

S · I · M · P · L · Y

Delicious Color & Graphics

IR Drying | UV Curing | Plate Wash Elimination



JB MACHINERY

Optimized Productivity

Beauty and Graphics

Competitive Difference

Flexo - Aqueous 'Soft Touch'



S W E E T



IFDm



IFD



IFDe



FFD

IN-LINE DRYING OF INK AND AQUEOUS OR UV VARNISH BRING TREMENDOUS VALUE TO CORRUGATED GRAPHICS. SAFE AND ECONOMICAL, TODAY'S TECHNOLOGIES OPEN A NEW WORLD OF CREATIVITY FOR YOU AND YOUR CUSTOMERS. GRAPHICS SO RICH YOUR EYES CAN FEEL THEM... YOUR CUSTOMERS WILL INSIST ON THEM... AND CONSUMERS WILL BE CAPTIVATED BY THEM.

Infrared Drying Systems

Interstation and Final Flexo Dryers dramatically increase productivity, allow you to provide higher quality graphics options and expand the capability of your flexo operation.

Installed between printing stations, Interstation or Final Flexo Dryers optimize drying of each or selected colors, for color-on-color trapping, minimizing if not eliminating ghosting, providing dramatic increases in productivity and product value.

Final Flexo Dryers ensure optimized drying of ink and or varnish prior to inline finishing operations, such as die-cutting, minimizing if not eliminating the potential for tracking, marking, smearing and offsetting from sheet to anvil cover, even with inline varnishing and full coverage printing.

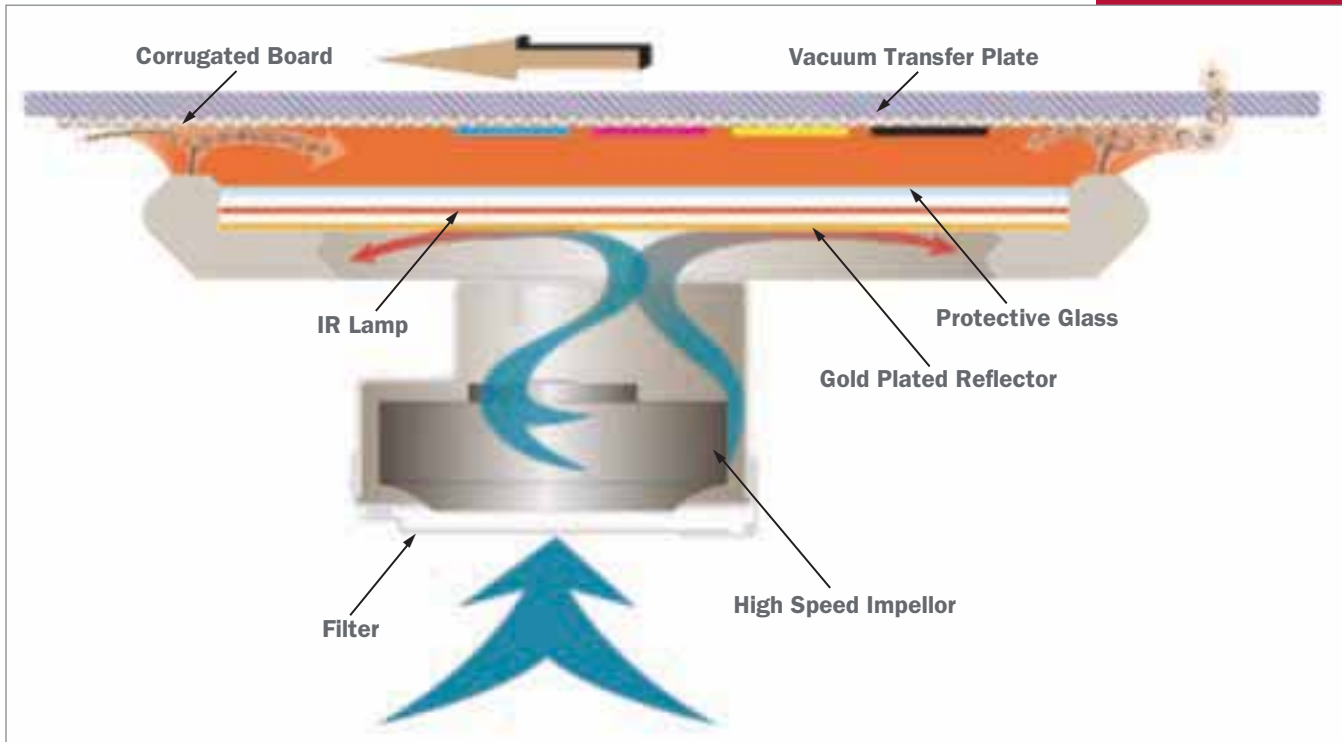
In every instance the use of Interstation and Final Flexo Dryers eliminates the need for multiple passes, allowing high graphics printing, varnishing and finishing in a single pass on semi or fully-coated high hold-out board without compromising run speeds.

Efficient and Low Maintenance

Special protective glass plates and stainless steel board guides protect the lamps from damage through warped board or loose fragments. Each cassette is designed with air nozzles powered by internal fans. Air is forced into the cassette creating a positive pressure environment, which serves to minimize the paper dust and other contaminants that can enter and collect inside the cassette chamber. The heated air exits the chamber through integrated air jet nozzles positioned to create turbulence and agitate the laminar layer of air at the board surface, while the vacuum transfer exhausts the moisture-laden air that was trapped at the board surface. Maintenance couldn't be simpler. Turn the latch, lift and the cassette slides out. It's just that easy.



Flexo Drying Systems



Cassette technology gives user full control over lamp power and drying zone selection for maximum efficiency and drying versatility.

Completely interchangeable IR cassettes are easily removed for service or replacement.



Benefits of Infrared (IR) Drying

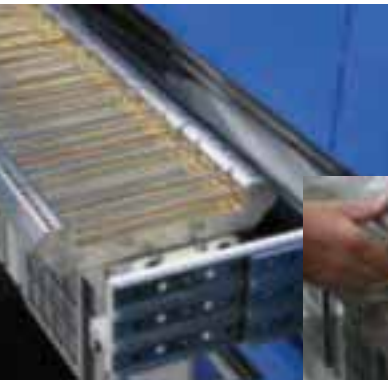
- Significant increases in productivity – Increases of 300% have been recorded
- Multi-color printing, varnishing and die-cutting in a single pass
- Trapping of color-on-color in line
- Minimized if not elimination of ghosting
- Superb finish quality adds luster and protection



F · R · E · S · H &
F · L · O · W · I · N · G

ColorCure™

Interchangeable or fixed IR drying/UV curing systems



Cassette images printed with UV 'Litho Foil'
Page titles and JB logo printed with UV 'Flexo Foil'



*Switch from IR to UV,
or vice-versa, in just
a few minutes*



Maximize your Creativity and Productivity

ColorCure gives printers the advantage of having IR drying and/or UV curing on the same color station to provide nearly endless creative production possibilities.

With JB systems, in only a few minutes operators can change from IR to UV on any print station where ColorCure is activated by the flick of a switch or installed with just a twist of a latch and the exchange of cassettes. Since the UV cassettes use the same platform as the IR system, ColorCure can be added to all existing JB dryer installations. The low profile design makes the system easily adaptable to virtually all vacuum transfer modular or fixed architecture machines.

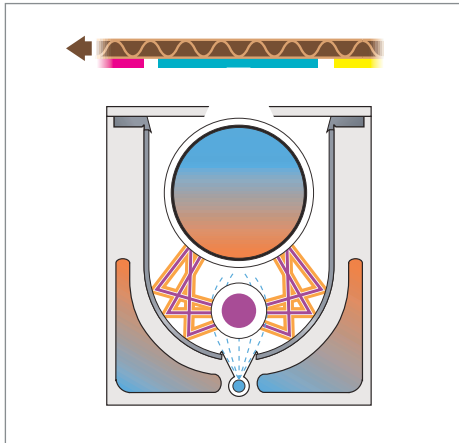
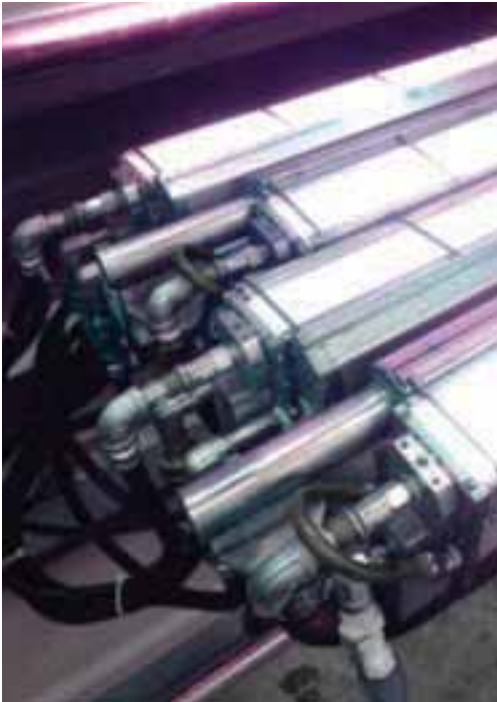
Using a high efficiency low power UV lamp design, cure rates are compounded from color to color to guarantee UV ink trapping at speed on all substrates including fully clay coated, plastic and foils. Now it's possible to apply UV metallics, pearlescents and other specialty effects that before were difficult, or impossible, to print inline along with process colors to optimize the benefits of the UV process.

**PRINT PROCESS COLORS
AND APPLY VARIOUS
SPECIAL EFFECTS TO YOUR
CUSTOMERS BOXES AND
DISPLAYS, INCLUDING SPOT
OR FLOOD, GLOSS OR
MATTE FINISHES, METALLICS
AND MORE.**



S · L · I · C · K &
S · E · N · S · U · A · L

UV Curing Systems



Another JB Advantage: Water Cooled and Filtered UV Technology

Unlike conventional systems that use air to control the UV lamp assembly temperature, JB Machinery uses environmentally-friendly filtered water technology. The UV head assembly and lamp zones are cooled by chilled deionized water circulated through the filter tube located between the lamp and drying surface. This eliminates the need for shutters, minimizes fire risk, carries away unnecessary IR heat and reduces ozone production to levels below that required by government regulations.

The JB water filtered system also eliminates the need for the space consuming internal and external air duct systems required by conventional UV systems. Air-cooled UV is also an available option for specialized applications.

The Look and Feel of UV Coatings: A Delicacy for the Eye

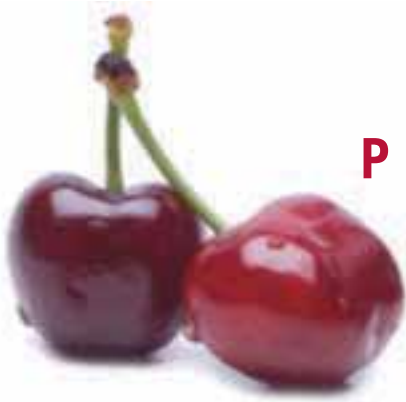
UV provides converters an economic and environmentally safe means to deliver maximum graphic, protective and functional varnish capabilities, from matte, to high gloss, to wet look finishes, to their customers. For most applications UV provides a look which competes with film lamination, and often exceeds pre-print.

UV allows converters to differentiate themselves from their competition, add extra value to the finished product and dramatically increase productivity, "shelf velocity", message amplification and branding. Providing attention grabbing graphic treatments that drive consumers to your customers' products during those precious decision making seconds!

Benefits of Water Cooled and Filtered UV

- Optimized productivity
- Superb finish quality for value added graphic appeal
- Ultra gloss 'wet look' to no gloss matte finishes
- Maximized box strength, scuff, rub & water resistance
- No wash-up of anilox necessary during running or between jobs
- Elimination of paper jams and paper wraps
- Printing and curing on heat sensitive materials
- Significant waste reduction





P · E · R · F · E · C · T · I · O · N

KleenPlate™ (patented)

The Plate Wash Eliminator

Why wash plates when KleenPlate eliminates the need altogether?

KleenPlate, the Plate Wash Eliminator is specifically engineered to maximize the productivity and quality of flexographic direct print on corrugated paperboard.



Productivity - By continuously wiping the image areas of the plates (clichés/stereos) clean, KleenPlate allows flexo printing operations to run without the typical need to constantly interrupt production to wash plates.

Quality - KleenPlate continuously removes a fine layer of ink, paper dust and debris from the plate image areas. This minimizes, if not eliminates - Hickies, caused by paper dust and debris - Color variation, dot gain and image growth, caused by ink plugging, drying and bridging.

The results are dramatic increases in productivity and quality, especially when printing jobs with high value graphics or large solid print areas.

Wipe Modes:

- Continuous Wipe
- Quick Set Wipe Zones
- Spot Clean
- Pressure Spot Clean

Control Systems

A Visual and Intuitive Interface

BUILT AROUND DURABLE COLOR TOUCH SCREENS, JB MACHINERY'S INTUITIVE GRAPHICS BASED INTERFACE, GIVES THE OPERATOR ENTIRE GLOBAL AND PRECISE CONTROL OVER EACH INDIVIDUAL DRYING, CURING AND KLEENPLATE SYSTEM.



KleenPlate controls



IR and UV controls



Benefits of KleenPlate

- Optimized productivity
- Continuous printing without stoppages for plate washing
- Immediately return to print after production breaks with no plate washing
- Near perfect solids on all substrates
- Minimized ink piling/plugging, bridging and drying on printing plates
- Minimized color variation
- Significant decrease in sheet wraps
- Substantial reduction in plate damage
- Significant waste reduction
- Improved operator confidence and higher yields per shift
- Rapid Return on Investment



JB MACHINERY

Solutions for all Corrugated Flexo Presses:

- Modular or Fixed Architecture Flexo Presses
- Bottom or Top Printing Flexo Presses



Direct Print that's

C · H · E · R · R · Y

About JB Machinery

JB Machinery provides superior products and services to converters and original equipment manufacturers. With over 50 combined years of industry experience in more than 50 countries, JB's unique and efficient IR drying, UV curing and KleenPlate, our Plate Wash Eliminator, have generated an extensive list of satisfied customers from around the world.

Whether it is a new machine installation, or an upgrade to an existing press, JB Machinery works closely with its customers, vendor partners and their machinery manufacturers to ensure that installations are flawless and performance meets or exceeds expectations.

From the first customer contact, through the entire life cycle of the product, customers can count on JB Machinery for superior products, service, support and continued process consultation.



ON THE FRONT COVER:

The cover art demonstrates the world of creative potential that can be achieved through the use of aqueous and ultraviolet (UV) varnishes. The cover has been printed overall with a flexo aqueous 'Soft Touch' varnish. The image on the left has been FLEXY UV varnished overall. The center image has been FLEXY AQUEOUS varnished overall. The image on the right as well as the E&F and JB logo have been FLEXY UV 'WET LOOK' varnished.



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Flexo UV 'Wet Look'