

IGT High Speed Inking Unit 4

Ultra-fast inking unit for paste inks



The IGT High Speed Inking Unit 4 has been developed for use with all IGT printability testers to ink printing discs fast and with the highest accuracy with a well defined ink layer thickness. Many modern inks dry fast, therefore the IGT High Speed Inking Unit 4 has short inking times. It has a built-in thermostatic bath, to achieve a constant temperature for the distribution of inks and picktest oils, to get a constant viscosity of pick test oil and a constant drying behaviour of inks. On the built-in computer all parameters or distribution modes with customer settings can be stored.

APPLICATIONS

- Use with all Printability Testers
- Replacing old AE-inkers for higher repeatability
- Optimal combination with IGT Amsterdam testers
- For conventional and UV-curing offset inks
- Inking with pick test oils
- Temperature controlled inking
- Short inking times, fast operations
- Up to four inks at the same time

The High Speed Inking Unit 4 is used in

- Printing ink manufacturing
- Paper and board, printers
- Metals, plastics and packaging
- Resins, lacquers and coatings
- Chemical industry
- Raw materials
- Education and research

IGT High Speed Inking Unit 4

Quick and easy to operate



PROPERTIES

The IGT High Speed Inking Unit 4 is a fast inking unit, for ink a maximum of 4 printing discs simultaneously. The design allows reduction of the inking time to 15 s. All settings and instructions are available on a large touch screen. The operating temperature of the IGT High Speed Inking Unit 4 is controlled by an internal thermostatic bath, which is used to either heat or cool the unit from 15 to 45°C. This is particularly

important at high distribution speeds, generating heat, affecting the tack and viscosity of the inks and consequently the test results.

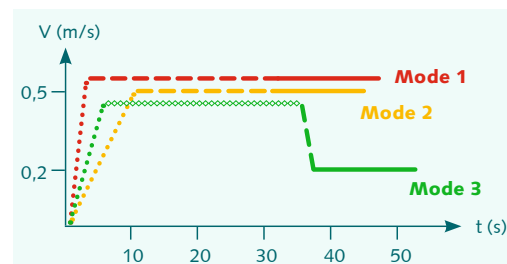
- Inking speed from 0,2 to 1,2 m/s
- Distribution times between 5 and 200 s
- Printing disc inking time from 5 to 200 s
- Accurate and repeatable inking times
- Printing discs lifted automatically
- Computer controlled processes
- Top rollers available with 1, 2 or 4 sections
- Inking time independent per printing disc
- Easy to operate
- Temperature controlled internally
- Supplied with an IGT ink pipette
- Suitable for use with all IGT testers
- Top- and front covers for safe operations
- Closed environment during operations
- Extraction (cleaning) solvents
- USB port for updates and data recording
- CE conformity with emergency stop, cover switches, torque reduction and exhaust

OPERATION

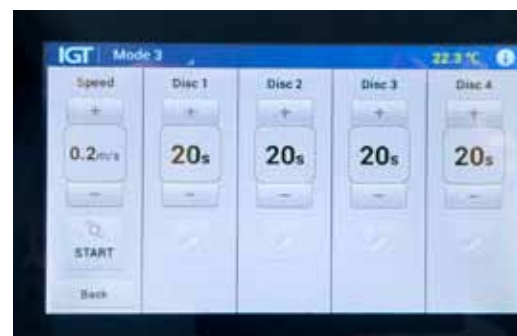
The IGT High Speed Inking Unit 4 use two conditioned steel distribution rollers and a rubber top roller, controlled by an internal temperature control unit. After the unit has distributed the ink evenly, the printing discs are brought in contact with the top roller and inked for the preset time. The printing discs automatically lift from the top roller as soon as the inking time elapses. The unit can perform preset inking sequences. User defined distribution modes, can be added.

- Set distribution time and speed. After the pre-set time elapses, inking of the printing disc starts. This mode is used for fastest inking.
- Set distribution time and speed and set the ramp-up time to reach speed. After the pre-set time elapses, inking of the printing disc starts. Used to prevent ink spitting of high viscosity inks.
- Set distribution time and speed, set the ramp-up time and a second speed and distribution time. Use this mode for fast distribution and subsequently low misting, e.g. with pick test oils.

Inking modes



..... Start-up
 Pre-distribution
 --- Distribution
 — Inking time



Display

IGT High Speed Inking Unit 4

Computer controlled process



IGT AIC2-5



IGT Global Standart Tester 2



IGT Amsterdam-6

Cover

The High Speed Inking Unit is provided with transparent TOP cover and a stainless steel front cover. These prevent contamination of the surrounding and environmental influences. The covers are protected by safety switches. When opening the cover, a fan is activated to extract fumes from the area under the cover. These fumes are exhausted at the back through an active filter or to an external exhaust system.



Temperature control

The temperature is controlled by a thermostatic bath, which can either heat or cool the unit. Both distribution rollers are kept at the set temperature and the top roller adopts the same temperature. Accurate temperature control is important for pick tests and when studying the properties of inks at different temperatures (e.g. inks for dry offset printing). The actual temperature of the rollers is shown on the display.

Cleaning

The instrument has a special cleaning mode. This ensures that cleaning is fast and safe, the top roller can be lifted to further facilitate the cleaning process.

IGT ink pipette

The IGT ink pipette is used to apply ink to the top roller. The ink pipette significantly increases the accuracy of the ink application and thus the results of the tests. Ink pipettes are available in resolution of 0,01 ml and 0,001 ml.



IGT Ink pipette

IGT High Speed Inking Unit 4

Precise inking times

Technical data

- Top roller: 1, 2 or 4 segments
- Inking surface area:
 - 4 x 328 cm² (4 segments)
 - 2 x 729 cm² (2 segments)
 - 1 x 1537 cm² (1 segment)
- Inking speed : 0,2 – 1,2 m/s
- Distribution time : 5 - 300 s
- Inking time : 5 - 300 s
- Temperature range : 15 – 45° C
- Maximum printing disc width: 50 mm
optionally 70 or 100 mm

Weight: 55 kg
Height : 400 mm
Width : 720 mm
Depth : 440 mm

Electrical connection:
115 - 230 V / 50 - 60 Hz

General

- CE compliant
- Modern design
- Computer controlled
- Easy operation
- Repeatable and reproducible
- On-screen instructions for use
- 7" touch screen operation

Agent

Luhne Messtechnik
Dipl.Ing.(FH) Stefan Luhne
Kölnerstrasse 167
D-41199 Mönchengladbach
Tel.: +49 (0)2166 / 68 18 88
Fax: +49 (0)2166 / 146 51 70
info@luhne-messtechnik.de
www.luhne-messtechnik.de

IGT Testing Systems

Research, development and production of testing equipment for the printing and allied industries

IGT Testing Systems
P.O. Box 22022
1302 CA Almere
The Netherlands
Phone : +31 20 409 9300
Fax : +31 20 409 9339
E-mail : info@igt.nl
Internet : www.igt.nl

IGT Testing Systems, Inc.
Arlington Center
543 West Golf Road
Arlington Heights IL 60005
USA
Phone : +1 847 952 2448
Fax : +1 847 952 2449
E-mail : usa@igt.nl

IGT Testing Systems Pte. Ltd.
Print Media Hub
61 Tai Seng Ave #05-14
Singapore 534167
Phone : +65 6481 8993
Fax : +65 6481 9685
E-mail : singapore@igt.nl
Internet : www.igt.com.sg

IGT Testing Systems KK
1229-1, Mawatashi, Sakura-shi
Chiba-ken 285-0804
Japan
Phone : +81 (0)43 308 7302
Fax : +81 (0)43 308 7304
E-mail : japan@igt.nl
Internet : www.igt.jp