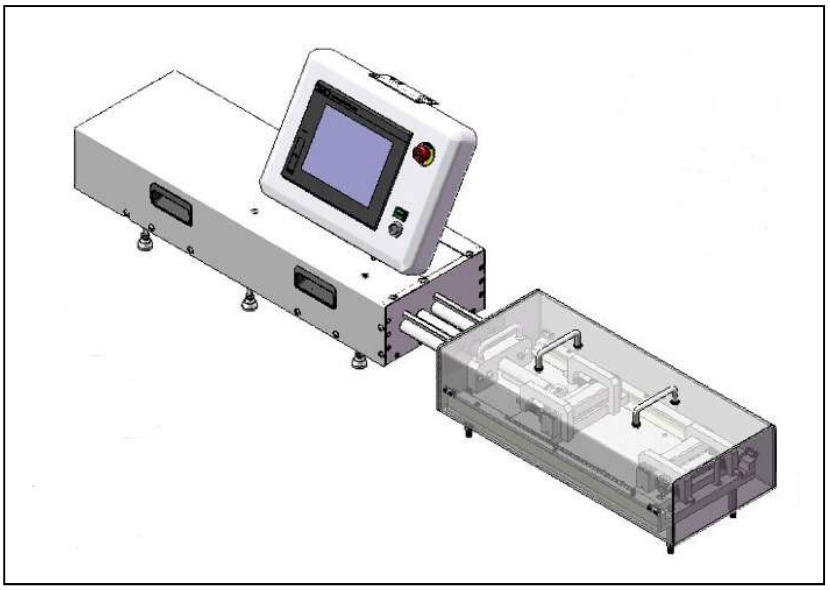
Environmental Endurance Testing System
Jig for Stretching Tester
ET137002-002 + ET256002-001

Stretching test for planar 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. Items that can be set include the stretching length, the target number of stretches, and overload protection. Test results include the tension value of every stretch and the elongation at the end of testing.



ST-L

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 motor unit can measure and record stretched length, stretching force and stretched counts. The motor unit can drive the stretching test jig to a constant position (target stretching length) or with constant force.

The test jig enables stretching tests for planar objects. The hardness or other characteristics can be measured with other measuring equipment easily before the process reaches the target number of stretches because the motor unit can re-stretch the object in the same condition as before removing it (the object can be removed from the stretching test jig together with clamps). The test jig can be installed in the environmental chamber.

ST-L Video -- https://www.youtube.com/watch?v=Q5zKRPh4uW8

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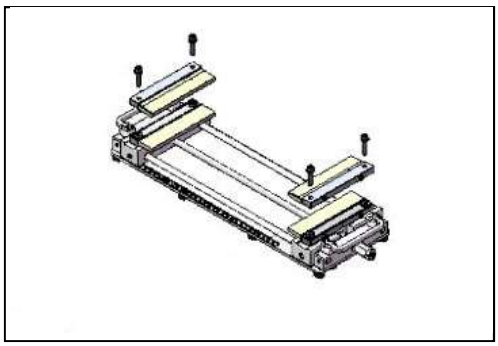

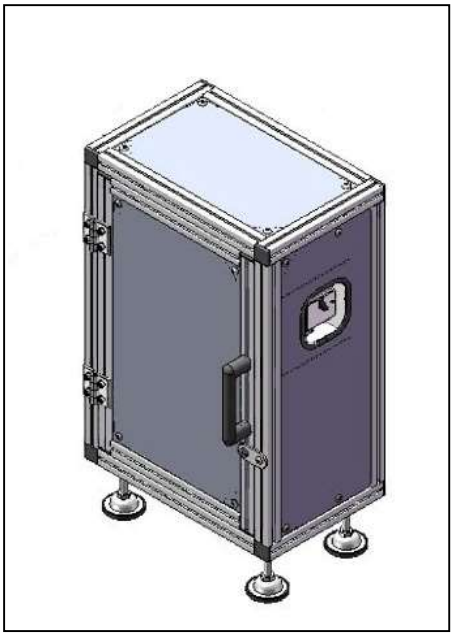

ST-L	
Stretching Tester	
Specifications - Jig	Stretching Jig
Jig Model Number	ET256002-001
Sample	Sheet
Sample thickness	1 mm maximum
Sample width	100 mm maximum
Sample length	160 to 400 mm
Stretching length	50 mm maximum
Stretching length	in limited condition, 100 mm maximum
Stretching speed	120 mm/sec maximum
Stretching force	1500 N maximum
Weight - Jig	20 kg (44.10 lb)
Weight - Cover	3 kg (6.61 lb)
Weight - Sample Setting Jig	6 kg (13.23 lb)
Dimensions (mm)	550mm x 264 x 209.5mm (WDH)
Dimensions (inches)	21.65" x 10.39" x 8.25" (WDH)
Specifications - Drive Unit	Linear Reciprocating Unit
Driving Unit	ET137002-002
Motor	Servomotor
Load cell	Push & Pull 5000 N
Stretching speed	120 mm/sec maximum
Installation Temp range	+5 to +40ºC (+41 to +104ºF)
Installation Humidity	15 - 85% RH (no condensation)
Power supply	AC (208V, 60Hz, 3 Phase, 10A)
Weight	60 kg (123.28 lb)
Dimensions (mm)	1160mm x 260mm x 520mm (WDH)
Dimensions (inches)	45.67" x 10.24" x 20.48" (WDH)
Attached Drive and Jig	
System Model Number	ET017-002
Weight	80 kg (167.38 lb)
Dimensions (mm)	1584mm x 300mm x 209.5mm (WDH)
Dimensions (inches)	62.36" x 11.81" x 8.25 (WDH)
Specifications - Controller	Separated Controlling Box
Driving Unit	ET137002-002
Weight	40 kg (88.19 lb)
Dimensions (mm)	420mm x 270mm x 720mm (WDH)
Dimensions (inches)	16.54" x 10.63" x 28.35" (WDH)

US SERVICES AVAILABLE

Online training

Technical support

Installation & set-up

Maintenance

Guaranteed Warranty

www.yuasa-system.jp/en

YUASA SYSTEM CO., LTD.

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