

Best Value. Best Velocity. Best Quality.



Super Wide at its Best.

Barak 8Q

The Barak 8Q highlights:

- High-definition 8-color POP printing
- PDS Parallel Drop Size Technology
- Easy & economical 4 to 8 color-switching
- Best production velocity - 353 m²/hr /3800 ft²/hr
- Hybrid printer with automatic rigid media loader (option)
- 300% better media utilization
- Fully automatic backlit printing (option)
- In-line finishing (option)

Best High-Definition Hybrid printer

With an unmatched Performance/Quality/Value ratio, the Barak 8Q is the first choice for all high-quality and high-performance applications. Combining 8-color printing with the patent-pending PDS technology, the Barak 8Q delivers unprecedented high-definition print quality. Top of Matan's Barak line, the Barak 8Q includes a unique package of value-added features and options, ensuring increased productivity, minimal waste, reduced labor and unrivaled ease of use, guaranteeing the highest and fastest ROI in the market.

High-definition 8-color POP & POS printing

- 8-color printing, combined with Matan's patent-pending PDS technology, for high-definition POP & POS print quality
- Smooth gradients and skin tones
- Vivid colors

PDS (Parallel Drop Size) technology

- Enables printing of small 20pl and 40pl in the same printing pass.
20pl drops enhance print quality with fine details and smooth images
40pl drops achieve ink coverage and density
- High production print velocity is maintained while achieving high definition print quality
- Ensures smooth gradients and skin tones, vivid colors and reduced graininess
- PDS is available in 4 and 8 colors



PDS Technology - small and large drops in the same pass.

Easy & economical 4 to 8-color switching

- Enables quick and easy switching between 4 and 8-color printing modes
- High versatility, enables spectrum of applications from POP to Billboards
- Quick ink switching time – only several minutes
- Minimal ink wastage
- Enables printing several job types during the same day

Software version 7

The Barak front-end software version 7 includes improved GUI and features that increase productivity & yield, such as:

- Media Saving Wizard
- Multi File Optimizer
- Resume Print
- Context Sensitive Help

Super Wide at its Best

Best Performance

- Unsurpassed high production velocity
 - Barak 5m – (16 ft) – up to 353 m²/hr (3800 ft²/hr)
 - Barak 3m – (11.4 ft) – up to 278 m²/hr (3000 ft²/hr)
- 8-color PDS high-definition printing
- Fast and simple 4 to 8-color switching with minimal ink wastage
- 600 dpi true resolution
- Up to 2 years outdoor durability with flexible 'Barak UV' inks

Best Versatility

- Roll-to-roll, including multi roll
- Flatbed option, with automatic loader & un-loader
- Supports a wide range of flexible and rigid media

Best Cost of Ownership

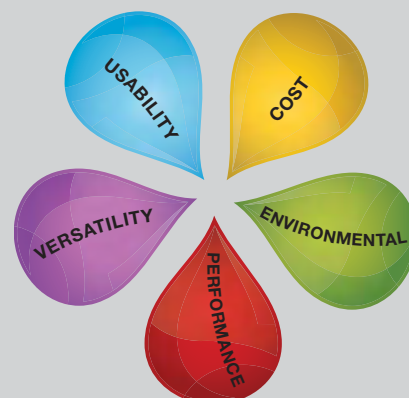
- 300% better media utilization
- Exceptionally low ink consumption – 180 m²/liter (1940 ft²/liter) on average*
- Media Saving Wizard – revolutionizes media stock management, eliminating media waste
- Supports low-cost recyclable media

Best Usability

- iPhone application for remote printer monitoring
- Mobile operator station with touch screen
- Single-operator loading system
- Carriage height adjustment and wrinkle analyzer
- Advanced front end features
 - Multi file optimizer
 - Resume print
 - Context Sensitive Help

Best Environmentally Friendly Solution

- Uses 'Barak UV' low odor 'Green' inks
- Eliminates exposure to hazardous fumes and expensive venting systems
- Supports a wide range of recyclable media, including PE
- Lowers environmental costs and minimizes waste disposal



Optional Value Added Features

Fully automatic backlit printing

- Automatically prints double-sided jobs with perfect alignment between both sides
- Camera-guided software algorithm is capable of detecting any misalignment between the two sides and automatically corrects registration for perfectly aligned double sided prints
- Simple and easy fully automatic system
- Ensures perfect registration between the two sides
- Eliminates the need for guesswork and manual manipulation
- Reduces required operator's skill level



Flatbed+

- Enables printing on a wide variety of rigid materials
- Edge-to-edge printing
- Quick switching from roll-to-roll to rigid printing
- Fully automated solution when integrated with the loader & un-loader



Automatic rigid media loader and un-loader

- Capable of feeding multiple units of rigid media
- Loads several rigid sheets from a magazine
- Controlled by a click of the mouse, totally eliminating the need for manual loading and collecting
- Increases flatbed production throughput
- Maximizes utilization of overall machine print time
- Available in several sizes, up to a full format of 330 x 250 cm (130" x 98")
- Enables printing on almost any rigid media in the industry
- Foldable for storage, saving floor space



In-line Finishing

- Includes easily adjustable slitters and roll-to-sheet cutter
- On-the-fly cutting enables printing and finishing on the printer
- Enables in-line finishing, saving valuable time at the finishing station
- Fast & accurate finishing
- Prevents finishing errors and increases yield



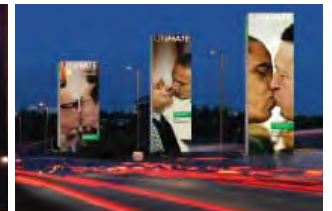
Wrinkle Analyzer

- Identifies wrinkles caused by media manufacturing and adjusts the carriage height accordingly
- Prevents ruined jobs
- Enables use of low cost media
- Protects print heads
- Measures media thickness



The Barak is your best choice for printing these winning applications:

- POP & POS • Indoor decoration • Backlit signs • Exhibition Graphics • Building Wraps • Billboards • Fleet graphics



Printing Technology	
Print heads:	Piezo drop-on-demand inkjet technology
Resolution:	True 600dpi, up to 1200dpi apparent
Ink:	'Barak UV' - pigmented UV-curable inks for up to 2-year outdoor durability
Jetting technology	PDS print technology – patent pending by Matan
Performance	
Throughput:	Barak 8Q, 5m - up to 353 m ² /hr (3800 ft ² /hr) Barak 8Q, 3m - up to 278 m ² /hr (3000 ft ² /hr)
Coverage:	Up to 180 m ² /liter (1940 ft ² /liter)*
Ink Tanks :	8 (C,M,Y,K,LC,LM,Y,LK)
Media	
Handling:	Roll-to-roll , multi-roll, freefall, Optional flatbed
Flexible media support:	PE polyethylene, PVC banner, SAV self adhesive vinyl, Paper, Mesh, Textiles, Blue back paper, Carpets, Synthetic paper, Tyvek, Yupo, Spiniker, Wallpaper, One-way vision, canvas, Coated and Uncoated media, Others
Rigid media support:	Foam PVC, acrylic, aluminum, foam board, glass, wood, Dibond, (up to 25 mm / 1" thick)
Max print width:	Barak 8Q, 5m - 500 cm (197") Barak 8Q, 3m - 350 cm (138")
Max media width:	Barak 8Q, 5m - 530 cm (209") Barak 8Q, 3m - 380 cm (150")
RIP	
Software:	Caldera RIP
File formats:	EPS, PS, TIFF, PDF, JPEG, etc.
Operating Conditions	
Operating Temperature:	20° C - 29° C (68° F - 85° F)
Humidity:	50% - 80% non-condensing
Air pressure:	6 bars (87 psi), airflow of 7 liters/sec., dry and clean air
Electricity:	230 V / 50 Hz / 3 phase 32 Amp, 12 KW printing consumption (18 KW peak)
Dimensions (L x W x H)	
Barak 8Q, 5m	820 cm x 135 cm x 210 cm (322" x 53" x 82")
Barak 8Q, 3m	670 cm x 135 cm x 210 cm (264" x 53" x 82")
Flatbed Dimensions	330 x 250 cm, 330 x 125 cm, 165 x 250 cm, 165 x 125 cm (130" x 98", 130" x 49", 65" x 98", 65" x 49")
Weight	
Barak 8Q, 5m	net: 5,870 kg (12,940 lbs) crated**: 6,370 kg (14,043 lbs)
Barak 8Q, 3m	net: 4,350 kg (11,794 lbs) crated**: 5,750 kg (12,676 lbs)

* Based on Matan's testing and average consumption at customers' sites.

** Crated weight may vary up to 300kg (660 lbs).

About Matan

Matan Digital Printers has been introducing innovative solutions to the world of digital printing for over 20 years. Headed by a group of leading print technology experts, Matan continues to deliver forefront digital printers and presses for a wide range of challenging industrial applications. Matan's broad range of products is aimed at three major printing segments:

- Super wide format
- Traffic signage
- Labels, tag, decals, membranes, license plates & sign printing

Our printing solutions allow users to enjoy excellent productivity, top quality output and high durability, while ensuring low cost of ownership.

A Long History of Innovation

Some of the first groundbreaking super-wide format printers that pioneered the large format digital printing industry were developed by Matan as of 1993 and were later sold to other companies and manufacturers. Such were the original Nur Outboard and Wideboard, as well as the original Scitex GrandJet.

Today Matan markets its innovative systems under its own brand and as OEM under the brand of FujiFilm.

More information about Matan Digital Printers is available on: www.matanprinters.com

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