



# ENGINEERED

PRINTING SOLUTIONS

## *Single Pass Inkjet Printers*



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### XD Series Industrial Inkjet Printers

The **XD Series** prints “image direct” from computer to print. It is the perfect solution for short or long runs with quick changeovers and variable data. This inkjet printer is ideal for multi-color printing on flat and semi-flat surfaces on a variety of substrates and can be customized to meet your printing needs.

#### Features:

- Print widths of 70 mm, 108 mm, 140 mm, or 210 mm
- CMYK+WW print heads, varnish heads available
- Extended Color Gamut (CMYK+OGV) available
- Four levels of greyscale
- Corona, Flame, or Plasma Pretreatment available
- Drop-on-demand InstaCure UV ink allows printing multiple colors with zero down time Multi-color printing in a single pass
- Product height and width 12 inches
- 4- color integrated RIP available with variable image data
- Fine lines and details at 14 inches per second @ 360 dpi
- Continuous circulating ink management system
- Automatic parts handling, pretreatment and vision system options available



The core of the XD series is the printing cell. The XD series offers print widths of 70, 108, 140, and 210mm. Every industrial inkjet printer in the XD series consists of inline pretreatment, a linear conveyor, and inline UV curing.

Typical head configurations in our singlepass inkjet printers consist of WW + CMYK. It is also possible to vastly expand the color gamut with the addition of print heads inkjetting Orange, Green, and Violet.



The XD-360° is a multi-color, UV-LED, high-resolution industrial inkjet printer built specifically for decorating cylindrical objects. The XD-360° prints on flat walled or tapered cups and bottles with a synchronized printing and curing operation. Full WW+CMYK, optional primer and varnish heads are available.

### Features:

- Inline Pre-Treatment
- Ink-curing via UV LED
- Visual Resolution: 720 x 720 dpi (greyscale printheads).
- Native Resolution: 360 x 360 dpi.
- Registration: +/- 10 $\mu$  color-to-color
- Throughput: up to 1200 pph

The next few pages show some established part-marking solutions that we have perfected. Let us know how we can help you lower costs and increase throughput.

***Drop us a line, and let's start a conversation!***

## XD-360° GOLF BALL PRINTER



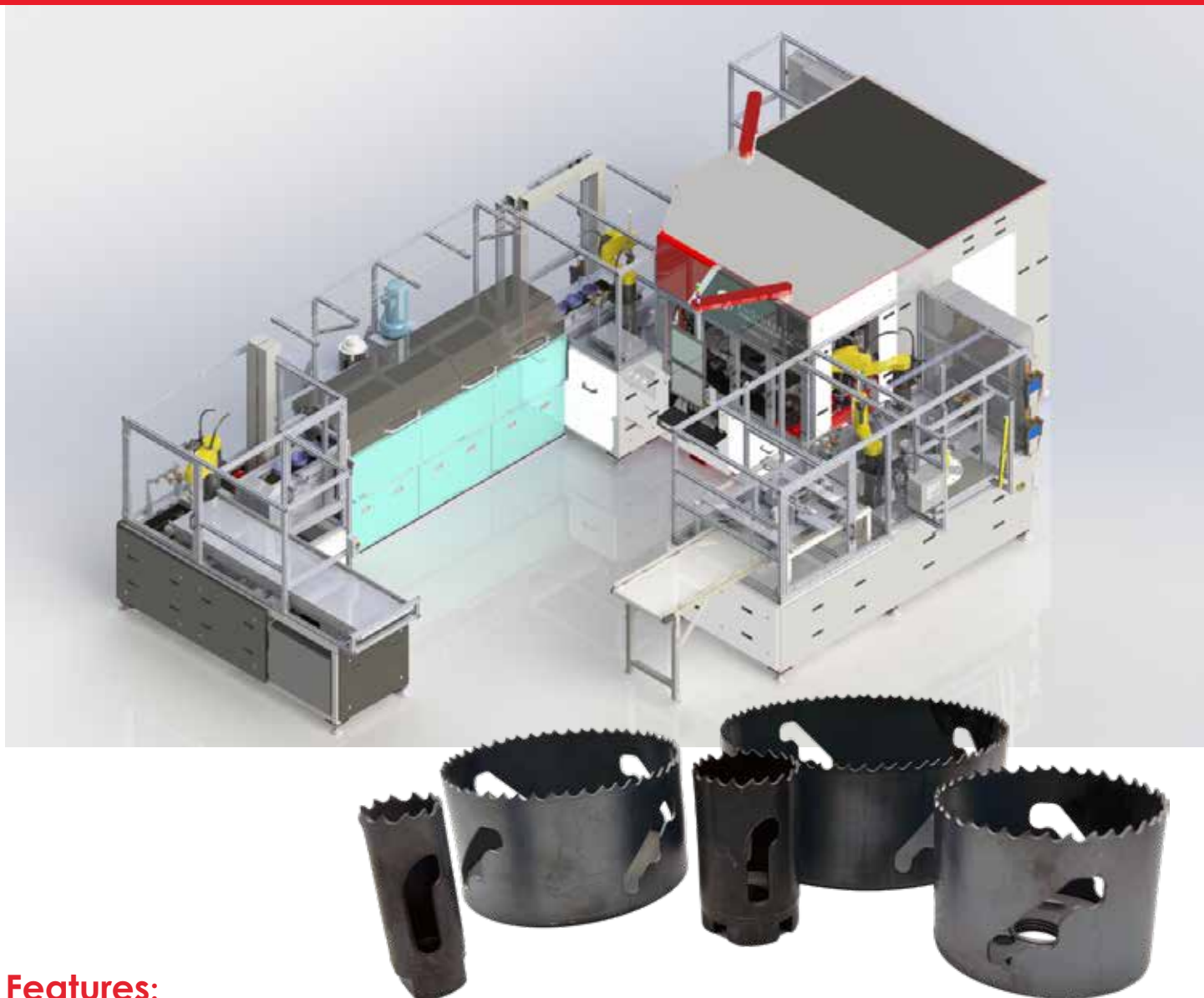
### Features:

- Capable of printing up to 900pph
- Orientation options available
- Multi-access printing capable
- Job batching sorting
- Inline pretreatment available
- Seamless changeover with no setups
- Curved Surface tool for image warping around diameter
- Up to 28mm print diameter



**scan here  
to watch a video!**





### Features:

- Prints holesaws from 9/16" to 6" in diameter.
- The system prints 6 color artworks (CMYKWW)
- Parts are presented to the print cell via accumulation conveyor with the tooth side up
- Servo-driven pick-and-place-system will grab the parts, flip them and insert them into the XD360 fixture; the load function will include an orientation station.
- Parts process through the XD360 print cell, applying WCMYK and final cure
- Servo pick-and-place system grabs parts and places them on the outfeed accumulation conveyor.
- Quick connections for tooling allow changeover between sizes
- Remote connection permits troubleshooting and diagnosis as well as job creation
- Throughput on this equipment determined by part diameter

## XD-70 HARD HAT PRINTER



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### Features:

- Servo-controlled fixture rotates part for printing on multiple locations
- Full CMYKW Printing – Varnish and SPOTS available
- Variable Data – Unique text/images per print for specific users
- Setups streamlined with instantaneous changeover between jobs
- In-line pretreatment eliminates multi-station work-flows for a single part
- No plates, mixing inks, aligning prints – just position the hat and print!



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to watch a video!



Parts are manually loaded in bulk to the part bin at the load station of the elliptical conveyor. Once loaded, the fixture indexes to the next position to allow continuous part-loading. Parts make their way around the elliptical table to the printer load station, where the parts are placed two at a time by a six-axis robot on the moving conveyor. The parts are transported through the print and cure station at approximately 14.5" per second to the pick location for offloading. At the offload station a radial-arm robot removes the blades from the conveyor and transports them to a secondary offloading conveyor.

## Features:

- Robotic Loading/Unloading
- Full Color CMYKWW (Varnish + Primer available)
- 7,000+ printed blades per hour
- End-of-arm tooling to load/remove two blades per actuation



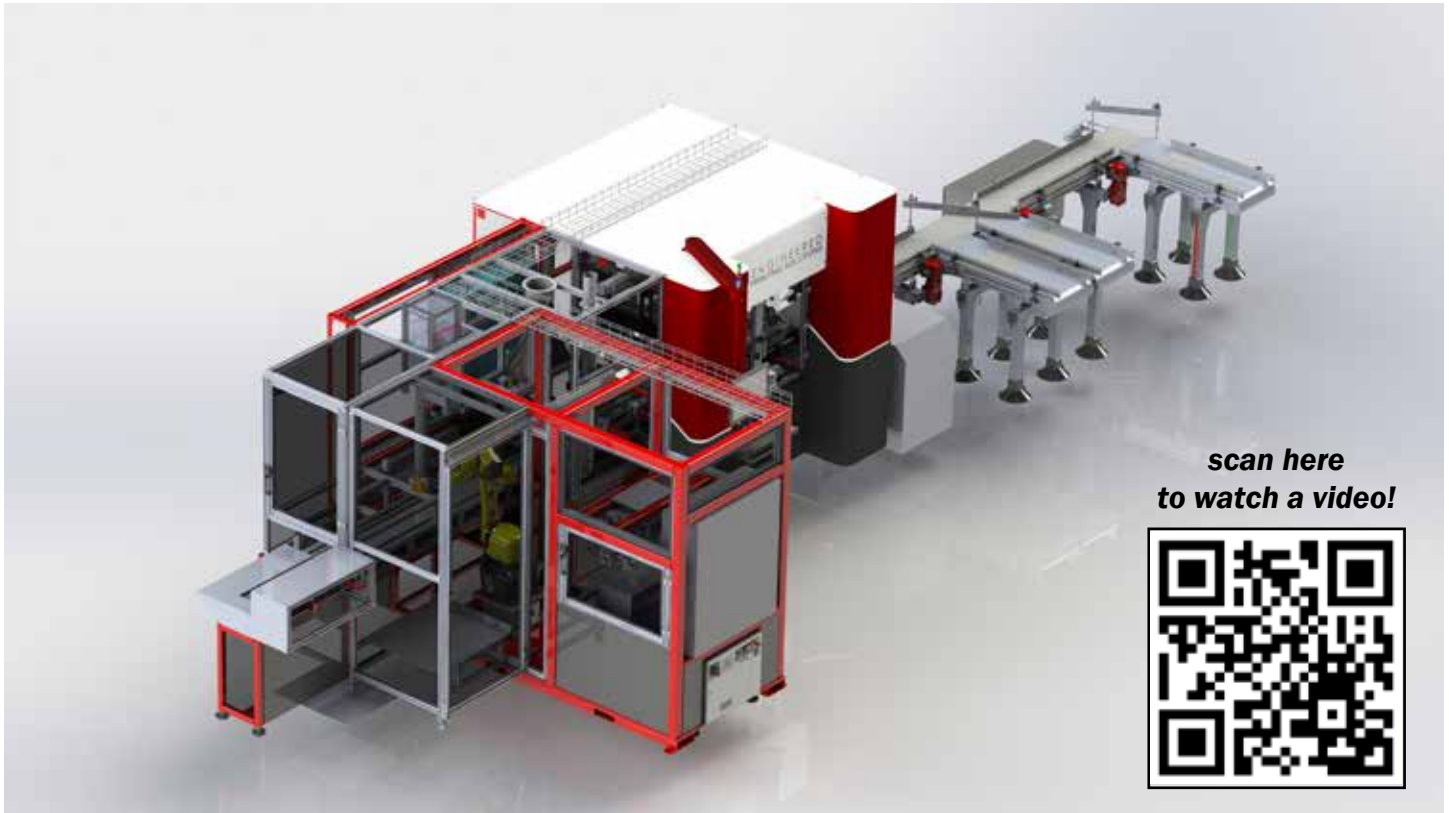
### Features:

- Racetrack-style continuous conveyor enables the operator to load the blade staging area in stacks
- robotic load cell picks blades and loads them into a fixture (at right)
- Product detect sensor to control print timing
- Crash detection prior to print heads
- Fixtures are conveyed through the print cell and LED UV cure at a rate of 14" per second
- LED UV 8 watt pinning lamp following each white head print station
- Bulk Ink Supply System for each printhead with sensor and auto refill
- Servo drive Z and Y axis control for height adjustment for various part heights and print positions
- LED-UV 16Watt Curing Head station and power supply with adjustable power levels
- Programmable job / product counters, print job queue enables loading multiple jobs in advance
- Local and remote diagnostics/logging, fault detection
- Robotic offload picks finished parts and places them in stacks for downstream processing
- Throughput: approximately 2400 pph depending on part geometry



*Spider robot loads the fixture above, which moves continuously around the racetrack conveyor.*





## Features:

Universal Loading System to accommodate a variety of product types

- Carousel for end of arm tooling changeouts
- 24"x20" Product loading zone for automated part pickups
- Integrated Vision system for part inspection with 'pass/fail' reject offloading
- Offload conveyor features directional conveyance with auto programming



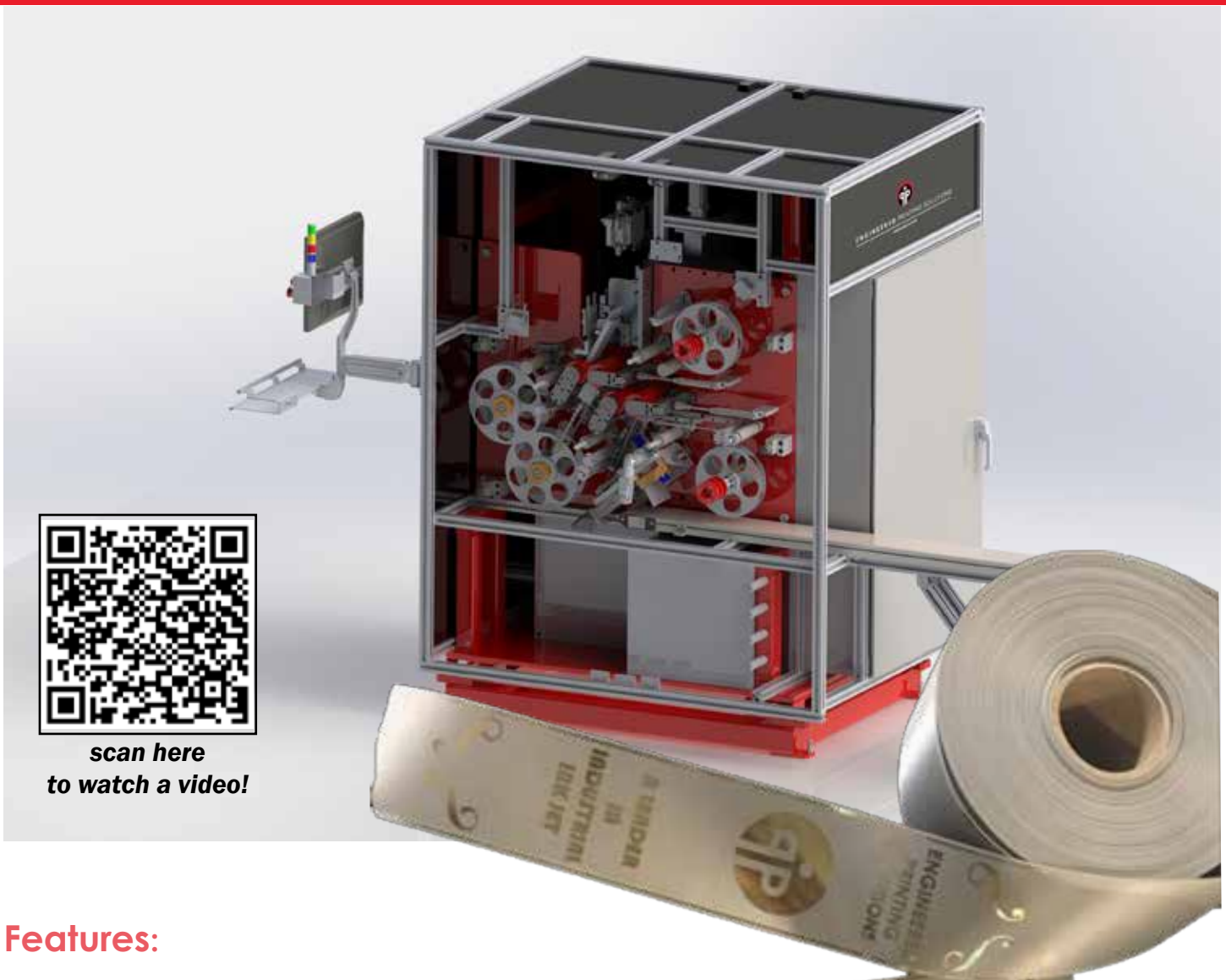


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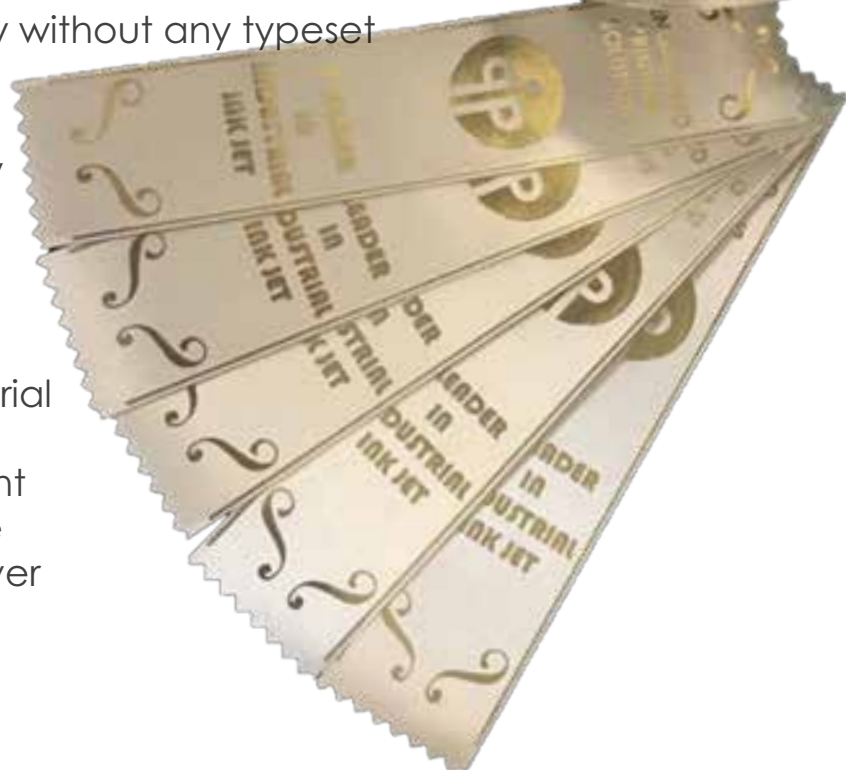
Parts are loaded in bulk to the part hopper where they are automatically fed to the centrifugal bowl. Parts are oriented and pretreated with flame and then moved to the print conveyor and metered via starwheel. Once on the print conveyor, parts can be printed with any combination of OGV+CMYK process. The parts then pass through a vision inspection station for inspection of print quality. Failed parts are blown off to a reject shoot and passed parts transition to the offloading conveyor. Once parts move to the offloading conveyor they move up a vacuum elevator where they are then transitioned to a single lane spinning rod accumulator. Parts are then pulled off in large stacks.





## Features:

- Full Digital graphic ability without any typeset
- Maximum uptime, minimal downtime
- Variable Data capability
- Limitless font – NO TYPESETTING!
- Multicolor prints on foil possible
- Better adhesion to material vs. Hot Stamp
- Smaller machine footprint
- In field conversions have shown 3:1 production over traditional methods.







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