

GRAPHIUM[®]
PRINTBAR



INCREASING THE PROFIT MARGIN
ON EVERY LABEL YOU PRODUCE

Distributed by:
FUJIFILM
Value from Innovation

OVERVIEW

Cost effective print embellishment

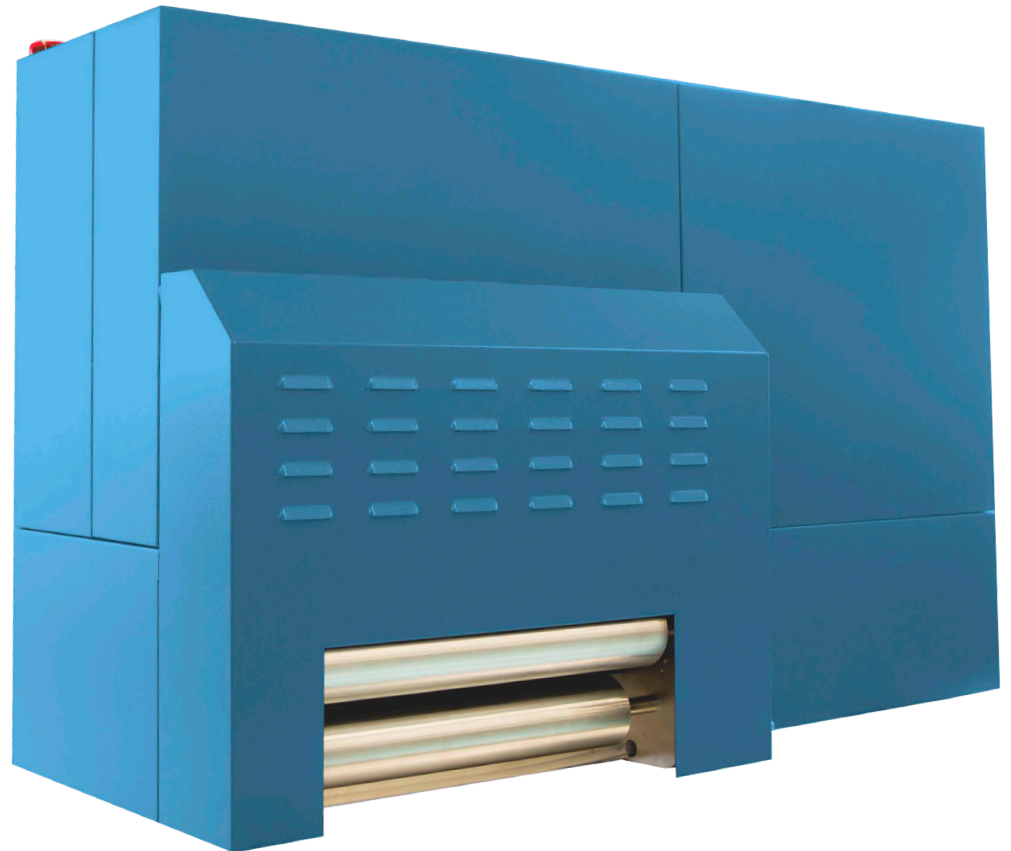
Embellishments provide the added value that bring labels to life. With a Graphium Printbar, you gain a digital embellishment capability that will boost profit margins and provide a competitive edge for brand conscious designs.

The Graphium Printbar is a complete high-precision solution for adding single pass UV digital inkjet to your continuous feed press. Designed to sit on roll-to-roll presses, it presents the benefits of digital printing easily and economically.

Using the industrially-proven Xaar 1003 family of printheads, the Graphium Printbar is incredibly versatile and easy to configure. It prints high opacity white, fine reverse text, flawless barcodes, totally uniform solid areas, and the possibility for deep pile-height special effects. With the Graphium Printbar, print providers can deliver these value-added services without the cost, time and effort required to create new plates or screens, eliminating press make ready time.

Graphium Printbar can be easily retro-fitted to existing analog presses or designed into new presses to benefit from traditional inline finishing capabilities, or even used as a standalone print solution.

A Graphium Printbar solution delivers high profit margins on short run jobs through a range of value adding digital embellishment – spot varnish, rotary screen white replacement, variable data, versioning and haptic effects



Advantage

- Zero make ready
- Total flexibility
- High productivity
- Fast return on investment
- Low cost of ownership
- Wide application range

Complete solution

- Workflow software
- Printbar
- Ink supply system
- UV curing unit
- Rail mounted housing and assembly

Capability

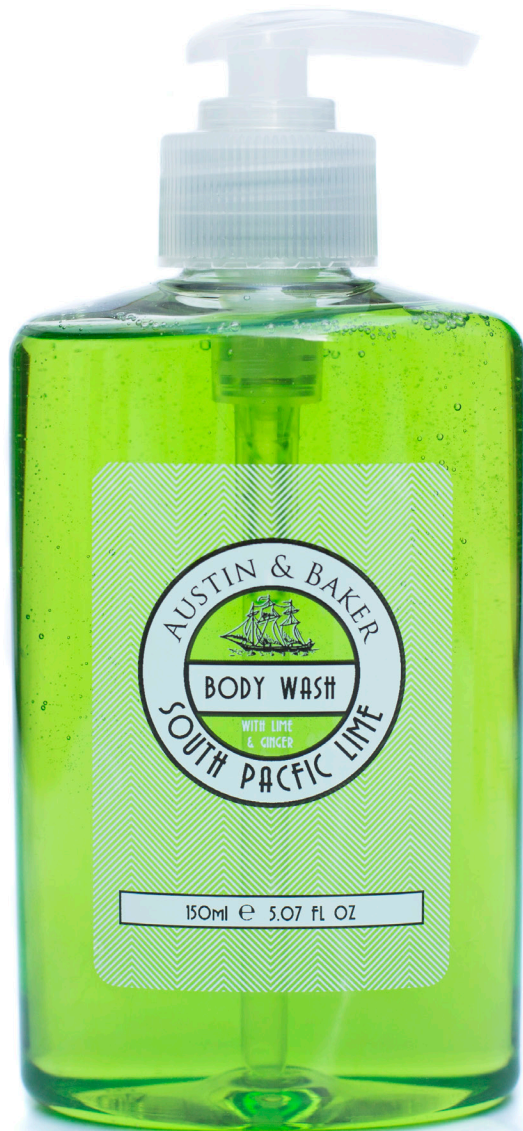
- High opacity white
- Varnish
- Textures
- Imprinting
- Tactile effects
- Mass customization
- Fine reverse text
- Flawless barcodes
- Totally uniform solid areas
- Customized VDP labels

EMBRACE HYBRID LABEL PRODUCTION

Finishing and embellishments provide the added value that brings labels to life. Creativity and innovation in this area can mean the difference between success or failure for a brand marketing campaign. Suitable for personalized, short run or variable data printing in a range of applications – labels, tags, forms, packaging, tickets and more – Graphium Printbar can be used with a wide choice of fluids to add stunning effects and help you win new business with brands.

High opacity
digital white,
rotary screen
replacement

Rotary screens are costly and time consuming to set up. With Graphium Printbar you can use a rotary silk screen alternative that delivers the same quality and opacity, faster with reduced waste.





Boost margins
and productivity
with digital haptic
effects

A wide array of tactile effects and textures can be applied to labels to boost your ROI and productivity. Emulation of custom or specialized media can reduce costs, while tactile effects can be produced more efficiently.



High speed
variable data
imprinting

Cost effectively add high density variable data black overprinting to a variety of narrow web flexo presses at real production speeds.

DIGITAL INK

World-leading UV inkjet ink

A key factor in the growth of inkjet for wide format, packaging and industrial applications has been the ability to print with UV cured inks. This is a technology that was pioneered by Fujifilm in 1999, and one in which the company is an acknowledged world leader. Thanks to over sixty years of experience in ink design and development, Fujifilm also has expertise in designing UV inks for narrow web applications. The combination of these skills means Fujifilm is uniquely placed to develop world-leading UV cured ink for high speed digital label production.

Designing high performance UV cured inkjet inks

UV cured inks offer many advantages over traditional drying methods. In particular, UV cured inks are more resistant to physical and chemical attack, making them highly durable and superior to toner based digital printing systems. Like all the inks the company produces, Fujifilm has carefully blended a range of cosmetic, functional and operational properties to produce formulations that meet the needs of high speed digital label production.

High quality, vibrant colors with excellent application properties

Fujifilm Uvijet Graphium inks are designed to allow long runs of high quality labels and self-adhesive decals to be printed with excellent adhesion, resistance and durability. Achieved by careful management of the complex interaction between printhead, inks, UV curing components and overall system design.

In addition to the vibrant colors, Uvijet Graphium inks also include an ultra-opaque white that can be printed at high speeds, setting a performance standard for digital label production that surpasses other digital technologies.

Summary of benefits

- ▶ Suitable for a wide range of applications
- ▶ Capable of printing multiple ink densities which match the quality and typical production speed of existing analog equipment
- ▶ Excellent adhesion to a wide range of substrates
- ▶ High strength pigmentation with wide color gamut
- ▶ High opacity white for background printing and fine detail with one hit of ink
- ▶ Market leading inter-compatibility and adhesion while overprinting a wide range of traditional UV inks without need of an over printable varnish
- ▶ Compatible with typical finishing processes



HIGH LAY
DOWN



EXCELLENT
ADHESION



LIGHT
FASTNESS



WET
RESISTANCE



DURABILITY



FLEXIBILITY

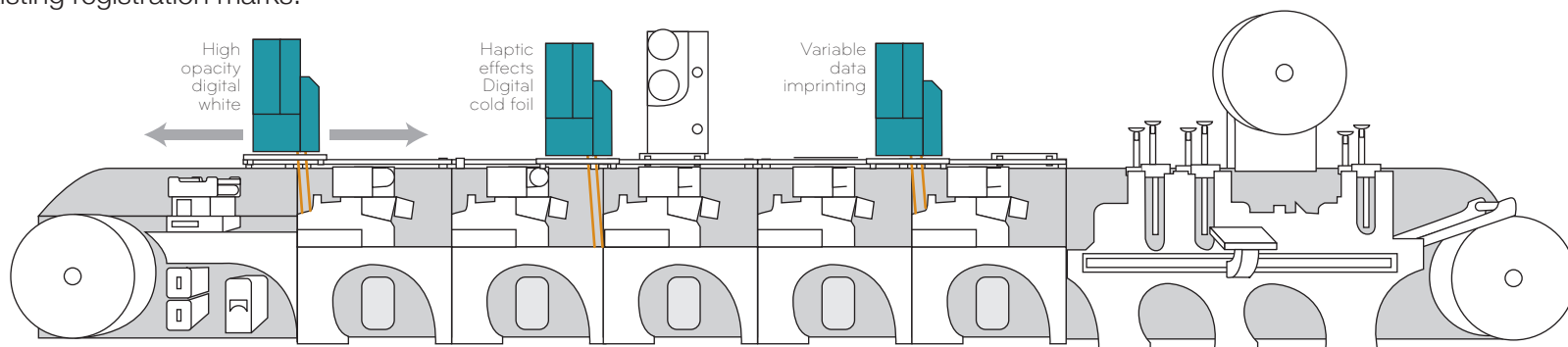
FLEXIBLE INTEGRATION OPTIONS

Configure your Graphium Printbar for your target applications

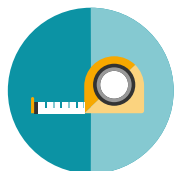
Available in print widths from 330mm (13") and 410mm (16"), single or dual configurations, A Graphium Printbar can run at speeds of up to 75m/min (246 feet/min) as standard. Configurable for higher speed, higher laydown or multi-process applications, such as foiling.

Graphium Printbar integrates into your existing press in the same way that a rail mounted rotary screen unit or inspection system would. This allows the unit to be mounted to a wide variety of equipment and moved into different positions on the press. The system features its own encoder to track and adjust to press speed and can synchronize to a pulse signal or simply use your existing registration marks.

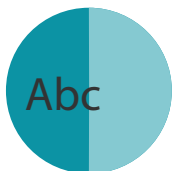
- Integrate seamlessly onto new installations
- Retrofit onto existing installations
- Position your Graphium Printbar anywhere along your web system to best suit customer requirements



CAPABILITIES AT A GLANCE



Print width
Up to 410mm
(16")



Haptic effects
High Ink lay
down



DFE
3rd party
workflow
integration



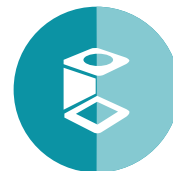
Fluids
UV curable
white, adhesives,
varnish & spot



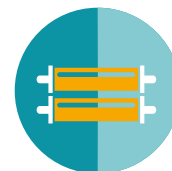
Print heads
Single or
double
configuration



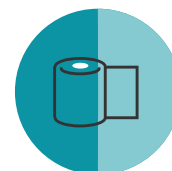
Speed
Up to 246
feet/min



Print quality
360dpi to
720dpi with 8
levels of grey



**Substrate
thickness**
From 40µm
up to 250µm



**Substrate
type**
Optimized for
paper, PP,
PE, PET and
metalized
material

TECHNICAL SPECIFICATION

KEY FEATURES	FUNCTION
Speed	Up to 75m m/min (246 f/min)
Print width	330mm (13") or 410mm (16")
DPI/Print quality	360 dpi up to 720 dpi, 8 grey levels - 6pl or 12pl min drop, application dependent
Ink/color	Single or double hit of one fluid
Print heads	Xaar 1003
Approved fluids	UV curable white, black, adhesives, varnish, spot colors & more
Substrates	
Type	Optimized for coated/uncoated paper, supported/unsupported film (PP, PE, PET)
Minimum thickness	and foil 40µm
Maximum thickness	400µm
Ink supply system	Recirculating system
HMI/DFE	TIFF catcher DFE workflow and jobs database. Suitable for integration to wide variety of digital workflow systems including Esko Automation engine and Graphium Label Workflow
Dynamic sync technology	Provides synchronization to analogue with dynamic adjustment of digital image size to ensure fit to analogue repeat length

LEARN MORE ONLINE

To learn more about the Graphium Printbar, you can either contact your local sales rep with the contact information at the bottom of this page, or check out our extensive online content. Visit www.fujifilminkjet.com for more information.



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