

Single Pass SOLUTION

on corrugated

Jetmaster Series 
digital printing machine 

 BARBERÁN

Jetmaster 1890

single pass



TECHNOLOGY BENEFITS

In comparison to the existing conventional industrial printing systems the digital technology is a contact-free printing system which will make possible to print on every type of surfaces without having problems like shadows, crushed flutes, misregister, trapping issues and many others which are typical with the conventional printing technologies.

In Barberán Jetmaster printer, consumption of ink is drastically reduced without losing chroma. All our efforts have been focused to reduce printing costs keeping the highest printing quality.

BARBERAN S.A., founded in 1929, is a family owned enterprise that manufactures industrial surface finishing machinery.

We design and manufacture machines to improve productivity in manufacturing processes of the furniture, construction, decoration and **packaging industries**.

Our business is structured in 4 divisions: lamination, wrapping, lacquering and digital printing.

We develop **Single Pass digital printers** since 2007 around the world.

GRAY SCALE

With 360 dpi per color and 4 grey levels, the Barberán Jetmaster printer is capable to print really sharp images and texts with the accuracy of the thickness of a hair. UV inks and its drying process ensures also the correct size of each drop, by keeping ink in its place while printing and controlling dot expansion and color mixing.

OPTICAL PERFORMANCE

Due to the exceptional gloss and powerful Chroma of specially formulated inks, images printed on the Barberán Jetmaster give new sensations: deep blacks and shiny colors that make images vivid. A paradigm shift without high expenses on inks and tools.

BARBERÁN, over 10 years of development

- Speed up to 60 lineal meters per minute depending on the design to be printed.
- 360 dpi, 4 grey levels, DoD.
- No direct contact with substrates.
- Substrate length: min 600 mm max 3000mm.
- Suitable for all types of paper and flutes.
- With 6 colors it covers up to 90% of Pantone colors.
- High quality optical resolution even with lower grammage papers.
- Color management methods integrated in the industrial process.
- Visualized and controlled ink costs.
- Minimum maintenance and manpower costs.
- Automatic cleaning system.
- Variable data.

New sensations

Deep Blacks • Brilliant Colors

Just in time production

Flexibility & Speed • Reliability

CMYK + LC + LM or O + V

Light Magenta & Cyan or Orange & Violet
Soft Transitions • Powerful Chroma

A real change

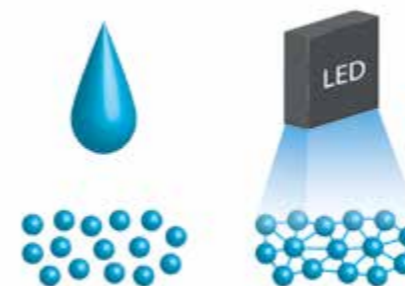
Low Consumption • Low Maintenance

UV low migration inks

For indirect food contact
It complies with: European Printing Ink Association (EUPIA), Swiss Ordinance RS817.023.21, Nestlé Guidance Note & European directives on packaging inks

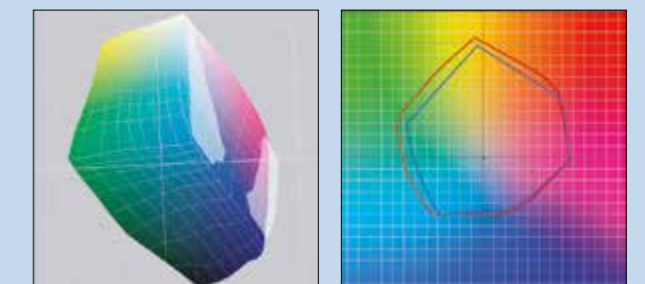
EXCLUSIVE PINNING TECHNOLOGY

Ensuring pinning of ink drops and enables a perfect control over the drop expansion & penetration.



CHROMA

Even comparing with standard photo profiles, color gamut of Jetmaster printer assures a wide range of possibilities. Inside color gamut, $dE < 3$ is achievable by using Jetmaster Calibration Tools supplied with the machine. Your team will be trained to use and understand these tools by the Jetmaster Team in our facilities in Castelldefels, (Barcelona) to explore all possibilities of the machine.





Property	Value
BDIP Version	5.10
Image	Crownier EB Gamma SP_V9_REAL_MATCH_3G_2014-07-30_17...
Sha1	f100013b03cb219c9c05568c6b417bf6740b9e91
File Version	3
Date	30/07/2014 17:41:24
Size[WxH]	5816 x 9603 (410.35x677.55 mm)
Dpi	360 x 360
Gray Scale	4 Levels 2 bits/pixel
Colors	4
Ink	
Yellow	0.1195 ml · 4.78 €/1000 - 0.43 ml/m ² - 0.02 €/m ²
Magenta	0.2655 ml · 10.62 €/1000 - 0.95 ml/m ² - 0.04 €/m ²
Cyan	0.0293 ml · 1.17 €/1000 - 0.11 ml/m ² - 0.00 €/m ²
Black	0.0519 ml · 2.08 €/1000 - 0.19 ml/m ² - 0.01 €/m ²
Total	0.4682 ml · 18.65 €/1000 - 1.68 ml/m ² - 0.07 €/m ²
Histogram	
Color Y L0	49175362
Color Y L1	5212714

*High flexibility with design, brand personalisation, differentiation and variability.
High print quality.
Small - Medium and large runs.
Reduced lead times and inventory.
Over 80% up-time.
Reduced waste cost.
Substrate cost savings.
And much more.*

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.

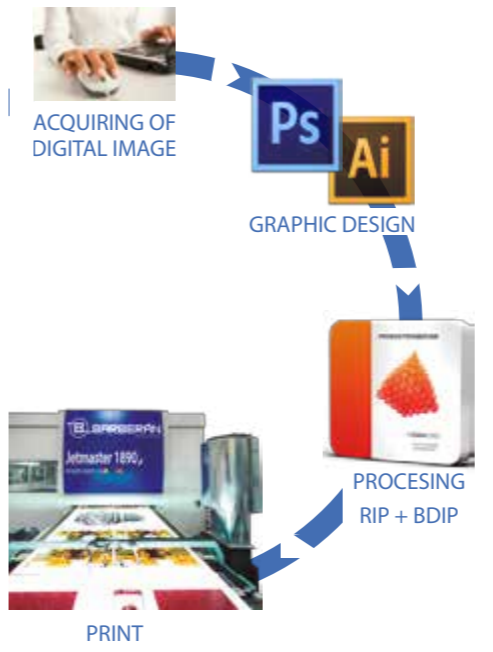
LESS IS MORE

Machine display shows immediately the cost of the designs to print, which will help you to control the production cost. All this at a lower cost per sqm. thanks to the elimination of the printing plates, heavy reduction in waste costs and downtime of the machine.



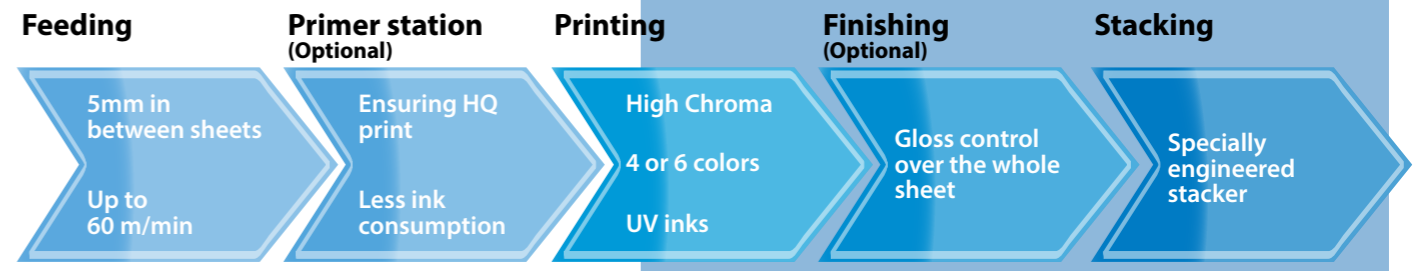
PRINTING PROCESS

The work process is simple. An operator uploads the digital images into the machine software and creates a work sequence in which they decide the number of pieces to print and with which designs.



DISPLAY PRINTING COMPARISON CHART

	Litho labeler	Pre-print	Direct to print	Jetmaster Series
Needs litho labels	yes	no	no	no labels
Needs print plates	no	yes	yes	no plates
Changeover with creative change	yes	yes	yes	no changeovers
Proof variance risk	yes	yes	yes	no variance
Final art to press	7-10 days	3-4 weeks	7-10 days	hours to press
Material waste	12-15 %	8-10 %	8-10 %	under 1% waste



JETMASTER 1680 VIDEO



JETMASTER 1890 VIDEO





←----- TOTAL LENGTH 22600 mm ----->

JETMASTER SERIES CORRUGATED MODELS

Max. Printing Width (W)	1260 mm	1680 mm	1890 mm
Machine's width	6100 mm	6700 mm	7100 mm
Substrate lenght	min 600 mm - max 3000 mm (optionally 5000)		
Substrate widht	400 -1350 mm	400 -1750 mm	400 -1950 mm
Printhead	360 dpi, 4 grey levels, DoD		
Twin feed	available	available	available

*Shown figures are for orientation purposes only.



APPROVED INKS SUPPLIERS



UV INKS BENEFITS

- UV inks are 100% solid
- Fast drying through a photochemical process
- Low migration inks for food market
- Fits all types of paper
- 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
- Easy deinking

BARBERÁN JETMASTER SERIES FOR OTHER APPLICATIONS

ROLL TO ROLL

A complete compact system for printing and finishing coil material. Suitable for paper finish foil or PVC (optional). UV finishing optional.

JETMASTER 350 VIDEO



FOREX PANELS

Digital printing line for coroplast, forex or correx panels. Suitable for signage industry.

JETMASTER 630 VIDEO



CORK PANELS

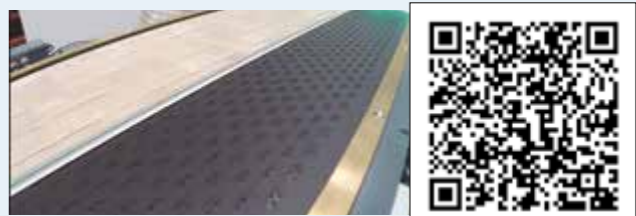
Single line prepared for cork panels which include primer application, digital printing and UV finishing for flooring and deco industry.



PVC PANELS

Specially designed to print PVC panels, the Jetmaster line includes the whole process in a solution with primer application, digital printing and UV finishing.

JETMASTER 420 VIDEO





JETMASTER CLOUD

Get the most of a centralized system to analyze the work data of your printing machine, from anywhere, anytime.

Make the best decisions in terms of production, costs and preventive maintenance, getting to know in depth the machine performance.

Through a web browser, you can view a detailed history on:

- **Productivity data:** printed meters, printed boards, production time, finished orders, printed images.
- **Production costs:** quantity of ink used in the production, purge done.
- **Incidents:** machine stops, alarms, advices, what to do in case of accidents.

The printing machine sends its running data, in an encrypted way, to a safe server in the cloud, managed by Barberán S.A.

This information is processed by the CMYK monitor software, developed by the Jetmaster team, its access is completely confidential.

The CLOUD technology allows you to get the information about your machine from anywhere, anytime, without additional costs of infrastructure and with a continuously updated software.

The information can also be downloaded to be used as raw data in your production system or be queried as a customized report.

We offer solutions since 1929.

Jetmaster Team

www.jetmasterseries.com



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