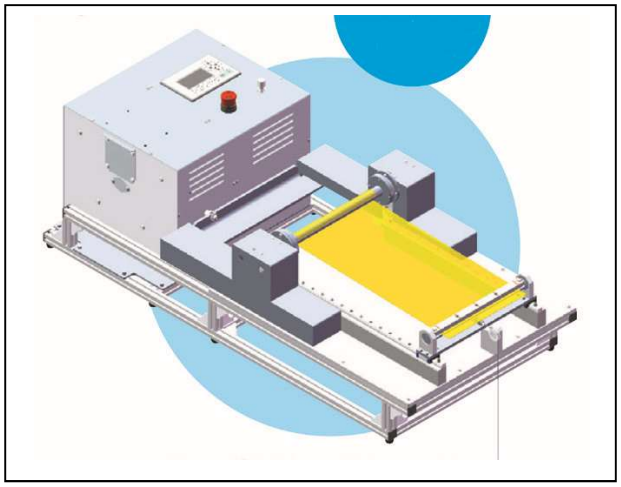
Modular Desktop Endurance Testing System
Jig for Rolling Test for Planar Object
DLDM111LH + DMX-FR



FR

*Roll up test for planar objects including Flexible Displays, OLED devices, Barrier Film, Flat Cables, Flexible Printed Circuits, Wearables & automobile applications

*Conforms to IEC 62715, JEITA ET-4501 standards

*Test object is secured to a roller at one end with adhesive tape. The other end is held with a tilting fixed clamp. The sample is rolled up and unrolled on the roller. Tension is applied to the fixed clamp with a weight.

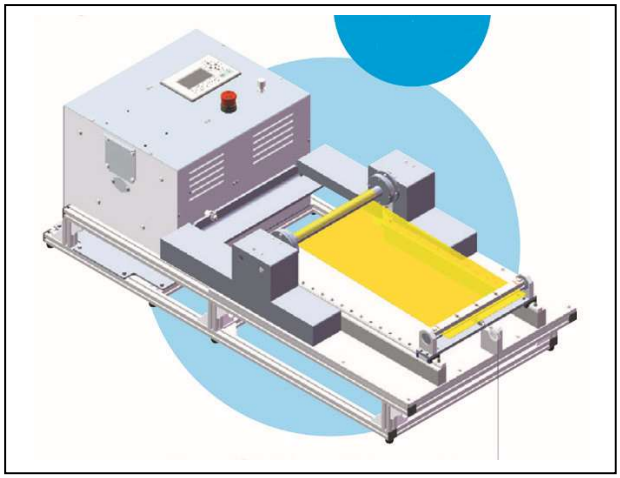
YUASA SYSTEM has been developing Tension-Free™ endurance testing systems since 2012. With our in-house expertise in mechanical, electrical, and software engineering, we have developed accurate testing methods for next generation devices, components, and materials. Tension-Free™ endurance testing reduces 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 SMALL desktop motor unit (Linear Reciprocating Unit) that drives the test jigs for U-shape folding, U-shape sliding, rolling-up, and pushing/pulling tests is both reliable and quiet due to its mechanical linkage design and by its use of rugged plastic gears that ensure endurance and low noise. Fully automatic testing is possible because of the disconnection detector and preset counter. The motor/drive unit can be decoupled from the control unit for further layout flexibility using the supplied connecting cable.

The rolling test jig uses a rack and pinion actuator system to repeatedly roll up and unroll test pieces, such as flexible displays, by rotating and reversing a roller. The machine provides evaluation tests of roll-up tension and friction between test pieces in accordance with IEC 62715 when using a “R2R” manufacturing process.

FR Video -- https://www.youtube.com/watch?v=whVkEMQABpU

Jig for Rolling Test for Planar Object
DLDM111LH + DMX-FR



*Roll up test for planar objects including Flexible Displays, OLED devices, Barrier Film, Flat Cables, Flexible Printed Circuits, Wearables & automobile applications

*Conforms to IEC 62715, JEITA ET-4501 standards

*Test object is secured to a roller at one end with adhesive tape. The other end is held with a tilting fixed clamp. The sample is rolled up and unrolled on the roller. Tension is applied to the fixed clamp with a weight.

FR	
Rolling Test for Planar Object	
Specifications - Jig	Rolling Test Jig for Planar Object
Jig Model Number	DMX-FR
Sample	Sheet or Linear samples
Sample thickness	3 mm (0.118") maximum
Sample width	210 mm (8.27") maximum
Roll up amount	3 full rounds or 314mm (12.4") maximum
Diameter of rollers	5, 20, 60, 100mm (0.2, 0.79, 2.36, 3.94")
Included rollers	20mm (0.79") plus one other roller
Reciprocating speed	90 rpm maximum
Weight - Jig	23 kg (50.7 lb)
Weight - Cover	6 kg (13.2 lb)
Dimensions (mm)	997mm x 435mm x 300mm (WDH)
Dimensions (inches)	39.3" x 17.1" x 11.8" (WDH)
Specifications - Base Unit	Linear Reciprocating Unit
Machine Model Number	DLDM111LH
Motor	DC Brushless Motor (DC 24V, 3.5A,
Counter	8 digit display
Operating stroke	0 to ±60 mm (0 to ±2.36")
Operating speed	10 - 120 rpm
Installation Temp range	+5 to +40ºC
Installation Humidity	15 - 85% RH (no condensation)
Power supply	AC (100V-240V, 50Hz/60 Hz, 100W)
Weight	17 kg (37.5 lb)
Dimensions (mm)	446mm x 344mm x 290mm (WDH)
Dimensions (inches)	17.6" x 13.5" x 11.4" (WDH)
Attached units	
System Model Number	DLDMLH-FR
Weight	40 kg (88 lb)
Dimensions (mm)	1026mm x 435mm x 320mm (WDH)
Dimensions (inches)	40.4" x 17.1" x 12.6" (WDH)

US SERVICES AVAILABLE

Online training

Technical support

Installation & set-up

Maintenance

Guaranteed Warranty

www.yuasa-system.jp/en

YUASA SYSTEM CO., LTD.

For further information please email: info@yuasa-system.jp