



Weight for Range

## No.2048-D

## Taber stiffness tester (automatic type)

Stiffness is one of important parameters for assessing the appropriateness of material for processing and printing. There are nearly proportional relationships between stiffness and beating degree, basis weight, thickness and water content. The correlation is remarkable especially with thickness. As with the No.2048-M, one end of the specimen (paper, paperboard, plastic sheet, metal foil, etc.) is held, and around the held point, the specimen is turned slowly, thereby being given flexural loads. The loading point (rotation angle) is read by a sensor when the deflection angle is 15 degrees, to calculate and output stiffness.

## &lt;Feature&gt;

1. Fully automated zero adjustment, significantly reducing the measurement time.
2. Pinch the specimen, and push the AUTO switch. Measurement is done separately for right and left. Right and left data are shown on the digital display. The average of right and left results is also displayed. Very easy operation.
3. After measurement, the rotating disc quickly returns (four times faster) to the zero point.

**Specimen:** 30 to 40mm wide (typically 38mm), 70mm long, up to 3.2mm thick

**Measurement ranges:** 0 to 10 (g·cm), 0 to 100 (g·cm)(standard), 0 to 500 (g·cm), 0 to 1,000 (g·cm), 0 to 2,000 (g·cm)

**Bending speed:** 180°+ 40°/min.

**Stiffness data:** left, right, average

**Switching display:** SI unit (N) and gram unit (g) selectable

**Referential standards:** JIS P-8125-2000, TAPPI T489os-99, ISO 2493

**Power source:** 100/110VAC 50/60Hz 1A

**Outer dimensions:** 300 x 320 x 440mm

**Instrument weight:** 13kg

## No.2048-M

## Taber stiffness tester (motorized type)

This tester readily measures the stiffness of paper and paperboard. Features a high precision: a pendulum gives flexural loads to the specimen. Use of an auxiliary weight or a correcting element widens the measurement range, increasing sensitivity and reproducibility. One end of the specimen is held on the pendulum rotating axis, while the other end is positioned between a pair of rollers that turn with the loading disc to exert flexural loads on the specimen. The loading point (rotation angle) is read on the outer scale disc when the specified deflection angle, 15 or 7.5 degrees, is reached.

**Specimen:** 30 to 40mm wide (typically 38.0mm), 70mm long, up to 3.2mm thick

**Deflection angle:** 15° or 7.5°

**Maximum flexural moment:** 490mN·m

**Accessories:** weights range 500, 1000, 2000g

**Correction element (0 to 10g):** each 1 pc

**Referential standards:** JIS P-8125-2000, TAPPI T489os-99, ISO 2493

**Power source:** single-phase 100/110VAC 50/60Hz 0.5A

**Outer dimensions:** 350 x 250 x 260mm

**Instrument weight:** 13kg

