

# PLANE BENDING FATIGUE TESTING MACHINE

## MODEL PBF-30X

This machine is best suited to carry out repeated bending test of flat specimen made of metal, ceramics and high-polymer materials as well as repeated torsion test of round specimen.

Convenience in use has remarkably been improved with newly added various user-supporting functions. For example, collective display, in a newly adopted touch panel display, of upper & lower limit values for moment under measurement, amplitude value, repeated speed and number of repetition cycles as well as alarm history display and centralized operation for various settings. Moreover, memory card slot has been incorporated as standard attachment so that trend data can be collected for upper & lower limit values of moment.

### Features

#### Moment measurement via load-cell

Upper & lower limit values and amplitude value of measured moment are digitally displayed so that they can collectively be monitored on display.

#### Automatic stop setting via moment and number of repetition cycles

Since limit setting is done via upper & lower limit values and amplitude value of moment, automatic stop can be activated before test specimen fractures completely. Automatic stop via number of repetition cycles is also possible.

#### Optional setting of repeated speed

Repeated speed can freely be set within the range from 300 to 1500 cpm.

#### Easy operation

Adoption of touch panel enables centralization of main operation and setting.

#### Easy-to-see display screen

The respective measured values during test are collectively monitored on display. Adoption of TFT color touch panel has improved visibility for each operation part and each display part.

#### Extension via external output

Adoption of load cell measurement method enables exact measurement of moment as well as external output of upper & lower limit values, amplitude value and instantaneous value of moment.

#### Memory card slot as standard attachment

Trend data for upper & lower limit values of moment can be saved in memory card (CF). The data can be stored and edited with PC at your hand.

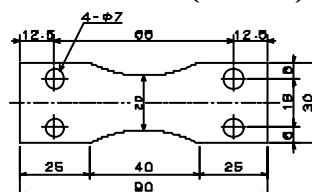


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### Specification

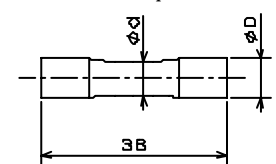
Model		PBF-30X
Rated bending moment		- 15 ~ + 30 N·m
Rated repeated bending moment		0 ~ ± 15 N·m
Rated mean bending moment		0 ~ + 15 N·m
Rated static bending angle		- 12 ° ~ + 24 °
Rated repeated speed		300 ~ 1500 cpm
Digital display digits	Moment	4
	Repeated speed	4
	Number of repetition cycles (× 100)	6
External output for bending [moment]		DC ± 10V
Power supply 220/200V 50/60Hz		単相 1 KVA
Approx. dimension	width	440 mm
	depth	440 mm
	height	490 mm
	weight	80 kgw

Flat test specimen for bending test  
(unit : mm)



thickness	1 ~ 12mm
pitch	1mm

Round specimen for torsion test (option)



D [mm]	d [mm]
8	3 ~ 7
10	5 ~ 9



Test force introducing parts and bending moment measuring parts via load cell