



Integrating Harlequin Core™ into Jetron's digital inkjet presses has resulted in improved print quality, increased productivity and enhanced versatility, allowing Jetron to explore new markets and boost sales.

## THE CHALLENGE

Eager to take their business to the next level, Jetron Digital Printing Systems, a leading manufacturer of industrial inkjet printing solutions, wanted to optimize the efficiency and print quality of their digital printing presses. Jetron produce two types of industrial inkjet presses, namely the D2 Shape and D2 Roll systems, each offering a range of solutions for direct-to-shape and roll-to-roll printing, respectively. A critical consideration was addressing the variable Raster Image Processor (RIP) needs across different machines when handling complex graphics and large files, along with seamless integration with their web-based print management software, Saga.

## THE SOLUTION

After evaluating several solutions, they chose Global Graphics Software and its Harlequin Core RIP technology. Known for its unrivaled speed and performance, Harlequin Core offers

## KEY INFORMATION

- Jetron's D2 Shape CT Series direct-to-shape digital printing systems print directly onto cylindrical objects made of plastic, metal and paper without color and quantity limitations.
- Print speed is 5,000pcs/hour and material dimensions are 20–80mm diameter and 54–254mm length.
- D2Roll–offers roll-to-roll printing on materials of various widths including standard labels, coated or uncoated paper, cardboard, and aluminum foil.

*Jetron's D2Shape product family offers high-quality printing direct to shape on materials such as HDPE, PP, aluminum and tin, with no quantity or color limitations.*



a wealth of features including the ability to scale to meet the demands of industrial inkjet printing, fast variable data processing and exceptional color management and screening tools.

Alper Yercik, CTO at Jetron comments: “We were aware of Global Graphics Software as we work closely with their sister company, Meteor Inkjet, who supply us with printhead drive electronics for our D2Shape CT series. Performance was key to our choice; we need to be confident that our presses can print variable data at speed, with no underruns. We were aware of the Harlequin Core and its reputation for high performance and being the fastest RIP on the market – crucial for variable data printing at high speed. We felt the solution from Global Graphics aligned with our technical requirements and business goals.”

Paul Dormer, product manager for Harlequin Core explains: “We discussed Jetron’s technical requirements, and after some initial testing it became apparent they did not need to use the full feature set of Harlequin Core. It struck me that the command-line component of Harlequin Core was the perfect solution for Jetron; it is easy to integrate and ideal for those building inkjet presses who don’t have complex

requirements for outputting to the device, such as tiling, raster management or custom screening.”

Harlequin Core’s command-line component has a simple licensing model and a lower price than a full inline RIP farm Digital Front End, which was not required for Jetron’s specific use case.

### Highly responsive technical support

The teams at Jetron and Global Graphics Software worked together to ensure the press development prints were at optimum quality. This involved optimizing color management and using Global Graphics Software’s Advanced Inkjet Screens™ (AIS). These AIS screens avoid all the defects common with traditional screens - no tiling repeat patterns, moiré, worming/dot clustering, mottle, excessive noise, color convergence etc.

“ We found the technical support from Global Graphics Software to be highly responsive, knowledgeable, and effective in addressing any issues or questions that arose during the integration process. ”

*Alper Yercik, CTO, Jetron*

## THE RESULT

“Integrating Harlequin Core into our presses has resulted in significantly improved print quality, increased productivity, and enhanced versatility, enabling us to explore new markets and ultimately boost our sales,” comments Alper. “Importantly, integrating our Saga print management software with the Harlequin Core is an example of a successful combination of user-friendly software and cutting-edge RIP technology. It’s elevated our operational efficiency and placed us at the forefront of the industry.”

Overall, implementing Harlequin Core has transformed Jetron’s digital printing capabilities and positively impacted their business performance. Plans are underway to make further enhancements in future releases, including the use of CxF/X-4 color exchange format to make brand colors even more accurate.



Jetron’s D2Shape product family includes digital printing systems that print directly on objects such as plastic bottles, buckets, containers, glasses, lids, and tin cans.

“Our challenge was to design an exceptionally lean and user-friendly interface for our press operators, eliminating complexity without compromising on functionality. We aimed to provide a robust back end system capable of meeting the demanding requirements of industrial packaging applications. This balance of simplicity and power is key to our success.”

Doğa İpek, CEO, Jetron

## ABOUT JETRON DIGITAL PRINTING SYSTEMS

Jetron Digital Printing Services is the only company in Turkey to develop and produce digital printing technologies in industrial printing processes. The company offers printing solutions that improve the performance of your business, accelerate your growth and carry your business into the future.

The company has research and development at its core and offers a range of solutions from design to the production of environmentally friendly industrial printing solutions that add value to your business.

For more information visit: [www.jetron.com.tr](http://www.jetron.com.tr)

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