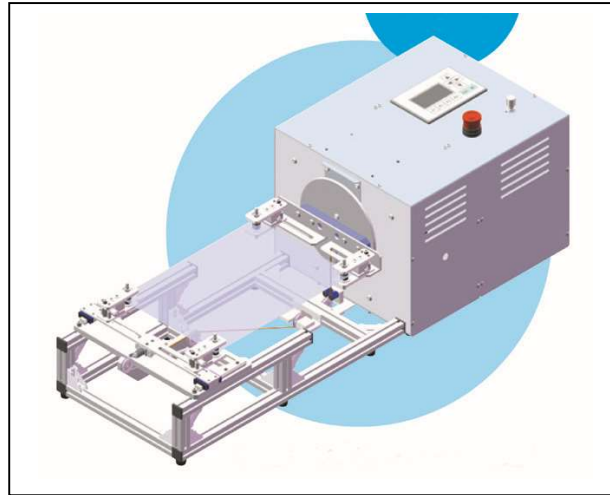


Tension-Free™ Modular Desktop Endurance Testing System Jig for Tension-Free™ Torsion Test for Planar Object TCDM111LH + DMX-FT

*Tension-Free™ torsion test for planar objects including Flexible Displays, OLED devices, Barrier Film, Flat Cables, Flexible Printed Circuits, Wearables & automobile applications

*Conforms to IEC 62716, JEITA ET-4601 standards

*A twisting clamp twists one edge of test piece while a fixing clamp secures the other edge. Clamps at each corner of the test piece are separate so no tension is at the center of the test piece. A string connects the twisting clamp and the fixing clamp so no tension is placed on the test piece.



FT

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 bending and torsion 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.

This Tension-Free™ Torsion jig enables twisting tests on planar objects like flexible displays without tension on the test object. Clamps at each corner of the test piece plus the use of a string to connect the twisting and fixing clamps remove the tension that would normally be present on the object.

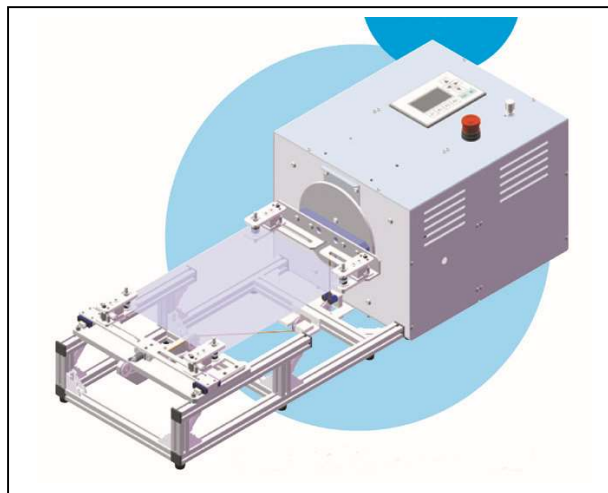
FT Video -- <https://www.youtube.com/watch?v=QtDmi4bhJ7A>

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FT	
Tension-Free™ Torsion Test for Planar Object	
Specifications - Jig	Tension-Free™ Torsion Test Jig for Planar Object
Jig Model Number	DMX-FT
Sample thickness	1mm (0.039") maximum
Sample size (mm)	30mm x 60mm to 210mm x 300mm (W x L)
Sample size (inches)	1.18" x 2.36" to 8.27" to 11.8" (W x L)
Torsion angle	0 to ±90°
Torsion speed	10 - 90 rpm
Torsion torque	1 N m (0.738 foot pounds) maximum
Weight - Jig	3.4 kg (7.5 lb)
Weight - Cover	2.3 kg (5.1 lb)
Dimensions (mm)	272mm x 512mm x 273mm (WDH)
Dimensions (inches)	10.7" x 20.2" x 10.75" (WDH)
Specifications - Base Unit	Rotary Reciprocating Unit
Machine Model Number	TCDM111LH
Motor	DC Brushless Motor (DC 24V, 3.5A, 20W)
Counter	8 digit display
Operating angle	0 to ±270°
Operating speed	10 - 120 rpm
Installation Temp range	+5 to +40°C
Installation Humidity	15 - 85% RH (no condensation)
Power supply	AC (100V-240V, 50Hz/60 Hz, 100W)
Weight	17 kg (37.5 lb)
Dimensions (mm)	319mm x 355mm x 290mm (WDH)
Dimensions (inches)	12.6" x 14.0" x 11.4" (WDH)
Attached units	
System Model Number	TCDMLH-FT
Weight	20.4 kg (45 lb)
Dimensions (mm)	319mm x 854mm x 290mm (WDH)
Dimensions (inches)	12.6" x 33.6" x 11.4" (WDH)

US SERVICES AVAILABLE

- Online training
- Technical support
- Installation & set-up
- Maintenance
- Guaranteed Warranty

www.yuasa-system.jp/en

YUASA YUASA SYSTEM CO., LTD.

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