

IGT ORANGE PROOFER



Printability Tester for Offset Inks

The Orange Proofer was developed to meet the large demand for a low-cost, easy-to-operate printability tester for offset inks that would provide highly reproducible results.

Applications

The Orange Proofer is used by printers to check the quality of the ink on the substrate before using it on the press, to match customer-specified colors and to check incoming inks to their standard. It is used by pigment and ink manufacturers throughout the world for various quality control applications, such as checking color, ink penetration, ink drying time, ink density and ink set-off.

It can be used in these industries:

- Printing ink, paper and board, graphic arts

- Metal, plastics and packaging
- Resins, lacquers and coatings
- Raw materials

The Orange Proofer makes color strips of offset inks (with a known ink film thickness) to be used for a variety of purposes, such as:

- Measuring color with color measuring systems and spectrophotometers
- Color matching systems
- Visual appraisal
- Density measurements, including establishing color and density tolerances
- Determination of coverage, wear resistance, scratch resistance, ink transfer (in g/m²), flexibility, adhesion and gloss, light fastness and resistance to chemicals
- Printing on all types of coated and uncoated materials including: paper, board, plastic film, cellophane, laminate and metals

- Testing printing quality, mottle and set-off

Features

- Designed especially for computerized color measuring and matching systems
- Saves on costs as color testing on the printing press is no longer necessary
- Simple to operate and easily movable
- Extensive processing possibilities for various substrates and offset inks; the substrate, ink and printing disc are all simple- and quick-to-change
- Excellent reproducibility; high degree of simulation to on-press performance
- Printing force adjustable
- Low initial cost and operating cost
- Complies with the latest CE standards
- Provided with detailed instructions for its use

Operation

The IGT Orange Proofer consists of an inking unit and a printing unit with a removable printing disc.

The inking unit consists of two aluminum drums and a top roller.



Applying ink with the IGT ink pipette

For different types of ink, there are different coverings for the top rollers: for conventional inks a standard elastomer is used, whereas for UV-curing inks, a top roller is available which is resistant to UV inks and their solvents.

To apply the ink as accurately as possible, the use of an IGT ink pipette is strongly recommended. The printing disc is placed on a movable arm and then inked on the inking unit.



Inking the printing disc

The printing unit consists of its printing disc and an impression cylinder. The substrate is attached to a substrate carrier which is then placed underneath the shaft of the printing disc. After the printing force has

been applied, the print is made. Then the substrate is removed for appraisal and the printing disc is cleaned. The printing speed is fixed at .3 m/s; the printing force can be selected between 100 and 800N.

Printing Discs

The standard printing disc is covered with a rubber blanket, however a disc covered with coated rubber for conventional inks is also available, as are discs covered with rubber or with a rubber blanket for UV-curing inks. Printing discs with a weight of less than 200g are available, so that they can be weighed on analytical balances.



Ink pipette

Ink Pipette

Using an IGT ink pipette is strongly recommended because it increases the accuracy of the application of ink and subsequently the ink transfer, thereby enhancing the accuracy and repeatability of the tests.

Specifications

Inking Unit

- Short inking time: 30 seconds for inking unit and 15 seconds for printing disc
- Easy to clean

Top Rollers

- Elastomer for conventional inks
- Rubber for UV-curing inks

Printing Unit

- Printing speed .3 m/s
- Printing force 100-800N
- Maximum substrate thickness 4mm
- Independent drive

Printing Discs

- Printing width 50mm
- Print length 200mm
- For conventional inks disc with coated rubber or a rubber blanket
- For UV inks disc covered with rubber or a rubber blanket

Physical Characteristics

Height 12.6"/32cm
Depth 13.8"/35cm
Length 24.4"/62cm
Weight 55 Lbs./25 Kg.

Power Supply

115-230V/50-60Hz



The Orange Proofer can print on all types of coated and uncoated materials, including paper, board, plastic film, laminate, metals and cellophane.