

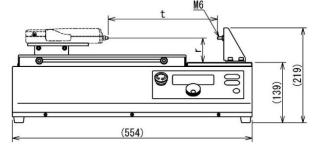


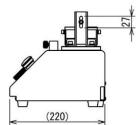
[MH2-500N Dimensions]







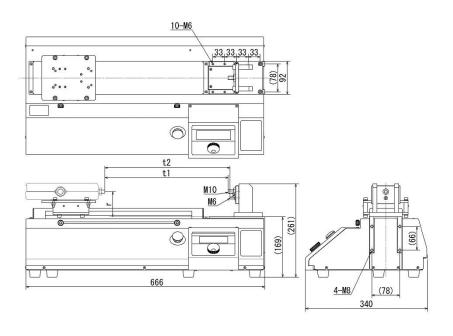




	Model	MH2-500N	
	DST/DSV/ZTS/ZTA	56	
r (2N~500N) DPU (500N or lower)	30		
	DPU (500N or lower)	54	
t	DST/DSV	250	
	ZTS/ZTA (2N~500N)	245	
	DPU (2N~10N)	270	
	DPU (20N~500N)	260	

Unit: mm

[MH2-2500N Dimensions]



	Model	MH2-2500N
	ZTS/ZTA (2500N or higher)	70.5
	ZTS/ZTA (1000N or lower)	57.5
r	DPU (1000N~5000N) (mounting block is sold separately)	70.5
	DPU (500N or lower)	55.5
	ZTS/ZTA (2500N or higher)	0-340
t1	DPU (1000N~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.