



Motorized test stand MH2-500N

- Achieves high repeatability with constant testing speed and position
- The horizontal design makes sample setup easy
- Easy digital setting of testing modes and speed
- Offers useful functions operated together with force gauge



Features

Improved Repeatability

- ·Constant testing speed and position for applying compression and tensile force
- ·Rugged design minimizes influence of deformation (max.0.5mm)

Versatility for a wide variety of 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. (*)
- · Attached table can mount a wide range of grips and fixtures.
- ·Optional functions for various purposes
- Requires certain models of force gauge and optional cable.

Easy Operation

- · Ergonomically inclined control panel
- ·Dial operation for digital setting
- •Three testing modes to meet testing requirements

Functions for efficient testing

- Easy setting of travel distance depending on the sample height.
- · Automatically changes traveling and measuring speed at a set force value. (*)
- ·Starts software together with test stand motion.(*)

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[Application Example and Configurations]

[Optional Cable]

Connects force gauge and test stand to activate a variety of control functions.

[Force Gauge]

Measures compression, tensile, peel strength, etc. Mountable to test stand with screws.

[Optional Attachments]

Integral components to complete a testing system, selectable from a wide range to suit your testing applications.

[Table]

Attachments or testing samples can be mounted on the table. Position is adjustable right, left, up and down.

[Head]

Moves right and left with force gauge mounted on top.

[Stroke Limit]

Set limits of stroke easily with these knobs.

[Operation Panel]

Used for settings, operations and emergency stop.

[Operation Panel]

*Force gauge, optional attachments and optional cable are sold separately.

[Emergency Button]

For emergency stops

[Push Dial]

For setting by turning and pressing. Jog move at manual mode.



[LCD]

Shows status and settings

[Operation Buttons]

Controls upward and downward at set/max.(min.) speed and stop.

[Applications] Use suitable attachments to perform a variety of measurements.

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





[Basic Operations]

	MANUAL MODE	Testing speed is easily adjustable with dial.
Adjusting speed	Select Enter	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 are available to meet requirements. Manual mode: Moves while up/down 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]

Speed change (-V)	Length meter (-S)	
This option changes the speed range.	This option provides an inbuilt length meter, which	
Useful for tests that require faster/slower speed condition.	shows digital reading of travel distance of force gauge.	
FA option (-FA)	External signal input (-CN)	
This option provides inbuilt liner scale.	This option mounts the connector for external signal	
It allows displaying displacement data on force gauge	input.	
together with force value and drawing FS curves in PC via	It allows inputs such as start, stop, and interlock.	
USB.		
*ZTA series force gauge and optional cable are required.		
*Force-displacement measurement unit FSA series are		
also available, which includes the necessary products.		
10.30 mm 5.49 N Min North Max PRICE MEASUREMENT IMADA		

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[Specifications]

Model	MH2-500N	
Capacity	500N	
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	
Rigidity	[Standard models] less than 0.5 mm	
Stroke Limit	Controllable with upper and lower 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 prevention (*2, *3)	
Operating temperature humidity	0 to +40 degree Celsius 35 to 70% (avoid condensation)	
Voltage	AC100 to 240V, 50/60Hz (Select from 100, 120 and 230V. Accessories are provided accordingly.)	
Power Consumption	50W	
Dimensions	See [Dimensions]	
Weight	Approx. 14kg	
Accessories	Operation manual, power cable, spare fuse, tools, grip mounting plate	
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	
Mountable	Mechanical Force Gauge: FB, PS, PSM series	
Force Gauge	Digital Force Gauge: DST, DSV, ZTS, ZTA series (up to 1000N)	
*6	Load cell: DPU series (up to 500N)	

^{*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)

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 $^{^*2}$ 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 \dots Model: MH2-500N-L

^{*5} Capacity is reduced as below by some speed change options.

⁻V600 capacity 250N, -V900 capacity 150N

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



[Related Products]

	rital Force Ga ZTS/ZTA serie		Software Force Recorder series	Force – Displacement Measurement Unit FSA series
offers highly optional cab	ampling rate of precise measurable to control mo h MH2 series.	rement. Use	This graphing software can start and stop automatically based on the trigger setting of MH2 test stand function.	It draws a detailed graph of force and displacement, which is suitable for tactile test, material evaluation and more. The unit includes a force gauge, a test stand with a linear scale, a cable and a graphing software.
			10 10 10 10 10 10 10 10	
	CB-518 For connecting with force gauge ZTS/ZTA series: Activates useful functions		ites useful functions	
Cable	CB-706	For –CN option: Open end cable to connect with external device		
	CB-718	For –FA option: Connects ZTA series force gauge and test stand to provide force and displacem measurement. (Motion control and related functions are also available.)		

[Control Functions] Activated when ZTS/ZTA series force gauge and CB-518 are used together.

- · Overload Prevention: Prevents the sensor from getting damaged due to overloading. (It does not guarantee complete protection against overloading.)
- · Force control: Allows to set a force value to apply or to stop.
- · 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.

[Examples of Customized Solutions]

External signal input: -CN option	Interlock: -CN option	
Allows to mount a switch to start and stop operation such as a foot pedal, which improves efficiency or allows operating it together with your equipment.	Enables you to comply with a safety code by having safety shield, which stops movement of test stand when opened.	
Testing Large Samples	Controller-separated Model	
Recommended when you Test a sample larger than test stand table. Test multiple points on a large sample to push in/pull.	Recommended when you - Want to incorporate IMADA testing system into your equipment - Fix controller/drive part on a specific place - Need to prevent dangers in testing by keeping distance.	

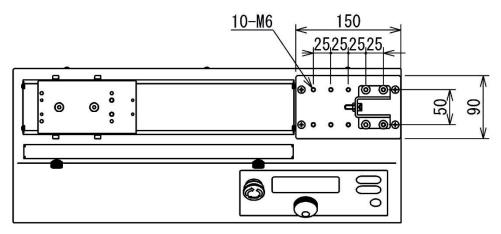
^{*}Images above show examples with vertical type test stand.

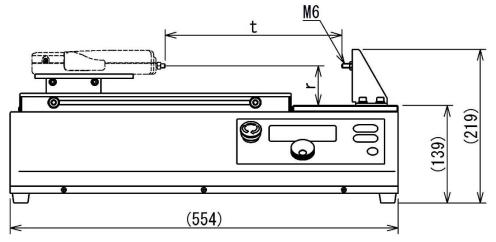
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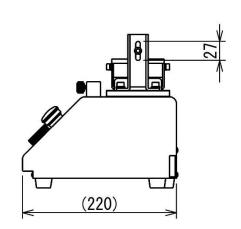
^{*} See 'Advanced Functions of Test Stands' for details.



[Dimensions]







		MH2-500N
r	With DST/DSV/ZTS/ZTA (2N to 500N) mounted	56
	With DPU (lower than 500N) mounted	54
	With DST/DSV mounted	250
t	With ZTS/ZTA (2N to 500N) mounted	245
	With DPU (2N to 10N) mounted	270
	With DPU (20N to 500N) mounted	260

[Cautions]

Unit: mm

- The contents may be changed without prior notice.
- Force gauge is not included but necessary to conduct force measurement.
- This product does not include a force gauge, optional attachments or optional cable.
- This product is designed for measurement purpose only.
- Do not copy the contents without permission.

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

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