

Tension-Free™ Floor Standing Endurance Testing System Jig for Tension-Free™ Bending TCD-BTFB

Tension-Free™ Bending test for planar objects including Flexible Displays, OLED devices, Barrier Film, Flat Cables, Flexible Printed Circuits, Wearables & automobile applications and for linear objects including Cables (Electric Wires, Optical Fibers), Harnesses, Cable Guides, Tubes, Wires, Fibers, Wearables & automobile application

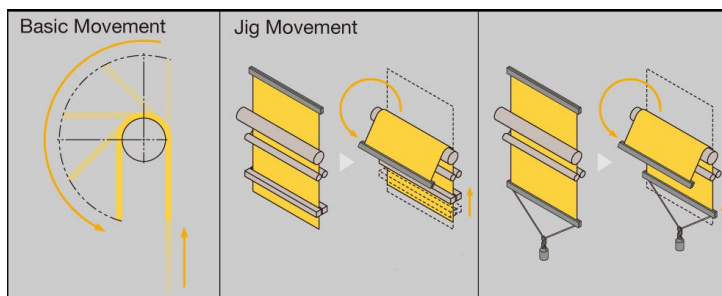
The BTFB uses a bending rod to keep the bending radius constant. The clamp moves in a circular motion having the same center point as the rod. The other end slides. There is no tension applied to the sample. Samples can be as large as A4 size.



TCD-BTFB

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.

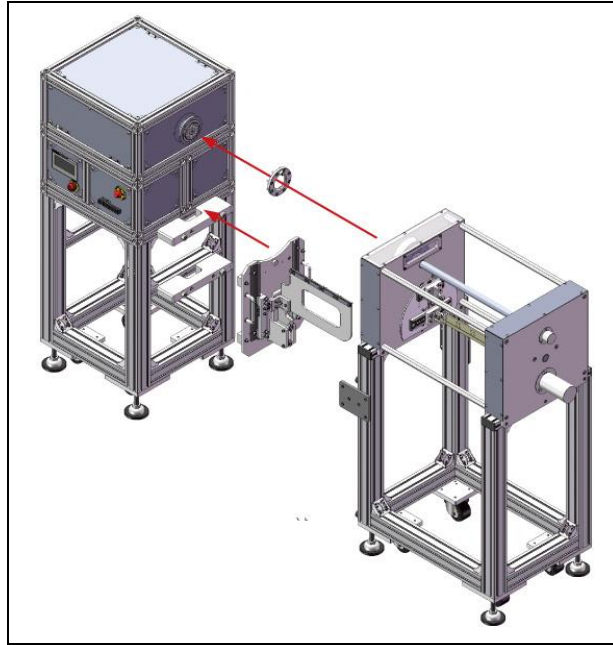
The Tension-Free™ Bending Test Machine TCD-BTFB is a stand-alone floor-standing endurance test machine. The sample can be bent up to 180° one way around a rod and then up to 180° the other way. The lower part of the clamp moves up and down to remove tension from the sample.



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BTFB	
Tension-Free™ Bending Test	
Specifications- Jig	
Model Number	BTFB
Sample	Sheet or Linear samples
Sample thickness	1 mm (0.039") maximum
Sample width	245 mm (9.65") maximum
Bending angle	0 ~ ±180°
Bending radius	2 ~ 15 mm (0.079 - 0.59")
Bending speed	10 ~ 60 reciprocations per minute
Weight - Jig	about 4.0 kg (8.82 lb)
Weight - Swing Plates	about 2.0 kg (4.4 lb)
Weight - Swing Checker	about 1.5 kg (3.3 lb)
Weight - Lower Slider Clamp	about 0.5 kg (1.1 lb)
Specifications - Motor Unit	Rotary Reciprocating Unit
Machine Model Number	TCD111L
Motor	Induction gearmotor
Maximum torque	9.0 Nm (6.64 foot pounds)
Operating angle	0 ~ ±180°
Operating speed	10 ~ 90 reciprocations per minute
Counter	8 digit display
Installation Temp range	+5 to +40°C (+41 to +104°F)
Installation Humidity	15 to 85% RH (no condensation)
Weight	about 60 kg (132 lb)
Dimensions (mm)	450mm x 450mm x 467.5mm (WDH)
Dimensions (inches)	17.72" x 17.72" x 18.4" (WDH)
Power supply	AC (100~110V, 50Hz/60 Hz, 5 A, 90W)
Motor with Frames and BTFB Jig	
System Model Number	TCD-BTFB
Weight - Base Frame	about 33 kg (72.7 lb)
Weight - Driving Unit	about 78 kg (172 lb)
Weight - Total	about 180 kg (397 lb)
Dimensions (mm)	1312mm x 450mm x 1168.5mm (WDH)
Dimensions (inches)	51.65" x 17.72" x 46.0"

US SERVICES AVAILABLE

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

www.yuasa-system.jp/en

YUASA YUASA SYSTEM CO., LTD.

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