

Modular Desktop Endurance Testing System

Jig for Bending Test

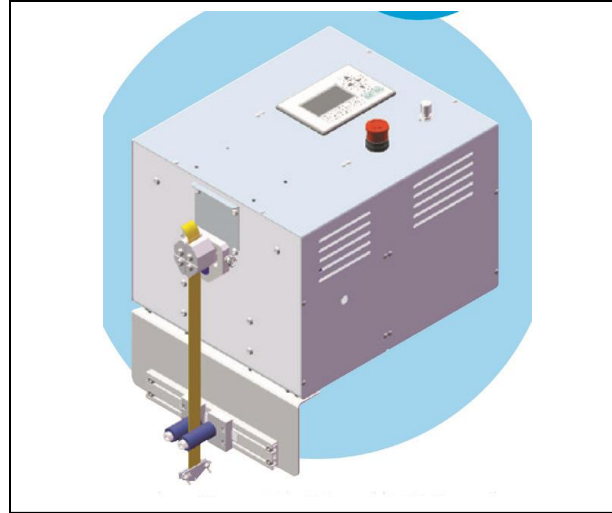
DMLHB-P150 and DMLHP-P150

v5

*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 applications

*Conforms to JIS C 3005, JIS C 6851, JIS C 9335, JIS C 5016 standards

*Bend Rollers on the motor/drive unit hold the test sample and bend it while a second fixed set of Bend Rollers steady the test sample.



P150

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 (Rotary Reciprocating Mode) 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.

Test bending of objects such as cables, harnesses, flexible displays, etc., can be conducted quickly and easily. Objects up to 16mm (0.62") thick and 30 mm (1.18") wide can be bent as much as 180° with a radius of 2.5mm (0.1") to 40mm (1.57"). Based on JIS, this machine allows many different tests using weights.

P150 Video -- <https://www.youtube.com/watch?v=XtLYpi2s2b0>

www.yuasa-system.jp/en

YUASA YUASA SYSTEM CO., LTD.

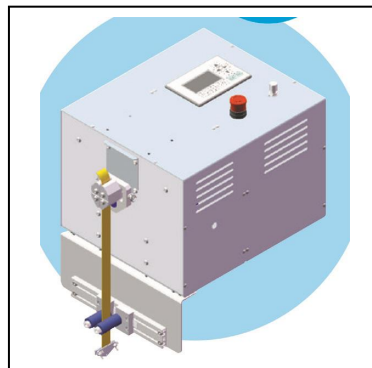
Jig for Bending Test

DMLHB-P150 and DMLHP-P150

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P150 — Bending Test Jig		
	DMLHB	DMLHP
Specifications - Jig	Bending Test Jig	
Jig Model Number	DMX-P150	
Sample	Sheet or Linear samples	
Sample thickness	16 mm (0.63") maximum	
Sample width	30 mm (1.18") maximum	
Bending radius	2.5 - 40mm (0.1 - 1.57")	
Bending angle	0 to ±180°	
Bend Rollers	2.5, 10, 30, 40mm (0.1, 0.39, 1.18, 1.57")	
Included Bend Rollers	10 mm (0.39")	
Operating speed	Depends on moment of inertia and bend angle	
Weight - Jig	2.5 kg (5.5 lb) (R10 swing plate and checker)	
Weight - Cover	1.0 kg (2.2 lb)	
Dimensions (mm)	293mm x 90mm x 385.5mm (WDH)	
Dimensions (inches)	11.5" x 3.5" x 15.2" (WDH)	
Specifications - Base Unit	Rotary and Linear Drive	
Machine Model Number	DMLHB	DMLHP
Motor	DC Brushless Motor	Stepping Motor
Motor gear ratio	1/20	
Motor power	DC 24V, 3.5A (maximum), 30W	DC 48V, 1.72A (maximum), 30W
Counter	8 digit display	
Operating angle (Rotary Mode)	0 ~ ±270°	7 ~ ±270°
Operating distance (Linear Mode)	0 ~ ±60mm	3 ~ 120mm
Operating speed	10 ~ 120 rpm	5 ~ 90 rec/min
Installation Temp range	+5 ~ +40°C	
Installation Humidity	15 ~ 85% RH (no condensation)	
Power supply	AC (100V-240V, 50Hz/60 Hz, 100W)	
Weight	about 16.5 kg (36.4 lb)	about 15.2 kg (about 33.5 lb)
Dimensions (mm)	396mm x 343.5mm x 289mm (WDH)	
Dimensions (inches)	15.6" x 13.5" x 11.4" (WDH)	
Attached units with cover		
System Model Number	DMLHB-P150	DMLHP-P150
Weight	20 kg (44.1 lb)	18.7 kg (41.2 lb)
Dimensions (mm)	396mm x 443mm x 418mm (WDH)	
Dimensions (inches)	15.6" x 17.4" x 16.5" (WDH)	

US SERVICES AVAILABLE

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

YUASA YUASA SYSTEM CO., LTD.

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