



C1 Offset and Letterpress Proofer

The C1 range of printability testers is an efficient and reliable way of making colour strips with offset inks to a known ink layer thickness.

Results are consistent and reproducible and offer a potential cost saving because of the high degree of correlation with on-press results.

Designed for intensive use over long periods, they are sturdily built, simple to operate and can print on a wide variety of coated and uncoated materials including paper, board, plastic film, cellophane, laminate and metal.



Applications

The C1 range can be used:

- for testing printing quality, gloss, mottle and set-off; visual appraisal; colour matching and measuring colour with colour measuring systems and spectrophotometers
- for taking density measurements including colour and density tolerances, degree of coverage, wear resistance, scratch resistance, flexibility, adhesion and gloss, ink transfer (in g/m²), light fastness and resistance to chemicals
- in the printing ink, paper and board, print, metal, plastics and packaging, resin, lacquer, coatings, cosmetics and electronics industries

Features

- Simple operation – inking and printing in one instrument
- Repeatable, reliable and reproducible results
- Low cost
- Lightweight
- Easy to clean

Operation

C1 printability testers consist of an inking section and a printing unit.

The two driven aluminium drums and a removable rubber top roller evenly distribute the ink within 30 seconds and the printing disc has an inking time of 15 seconds.

The substrate is attached to a substrate carrier, which also acts as a printing disc mount during inking. The printing force can be set in 19 steps between 100 and 1000 N and the print is made automatically.



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Technical data

Inking section

Total inked area 720 cm²

Short cleaning time

Aluminium drums, independently driven

Special nickel-plated drums are available for UV applications which prevent dust collection from static

Printing section

Two types of rubber top rollers are available for conventionally dried and UV-cured inks

Printing speed 0.3 m/s

Printing force 100–1000 N

Independent drive

Printing disc is automatically brought to pressure, printed and lifted; it can also be raised 4 mm to accommodate thicker substrates

Print directly onto beverage cans is possible via special impression cylinders of various diameters

Printing discs

Printing width:

- C1 35 mm
- C1-5 35 or 50 mm
- C1-7 35, 50 or 70 mm
- Cx3 3 × 15, 1 × 20 or 1 × 35 mm
- Cx4 4 × 15 mm

Printing length 200 mm

Weight < 160 g for most of the available discs:

- Rubber, 65 Shore A, coated, for conventional inks
- Rubber blanket, for conventional inks
- Rubber, 65 Shore A, for UV-curing inks
- Rubber blanket for UV-curing inks
- Aluminium

Physical specifications

Weight 35 kg

Dimensions 650 × 400 × 300 mm (W × D × H)

Power requirements

115/230 V, 50/60 Hz

Option

The IGT ink pipette is recommended for applying ink to the top roller as this significantly increases the accuracy of the ink application.



Making a print on a metal can



Applying ink with the IGT ink pipette



Inking the printing disc



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