Tension-Free[™] Environmental Endurance Testing System Jig for Tension-Free[™] U-shape Folding Test CL09-typeC01 (DLD111L-M) + DX-FSC90

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

*Holds the test sample between a moving clamp and a fixed clamp. As the moving clamp approaches the fixed clamp they rotate down and the test sample undergoes Tension-Free[™] and Friction-Free U-shape folding in a controlled environment.



FLEX FSC90

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 test jigs for Tension-Free[™] and Friction-Free U-shape folding of planar objects, and for bending planar objects with or without tension. The environmental test chamber allows tests to be performed in a constant temperature and humidity environment. The machine can be programmed for temperature, humidity, and the mechanical testing parameters. Fully automatic testing is possible because of the disconnection detector and preset counter.

The Tension-Free[™] and Friction-Free U-shape folding test jig enables folding tests without tension for planar objects. This machine can form ideal bending shapes by the elasticity of test pieces or by using the guide plates.

FSC90 in Chamber Video -- https://www.youtube.com/watch?v=GAdE4TRTqZA

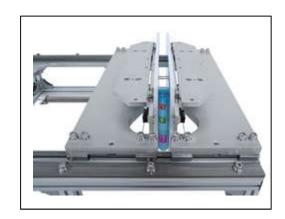
www.yuasa-system.jp/en

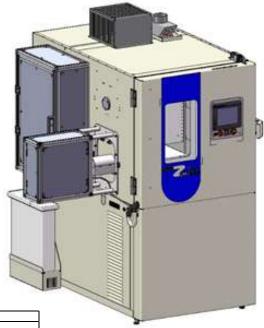
YUASA YUASA SYSTEM CO., LTD.

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Tension-Free™ U-shape Fo	Iding Test
Specifications - Jig	Tension-Free™ U-shape Test Folding Jig
Jig Model Number	DX-FSC90
Sample	Sheet or Linear samples
Sample thickness	3 mm (0.118") maximum
Sample width	245 mm (9.65") maximum
Sample length	46 mm (1.81") minimum (for clamping space
Bending angle	0 - 180°
Bending radius	0 - 50 mm (0 - 1.97")
Operating stroke	0 to ±120 mm (0 to ±4.72")
Operating speed	10 - 90 rpm
Weight - Jig	12 kg (26.5 lb)
Dimensions (mm)	550mm x 400mm x 210mm (WDH)
Dimensions (inches)	21.65" x 15.75" x 8.27" (WDH)
Specifications - Drive Unit	Linear Reciprocating Unit
Endurance Test Machine	DLD111L-M
Motor	Induction gearmotor, 3 Phases, 90W
Counter	8 digit display
Operating stroke	0 to ±120 mm (0 to ±4.72")
Operating speed	10 - 90 rpm
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, 54
Weight	33 kg (72.7 lb)
Dimensions (mm)	450mm x 225mm x 450mm (WDH)
Dimensions (inches)	17.72" x 8.86" x 17.72" (WDH)
Specifications - Base Unit	(Included DLD111L-M)
Environmental Chamber	CL09-typeC01
Counter	8 digit display
Power supply	AC (200-208V, 3 Phase, 50Hz/60 Hz, 60A)
Installation Temp range	+21.1 to +29.4°C (70-85°F)
Installation Humidity	15 - 85% RH (no condensation)
Control Temperature	-40 to +150°C (-40 to +302°F)
Control Humidity	10 - 98% RH
Weight	700 kg (1,540 lb)
Dimensions (mm)	1700mm x 1575mm x 2077mm (WDH)
Dimensions (inches)	67" x 62" x 82" (WDH)
Attached units	
System Model Number	CL09-typeD01-FSC90
Weight	712 kg (1,570 lb)
Dimensions (mm)	1700mm x 1575mm x 2077mm (WDH)
Dimensions (inches)	67" x 62" x 82" (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