



No.2270

Gravure printability tester (monochrome printing)

Needs for gravure printing have been increasing recently, with rapidly advancement of its technology. This tester has been developed under the guidance of the National Printing Bureau, to have functions similar to those of the practical press. Printing conditions can be set as desired, such as printing pressure, speed, contact angle and contact pressure of the doctor blade. This machine is composed of impression cylinder, plate cylinder, doctor section, ink vat and driving unit. Ink applied on the plate cylinder in the ink vat is scraped off by the doctor. The plate cylinder contacts the impression cylinder on which the specimen is wound, thereby transferring the ink to the specimen under a constant pressure to complete printing.

Printing speed: 0.23 to 2.0m/sec.

Printing pressure: 100 to 1000N/cm

Printing area: 35mm wide, 350mm long

Plate cylinder: 180mm in diameter, 50mm wide

Impression cylinder: 180mm in diameter, 50mm wide (effective width 40mm)

Doctor: for gravure printing, contact angle and pressure adjustable

Printing speed meter: digital display, circumferential speed directly readable

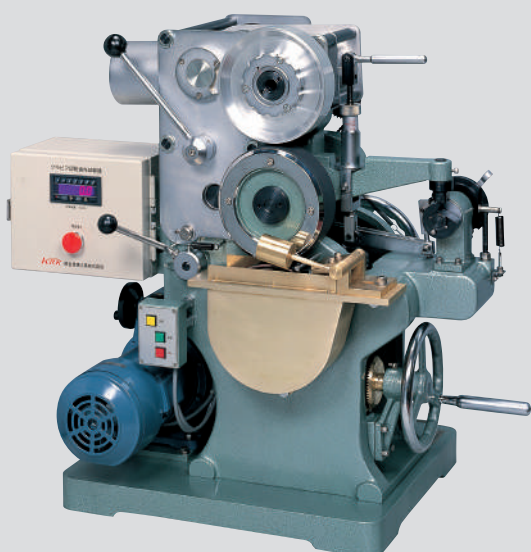
Referential standard: J.TAPPI No.24-2000

Reference: Proceedings of the Japanese Society of Printing Science and Technology, Vol. 10, No.1, Takahashi, Koyama and Masaki "Ink transfer in gravure printing"

Power source: three-phase 200/220VAC 50/60Hz

Outer dimensions: 720 x 530 x 590mm

Instrument weight: 190kg



No.2271

Attachment for drying test of gravure printing

Along with higher speed of the rotary gravure press, evaluation of drying property of prints has become ever more important. The Printing Bureau type gravure printability tester is widely used. On the basis of this tester, we KRK have developed a set-off test method in gravure printing. The tester developed is composed of a drying roller above the impression cylinder to apply a constant load. The drying roller has the same diameter as the impression cylinder, rotating at the same speed and in the same direction. A white paper sheet or film is wound around the drying roller. After a certain span of time following printing, lower the pressurization lever to make the drying roller contact the print. By observing the state of ink transfer onto the white paper or film, the drying property is evaluated.

Contact pressure: 0 to 50N/cm