



Universal electromagnetic systems for dynamic testing

MMT Series

Precision high frequency fatigue testing

The MMT series of universal micro servo pulsers are specially developed by Shimadzu for high-precision high-frequency fatigue testing. Due to their excellent performance characteristics, the equipment is widely used in various industrial fields, in quality control departments, in production and research laboratories.

Accuracy

The combination of the 4830 controller's powerful digital electronics, highly rigid main frame and precision load cell ensures accurate results with excellent repeatability.

High speed system

The maximum achievable test frequency is 100 Hz!

Simplicity

The modern system of loading and control of microserving pulsers MMT allows to completely abandon the use of water, air and oil. All that is necessary is the supply of electricity.

Compactness

Lightweight and compact tabletop system allows for significant savings in laboratory space.

Low noise level

Due to the low noise level, the machine can be installed in any room; sound insulation is not required.

Flexibility

There are 5 configuration options with different nominal forces available. Additionally, the system is equipped with various grips and devices, depending on the delivered user of tasks.

Wide range of accessories

Grips;
Compression and bending test fixtures;
Extensometers;
Thermal and cryo chambers;
Devices for testing in various environments;
and much more.

Basic specification in combination with 4830 controller

Model name	MMT-500NV-10	MMT-250NV-10	MMT-101NV-10	MMT-101NV-2	MMT-11NV-2
Strength of the test	max ± 500N	max ±250N	max ± 100N		max ± 10N
Piston stroke		max ± 10 mm		max ±2 mm	
Frequency	max 100Hz				max 60Hz
Controlled elements	Test force, piston stroke (can be increased optionally)				
Load cell (standard option*)	± 500 N	± 250 N	± 100 N		± 10 N
Clamps and other accessories	They are selected individually in accordance with the customer's needs.				
Accuracy	Test force: within ±0.5% of the specified value or within ±0.02% of the maximum dynamic test force, whichever is greater **				
	Stroke: within ±1% of the specified value or within ±0.1% of the maximum stroke, whichever is greater				
Approximate dimensions (WxDxH)	1000 x 500 x 1200 mm				
Weight	approx. 150 kg	approx. 120 kg	approx. 100 kg		approx. 80 kg
Requirements on power supply***	1 phase, 100 V, 1 kVA				1 phase, 100 V, 500 VA

* Load cells of different capacities are available as options.

** For MMT-11NV-2, within ±1% of the specified value or within ±0.02% of the maximum dynamic test force, the highest value is selected.

*** Modification to European power supply standard is possible.

Controller 4830

- New generation of controllers
A reliable, feature-rich, easy-to-use controller for a full range of materials testing.
- Create a wave with excellent reproducibility
Fully digital control with automatic adjustment of control parameters, waveform distortion correction function.
- Special functions (push" function) for testing real objects
Stable control of peak values in all test areas (even when sample compliance changes).
- High accuracy and reproducibility of results
Thanks to the high-resolution 24-bit AD converter and the detector output linearization function, a loading accuracy of 0.5% is achieved for standard systems.
- Waveform display functions
These functions, installed as standard, allow you to display time graphs, X6Y graphs and peak graphs.



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