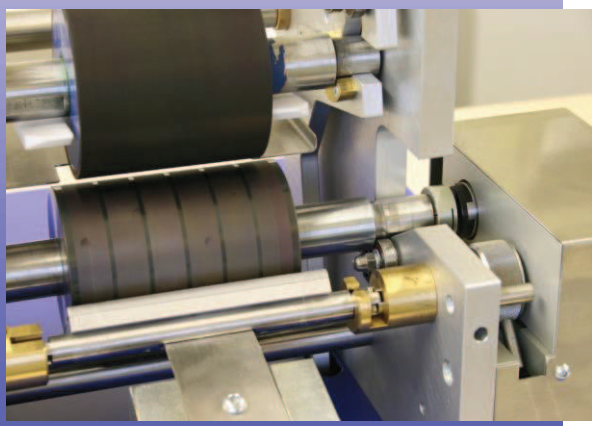
The first name in sample preperation equipment

PRINTCOAT INSTRUMENTS

PASTE INK PROOFER *(PIP)*

Above: Paste Ink Proofer *(PIP)*

Below: Detail of the Paste Ink Proofer Roller Head



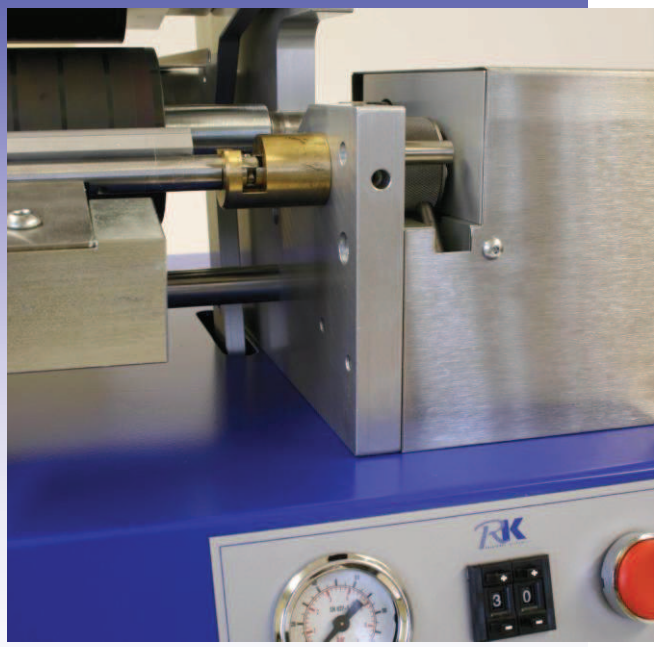
The RK instrument for quick, repeatable and highly accurate proofing and colour-matching of all types of litho, web-offset, letterpress inks and varnishes. The Paste Ink Proofer is unique in featuring automated operation, eliminating the need to weigh or measure ink samples.

MAIN FEATURES

- Accurate proofs produced in a single operation
- No messy weighing or measuring of inks, unlike other proofers
- Two inks may be proofed simultaneously for comparison
- Complete inking/proofing/cleaning cycle only 2-3 minutes
- Multiple proofs easily obtained using any substrate
- Reduces press down-time

The first name in sample preparation equipment

PASTE INK PROOFER (*PIP*)



INK FILM

The ink film on the blanket roller is accurately metered by a screen engraved on the inking roller. The inking roller has a polished ceramic surface that is covered in uniform cells that have been engraved using a laser. The number and depth of these cells are accurately controlled and contain a constant volume of ink. The following table gives the approximate ink film weight applied when using a typical offset ink.

All inking rollers are supplied with a proof and a record of the actual film applied using a typical offset ink. Inking rollers to give other ink films may be made to order. The ceramic surface is virtually indestructible in normal use and is therefore ideal for use as a "standard" for quality control purposes.

Roller Ref	Density	Film Weight
PIP.10	Light	≈ 1.8
PIP.11	Medium	≈ 1.9
PIP.12	Dark	≈ 2.0
PIP.13 (standard)	3 Bands Light/Medium/Dark	

PASTE INK PROOFER SPECIFICATION

Substrate size	124mm wide x 300mm long
Print size	75mm x 245mm *(Max)*
Speed range	5-40m/min
Printing pressure	0-150 Newtons/cm
Blanket roller	70° shore hardness, suitable for all types of paste inks
Services required	110/120 or 230/250 volts
Footprint	400mm x 400mm
Weight	40kg

PRINCIPLE USES

The ***PIP*** has many applications. It is an essential tool for both ink makers and printers, providing the simplest method of producing high quality proofs. These proofs may be used for computer colour matching data, customer samples, or to test for colour, gloss, opacity, penetration, drying, set off, rub and abrasion resistance. Pigment and other raw material suppliers will find the ***PIP*** invaluable for assessing their products.

AUTOMATIC OPERATION

Most conventional systems have a *separate* inking unit consisting of a number of rollers with a known area. These methods require the use of a skilled operator and involve more time, more cleaning and more apparatus.

The operation of the ***PIP*** could not be easier. The operator simply applies a spatula of ink across the laser engraved ceramic roller and the start button pressed to begin the automatic inking and printing process. Ink is distributed between the ceramic and blanket rollers at a controlled speed. The doctor blade removes excess ink from the engraved roller, leaving a known film thickness on the blanket roller. Printing speed and pressure are automatically adjusted and a proof can be made using paper, board, tinplate, or most other flexible or rigid substrates. Multiple proofs are easily obtained by applying more ink. A triple banded engraved roller (PIP.13) is supplied for printing all three standard ink densities simultaneously. For users wishing to print two inks simultaneously for comparison purposes, a split blanket roller is available (PIP.10/11/12).

Anilox offset inking has been well-proven over a number of years on many production machines.

RK PRINTCOAT INSTRUMENTS

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