

Xaar Print Bar System



Transform your press, boost your business

The Xaar Print Bar System is an ideal solution for printing opaque white as an alternative to rotary screen or flexo whites, for short production runs, customised and variable data labels, vouchers, forms and packaging; for spot varnish to make print stand out from the crowd; and for adhesives for cold-blocking and foiling including hologram foils.

The Xaar Print Bar System is a high-precision engineered mono digital UV inkjet system which can add a range of value added embellishments to static labels on roll-to-roll presses and label converting machinery, enabling print service providers to easily and economically access the benefits of digital printing.

The unrivalled reliability, flexibility of options and exceptional print quality delivered by Xaar's TF Technology® make this print bar stand out from anything else on the market.

The Xaar Print Bar System is incredibly versatile and easy to configure. It prints fine reverse text, flawless barcodes, totally uniform solid areas, and high build effects through a multitude of Xaar 1002 printheads and approved ink combinations.

For over 25 years, Xaar has led the way in inkjet innovation. With state-of-the-art manufacturing facilities in Europe, Xaar exports its products to manufacturers all over the world.



The Xaar Print Bar System

Total flexibility

High productivity

Fast return on investment and low cost of ownership

Wide application range





The Xaar Print Bar System at a glance:

- ✓ High opacity white
- ✓ Spot varnish
- ✓ Cold foil effects
- ✓ High build effects
- ✓ Fine reverse text
- ✓ Flawless barcodes
- ✓ Totally uniform solid areas
- ✓ Short run, customised labels
- ✓ Monochrome print speeds up to 75 m/min



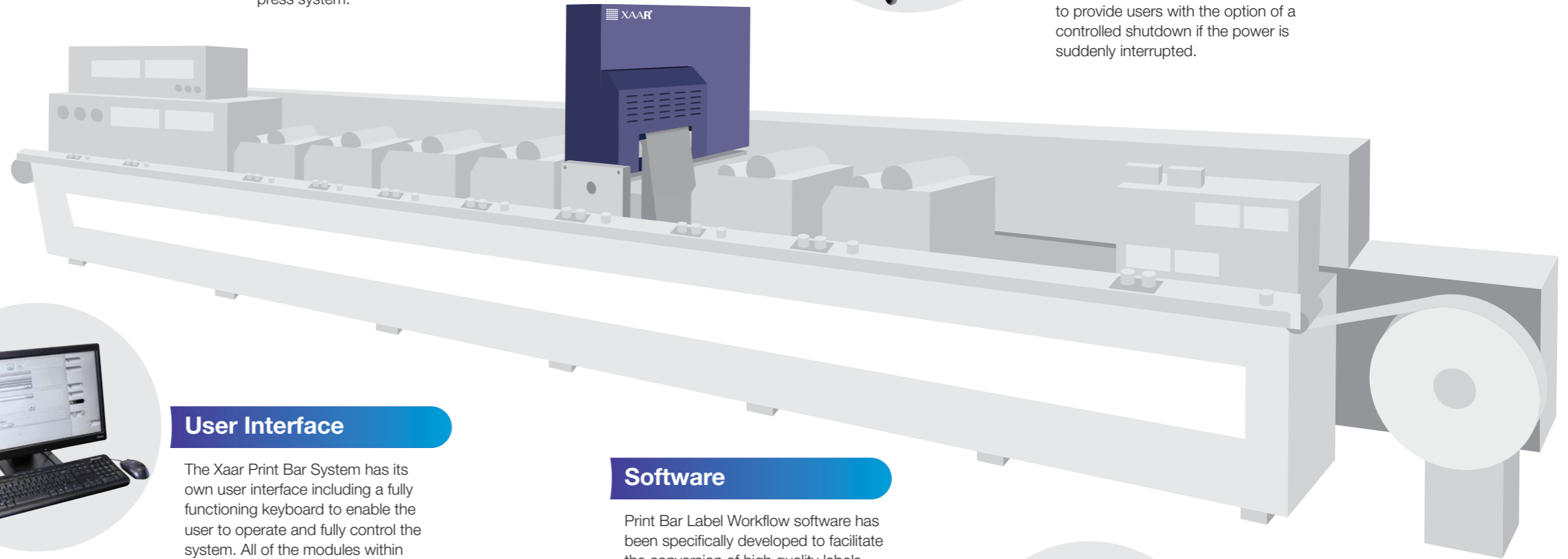
Xaar Printheads

The Xaar Print Bar System contains the Xaar printheads and acts as the print interface and as such is fitted directly onto the target press. It's robust construction makes the Xaar Print Bar System a valuable functional addition to your printing press system.



Control Cabinet

The Control Cabinet houses all of the control electronics for the Xaar Print Bar System including the computer and the Uninterruptable Power Supply to provide users with the option of a controlled shutdown if the power is suddenly interrupted.



User Interface

The Xaar Print Bar System has its own user interface including a fully functioning keyboard to enable the user to operate and fully control the system. All of the modules within the Xaar Print Bar System are linked together and communicate seamlessly with each other.

Software

Print Bar Label Workflow software has been specifically developed to facilitate the conversion of high quality labels into a format that the Xaar Print Bar System can process. The Label Workflow is based upon Adobe® PDF Print Engine and is a scalable, device – independent solution that automates label production through a range of intelligent productivity solutions. Features include die-line detection, PDF editing (RealPro Toolkit), PDF splitting, automated layout creation, detection of existing cutter, dynamic marks, colour management, barcode processing and much more besides.



Ink Supply System

The Ink Cabinet houses the ink receptacles, together with the ink control and monitoring system. This self-contained unit can be positioned in a floor-standing location close to the press to facilitate easy access for the operators to replace ink consumables.



Xaar Print Bar System

Total flexibility

- Available in a range of print widths from 140 mm up to 560 mm, with single and dual configurations with print speeds of up to 75 m/min
- Configurable for higher speed, higher laydown or multi-process applications
- Able to print fine detail, sharp text or graphics as well as flawless high-build solid areas and protective coatings
- Complete ready-to-use system with full print management and workflow solution enables full control of the print process, whatever your needs
- Designed to be easily integrated onto a wide range of web press designs and at any point on the press.

High productivity

- Xaar 1002 printheads with patented TF Technology®, as proven in many industrial applications, ensures unsurpassed print reliability and immediate startup
- Ability to match typical press run speeds for a variety of value-add finishing processes; greater than 75 linear meters/minute with 2-up Xaar Print Bar System
- No set-up requirements means that job changes can be made instantly at the touch of a button
- Instant ink cure using UV/LED lamps at high speed.

Fast return on investment and low cost of ownership

- High margin short run and variable data print jobs ensure fast payback
- Long-lasting industrial printheads and competitively priced systems and inks ensure low running and maintenance costs
- Eliminating high cost of screens or plates and print set up means that consumable costs and down time are minimised and no ink is wasted
- Efficient use of existing web transport and finishing systems on press.

Wide application range

- Suitable for personalised, short run or variable data printing in a range of applications including labels, tags, forms, packaging, tickets and more
- Can be used with a wide choice of fluids including black, colours for mono imprinting, protective lacquers, high build spot varnish, under- and over-whites, adhesives for cold foiling, together with many other special effects that can be created
- The Xaar Print Bar System can be fitted to a wide range of roll-to-roll presses from retro-fits, new builds or even as stand alone systems.

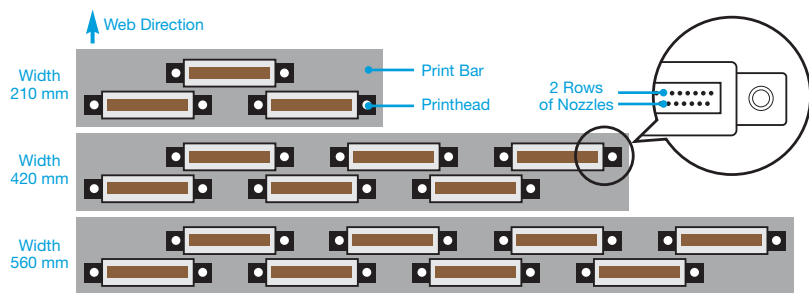
Technical Specifications

Feature	Specification
Print configuration	140 mm to 560 mm at 70 mm increments* (Three base models: 210 mm, 420 mm, 560 mm)
Resolution	360 dpi up to 720 dpi, greyscale
Speed	45 m/min (147 ft/min) with 1-up Xaar Print Bar System 75 m/min (246 ft/min) with 2-up Xaar Print Bar System
Printheads	Xaar 1002 (Choice of Xaar 1002 GS6, GS12 or GS40) (Printheads: Selection dependent upon application)
Colour	Single colour UV per Print Bar
Approved inks/fluids	Black, White, Varnish, Adhesives or Spot Colour (5 kg cubitainers)
Substrates	Optimised for coated/uncoated paper, plastic films (PE, PP, PET) and foil
Ink supply system	Recirculating system with vacuum meniscus control
Software	TIFF catcher Xaar Workflow Software (Option)
Digital front end	TIFF drop folder through Full Variable Data Print RIP (Option)
Pinning/Curing	UV LED. Air and Water cooled (Option)
Power requirements	Single phase 230V 16A**
Dimensions: Print Bar System	1330 mm x 500 mm x 820 mm (L x W x H)
Dimensions: System Control Cabinet	800 mm x 595 mm x 915 mm (L x W x H)
Dimensions: Ink Supply System	530 mm x 270 mm x 350 mm (L x W x H)

* Please see Print Width Specification table ** Not including UV/Chiller options

Print Width Specifications

No. of Printheads	Theoretical P/H Width (mm)	Theoretical P/H Width (inches)	Actual Print Image Width (mm)	Actual Print Image Width (inches)
2	140	5.51181	139.7	5.5
3	210	8.26772	205	8
5	350	13.7795	330.2	13
6	420	16.5354	406.4	16
7	490	19.2913	482.6	19
8	560	22.0472	545	21.46



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