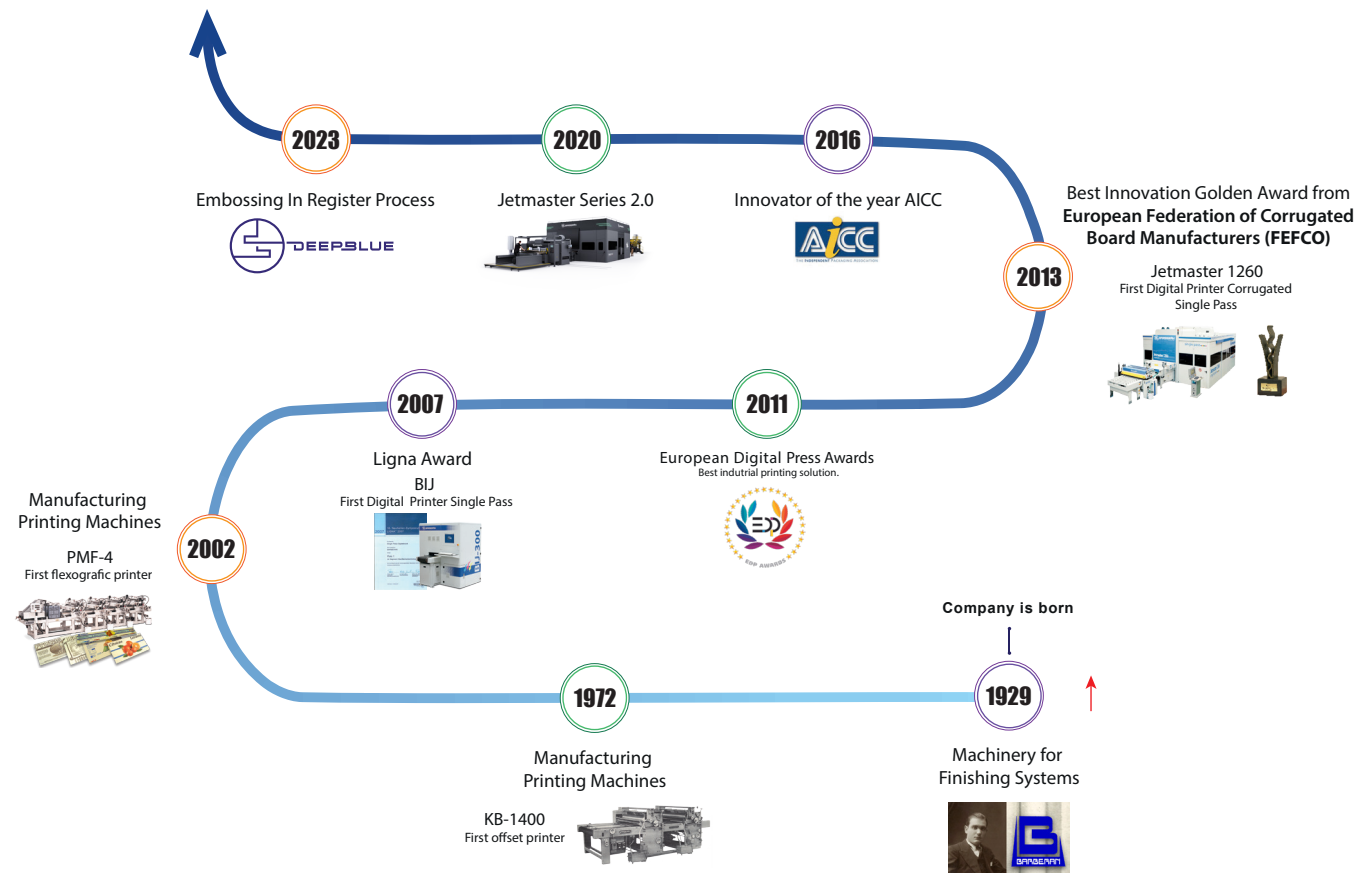# BARBERÁN

Solutions since 1929

Jetmaster Series

digital printing machine

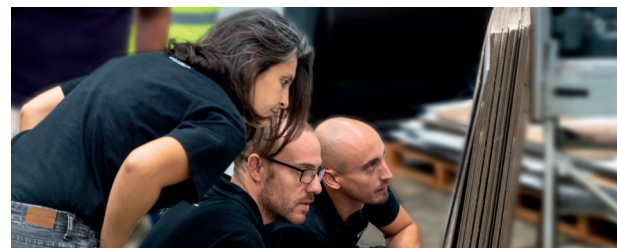# Digital Printing Single Pass

on Corrugated

Evolution of Print

For almost two decades we've been designing and manufacturing cutting edge digital printing systems for different market segments. Continuous developments and using of the latest available components and technology keeps the Jetmasters at the forefront of singles pass digital printing solutions.

2023 — Embossing In Register Process — DEEP.BLUE

2020 — Jetmaster Series 2.0

2016 — Innovator of the year AICC — AICC

Best Innovation Golden Award from **European Federation of Corrugated Board Manufacturers (FEFCO)**

2013 — Jetmaster 1260 — First Digital Printer Corrugated Single Pass

2007 — Ligna Award — BIJ — First Digital Printer Single Pass

2011 — European Digital Press Awards — Best indutrial printing solution.

2002 — Manufacturing Printing Machines — PMF-4 — First flexografic printer

1972 — Manufacturing Printing Machines — KB-1400 — First offset printer

1929 — Company is born — Machinery for Finishing Systems

Our Team

A great team of professionals from all over the world ensure our clients receive the best training and service.

Markets

We can work with multiple kind of substrates and make sure our Jetmaster adapts to the customer's needs. (e.g. furniture, displays, packaging, plastics, finish foils etc.)

Packaging

Deco

Displays & Signage

Flooring

Single Pass Technology

All Barberan digital presses are based on the single pass technology aiming for the highest print quality at industrial speeds. The Jetmasters are available with speeds up to 120 m/min, 4 or 6 colors, single or double print row and options to include a digital white and/or digital top coat application.
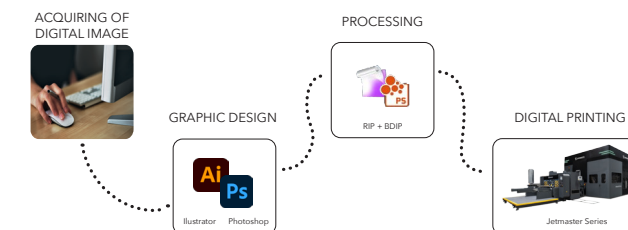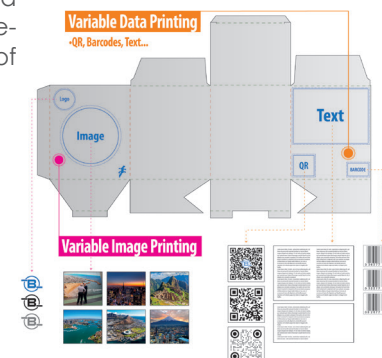
Printing Processes

Forget about rollers and stencils used in the conventional printing technologies. A digital print file is uploaded to the machine's platform, passing through the RIP which converts it into a print file and we're ready to go.

ACQUIRING OF DIGITAL IMAGE

PROCESSING

GRAPHIC DESIGN

RIP + BDIP

DIGITAL PRINTING

Ilustrator   Photoshop

Jetmaster Series

Variable Data System

Software for high productivity solutions that allows to merge personalized messages, images, barcodes or QR on a static base image in real time at high printing speed. The system has been entirely developed by Barberan considering the peculiarities of a large format

Single-Pass system is a fantastic tool for a wide range of applications in the printing industry. With VDATA technology you can turn a simple box into something unique and of great added value.

Variable Data Printing
-QR, Barcodes, Text...

Image

Text

Variable Image Printing

eg: Corrugated cardboard box

High Reliability and Profitability

Barberan´s single pass machines have been developed to ensure the high quality standards in the industry. More than hundreds of industrial installations worldwide, printing millions of square meters per month, demonstrate our commitment to each customer.
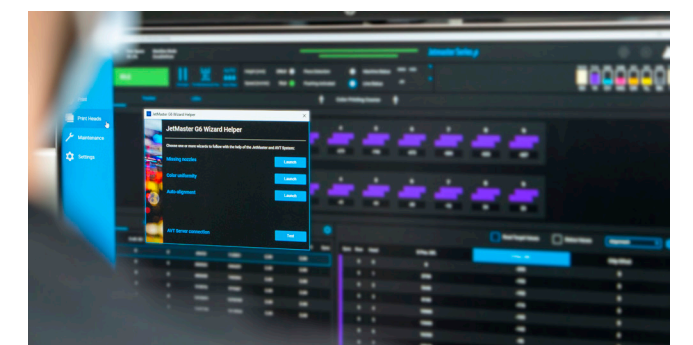
G7 Certification Ready

Jetmaster printers are ready to achieve the strict G7 requirements in order to assure complete control of the entire graphic production process, from proof to print, guaranteeing maximum accuracy and consistency of color matching and quality.

Master Vision

Save time and material with our electronic Inspection system based on artificial vision to automatically calibrate the Jetmaster printer.

MasterVision allows you to reduce the time needed to prepare the machine and keep it in the best conditions during production. The system is able to analyze the degree of calibration of the machine, detect defects and inform the G6 machines software to introduce the necessary countermeasures, both at setup and production time.

Mastervision is modular, adapting to the printing width of the machine and the specific needs of the production process.
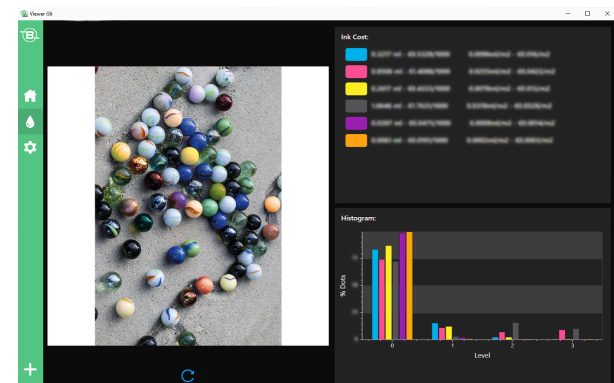
The Barberan Jetmaster Series

For almost two decades, Barberan is at the forefront, leading the introduction of single pass digital technology into the corrugated industry, as well as in many other industrial sectors like deco, flooring etc. featuring stationary inkjet printheads that allow for direct, contactless printing of digital images in a single pass on several materials.

Jetmaster streamlines the design process, whether you're initiating a project from the ground up or requiring swift adjustments to pre-existing designs. The machine's structure, comprising printhead rows for each color, mounted on a precision conveyor belt with a vacuum system and high-precision encoder, ensures industrial-grade production speeds.

Leave behind the expenses of traditional cliché-based printing processes, as Jetmaster offers you the flexibility ensuring it's an ideal solution for meeting various packaging demands.

Less is more

Unlock cost control and efficiency with our advanced machine display. Instantly visualize the printing costs for your designs, giving you complete control over production expenses. Benefit from significantly reduced costs per square meter, achieved through the elimination of printing plates, substantial waste cost reductions, and minimized machine downtime. Take command of your production costs, meticulously detailed by ink usage and square meter, and optimize your printing process like never before.

Jetmaster series

Models

Max. Printing Width (W)	1380 mm	1610 mm	1840 mm
Machine's width	7100 mm	7600 mm	7600 mm
Substrate length	min 600 mm - max 3000 mm		
Printhead	600 dpi, 4 grey levels, DoD		
Single feed (min plate/sheet width)	600 mm		
Double feed (min plate/sheet width)	300 mm		

*Shown figures are for orientation purposes only.
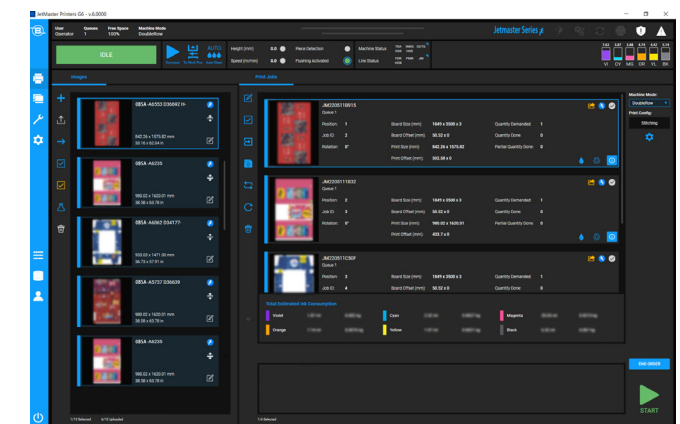*Other dimensions under demand.

Specifications

• Speed up to 120 m/min.
• Batch sizes 1 to...
• Variable data.
• No design limitations.
• All flute types.
• Total recommended length: ± 36000mm / 118 ft.

Color Management

The color management systems used in the digital printing are able to create a fully controlled "design & print" environment.
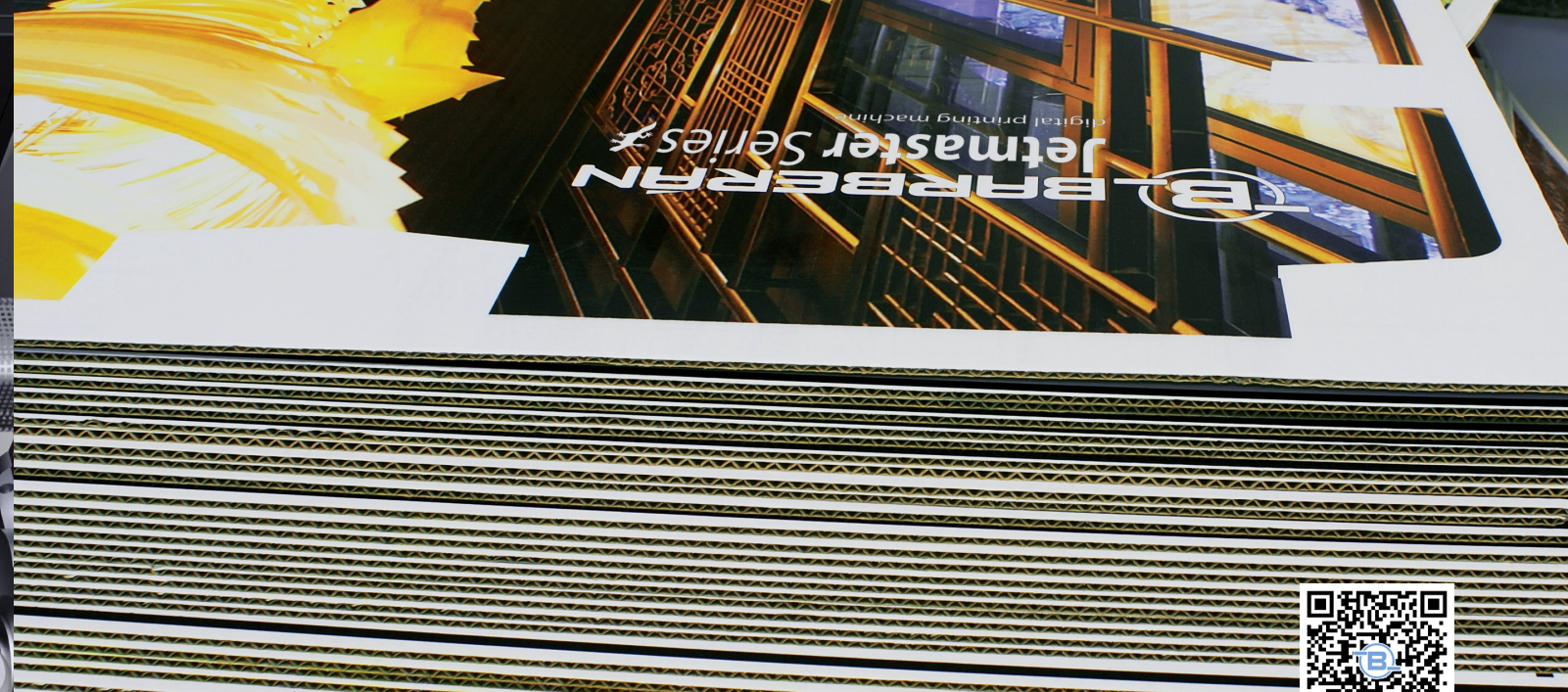
The design you see and approve on the monitor will have also the maximum similarity on substrate's surface.

The data base library will contain all your designs which allows you to print any of the available designs in different working modes and quantities.

Digital Printer

Drying Unit

Doser Roller System

Master Vison

Feeder
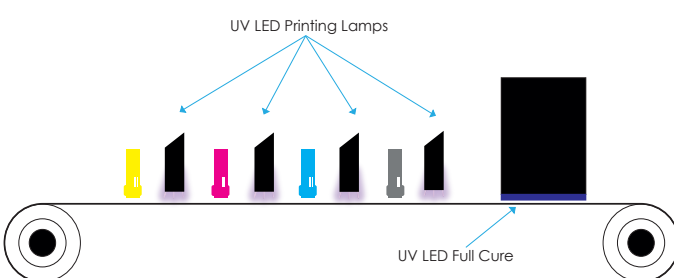
Master Vision

BARBERAN
Jetmaster Series *f*
digital printing machine

UV-LED Advantages

- Low heat impact.
- Instant On/Off.
- Intensity (pinning) control.
- Low voltage.
- Long UV LED lamp life.
- Lowest carbon step.

UV LED Printing Lamps

UV LED Full Cure

LED Pinning Process

Pinning is the semi-curing process of ink droplets between printheads which enables to control the dot expansion, f.e. with solid colors we want the droplet to spread whereas with text, barcodes etc we would want to cure it in order to have a more defined print. The extent of dot or dot gain depends on properties of the ink, substrate, and the process environment.

While pinning stops the drop from spreading, it leaves the ink flexible and soft enough for proper inter-coat adhesion to other ink droplets and for further handling.

The advantages of pinning with UV LEDs include:
- Control of dot gain.
- Improved image quality & line resolution.
- Reduce banding.
- Improved ink flexibility.
- Better adhesion of additional colors - for both absorbent and non-absorbent substrates.
- Stable & predictable output.

G6 Software

New tool in the world of digital printing that represents a turning point towards a new era, where printers are controlled more easily and intuitively, simplifying all the processes involved in daily production.

With this platform, barberan is once again at the forefront of single-pass printing technology, aiming to meet and exceed your expectations, offering solutions that have been developed and tested with your business model in mind.

The new G6 software includes extended features to enhance productivity, print quality improvements and inspection system integration, as well as great versatility to adapt to the technological needs of your industrial process.

UV Inks & Benefits

- UV inks are 100% solid.
- Fast drying through a photochemical process.
- Low migration inks for indirect food packaging.
- Humidity rate has no influence on drying.
- Less waste generated, no water needed for cleaning.
- Brighter colors, exceptional color fastness & consistency and superior gloss grade.

Diverter System

Shown figures are for orientation purposes only.

Jetmaster Cloud

A centralized system for the Jetmaster work data analysis that shows the status and performance of the machine in detail from anywhere and at any time.

Jetmaster Cloud saves all the production data, cost and preventive maintenance data. You can use your browser to consult the detailed history of:

- **Production data:** printed meters, sheets, production times, uptime.
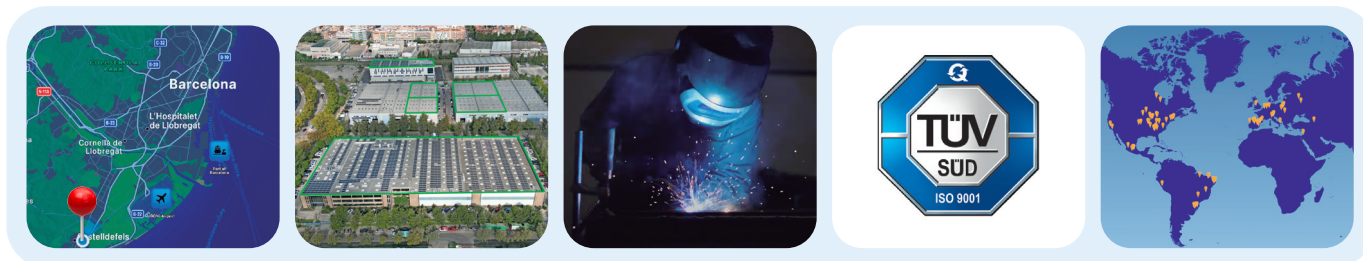- **Production costs:** Waste, Ink Consumption.
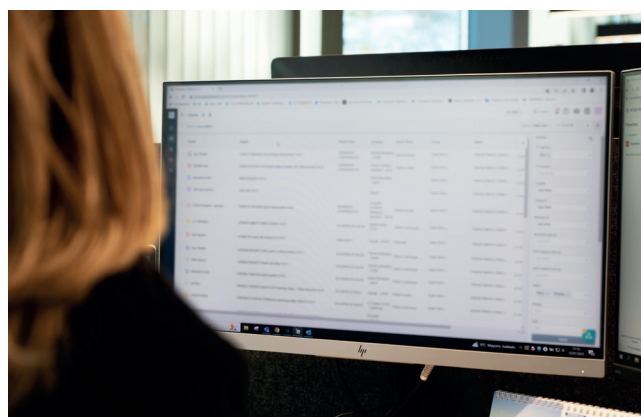- **Incidents:** Alarms, Warnings.

Service Desk

Service Desk is a new service-oriented platform for our customers, based on incident management and spare parts ordering to facilitate and streamline each case in the most optimal way.

This platform will allow all spare parts orders to be placed and will provide an online incident management system as well as a direct communication system with our specialized technicians.

Location:
Castelldefels - Barcelona

More than 35.000 m²

Over 190 professionals

Certified quality system by TUV

Export quote > 95%

www.barberan.com • www.jetmasterseries.com

BARBERÁN
Solutions since 1929

Jetmaster Series
digital printing machine

DEEP BLUE
Embossing In Register Process

ISO 9001
Certified
Quality Management System
www.tuvsud.com/ms-cert