

PIP PASTE INK PROOFER

For quick, repeatable and highly accurate proofing and color matching of all types of litho, web offset and letter-press inks and varnishes



The Paste Ink Proofer is unique in featuring automated operation, eliminating the need to weigh or measure ink samples.

Features

- Accurate proofs produced in a single operation
- No messy measuring nor weighing of inks, unlike other proofers
- Two inks may be proofed simultaneously for comparison
- Complete inking/proofing/cleaning cycle only takes 2-3 minutes
- Multiple proofs are easily obtained using any substrate
- Reduction of press downtime

When color counts, count on Grafitec.

Principal Uses

The PiP has many applications. It is an essential tool for both ink manufacturers and printers, providing the simplest method of producing high quality proofs. These proofs may be used for computer color matching data, for customer samples or for testing color, gloss, opacity, drying, penetration, set off, and rub and abrasion resistance. Pigment and other raw material suppliers will find this unit 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. The ink must then be either weighed very accurately (typically .3gm) or measured by volume. This necessitates carefully filling a pipette with ink and measuring about .3gm onto the rollers. These methods require a skilled operator and involve more time, more cleaning and more apparatus.

The operation of the Paste Ink Proofer could not be easier. The operator simply takes a spatula of ink, applies it across the laser-engraved ceramic roller and presses a button to start the automatic inking and printing process. The ink is distributed between the ceramic and

blanket rollers at a controlled speed. After a pre-set time, the doctor blade removes all the excess ink from the engraved roller, leaving behind a known film thickness on the blanket roller. Printing speed and pressure are automatically adjusted, and a proof is then made using paper, board, tinplate or nearly any other flexible or rigid substrate.

Multiple proofs are easily obtained by the addition of more ink. For users who want to print two inks simultaneously for comparison purposes, a split blanket roller is available or, when it is necessary to print all three standard ink densities simultaneously, a triple-bank engraved roller (reference PIP.13) can be used.

During the entire inking and proofing cycle, only three parts (the two rollers and the doctor blade) come into contact with the ink, and these simply lift out for cleaning. Thus, the entire inking/proofing/cleaning cycle

takes only 2-3 minutes. Anilox offset inking has been well proven over recent years on more than 300 production machines.

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 laser-engraved. The number and depth of these cells are accurately controlled and contain a constant volume of ink. The following table gives the ink density applied when using a typical offset ink:

Roller Reference	Ink Density
PIP.10	Light
PIP.11	Medium
PIP.12	Dark
PIP.13	3 bands (light/medium/dark)

Specifications	
Substrate Size	124mm wide x 300mm long
Print Size	75x245mm
Speed Range	5-40m/min
Printing Pressure	0-150 Newton/cm
Blanket Roller	70° Shore hardness, suitable for all types of paste inks
Operation	110/120V or 230/250V
Machine Dimensions	40x40cm
Weight	40 kg.

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