

Ideas in print

 **STUDIO ONE**

2022

**Our automated
manufacturing & production
technology capability**

Production & technology systems



Production system

EFI Pace®

Overview

EFI Pace® is at the core of our operation. It is a Management Information System and Enterprise Resource Planning solution, which enables our end-to-end automation. The system offers a modular architecture, which allows configuration to meet your specific needs. Both scalable and adaptable, Pace® ensures we can keep up with your business changes, expansions and technology advances. The benefit to our customers is visibility of job progress, fast and accurate estimating, accurate data collection, traceability of events and robust security of the data kept within it.



Production system

EFI Fiery Pro Server XF®

Overview

Fiery® is the driving force of our production facility, acting as a digital bridge to our automated manufacturing workflows. This interface enables precise control of jobs, colour management, image quality, variable data and output devices. Jobs are processed with exceptional RIP speed utilising native PDF workflows.

Our Fiery Pro Server® drives all of our printers and cutters and allows multiple users to access it remotely via Command Workstation which increases capacity and drives efficiencies. Each job becomes easier to set up, monitor and manage which shortens job preparation time, resulting in jobs arriving on-press faster. Realtime production communication is bidirectional meaning that data is being sent to and from Fiery®, returned from connected devices and back to Pace® constantly. This information is then used to compare estimates vs actual, giving visibility to our estimators of real cost empowering them to adjust and tailor pricing to ensure that it is always competitive.

Production & technology systems



Production system

EFI Vutek®

Overview

To complete the ecosystem, Studio One has invested in the EFI Vutek® printers. These have the capability to print on both roll and rigid substrates, printing with 8 colours—plus white ink—to output superior photorealistic quality and high productivity. The ink technology used is UV curable, meaning the inks will adhere to almost any surface and are immediately dry upon touch.

We can print directly onto substrates of up to 50mm in thickness, avoiding the need to print to film, then apply these to a rigid substrate, eliminating manual intervention. Layered printing is also possible, which can be used to produce day-night graphics for illuminated signage or double-sided printing to transparent materials such as glass produced in a single pass. These machines are perfect for a wide variety of printed applications both within internal and external environments.



Production system

EFI Market Direct Store Front®

Overview

Market Direct Store Front® functionality is at the start of our automated digital workflow. It streamlines the businesses' offering, making our services more accessible. The system is an online-commerce order platform that is configurable to each customer's requirements through collaboration, to ensure it delivers a true benefit to our customers. Customer products can be static, template-driven, editable, restricted or designed from scratch using the systems intuitive tools. Stores can be used directly by our customers for their own requirements or branded to provide a B2B solution. The integration with Pace® means that the system is a true web-to-print solution mainly focused on wide-format printed products.

Production & technology systems



Production system

EFI Metrix®

Overview

EFI Metrix® is our solution to automated planning and imposition workflows. It is a job planning engine that transforms big data into actionable data, seamlessly exchanging with the MIS, prepress and finishing systems. Complex jobs with multiple parts can be sorted based on their specific requirements and the processes required to manufacture them. Imposition layouts are created which optimise material usage and embed all the print and finishing data within the created layouts to allow for automated manufacture.

Automated manufacturing & plant capability



Manufacturing

Esko XP44®

Overview

Our Kongsberg digital cutting table is designed especially for handling the combination of corrugated board and other rigid materials used in packaging, POS products, product display and signage. These materials range from single flute corrugated and foam to MDF, acrylic or aluminium composite. Our digital finishing table is equipped with a range of tools to make this versatility possible, including a High-Speed Milling Unit, Rigid and Oscillating Knives, Kiss Cutting Knives, and Creasing Wheels. The cutting table's versatility allows us to run jobs from a single prototype to full-scale production with up to 1000 units in a day. The XP's production power and quick change of tools ensure a fast turnaround with precision.



Manufacturing

HotPress Film Laminator/Encapsulator®

Overview

The machine is designed for laminating pressure or heat-sensitive materials. This thermal laminator has heated top and bottom rollers that work with a heat-activated adhesive that gives a strong, permanent bond. This can be used for encapsulation, where the thermal film is applied to both sides of the target media at once. It is a professional all-in-one laminator and mounting machine with a capacity of up to 1600mm in width and 25mm thicknesses.

A maximum speed of 12 m/min for increased production capacity. The rollers are pneumatic and can be set to an accurate gap thickness to ensure that the substrate to be laminated is not crushed in the process. A series of rollers and breaks ensure that roll media is tensioned correctly and the materials run straight when passing through the rollers. The output side of the machine also has an inbuilt cooling system to ensure that the material does not melt together when re-wound onto the reel take-up system.

Automated manufacturing & plant capability



Manufacturing

Evolution Fully Automatic Eyeleter®

Overview

The Evolution is a fully automatic pneumatic press suitable for setting 12mm plastic eyelets. It can work with PVC banners and semi-rigid materials such as corrugated plastic. It is fast and reliable and greatly speeds up the setting operation by feeding both the eyelet and the washer. A laser pointer is utilised to show exactly where the eyelet will be set to help the operator achieve accuracy. The most obvious advantage of plastic eyelets is that being transparent makes them almost invisible, allowing the printed image underneath to be seen, however they can also be recycled without being removed from the material that they are set in.



Manufacturing

Mimaki UCJV300/160®

Overview

This integrated printer/cutter delivers new levels of creativity with versatile and vibrant ink types, including new Silver, Orange and Light Black. The CJV300 achieves the highest print speeds in its class, with innovative technologies ensuring unrivalled output quality. We have the printer configured with x2 sets of CMYK print heads doubling the output speed of the machine, however, the printer can be configured with CMYK and metallic ink. Prints can be kiss cut without being unloaded or the prints can be removed, laminated, and then reloaded and accurately kiss cut thanks to the integrated registration system.

This printer is also connected to our Fiery Pro Server® so that it can be sent lcut registration information to enable synchronisation with the Kongsberg® for increased finishing capability. This functionality is essential for cutting out individual labels or finishing prints that have been applied to another material post-printing.

Automated manufacturing & plant capability



Manufacturing

Matic Cronos Sewing System®

Overview

Our conveyor-belt-driven automated sewing machine is used for the production of silicone edge graphics (SEG), pole pockets, hems and hook and loop fastener. Utilising sewing guides, we consistently achieve high-quality flat seams, reduce production time and increase output. The conveyor belt is synchronised with the sewing speed to create straight accurate stitching and with the twin needle capacity, a reinforced hem can be stitched at the same speed as a single hem. A wide range of thread colours and thickness are available as well as clear nylon threads for long-lasting external applications.



Manufacturing

Bürkle LFC 2100 Liquid Laminator®

Overview

Our Bürkle LFC 2100® is perfect for adding high volume gloss and matt laminate coatings onto 2.1m wide rigid materials up to 80mm thick with speeds of up to 25 metres per minute. It is used to apply UV-based lacquers for the protection and enhancement of large format digital prints. Suitable for almost any substrate, it can also apply primers to hard to coat substrates, such as glass or melamine for a high scratch-resistant, protective anti-graffiti finish that doesn't fail.

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