

Linear Load Tester

Loading Test Machine for Linear Actuator

Making measurements with minimized moment of inertia possible

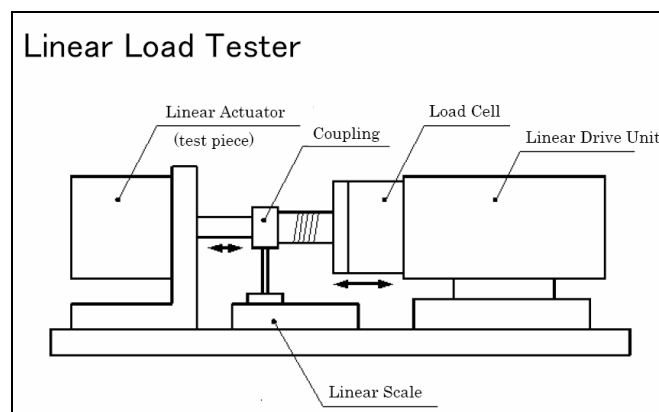


U.S. and International Patented System

Measures time-load-distance with high accuracy

Features and Benefits

- Measures speed characteristics in the work piece loaded.
- Measures propulsive characteristics in the work piece in its excited state.
- Measures cogging torque characteristics in the work piece not in its non-excited state.
- Adopting in-house load cell and a linear scale of 1-micrometer resolution, the system enables high-accuracy testing of load vs. distance of linear movement.
- It performs load control and force detection in both forward and backward directions.



Dynam. Hyst. Brake



M.E.A. Testing Systems Ltd.
www.meateesting.com

Linear Load Tester

General Specifications

Load Characteristic Test (Time-Load-Distance)

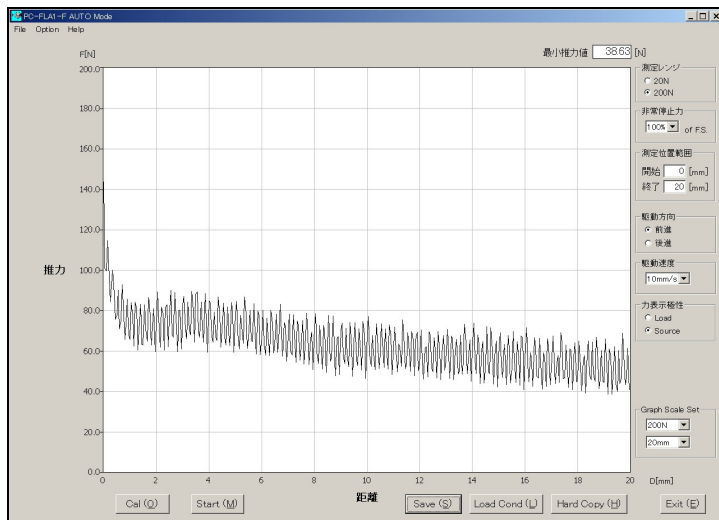
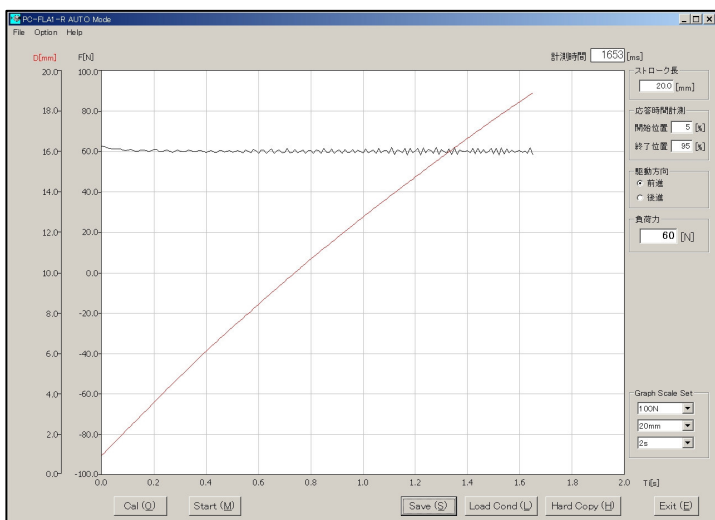
Measuring items	Time-Load and Time-Distance (from the position where timing is started.)
Max load force	200 N/F.S.
Load force setting range	0 N to ± 200 N \rightarrow Forward direction \leftarrow Backward direction
Load force accuracy	$\pm 0.5\%$ of F.S.
Movement distance setting range	100 mm Max
Movement distance accuracy	$\pm 10\mu\text{m}$
Movement distance resolution	1 μm
Measurement direction	Forward: when the actuator shaft projects forward Backward: when the actuator shaft draws backward
Data display	Graphic display of Time-Load-Distance Response time (=time needed to move to the set position (1 msec resolution))

Force Characteristic Test (Force-Distance)

Drive speed	2-10 mm/sec (Setting by every 2 mm/sec)
Drive distance	100 mm Max
Force measurement range	20/200 N
Force accuracy	In 200 N range $\pm 0.5\%$ of range F.S. In 20 N $\pm 1\%$ of range F.S.
Distance measurement resolution	Drive speed 2-4 mm/sec: 0.01 mm 6-10 mm/sec: 0.05 mm
Measurement direction	Forward Backward
Data display	Graphic display of Force-Distance

Test Examples

Linear Load Characteristics / Linear Force Characteristics



Dynam. Hyst. Brake

- Customized solutions
- Customer support
- Technical services
- 1-Year warranty
- Optional extended warranty program
- Local sales offices throughout the world

