

Biaxial Shear Sliding Evaluation Test

Performance can be evaluated using the biaxial shear sliding testing machine



This biaxial shear sliding testing machine is a seismic isolation evaluation testing machine that can be loaded with a compression force of 25 MN (2,500 tons), which is the top-class capacity in the industry.

It can be used mainly to evaluate the performance of seismic isolation bearings* used in base-isolated buildings.

* "Seismic isolation bearing" is a device that is installed on the foundation of a base-isolated building to support the load of the building, as well as to reduce the horizontal force that occurs in the event of an earthquake.

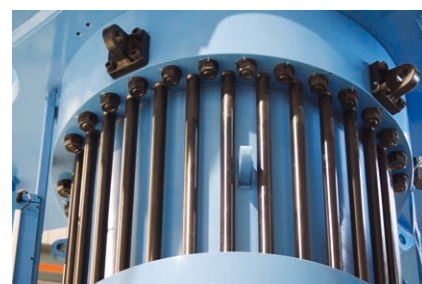
Features of testing machine

- This testing machine can handle a load test of up to 25 MN (2,500 tons).
- Three testing machines can be used to handle various testing conditions and test items.
- This testing machine can handle large test pieces (maximum size*: 2,100 mm (L) × 2,200 mm (W) × 640 mm (H)).

* This is applicable to 25-MN testing machines.

The maximum size of test pieces for 2-MN testing machines is 1,100 mm (L) × 1,100 mm (W) × 500 mm (H).

The maximum size of test pieces for 0.3-MN testing machines is 460 mm (L) × 760 mm (W) × 350 mm (H).



Control room

In the control room, all tasks from setting testing conditions through to analyzing test data are controlled using computers, which makes it possible to conduct tests and analyze data efficiently and easily.

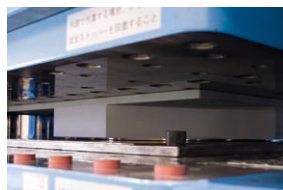


Biaxial Shear Sliding Evaluation Test

25-MN testing machine

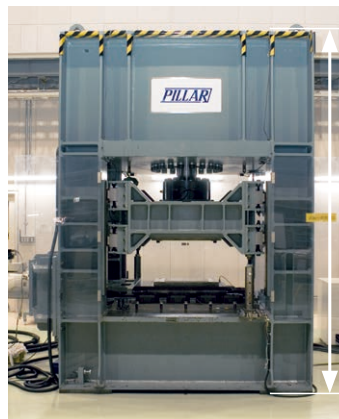


Testing status can be viewed on the display panel

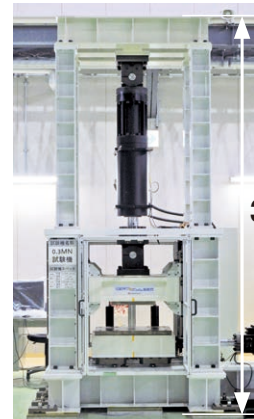


Test pieces under performance testing

2-MN testing machine



0.3-MN testing machine



Specifications of testing machine

Item		25-MN testing machine	2-MN testing machine	0.3-MN testing machine
Vertical exciting force	Compression force MN{t}	25{2500}	2{200}	0.3{30}
	Tensile force MN{t}	2.5{250}	1.2{120}	—
	Maximum velocity mm/sec	1	10	35
	Stroke mm	0 to 600	0 to 400	0 to 300
Horizontal exciting force	Horizontally applied force MN{t}	±3{300}	±0.3{30}	±0.03{3}
	Maximum velocity mm/sec	10	500	2000
	Stroke mm	±500	±150	±250
Total weight t		Approx. 300	Approx. 50	Approx. 6

We provide testing machines and testing techniques, and respond to your requests. For details, please contact us.

Guide to NP Kogyo Co., Ltd.



As a group company of Nippon Pillar Packing Co., Ltd., NP Kogyo Co., Ltd. produces functional products applying the features of fluorocarbon polymers in the civil engineering construction market and the equipment sector. Biaxial shear sliding testing machines are installed in this factory.

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* In this brochure, 1 MN is shown as approx. 100 tons.

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Safety precaution

● When using this product, please use correctly and pay sufficient attention to safety.

* Please understand that this catalog may change without prior notice.
* The values shown on this catalog are reference values, not guaranteed values.

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