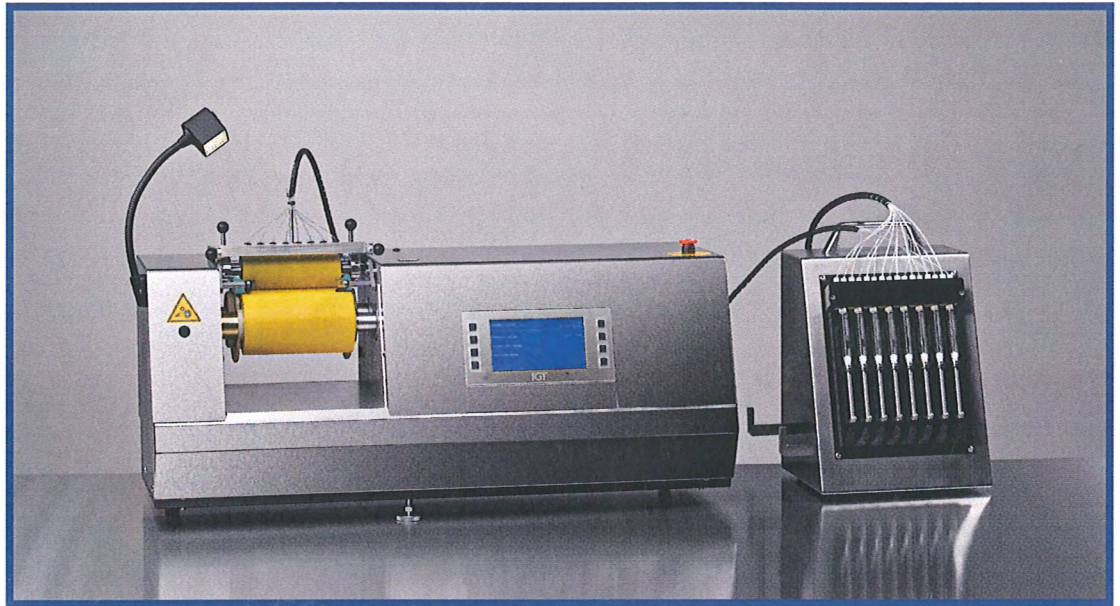


# IGT HydrOscope

For ink/fount emulsification measurements



The IGT HydrOscope uses tack measurement as a function of emulsification. The optional torque sensor provides additional information about the changes in rheology of the ink as function of emulsification. The system is not designed to measure absolute tack and therefore bears no resemblance to the TackOscope, except for the lay-out and precision of the tack sensors. The test method of the HydrOscope is based on emulsification of ink and fount on a roller system, similar to the conditions on a printing press. In terms of droplet size and distribution, the emulsified ink from the HydrOscope is fundamentally different than obtained from testers based upon a design with stirrers. The printing emulsion prepared with the HydrOscope method offers a much greater correlation with emulsified ink conditions as found on the press itself and therefore meaningful comparisons can be made. The concept of the HydrOscope enables the user to build a comprehensive database based upon the known performance of ink-fount combinations and as such offers the ability to detect and predict combinations which can cause ink/fount related problems during printing.

## Measurements

- Emulsification capacity = maximum fount-uptake
- Indication for over-emulsification
- Changes in rheology due to the fount
- Fount release
- Fount/ink compatibility
- Option: Ability of ink/fount to clean the plate
- Indication of bonded fount
- Fount saturation point
- Emulsification vs. Spitting
- Determination of the "fount window"

# IGT HydrOscope

## For ink/fount emulsification measurements

### Properties

- Automated measurement procedure
- Accurate standard speed control from 0-50 m/min
- Computer controlled fount application
- User-interface for instructions of programmable test parameters
- Fast set-up and low training requirements
- Durable construction
- Low maintenance
- Computer link
- Syringe volume 20ml (storage fountain solution)
- Software offers comparison of data against standard inks or fount
- Zoom functions for more detail
- Export to excel.

### Technical data

**Electrical connection:**

110-115 or 220-240 V / 50-60 Hz

**Power consumption:**

350 Watts max.

**Weight:**

Net weight – 70kg

Shipping weight: 118kg

**Dimensions (HxWxD):**

325 x 770 x 315 mm

**Vertrieb in Deutschland durch:****Luhne Messtechnik**

Inhaber: Herr Dipl.-Ing.(FH) Stefan Luhne

Kölnerstrasse 167

D-41199 Mönchengladbach

Telefon: +49 (0)2166 / 68 18 88

Telefon: +49 (0)2166 / 68 18 20

Telefax: +49 (0)2166 / 146 51 70

Email: [info@luhne-messtechnik.de](mailto:info@luhne-messtechnik.de)

Internet: [www.luhne-messtechnik.de](http://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 12688

1100 AR Amsterdam Z.O. The Netherlands

Phone : +31 20 409 9300

Fax : +31 20 697 4842

E-mail : [info@igt.nl](mailto:info@igt.nl)

Internet : [www.igt.nl](http://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](mailto:usa@igt.nl)

IGT Testing Systems Pte. Ltd.

Blk 1 Ang Mo Kio Industrial Park 2A

#06-12 AMK Tech 1

Singapore 568049

Phone : +65 6481 8993

Fax : +65 6481 9685

E-mail : [singapore@igt.nl](mailto:singapore@igt.nl)