



HARPER®
Harper Scientific Printing &
Coating Supplies Division



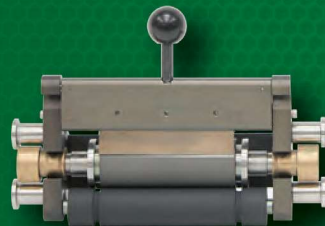
QD™ Ink Proofing & Printing Family

Multi-Process Flatbed Printing System

Available in standard 2.75" and Plus 5" print widths. It can simulate full coverage imaged Flexo, Direct Gravure, and Offset Gravure printing processes. The QD system consists of a manual or motorized proofer table configured to work with a number of different printing process heads.

QD™ Flexo

QD Flexo Proofer utilizes a smooth transfer rubber roll for flood coating or a laser-imaged rubber roll. The rubber roll is imaged at 100 lpi and with a minimum line width of 85 microns. The QD Anilox rolls are available from 0.5 to 33 bcm at 1600 to 70 cpi.



QD™ Flexo Plus

The QD Plus proofer and flatbed printer provides the widest drawdown available at 5". The Plus version is available with all of the combinations of process printing heads and tables. The QD Plus produces a consistent 4-3/4" x 20" proof. The Plus is perfect for the coating industry where a 4" x 4" print sample is the standard for checking coating deposits. The Plus can be provided with 0.5 to 33 BCM anilox rolls or XDI cylinders.



QD™ Offset Gravure

The Offset Gravure Handle uses a transfer rubber roll at the same diameter as the XDI gravure image so the print stays in registration.



QD™ Direct Gravure

Direct Gravure does not have a transfer roll, giving it higher deposition efficiency, but is limited to flexible substrates. For direct gravure, a rubber mat on the table supports the paper, film, or foil to be printed.



ALSO AVAILABLE

● XDI™ Image Proofer Anilox

The only laser-engraved imaged gravure proofer cylinders available with almost any digital design and down to 3 pt. text.



● Imaged Transfer Rolls

Custom engraved with your logo or features such as tone scales, shaped patches, circuit patterns, and almost any image. Helps measure ink graphic and functional qualities. Quick and easy way to correct for varying dot gains of different substrates.



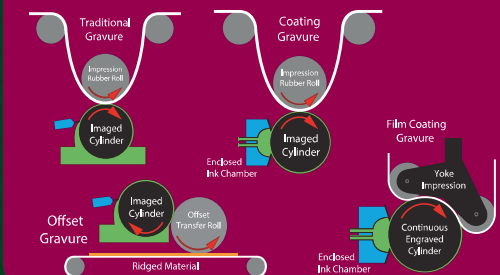
FLEXO PRINTING PROCESS

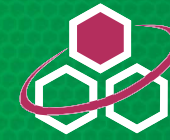
The Flexo printing process consists of an anilox roll (its volume controls the ink film thickness), a doctor blade (meters the anilox), and a relief image plate (transfers ink to the substrate).



GRAVURE PRINTING PROCESS

The QD simulates gravure coating and printing processes using a laser-engraved cylinder in the gravure head.



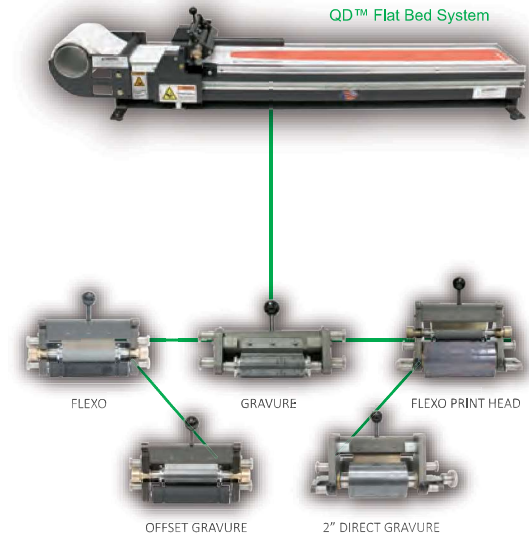


QD™ Ink Proofing & Flat Bed Printing System

The versatility of the QD™ components allow the proofers to be used by hand or in conjunction with the optional tables: Long or Short, Manual, Electric, or pneumatic-powered constant impression tables.

- Fully Portable.
- Glass Table Top.
- Low Maintenance.
- Solid Handle Without Springs.
- 2.75" & 5" Roller Widths Available.
- Front Loaded Anilox on Flexo & Offset Gravure.
- Substrates & Objects up to 1/8" thick with Flexo or Offset Gravure.
- Anilox Nip Loaded with Impression.
- Magnetically Loaded Doctor Blade.
- Constant Nip Pressure Through Stroke.
- Variable Speed Electric Model.
- Universal Electrical Power Supply.

Compatible with all QD™ Print Heads: Flexo, Direct, Gravure, Offset Gravure, and Flexo w/ Plate.



QD™ Printer Ink Proofing System

The QD™ Printer is the ideal Multi-Process printer for Flexible or Rigid Substrates, Testing color, images, coating coverage & functional inks

- Available models for the Standard 2.75" (70mm) or the Plus 5" (127mm) printer widths.
- Designed for lab safety in any ink environment.
- Modular construction with heavy duty components.
- Programmable travel speed with digital display and proof length display.
- Travel speed units can be set in inches, centimeters, feet, or meters per minute.
- Maximum speed of 1800 in/min (150 fpm) or 4570 cm/minute (45.7 mpm).
- Universal electrical power supply 85-265v, 65W & 50/60Hz.
- Table footprint 42" (107cm) x 14" (35.5cm); overall length including paper 48" (122cm).
- 12 to 33" (30.5 to 84 cm) stroke. 5 to 150 FPM or 150 to 4570 cm/minute.
- Cycle mode 1 to 10 round trips for dryer option.
- Drying options: hot air, adphos NIR or LED UV Phoseon (nm).

Compatible with all QD™ Print Heads: Flexo, Direct, Gravure, Offset Gravure, and Flexo w/ Plate.

