

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



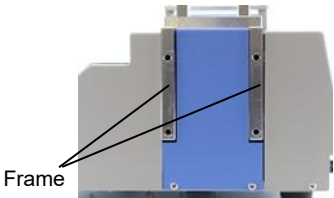
MH2-500N



MH2-2500N

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

* Required certain models of force gauge and optional cable.

Frame features (only for MH2-2500N)	
 Frame	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]

[Optional Cable]
Connects force gauge and test stand to activate various functions.

[Force Gauge]
Measures tensile, peel, strength etc.
Mountable to test stand with bolts.

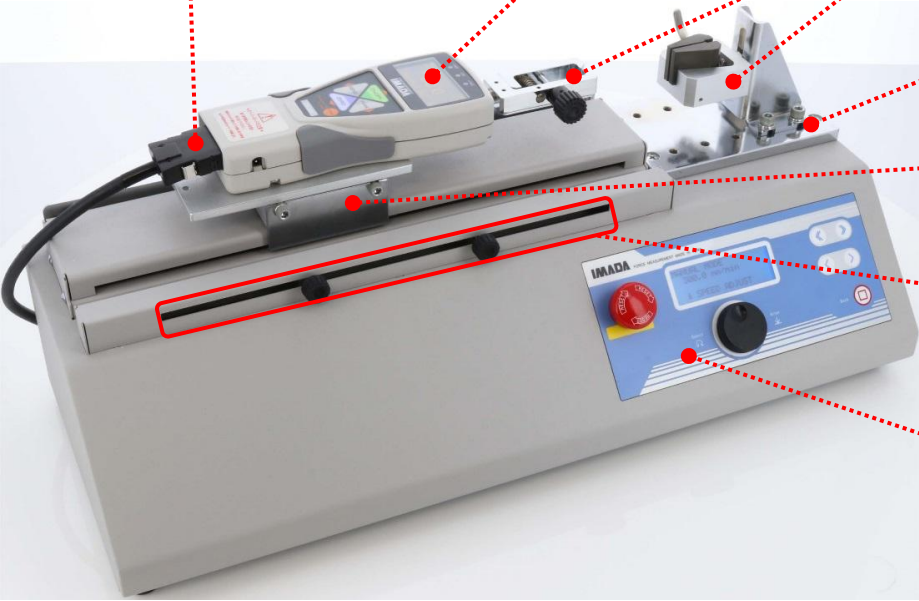
[Optional Attachments]
Integral components to complete a testing system, selectable from a wide range of attachments.

[Table]
Fix an attachment and sample.
Adjustable horizontally and vertically.

[Head]
Horizontal movement to push/pull a sample.

[Stroke Limit]
Set limits of stroke easily with these knobs.

[Operation Panel]
For measurement unit settings and emergency stop.



*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.



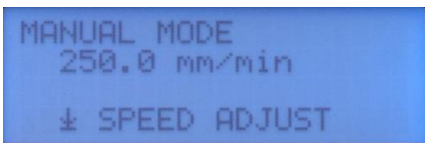
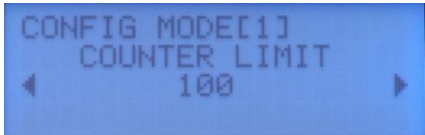
[LCD]
Shows status and settings

[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 force required to remove a crimped terminal.	Measures kinetic and static coefficient of friction by pulling the weight on film or paper sample.
	

[Basic Operations]

Adjusting speed		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		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		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]

Speed change (-V)	Length meter (-S)
Changes the speed range. Useful for tests required faster/slower speed condition.	Built in digital screen indicates travel distance of force gauge.
	
FA option (-FA)	External signal input (-CN)
This option allows a linear scale unit to be installed on the test stand for measuring head displacement. *A compatible force gauge with displacement I/O, such as the ZTA series, and an optional cable are required.	The connector for external signal input. Allows inputs such as start, stop, and interlock.
	

[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	Approx. 245mm (*1)	Approx. 340mm (*1)
Rigidity	[Standard models] 0.5mm or below	
Stroke Limit	Controllable with 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	Emergency stop, force control (*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)	-CN: External signal input -S: Length scale -FA: Inbuilt linear 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

*1 This value is the maximum distance between the attachment bracket and the tip of force gauge measuring shaft.

(MH2-500N: When up to 1000N model of ZTS/ZTA series, MH2-2500N: When over 2500N model of ZTS/ZTA series is mounted.)

*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 prevention of failures due to overloads.

*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 follows by some speed change options of MH2-500N. (-V600: 250N, -V900: 150N)

[Mountable Force Gauges]

	MH2-500N	MH2-2500N
DST/DSV-2N to 1000N	✓	✓
ZTS/ZTA-2N to 1000N	✓	✓
ZTS/ZTA-2500N to 5000N	N/A	✓
DPU-2N to 500N	✓	✓
DPUH-1000N to 5000N	N/A	✓ *1
FB/FS/PS/PSS/PSM series	✓	✓
PSH series	N/A	✓

* Load cells not listed cannot be mounted on any of our test stands.

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

*1 Mounting block (sold separately) is required to mount DPUH series (1000N to 5000N) to MH2-2500N.

[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.

[Force gauge Interlinking function] Applicable with the dedicated force gauge and cable connections.

- Overload stop: Automatically stops the operation when an overload signal is received from the force gauge. (This function does not guarantee complete prevention of failures due to overloads.) - Force control: Controls test stand operation with the force gauge according to the force value. - Measuring speed setting: Enables automatic speed change at a point of contact using the set force value. - Automatic measurement: Software recording and zeroing force gauge can be automatically done.
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* Compatible force gauge: ZTS/ZTA/eZT/FA Plus2/eFA Plus2 series.

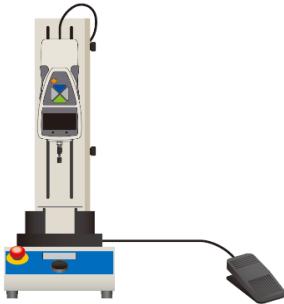
[Dedicated Cables]

CB-528	For connecting the Force Gauge to the Test Stand to enable Force gauge Interlinking functions
CB-718	For -FA option: Connects the dedicated Force Gauge to the Test Stand and the Linear Scale for force-displacement measurement. (Force gauge Interlinking functions are also enabled.)
CB-706	For -CN option: Open-Ended Cable to connect with external device

[Related Products]

Digital Force Gauge ZTS/ZTA series	Force-Displacement Measurement Unit FSA series
Precise measurement with high sampling rate of 2000Hz. Cable connection enables link with MH2 series.	Measurement unit for force-displacement measurement. By creating a force-displacement graph, it can be used for tactile tests, material evaluation, and more.
	

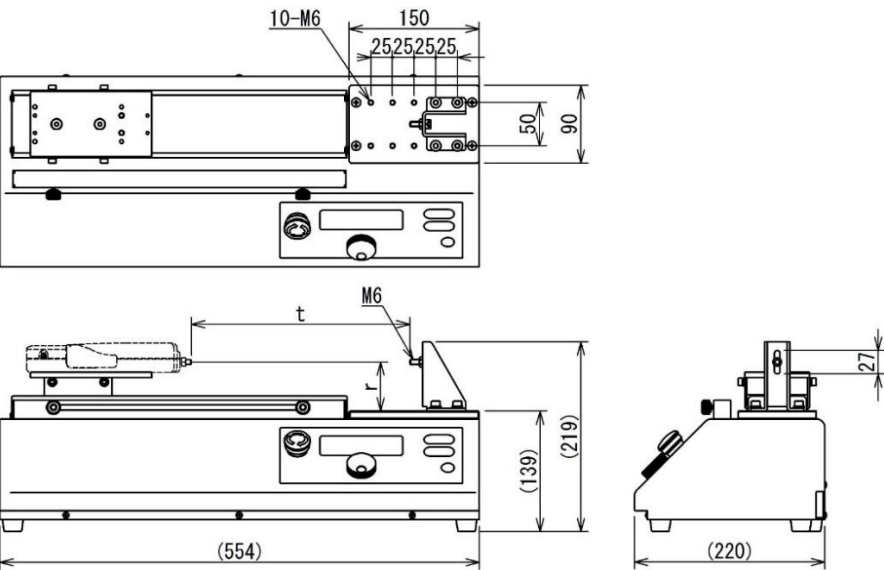
[Examples of Customized Solutions]

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 testing 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.

[Dimensions]

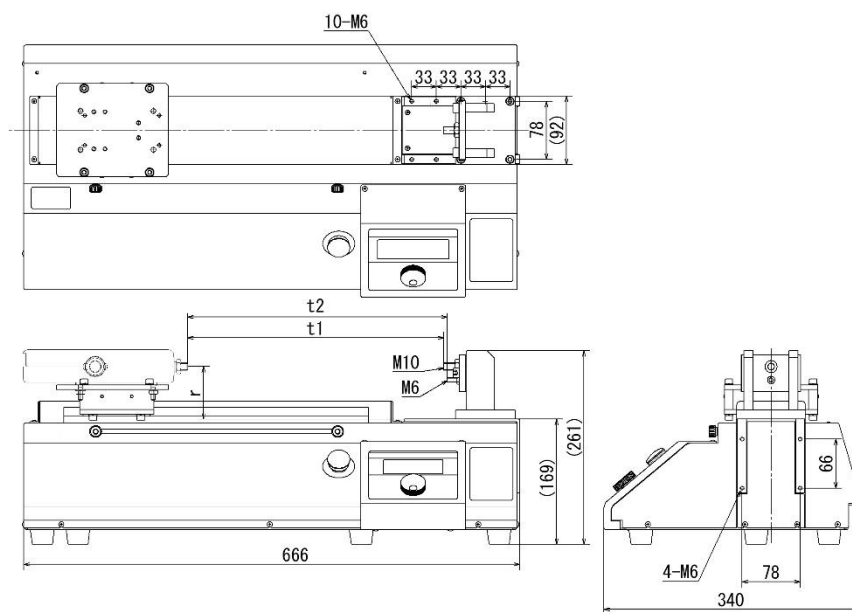
MH2-500N



Model		MH2-500N
r	DST/DSV/ZTS/ZTA (2N~500N)	56
	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



Model		MH2-2500N
r	ZTS/ZTA (2500N or higher)	70.5
	ZTS/ZTA (1000N or lower)	57.5
	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.

FOR MORE INFORMATION PLEASE CONTACT:



BHAGWATI

Hardware & Mill Store Since 1976

Address: 4769, 1ST Floor, Old Post Office Building, Hauz Qazi, Delhi - 110006

Mobile: 9212012856, 9350076343

Website: www.bhagwathardware.com
www.bhagwathardwaredelhi.in

E-mail: sandeep@bhagwatimail.com

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