

No. 2041

Bekk smoothness tester, HK model

Smoothness of paper is one of the important factors to evaluate writing and printing aptitudes of paper. With this machine, test is conducted in the following procedure: place a sheet of paper on the well polished surface of glass constituting an optical surface, apply a 0.1 MPa pressure on the top of the paper and measure the time needed for a 10 cc air to penetrate through the gap between the paper surface and the glass surface. To solve the problem of consumption of much time for measurement of specimens with a high smoothness, a rapid measurement system is provided, which is able to measure penetration time of 1 cc air, 1/10 of the standard air volume.



No. 2041

Measurement area: $10 \pm 0.05 \text{ cm}^2$

Specimen pressurization: 100 kPa

Pressurization type: cam

Vacuum meter: digital

Timer: max.99999.9 seconds

Measurement vacuum: 50.7 to 48.0 kPa

Measurement air volume: 10 cc or 1 cc, selectable

Referential standards: JIS P-8119-1998, TAPPI T479om-99,
ISO 5627

Power source: single-phase 100/110 VAC 50/60 Hz 1A

Outer dimensions: 420×300×530 mm

Instrument weight: 24 kg

Bekk smoothness tester, HP model

Smoothness of paper is one of the important factors to evaluate writing and printing aptitudes of paper. With this machine, test is conducted in the following procedure; place a sheet of paper on the well polished surface of glass constituting an optical surface, apply a 0.1 MPa pressure on the top of the paper and measure the time needed for a 10 cc air to penetrate through the gap between the paper surface and the glass surface. To solve the problem of consumption of much time for measurement of specimens with a high smoothness, a rapid measurement system also is provided, which is able to measure penetration time of 1 cc air, 1/10 of the standard air volume. For specimens of high smoothness, it is possible to supplement 0.25 cc, 1/40 of the standard air amount (optional).

Measurement area: $10 \pm 0.05 \text{ cm}^2$

Specimen pressurization: 100 kPa

Pressurization type: pneumatic type (with air cylinder)
automatically released after measurement

Specimen detection: detection with sensor (ON/OFF setting)

Vacuum meter: digital

Timer: max. 99999.9 seconds

Measurement vacuum: 50.7 to 48.0 kPa

Measurement air volume: 10 cc or 1 cc (0.25 cc optional)

Optional: Printer

Data output RS-232C

Paper feeder

Referential standards: JIS P-8119-1998, TAPPI T479om-99,
ISO 5627

Power source: single-phase 100/110 VAC 50/60 Hz 2A

Air source: 0.5MPa

Outer dimensions: 470×435×540 mm

Instrument weight: 44 kg



No. 2044



With paper feeder