

## Electronic Inkometer Model 106

The Model 106 Electronic Inkometer features advanced microprocessor control, it provides the highest accuracy and efficiency for research and development, quality control and process evaluation.

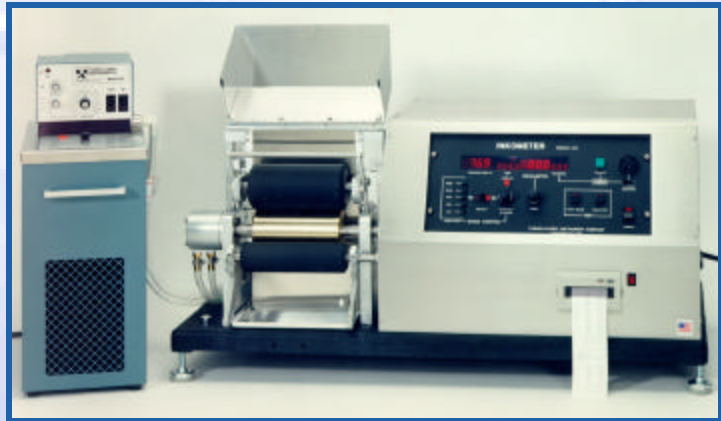
Simulating the dynamic conditions that occur in the printing process, the Inkometer provides reliable data on ink tack. It measures the integrated forces involved in ink film splitting and the effects of speed, film thickness, temperature and solvent evaporation on these forces.

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 Upper roller is available for testing conventional inks and UV inks.

The temperature is controlled by circulating water through it. The control unit is free-standing and utilizes a refrigerated bath circulator with stainless steel reservoir.



▲ **Electronic Inkometer Model 106 with temperature controller**

### **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

### **Standards:**

ASTM D4361



# 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.

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## Physical Specifications

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	<b>Inkometer Model 106</b>	<b>Temperature Controller</b>
<b>Dimensions</b>	18 in D x 36 in W x 18 in H (457 mm x 914 mm x 457 mm)	17.5 in D x 8.5 in W x 21 in H (455 mm x 216 mm x 533 mm)
<b>Gross Weight</b>	333 lb (151 kg)	63 lb (28.6 kg)
<b>Net Weight</b>	272 lb (124 kg)	55 lb (25 kg)

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## Performance Data

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### 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



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