

No.494 Inkometer

Model D-2

Ink tack tester for printing inks



■ INTRODUCTION

The **Inkometer** measure the ink tackiness. The tackiness indicates the adhesiveness of ink and is deeply related to the paper surface strength and trapping. The Inkometer measures the stretch resistance of the ink film between the top roll and the metallic roll and converts the measured value to the tackiness.

■ APPLICATION

■ Ink Tack Measurement

Ink tack has deep relation with paper peel off and trapping when printing. Especially trapping quality has very deep relation with mutual tack of ink, requiring suitable control of tack balance. Inkometer is an indispensable tester for quality control in ink production process. In case of offset ink, its tack value increases with time after manufacture. To achieve appropriate tack, adjustment is made by kneading or adding varnish or reducer compound. In this case, Inkometer is suitable for sampling a little amount of ink during the manufacturing process and bringing the tack closer to appropriate value while measuring by Inkometer.

■ Knowing Relation with rotating speed


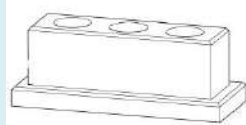


The Inkometer metal roll rotating speed is decided with relation to printing speed. Generally, the speed with regard to sheet print conditions is said to be 400rpm. In case of an ink of small ink tack for high speed printing ink of rotary printing, etc., it is desirable to conduct measurement at 800rpm or 1200rpm or more.


■ SPECIFICATIONS

Model	D-2
Metal roll drive motor	AC servo motor, 400W
Diameter of roll	Metal roll: Ø76.2mm Top roll: Ø79.3mm Vibration roll: Ø50.8mm
Metal roll testing speeds	400, 800, 1200rpm (min ⁻¹) (100 to 3000rpm by optional multi program)
Tack	0 to 40.0
Temperature control	Optional (Room temperature + 5°C to 40°C with optional low temperature circulator)
Detection method	LVDT
Operation panel	LCD touch-screen Languages: English, Japanese
Display items	<ul style="list-style-type: none"> ■ Tackiness (up to 5 histories are stored) ■ Test speed ■ Time interval ■ Sample names ■ Operator names etc.
Safeguard	<ul style="list-style-type: none"> ■ Emergency stop switch
Power requirement	Single-phase, AC100V, 50Hz or 60Hz, 1.5kVA
Dimensions	W700 x D320 x H430(630*)mm <i>*Including touch screen</i>
Weight	Approx. 83kg
Related standard	JIS K 5701

■ STANDARD ACCESSORIES & OPTIONS

● Standard ○ Option

	Name	Model (Part No.)	Photo	D-2
1	Ink pipette (Syringe)	----		●
2	Ink pipette holder	----		●
3	Acrylic safety cover	----		●
4	Hose for low temperature circulator (2m x 2 pcs.)	----		●
5	Hose band for low temperature circulator (4 pcs.)	----		●
6	Top roll / Vibration roll for "Oil based ink"	----		●
7	Top roll / Vibration roll for "UV ink" option	----		○
8	Low temperature bath	CC1		○
9	Multi program	MP-D2		○
10	Flow monitor	FM1		○
11	Emulsification device	D2-E		○
12	Data import software for spreadsheet	EX		○

13	Mini thermal printer	PRT		<input type="radio"/>
14	Step-down transformer for AC115 to 120V	----		<input type="radio"/>
15	Step-down transformer for AC220 to 230V	----		<input type="radio"/>

Specifications are subject to change without notice.



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