

## Modular Desktop Endurance Testing System Jig for U-shape Sliding Plate Test DLDM111LH + DMX-FU

U-shape sliding plate test for planar objects including Flexible Displays, OLED devices, Barrier Film, Flat Cables, Flexible Printed Circuits, Wearables & automobile applications

This machine uses a fixed plate and a sliding plate to fold test pieces in a U-shape. The upper clamp is fixed, the lower clamp is moved back and forth by the reciprocating action of the motor drive unit.



# FU

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 FU jig is driven by a small desktop motor unit (Linear Reciprocating Unit). The test jig makes U-shape folds on a test piece up to 226 mm in width and up to 3 mm in thickness. The machine also can test two or more objects at the same time with total widths up to 226 mm.

The sliding plate U-shape folding jig allows a large variety of flexible tests with a fold radius between 0.5 and 55 mm, a stroke between 0 and  $\pm 60$  mm, and a speed between 10 and 90 cycles per minute.

By using a transparent holding plate, test pieces are checked easily.

FU Video -- <https://www.youtube.com/watch?v=GBV0NbouCzo&t=4s>

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FU	
U-shape Sliding Plate Test	
<b>Specifications - Jig</b>	U-shape Sliding Plate Test
Jig Model Number	DMX-FU
Sample	Planar Objects
Sample Thickness	3 mm (0.118") maximum
Sample Width	226 mm (8.898") maximum
Sample Length	Varies, up to 272.7 mm (10.74")
Folding Radius	0 ~ 55 mm (0 ~ 2.165")
Sliding Stroke	0 ~ ±60 mm (0 ~ ±2.362")
Operating Speed	10 ~ 90 rec/min
Weight - Jig	7 kg (15.5 lb)
Weight - Cover	4 kg (8.0 lb)
Dimensions (mm)	322 mm x 350 mm x 412.5 mm (WDH)
Dimensions (inches)	12.7" x 13.8" x 16.2" (WDH)
<b>Specifications - Base Unit</b>	Linear Reciprocating Unit
Machine Model Number	DLDM111LH
Motor	DC Brushless Motor (DC 24V, 3.5A, 20W)
Counter	8-digit display
Operating stroke	0 ~ ±60 mm (0 ~ ±2.36")
Operating speed	10 ~ 120 rec/min
Installation Temp range	+5 ~ +40° C (+41 ~ +104° F)
Installation Humidity	15 ~ 85% RH (no condensation)
Power supply	AC (100V-240V, 50Hz/60 Hz, 100W)
Weight	17 kg (37.5 lb)
Dimensions (mm)	396 mm x 344 mm x 290mm (WDH)
Dimensions (inches)	15.6" x 13.5" x 11.4" (WDH)
<b>Attached Units</b>	
System Model Number	DLDM111LH-FU
Weight	28 kg (61 lb)
Dimensions (mm)	718 mm x 444 mm x 412.5 mm (WDH)
Dimensions (inches)	28.3" x 17.5" x 16.2" (WDH)

US SERVICES AVAILABLE

Online training

Technical support

Installation & set-up

Maintenance

Guaranteed Warranty

[www.yuasa-system.jp/en](http://www.yuasa-system.jp/en)

**YUASA** YUASA SYSTEM CO., LTD.

For further information please email: [info@yuasa-system.jp](mailto:info@yuasa-system.jp)