



F1 Flexo and Gravure Proofer

The F1 printability tester produces colour strips for solvent-based, UV-curing and water-based flexo or gravure inks.

Specially designed for computerised colour measuring and colour matching systems, the F1 tester removes the need for colour matching tests on press. It is simple to operate, reliable and sturdily built for intensive use over a long period.

Applications

The F1 tester colour strips can be used for a wide variety of purposes including testing print quality; use with spectrophotometers, colour measuring and matching systems; visual appraisal; density measurements including colour and density tolerances and determination of coverage; wear and scratch resistance; flexibility; adhesion; gloss; ink transfer; light fastness and resistance to chemicals. The F1 tester is able to print on a variety of coated and uncoated materials including paper, board, plastic film, cellophane, laminate, labels and textiles. It is used regularly in the printing ink, paper and board, printing, plastics, packaging, corrugated board and labelling, resin, lacquer and coatings industries.

Features

- For use with a variety of substrates and inks
- Substrate, ink, engraved roller and printing disc are simple and quick to change
- Print occurs after two anilox revolutions
- Printing disc can be inked up to 20 times before making the print
- Electronic printing force and speed control
- Excellent reproducibility
- Quick and easy to clean
- For flexo printing directly onto fabricated corrugated board, a special smaller diameter printing form cylinder can be supplied, offering a wider printing nip and allowing board up to 4 mm thick to be printed

Operation

The F1 tester has an inking section with an engraved anilox roller and doctor blade, a printing section with a photopolymer printing form and an impression cylinder.

Ink is applied to the nip between the doctor blade and the anilox roller. During print, the ink is transferred from the anilox disc to the printing form and then to the substrate. Doctor blade, anilox disc and impression cylinder are lifted automatically.



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Print speed, anilox and printing pressures are selectable. Two successive prints are made and the second is used, being the most consistent and produced from a pre-wetted disc.

In gravure mode, the print is made directly onto the substrate and mounted onto the printing disc cylinder.

Technical data

Flexo or gravure modes

Electronic control of printing force and speed setting

Printing speed 0.2–1.5 m/s

Printing force 10–500 N

Maximum substrate thickness 4 mm

Printing width on substrate 40 mm

Printing length on substrate 200 mm (2nd print)

Engraved disc inked twice

Photopolymer cylinder can be inked up to 20 revolutions

Engraved discs

A wide selection of anilox discs is available for producing a range of ink film thickness

Special engraved discs can be made to specification

Flexo: copper, chromium plated or ceramic, laser engraved including banded versions

Gravure: copper, chromium plated with different standard layouts including Heliotest or to user specifications

Screen ruling 40–140 l/cm (100–360 l/in)

Volume 4–26 ml/m²

Doctor blade

Angle 60°, trailing

Pressure 6–7 N

Printing form and printing cylinder

The F1 tester has a variety of printing forms, both solid, and screened in rubber and photopolymer. User printing forms can also be attached to the printing disc cylinder with foam tape.

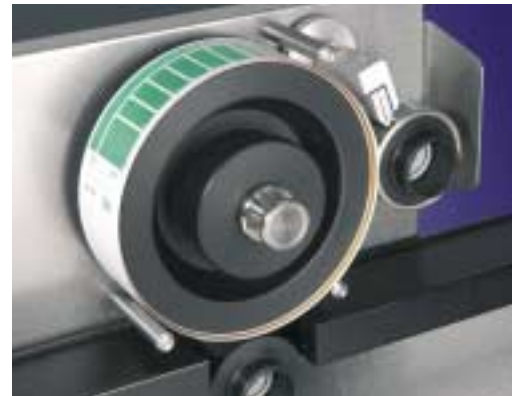
Physical specifications

Weight 35 kg

Dimensions 600 × 350 × 350 mm (W × D × H)

Power requirements

115/230 V, 50/60 Hz



Gravure printing



Printing on corrugated board



Applying ink



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