

Electronic Inkometer

Model 106

The Model 106 Electronic Inkometer is the very latest in ink testing technology. Featuring advanced micro-processor control, it provides the highest accuracy and efficiency for research and development, quality control and process evaluation.

Simulating the dynamic conditions that occur in the printing process, the Inkometer provides reliable data on ink tack. It measures the integrated forces involved in ink film splitting and the effects of speed, film thickness, temperature and solvent evaporation on these forces.

The test results are numerical values (in gram-meters) for the torque required to “work” the ink film at known rates, with predetermined film thickness and temperature. These torque readings are actually measurements of the tack of the ink.

The Electronic Inkometer simplifies ink testing with push-button operation and a digital display of temperature, tack, RPM and test time. It operates at fixed speeds of 150, 400, 800, 1200 and 2000 RPM and has variable speeds up to 3000 RPM (4000 RPM

optional). Tack readings are displayed, printed and transmitted at either 10, 30 or 60 seconds. A built-in printer automatically prints the results of a 10-minute ink stability test.

The Inkometer consists of an upper composition covered roller, a vibrator composition covered roller and a temperature controlled roller. The composition covered rollers are suitable for testing all printing inks having definite plastic properties and containing no volatile thinners.

The units temperature is controlled by circulating water through it. The control unit is separate from the tester and may be placed wherever is most convenient. It utilizes a refrigerated bath circulator with stainless steel reservoir.



Features

- Microprocessor-based electronics for high reliability
- Push-button operation simplifies testing
- Automatic mode for quick and easy test flow
- Fixed and varied speeds
- Calibration weights included
- RS-232 interface for ink stability curve
- Built-in printer

Options

Recorders

A single-pen chart recorder and an X-Y recorder are available.

Optional Output

Parallel BCD and RS-232 output are available as replacement options for multiplexed BCD.

Lithometer Attachment

An interchemical lithometer attachment allows you to observe the effect of fountain solution on the tack and performance of your ink.

Physical Specifications

Inkometer Model 106

Dimensions

457 mm x 914 mm x 457 mm (D x H x W)

Gross Weight

151 kg

Net Weight

124 kg

Temperature Controller

Dimensions

455 mm x 216 mm x 533 mm (D x H x W)

Gross Weight

28.6 kg

Net Weight

25 kg

Performance data

Inkometer

Roller Testing Speeds - Fixed

400, 800, 1200 and 2000 RPM

(314, 628, 942 and 1570 feet per minute)

Roller Testing Speeds - Variable

0 to 3000 RPM

Roller Distribution speed

Nominal 150 RPM

Roller Set

Total surface area of 106 square in. (2692.4 mm)

Power Consumption

Operating at 800 RPM: 2.8 Amp

Operating at 1200 RPM: 3.4 Amp

Operating at 300 RPM: 4.0 Amp

Standby: 0.22 Amp

Power Requirements

Standard: 115 V \pm 10%, 60 Hz

Optional: 220 V \pm 10%, 50 Hz

Circuit Breaker Ratings

Main: 15 Amp Secondary: 0.5 Amp

Temperature Controller

Water Temperature Settings

90° F or variable

Heat Adjust Control

100 to 1000 watts

Reservoir Capacity

2.5 gallons

Power Consumption

5.5 Amp at steady state

"Partners in Quality"