LINEAR LOAD TESTER

PC-FLA1, FLM-200N01

SUGAWARA

Measures time-load-distance with high accuracy

Adopting in-house load cell and a linear scale of 1 micro meter 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.

■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 ＋: Forward direction －: Backward direction
Load force accuracy	: ±0.5% of F.S.
Movement distance setting range	: 100 mm Max
Movement distance accuracy	: ±10μm
Movement distance resolution	: 1μm
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 ±0.5% of range F.S. : In 20 N ±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

Business items stroboscope / torque dynamometer / bearing inspection system

Specifications are subject to change for improvement without notice.

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