

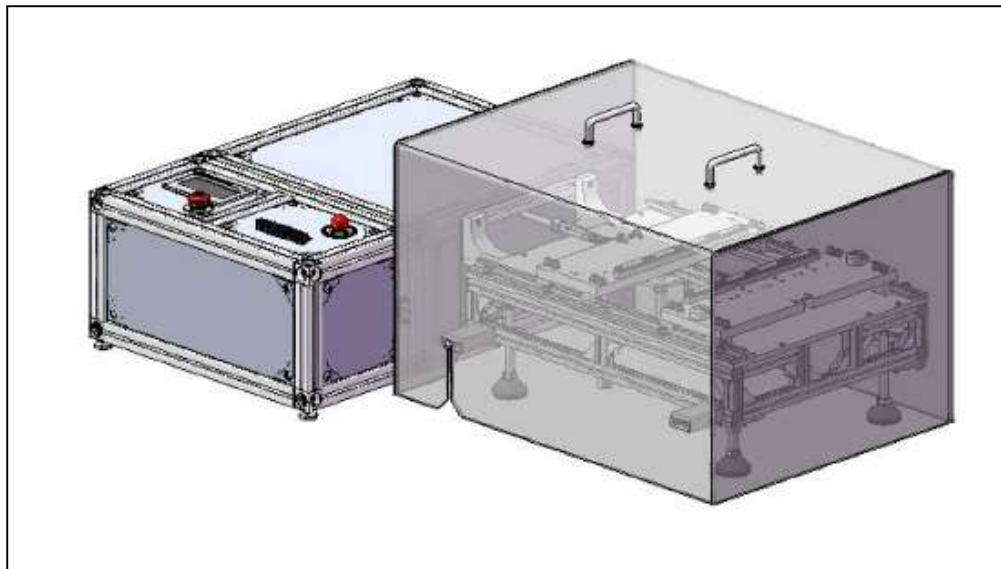
## Environmental Endurance Testing System

### Jig for Stretching Tester

DLD111L + ET254008-002

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-M

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 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.

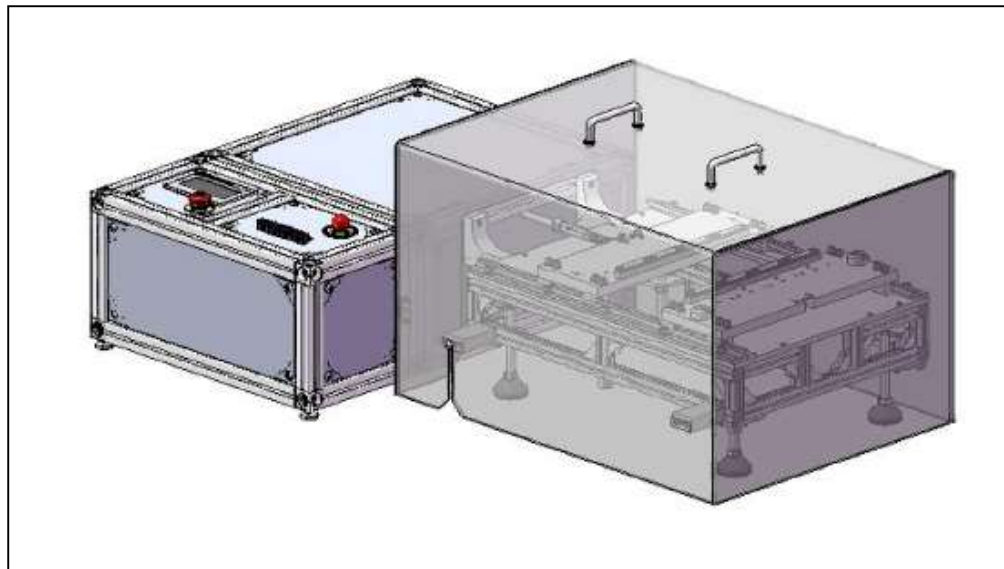
The test jig can be installed in the environmental chamber with optional parts.

ST-M Video -- <https://www.youtube.com/watch?v=g0jK9ivRfqY>

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ST-M	
Stretching Tester	
<b>Specifications - Jig</b>	Stretching Test Jig
Jig Model Number	ET254008-002
Sample	Sheet or Linear samples
Sample thickness	3 mm (0.118") maximum
Sample width	245 mm (9.65") maximum
Sample length	6 mm (0.236") plus clamping space minimum
Stretching length	240 mm (9.49") maximum
Stretching length example	6 mm to 246 mm, 60 mm to 300 mm
Tension	100 N (22.48 pounds-force) maximum
Operating distance	0 to ±120 mm (0 to ±4.72")
Operating speed	10 - 90 rpm
Weight - Jig	13 kg (28.9 lb)
Weight - Cover	7 kg (15.4 lb)
Dimensions (mm)	625mm x 506mm x 241mm (WDH)
Dimensions (inches)	24.61" x 19.92" x 9.49" (WDH)
<b>Specifications - Base Unit</b>	Linear Reciprocating Unit
Machine Model Number	DLD111L
Motor	Induction gearmotor, 3 Phases, 90 W
Counter	8-digits display (with pre-set)
Reciprocating speed	10 - 90 rec./min
Reciprocating distance	0 to ±120 mm (0 to ±4.72")
Installation Temp range	+5 to +40°C (+41 to +104°F)
Installation Humidity	15 - 85% RH (no condensation)
Power supply	AC (100V-110V, 50Hz or 60 Hz, 1 Phase, 5A)
Power supply (optional)	AC (200V-240V, 50Hz or 60 Hz, 1 Phase, 5A)
Weight	50 kg (110.2 lb)
Dimensions (mm)	450mm x 675mm x 241mm (WDH)
Dimensions (inches)	17.72" x 26.57" x 9.49" (WDH)
<b>Attached units</b>	
System Model Number	ET254008-002
Weight	63 kg (139.1 lb)
Dimensions (mm)	1075mm x 675mm x 241mm (WDH)
Dimensions (inches)	42.33" x 26.57" x 9.49" (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.

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