



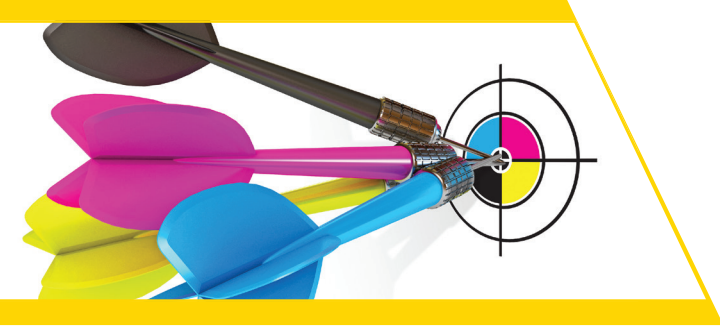
Printing Solutions from SUN Automation Group®

FEEDING

PRINTING

CONVERTING

SUPPORT



Choose Printing Solutions from SUN Automation

Our printing solutions are available as direct upgrades on existing machines and as OEM products for machine manufacturers. We are always eager to help your operations team with their printing challenges.

Achieving Success

From high-graphics to high-speed, several elements contribute to successful printing on corrugated:

- ▶ Accurate sheet transfer through all print sections of the machine
- ▶ Quality printing plates and the ability to precisely position the plates on the equipment to achieve the desired image
- ▶ Precise ink-metering of the anilox rolls
- ▶ Proper anilox configuration for the specific work group
- ▶ Ink chemistry management
- ▶ Proper substrates for each application
- ▶ Elimination of converting equipment interference during the printing process

AccuPrint®

The Reinvented Chambered Doctor Blade

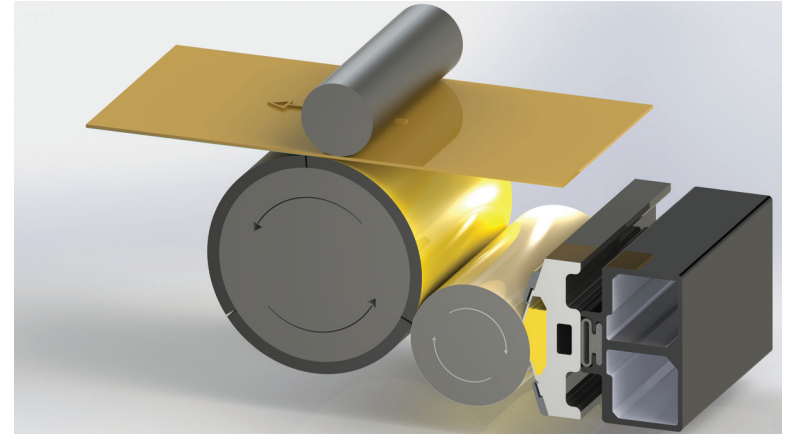
This newly developed flexo ink-metering system protects ink from the harsh factory environment to improve ink quality and performance. For superior graphics using quality inks and substrates, AccuPrint is the ink system of choice.

Features and Benefits

- ▶ Tool-less Blade Holder: Replace blades quickly while preventing damage from tools near sensitive equipment
- ▶ Advanced Wash-up: Innovative design prevents clogging and allows for quick ink recovery
- ▶ Cartridge End Seal: Replace end seals easily and quickly
- ▶ Anilox Roll Drive (optional): Precise speed control
- ▶ Totally Enclosed Chamber System: Keeps dust and particles out

Available on your machine

For field upgrades or as an optional upgrade on new machines, AccuPrint is available in widths from 60" (150cm) to 220" (560 cm).



ROI Considerations

ROI	Roll/Roll	AccuPrint (113 inches/2.8 meters)
Set-up time	15-20 min	5-7 min
Ink waste (during wash)	4-77 pounds (1.8-35 Kg)	1 pound (.45 Kg)
Wash water use	Up to 15 gallons (56.7L)	4-8 gallons (15-30 L)
Routine maintenance (recovery cost per year)	\$2,200 (1,676€)	\$1,240 (945€)
Rejections/returns (ink film)	Varies with speed and pressure setting	Maintains the same metering under all conditions
New market penetration (higher graphics)	Limited graphics capability	Better margin work
Anilox roll care (cleaning)	Without automated wash-up vulnerable to dried ink in cells	Helps maintain integrity of intended cell volume

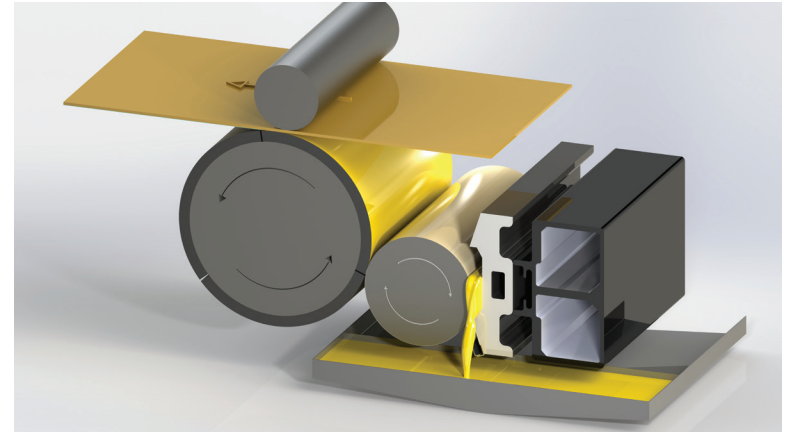
ColorMaster®

Single Blade Ink System

A doctor blade system sheers the ink off the surface of the anilox roll without being affected by hydraulic forces. This system allows for precise control by metering excess ink off the anilox roll. ColorMaster, a single doctor blade system, provides uniform blade loading across the entire surface of the anilox roll.

Benefits of ColorMaster single blade systems:

- ▶ Improved ink metering
- ▶ Non-corrosive doctor bar
- ▶ High quality print images
- ▶ Less ink to print
- ▶ Excellent alternative for full coverage, block, and process printing
- ▶ No end seals to replace



ROI Considerations

ROI	Roll/Roll	ColorMaster
Production Speed	Loses control at high speeds due to hydraulic forces	Allows for more delicate work at high speed with precise metering
Print Quality	More likely to have rejections due to inconsistent metering	Crisp and clean print quality every time
Maintenance	Wiper rolls are more expensive to stock and take most of a day to change	Relatively inexpensive blades are changed in minutes with the tool-less blade holder
Wash-up Time	Uses significant amounts of water, ink, and time	Quicker wash-ups and 30% less water than a wipe roll

Digital Harmonic Register

Digital Harmonic Registers are engineered to be compatible with many manufacturers and models.

Benefits

- ▶ Position repeatability down to .001" while running
- ▶ Set-up time in about a minute with only one sheet
- ▶ Minimal cleaning required
- ▶ Reduces waste from unregistered boxes
- ▶ Requires virtually no maintenance for 10 years

Features

- ▶ Servo-controlled holding brake
- ▶ Touch screen controls



SunTrac® Vacuum Transfer

The SunTrac vacuum system is easily retrofitted to older machines of various brands to eliminate pull rolls and pull collars.

Benefits

- ▶ Less scrap with 1/64 trap
- ▶ High, profitable speeds
- ▶ Eliminates steps, speeding up set-ups
- ▶ Accurate color-to-color registration
- ▶ Runs small flute, warped, and coated boards
- ▶ Cost savings over upgrading worn pull roll systems

Features

- ▶ Available for top and bottom printing equipment
- ▶ Automated print nip adjustment
- ▶ Integrated vacuum doors for variable sheet sizes

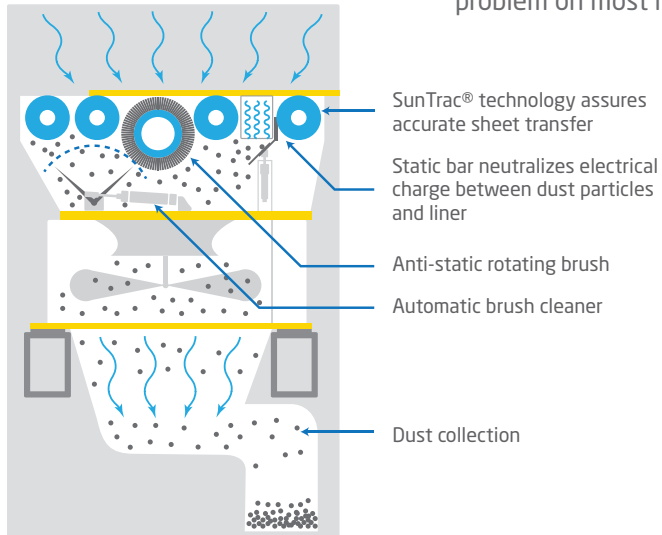


PrintPrep® Sheet Cleaner

This in-line sheet cleaner is adaptable to most finishing machines by installing a complete unit between the feed section and the first print section dedicated to cleaning the sheet.

Benefits

- ▶ Improves print quality
- ▶ Reduces downtime for cleaning
- ▶ Cleans sheets
- ▶ Assures accurate sheet transfer
- ▶ No hickeys
- ▶ Eliminates "print-short" problem on most machines



SunSet® Computer Controls

The SunSet computer control system replaces obsolete systems found on Langston machines. It is also available to upgrade finishing machines.

Benefits

- ▶ Set-up within minutes using precise setting of previous jobs
- ▶ Reduces waste from manual set-ups
- ▶ Minimal operator training



Features

- ▶ Store and retrieve previous jobs with unlimited storage
- ▶ Built-in support with pictures and video
- ▶ Keeps position even during power failure
- ▶ Touch screen display with no keyboard entry required



About SUN Automation Group®

SUN Automation, headquartered near Baltimore, Maryland, is the world's leading manufacturer of corrugated box equipment. The company's innovative feeding, printing, and converting technologies enable comprehensive solutions for corrugated box plants to increase production, efficiency, and profitability. SUN Automation places a strong emphasis on customer support and provides 24-hour on-site technical support globally. Founded in 1985, SUN Automation is 100% employee owned.

Put innovation on your production floor.

Update your print systems today:

- ▶ US and Canada: 410-472-2900
- ▶ Europe, Middle East, Russia: 44-117-9401777
- ▶ China: 86-20-2860-6593
- ▶ Southeast Asia: 65-9186-6408

For other locations and more information:

SunAutomation.com

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