

# Modular Desktop Endurance Testing System Jig for Pushing and Pulling DLDM111LH + DMX-PP

Push/Pull Test for objects including Push-button Switches, Limit Switches, Connectors, USB Memories, SD Cards, Card Readers

The output shaft of the PP endurance test machine pushes and/or pulls a test piece. The test piece is fixed on the XYZ table.



# PP

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 PP endurance test machine provides pushing and/or pulling of objects such as switches, SD cards, and USB memories used in many industrial applications. The machine is designed to test a wide variety of products, including prototypes. The linkable structure features a smooth linear reciprocating motion with stable operation. There is no damage to test pieces.

The positioning of test pieces is easy. The stroke can be set with a short stroke for samples such as push-button switches, or a long stroke for samples such as limit switches. The XYZ table is configurable with  $60 \pm 7$  mm back and forth movement,  $\pm 7$  mm left and right movement, and  $\pm 10$  mm up and down movement.

PP Video -- <https://www.youtube.com/watch?v=PsnJ6HBFo4Q>

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PP	
Push Pull Test	
<b>Specifications - Jig</b>	Push Pull Test
Jig Model Number	DMX-PP
Sample	Objects such as switches, memory cards, etc.
Pushing/Pulling Force	20 N maximum
End of Driving Shaft Threads	M5, 10 mm depth
Sliding Distance	0 ~ ±60 mm (0 ~ ±2.36")
Operating Speed	10 ~ 120 rec/min
Adjustment Range of Stage (mm)	X = +60 ± 7mm, Y = ± 7mm, Z = +10mm
Adjustment Range of Stage (in)	X = +2.362 ± 0.275", Y = ± 0.275", Z = +0.394"
Weight - Base	5.0 kg (11.0 lb)
Weight - Sample Fixing Jig	1.0 kg (2.2 lb)
Weight - Cover	1.3 kg (2.9 lb)
Dimensions (mm)	259mm x 370 mm x 324 mm (WHD)
Dimensions (inches)	10.2" x 14.6" x 12.8" (WDH)
<b>Specifications - Base Unit</b>	Linear Reciprocating Unit
Machine Model Number	DLDM111LH
Motor	DC Brushless Motor (DC 24V, 3.5A, 20W)
Counter	8-digit display
Operating stroke	0 ~ ±60 mm (0 ~ ±2.36")
Operating speed	10 ~ 120 rec/min
Installation Temp range	+5 ~ +40° C (+41 ~ +104° F)
Installation Humidity	15 ~ 85% RH (no condensation)
Power supply	AC (100V-240V, 50Hz/60 Hz, 100W)
Weight	17 kg (37.5 lb)
Dimensions (mm)	396 mm x 344 mm x 290mm (WDH)
Dimensions (inches)	15.6" x 13.5" x 11.4" (WDH)
<b>Attached Units</b>	
System Model Number	DLDM111LH-PP
Weight	24.3 kg (53.6 lb)
Dimensions (mm)	655 mm x 370 mm x 324 mm (WDH)
Dimensions (inches)	25.8" x 14.6" x 12.8" (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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