

# Barak

## Experience the Benefits



[www.matanprinters.com](http://www.matanprinters.com)





Usability

Versatility

Environmental

Cost

Performance

## The Ultimate UV, Hybrid Super-wide Format Printer Barak family of products

Matan Digital Printers is proud to bring to the Super-wide Format market **3.5m** and **5m** wide UV inkjet printers. Leveraging its significant wide format digital printing experience and recognizing the impact of market changes to this industry, Matan has designed an easy-to-use, cost effective and environmentally friendly line of quality printers - the BARAK.

Through its unique combination of features and benefits, Barak enables you to create new revenue opportunities through fast turnaround, high-quality printing and low operating costs.

The Barak family includes both 3.5m and 5m wide UV-based printers. Printing at outstanding production speeds of **up to 316m<sup>2</sup>/hr – 3400 ft<sup>2</sup>/hr**, the Barak provides the ultimate solution for production of any super-size and high-quality application. It can easily handle a wide range of media, such as flex or self-adhesive vinyl, mesh, blue-back paper, backlit, flag, Tyvek and many more coated and uncoated media, as well as a wide range of 'green' recyclable media such as Polyethylene (PE) and others.

The Barak is the only 5m hybrid printer that handles both Roll-to-roll in addition to rigid substrates by using its patented switching mechanism and a Multi-Function Vacuum Table. With the combination of its Vacuum Table, pneumatic mesh rails and motorised heads-carriage adjustment, the Barak assures ultimate printing quality while maintaining high versatility. In addition, by using the Multi-roll option, you can work simultaneously on up to three rolls, to optimize your cost effectiveness and deliver the job on time. All Barak printers incorporate intuitive software with offline RIP, queuing of multiple jobs and instant loading of new jobs.

### Barak product line



Multi-roll Printing



Multi Flatbed Printing

### Barak applications



# Now you can win in a changing world

Barak's all-in-one solution delivers a new level of price performance and operational flexibility and allows you to experience the **UVPEC** benefits:

## Usability

- Simple and easy user interface
- Efficient and easy media handling with features such as pneumatic mesh rails, media tracking, auto media measurements and feeder motor
- Instant machine start-up
- Load file while printing, offline RIP
- Simple one man's operation
- Easy machine maintenance
- Automatically controlled hood for safety and protection

## Performance

- Fast production speeds:
  - Barak5** (5m - 16ft) – up to 316m<sup>2</sup>/hr - 3400ft<sup>2</sup>/hr
  - Barak3** (3.5m - 11.4ft) – up to 246m<sup>2</sup>/hr - 2648ft<sup>2</sup>/hr
- True 600dpi, 30-40 picoliter drop size
- Print POP and demanding applications with true 600dpi
- Offer up to 2-year durability with flexible 'Barak UV' inks
- Match almost any color standard with a wide color gamut

# UVPEC



## Versatility

- The only 5mt hybrid printer
- Quick changeover from Roll-to-roll to Flatbed
- High volume and top quality without ink switching
- Multi-Roll capability, simultaneously print up to 3 rolls
- Supporting a wide range of media for almost any application
- Print on a wide range of coated and uncoated media
- Support a wide range of 'green' environmental media
- Print on any size of rigid media up to 25mm (1") thickness

## Cost of Ownership:

- Outstanding throughput of up to 316m<sup>2</sup>/hr - 3400ft<sup>2</sup>/hr
- Up to 180m<sup>2</sup>/liter - 1940ft<sup>2</sup>/liter on average \*
- Competes with solvent ink consumption
- Enables use of low-cost, uncoated and 'green' recyclable media
- Low media waste – only 30cm when loading media
- Keeps your operating costs down with low total cost of ownership

## Environmentally Friendly

- Avoids exposure to hazardous fumes and expensive venting systems
- Lowers environmental costs and minimizes waste disposal
- Uses 'Barak UV' low odor inks
- 'Green' UV ink based
- Support a wide range of recyclable media

\* Based on Matan's testing and average consumption at customer's sites

# Barak

Star Benefits



## Barak Applications:

- Billboard
- Building Wraps
- Fabrics
- Backlit
- Fleet Graphics
- Point of Purchase

## 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

## Performance

- Throughput: **Barak5** - up to 316m<sup>2</sup>/hr - 3400ft<sup>2</sup>/hr  
**Barak3** - up to 246m<sup>2</sup>/hr - 2648ft<sup>2</sup>/hr
- Coverage: Up to 180m<sup>2</sup>/liter (1940ft<sup>2</sup>/liter)\*

## Media

- Handling: Roll-to-roll  
Special options: multi-roll, freetail, hybrid flatbed
- Flexible media support: Flex or self-adhesive vinyl, mesh, blue back paper, backlit, flag, Tyvek, PE, coated and uncoated media
- Rigid media support: Foam PVC, acrylic, aluminum, foam board (up to 25mm / 1" thick)
- Max. print width: **Barak5** - 5.0m (197") **Barak3** - 3.5m (138")
- Max. media width: **Barak5** - 5.3m (209") **Barak3** - 3.8m (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: 230V/50Hz/3 phase 32 Amp, 18KW consumption

\* Based on Matan's testing and average consumption at customer's sites

## Dimensions

<b>Barak5</b>		
Height x Width x Depth	2.1m x 8.2m x 1.2m	82" x 322" x 48"
Weight	5,300 kg	11,600 lbs

<b>Barak3</b>		
Height x Width x Depth	2.1m x 6.1m x 1.1m	82" x 240" x 43"
Weight	4,000 kg	9,000 lbs

## About Matan

Matan Digital Printers has been at the forefront of color digital printing technology for over a decade, offering unique solutions for demanding applications. Our experts specialize in the development, manufacture and marketing of state-of-the-art digital printers and presses, based on two environment friendly technologies – UV-curable inkjet and Thermal Transfer. Matan's printing solutions allow users to enjoy excellent productivity, top quality printing and high durability. Matan offers a broad range of products aimed at the following major printing segments: Super-wide Format, Tags, Labels and Tickets as well as Traffic and general signage markets.

More information about Matan Digital Printers is available on:  
[www.matanprinters.com](http://www.matanprinters.com) [www.barakUV.com](http://www.barakUV.com)

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