

No.2040-H

Oken type smoothness and air-permeability tester (water column type)

This machine has its characteristic in using a 500mm water column air manometer to measure airflow between the surface of a specimen and the standard surface, with certain conditions, while Bekk type smoothness tester depends on the measurement of time that is needed to inflow a certain amount of air.

The standard surface is constituted of multiple concentric rings, and the air of 500mm water column-adjusted low pressure is let to flow between the standard surface and the specimen for measurement. On the way of the air passage, is provided a capillary orifice to convert airflow into pressure for display. This testing method consumes little time in measurement, so it is suitable for site management. The standard type measures smoothness and air permeability. The tester for smoothness or air permeability only is available.

<Features>

1. Ease of maintenance for the specimen measurement section: it is easy to inspect and replace the measurement head and the specimen-pressing plate.
2. The air pressure-adjusting water column (manometer) is made of stainless steel to prevent corrosion and rusting, considering long stability.
3. The dimensions of an orifice are determined through measurement of airflow at the air pressure medium value. Use of this method allows KRK to produce the testers of almost no inter-machine error in smoothness and in air permeability.

| Median | Measurement range | Maximum scale | Measurement specimens |
|--------|-----------------------|-----------------|---|
| 100 | 5 to 3000 seconds | 5000 seconds | Newspaper, gravure and wood-free paper |
| 500 | 20 to 10,000 seconds | 30,000 seconds | Wood-free paper, gravure and coated paper |
| 1000 | 50 to 30,000 seconds | 50,000 seconds | Coated paper and art paper |
| 2000 | 100 to 50,000 seconds | 100,000 seconds | Coated paper and art paper |

According to the kind of your specimen, select a relevant range from the above table. However, the median of 2000 seconds is for air permeability only. With this machine, it is possible to freely combine different degrees of smoothness and air permeability.

Measurement area for smoothness: 8.08cm²

Measurement load for smoothness: 8.08kg

Total length of a measurement ring: 733mm

Measurement area for air-permeability: 642mm²

Measurement range
(change of nozzles)

Median of smoothness: 100, 500, 1000sec.

Median of air permeability: 100, 500, 1000, 2000sec.

Referential standard: JIS P-8155-2010, JIS P-8117-2009, ISO 5636-6

Outer dimensions: 280 x 410 x 790mm

Instrument weight: 43kg

