

Modular Desktop Endurance Testing System Jig for Stretching Tester DMLHP-ST

v2

Stretching test for planar and linear objects including Flexible Displays, OLED devices, Barrier Film, Flat Cables, Flexible Printed Circuits, Wearables & automobile applications

The test jig holds the test sample between a moving clamp and a fixed clamp. As the moving clamp moves away from the fixed clamp the sample is stretched.



ST

YUASA SYSTEM has been developing Tension-Free™ endurance testing systems since 2012. With our in-house expertise in mechanical, electrical, and software engineering, we have developed accurate testing methods for next generation devices, components, and materials. Tension-Free™ endurance testing reduces product design time by producing more consistent and reliable test data. Samples undergo the desired testing without being subjected to undesired tension introduced by the needs of the test equipment. As desired, our jigs also can operate with tension.

The DLMHP desktop motor unit (Linear Reciprocating Unit) drives the stretching test jig for planar and linear objects.

The test jig enables stretching tests for planar and linear objects to a constant length repeatedly.

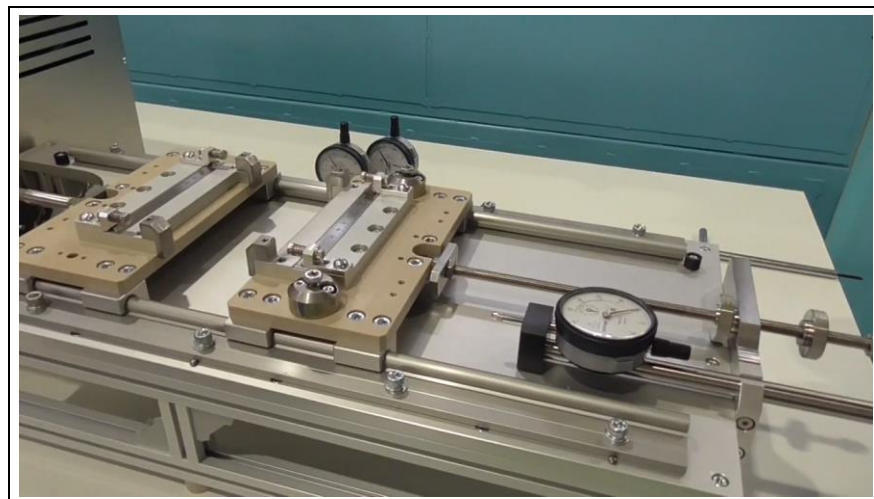
The test jig can be installed in the environmental chamber with optional parts.

DMLHP-ST Video -- https://youtu.be/NX7YB2L_SRQ?t=185

Jig for Stretching Tester DMLHP-ST

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ST	
Stretching Tester	
Specifications - Jig	Stretching Test Jig
Jig Model Number	ST
Sample	Sheet or Linear samples
Sample Thickness	3 mm (0.118") maximum
Sample Width	100 mm (3.94") maximum
Sample Length	30 mm (0.787") plus clamping space minimum
Stretching Length	120 mm (4.72") maximum
Stretching Length (examples)	30 mm to 150 mm, 240 mm to 360 mm
Operating Distance (mm)	3 ~ 120mm in 0.1mm increments
Operating Distance (inches)	0.12 ~ 4.72" in 0.04" increments
Tension	70 N (15.7 pounds-force) maximum
Operating Speed	5 ~ 90 rec/min (maximum)
Weight - Jig	about 11 kg (24.25 lb)
Weight - Cover	4 kg (8.82 lb)
Dimensions (mm)	863.5mm x 284mm x 329.5mm (WDH)
Dimensions (inches)	34.0" x 11.2" x 13.0" (WDH)
Specifications - Base Unit	Linear Reciprocating Unit
Machine Model Number	DMLHP
Electrical Power	AC100-240V (50/60 Hz) 100VA
Motor	Stepping Motor
Motor Power	DC 48V, 1.72A (maximum), 30W
Motor Gear Box	1/20
Counter	8-digits display (with pre-set)
Reciprocating speed	5 ~ 90 rec/min (maximum)
Reciprocating distance (mm)	3 ~ 120mm in 0.1mm increments
Reciprocating distance (inches)	0.118 ~ 4.724" in 0.004" increments
Acceleration	4.5 m/s ² (14.8 feet/s ²) (maximum)
Positioning Accuracy	0.15mm (0.006") (by backlash)
Installation Temp Range	+5 to +40°C (+41 to +104°F)
Installation Humidity	15 - 85% RH (no condensation)
Permissible torque/output	72 N (16.2 pounds-force)
Weight	about 15 kg (about 33 lb)
Dimensions (mm)	396mm x 344mm x 289mm (WDH)
Dimensions (inches)	15.6" x 13.5" x 11.4" (WDH)
Attached Units	
System Model Number	DMLHP-ST
Weight	26 kg (57 lb)
Dimensions (mm)	1271mm x 411mm x 329.5mm (WDH)
Dimensions (inches)	50.0" x 16.2" x 13.0" (WDH)
Notes	※Additional options: <ul style="list-style-type: none"> • Squashing gauges (to adjust the clamp) • Minute adjuster (to adjust the sample length) • Can order clampers according to sample

US SERVICES AVAILABLE

Online training

Technical support

Installation & set-up

Maintenance

Guaranteed Warranty

www.yuasa-system.jp/en

YUASA YUASA SYSTEM CO., LTD.

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