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# WELCOME Page

## It's show time...again

This time last year we were reeling from the effects of the 'Beast from the East' but it's pretty benign (if rather wet and windy) as we go to press with our special show issue to help you prepare for your visit to Sign & Digital UK 2019.

Three weeks earlier than last year, the event promises regular exhibitors and features along with many new faces, businesses and brands to discover. Live demonstrations, practical workshops and seminars will highlight the theme: The Face of Innovation with Sahar Hashemi, entrepreneur and co-founder of Coffee Republic delivering an inspiring keynote talk on how 'anyone can do it' when it comes to awakening the entrepreneur within.

Features this month include Sheet materials, Laser engraving and UV printing, while the Toolbox deals with the challenges of cutting aluminium.

In the next issue look out for features on Digital printers and signage alongside our regular news and updates.

See you at SDUK in April.

Editor

Sue Deane



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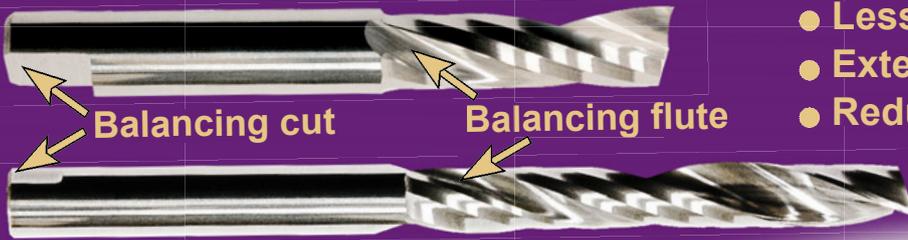
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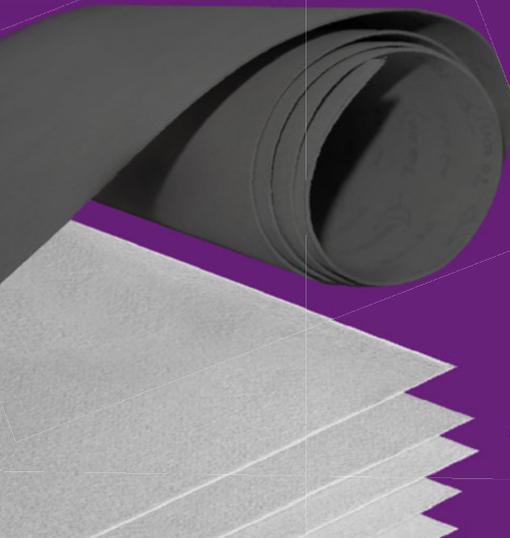
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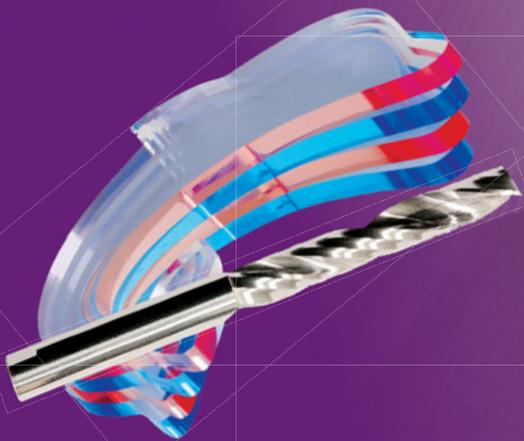


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## AC tools

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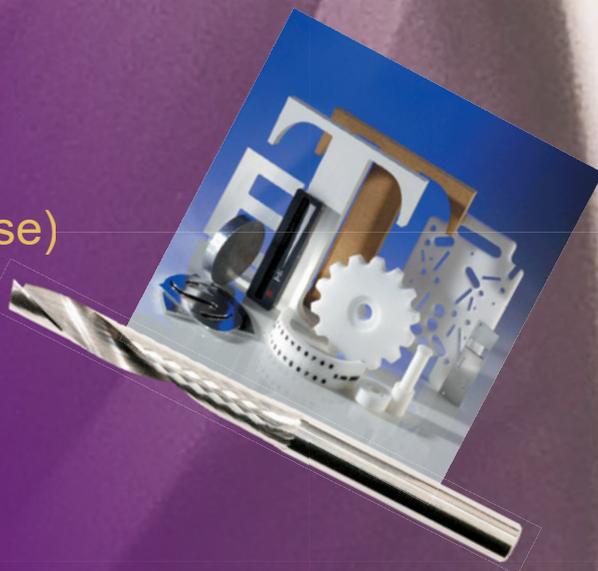
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## Print film wrap works on challenging surfaces and deeper curves

Sanctioned for 3D applications, the full set of 3M Print Wrap Film Series IJ180mC is offered by William Smith and suitable for even more of the most challenging shapes and even deeper curves.

The films all have optimised initial tack, non-visible Comply adhesive, fine-tuned 'slideability' and easier liner release, allowing for faster installs to recesses, curved surfaces, corrugations and rivets, without snapping back.

While IJ180mC-10, IJ180mC-114 and IJ180mC-120 are all excellent 3D conformable vehicle and boat wrap cast vinyl films, each have their own individual finish. Printable white wrapping film IJ180mC-10 has high opacity for excellent finishing that installs incredibly fast, while printable transparent wrapping film IJ180mC-114 allows you to mix printed images with clear areas to create unique designs. IJ180mC-120 is the first 3D printable metallic wrap film that can create an attention-grabbing effect.

IJ180-10SLS not only serves as a great vehicle and boat wrap but has the added strength to adhere to stainless steel vehicles including tankers, refrigerated trucks and food trucks.

When facing difficult low surface energy substrates such as caravans, all-terrain



*All films in the Series allow faster installs to recesses, curved surfaces, corrugations and rivets without snapping back.*

vehicles, motocross bikes and snowmobiles, print wrap film IJ180mC-10LSE can be applied. The ultra-removable film IJ180mC-10UR is good for short-term promotional graphics as its adhesive removes cleanly without heat or chemicals, making it suitable for even film on film applications.

Chris Bradley, head of marketing at William Smith comments: "As vehicle wrappers call more and more for print

wrap films with enhanced 3D functionality, the news that the range can be applied to even deeper recesses is sure to be welcomed by the industry.

With each of the cast vinyl films in the IJ180mC Series offering their own unique properties, customers have more 3D-conformable options for every preference, style and application than ever before."

[www.williamsmith.co.uk](http://www.williamsmith.co.uk)

## LED module lights up hard to reach corners within small channel letters

Perspex Distribution has announced availability of its smallest LED module, the BaltLED Crown Mini, offering illumination in channel letters only 20mm deep.

With a module width of only 7.5mm, the Crown Mini is one of the smallest LED modules on the market and particularly effective for signmakers seeking to illuminate hard to reach corners within small channel letters.

Developed with customer ease in mind, the module is supplied with a special packaging card and rotating application, ensuring it can be unrolled quickly and easily and without the risk of tangled wires.



*A memory wire is connected to the modules, enabling the installer to form the precise shape without fear of the wires bending out.*

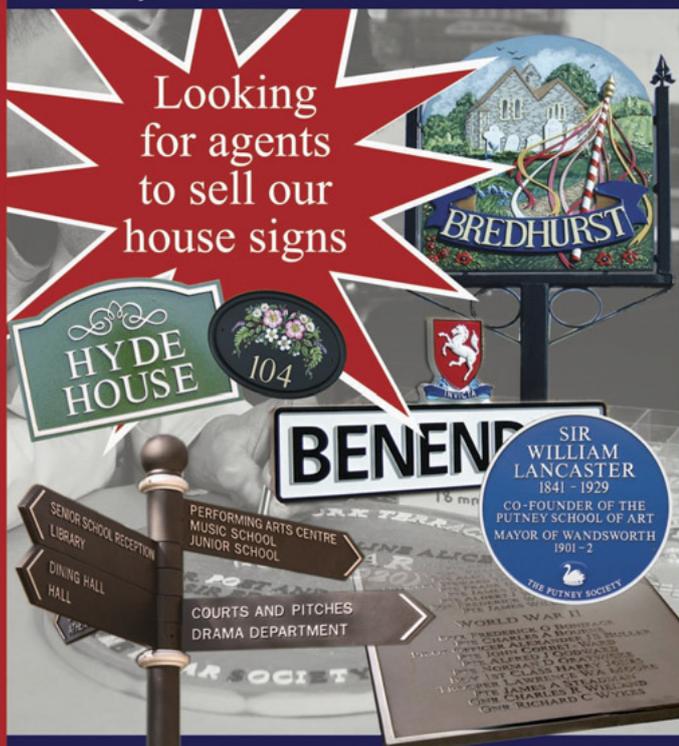
A memory wire is connected to the modules, enabling the installer to form the precise shape without risk of the wires bending out.

Following the announcement of a new partnership with European based LED manufacturers BaltLED last year, the Crown Mini module is Perspex Distribution's first new addition to its comprehensive range of BaltLED solutions. Perspex Distribution supports signmakers with a comprehensive layout service, ensuring the most cost effective modules are specified for the project.

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## Self-adhesive transparent window fabric sticks well, removes easily

Architextural, part of William Smith Group 1832, is now the chosen UK supplier of a "revolutionary" self-adhesive window fabric. Squid is the "first transparent fabric that acts as a self-adhesive curtain" and a popular non-PVC alternative to traditional decorative window films.

Increasingly popular with interior designers and architects, this window solution offers a five-year durability and helps to retain privacy while permitting natural light. Its texture offers a realistic feel and minimalistic design.

The moisture resistant 300-micron woven fabric is available in Chalk, Bone, Oak, Ash, Rock and the newly-launched Coal, providing countless glass design possibilities for commercial interiors in offices, retail or healthcare sectors.

Quick and easy to install, the fabric can be applied directly onto glass surfaces. Suitable for any type and shape of window, Squid sticks to glass indefinitely but can be removed effortlessly without leaving unsightly glue residue. Ideal for digital printing, the high quality fabric can be used with UV and eco-solvent printers providing new commercial and marketing opportunities. The breathable fabric can



*Quick and easy to install, the fabric can be applied directly onto glass surfaces.*

deflect 25-36% of the sun's energy, depending on the colour, reducing solar heat gain during summer months.

Marketing manager Lindsay Appleton says: "It's incredibly exciting to be able to announce the addition of Squid to our portfolio. This textile window solution is a

fantastic alternative to traditional PVC or polyester window films. It presents substantial commercial possibilities. With the ability to print designs onto the fabric and change the ambience of any interior space, the possibilities are truly limitless."

[www.architextural.co.uk](http://www.architextural.co.uk)

## Replacement vinyl cutting blades available in UK



*Roland, Graphtec, Mimaki, Summa, Mutoh, GCC and Ioline compatible blades can now be ordered from stock.*

Somerset-based Decoration Technology has been appointed UK distributor for Clean Cut Blades of Iowa, USA, which manufactures high quality replacement blades for vinyl cutting machines and plotters. With a "strong following in the states", customers say they can cut finer detail with Clean Cut Blades and they "outlast the life of the originals".

To ensure consistency the company only uses US-made high grade carbide rods which have been supplied by the same manufacturer for many years.

The blank rods go through an intense five-stage diamond grinding process before being micro-polished to form a razor sharp edge with a warning sticker instructing the user to reduce the cutting force of the machine by 50%. Every blade is quality checked using an optical comparator.

If a defect is found, no matter how small, it's rejected and discarded. Clean Cut guarantees that every blade that leaves the factory is in perfect condition and ready for service.

Previously, Clean Cut Blades could only be ordered direct from the US factory which meant high shipping costs and a long wait for delivery.

"Roland, Graphtec, Mimaki, Summa, Mutoh, GCC and Ioline compatible blades can now be ordered from stock at much keener prices than OE blades and delivered in 1-3 days," comments associate Rob Smith.

The full range of Clean Cut Blades to fit your machine along with a 'buy 4 and pay for 3' promotion can be viewed online.

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



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## Flatbed printer series for mid-volume sign makers helps boost production efficiency

Canon UK has launched the Océ Arizona 1300 flatbed printer series for mid-volume sign and display graphics producers, with the aim of helping customers to increase production efficiencies and address market demand for more varied applications.

Suited for customers producing up to 15,000m<sup>2</sup> per year and offering printing speeds up to 52.8m<sup>2</sup> per hour, the Series comprises six models, all designed from the ground up for optimum ease of use and reliability.

Customers can choose from three GT models with a flatbed area of 1.25m x 2.5m or three larger 2.5m x 3.08m XT models. This series has been developed to meet the needs of customers who are ready to upgrade their first flatbed or hybrid printer and are looking for a more productive, high quality product built for maximum uptime, while seeking the versatility to handle an even broader range of media for diverse applications.

To maximise productive uptime, the Arizona 1300 printers are the first Océ flatbed products to feature LED curing options, offering customers the scope to print as



*The new series has been developed to meet the needs of customers seeking the versatility to handle an even broader range of media for diverse applications.*

“With this tool, customers can better monitor ink consumption and print volumes, enabling them to receive customised service contracts based on their individual business requirements”

needed from standby mode without waiting for UV lamps to heat up.

The series introduces Océ Arizona Xpert, a software solution that simplifies and automates complex jobs including multi-layered and duplex applications so that print files are ready in an instant.

The intuitive software stores the print-ready file, enabling similar future jobs to be prepared more quickly and easily by the customer time after time for long-term production efficiencies. In addition, the new devices are the first Canon flatbed products to include Océ Remote Service for maximum uptime and ongoing technical support.

With this tool, customers can better monitor ink consumption and print volumes, enabling them to receive customised service contracts based on their individual business requirements.

The LED curing technology of the Océ Arizona 1300 Series offers PSPs the opportunity to work with an even broader range of applications on almost any rigid or flexible media and when handling challenging media including canvas, wood, tile or glass.

The LED-UV inks used with the new models are UL GREENGUARD Gold certified; prints can be used safely in sensitive indoor environments including schools, hospitals or retail environments.

Canon says it is the only digital flatbed technology provider that now offers both conventional and LED curing solutions, giving customers a printer for nearly every application need.

With optional light cyan (LC), light magenta (LM), varnish and white inks, as well as enhanced screening, the new flatbed devices enable customers to produce higher value work, delivering superior print quality even for photographic and fine art applications.

For customers looking to differentiate their product offering, the Océ Arizona 1300 Series can be used with the Océ Touchstone textured printing solution which enables the production of enhanced prints with textured effects; the machine has an additional Roll Media Option to handle flexible media while optimising production.

[www.canon.co.uk](http://www.canon.co.uk)



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## Free colour match app for multi-brand swatches with 'click to buy' option

Spandex has created a free app that gives customers access to digital colour swatches for thousands of colours from leading materials brands at the touch of a button, with a 'click to buy' option.

Available in seven languages and tailored to the specific product portfolio of each national sales office, the ColorBox app features all of Spandex's industry leading brands including 3M, Avery Dennison, ORAFOL and ImagePerfect. Products are searchable by range, colour, product number, name or application.

In addition, the app provides customers with easy access to product information and technical data sheets and connects directly to the Spandex online store where you can find more information about the chosen product or range.

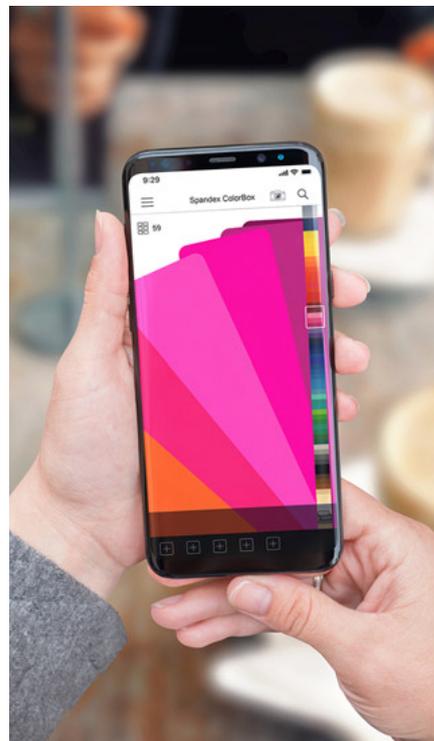
ColorBox offers customers a colour match feature, enabling the user to photograph a colour and use the app to find the closest colour match within Spandex's range of vinyls. The Spandex ColorBox app is completely free of charge, allowing customers to benefit from its full potential without in-app purchases.

General manager Leon Watson comments: "The Spandex ColorBox app is a valuable business tool for signmakers, graphics producers and wrappers, effectively enabling them to carry the full Spandex range of brand swatches in their pocket, making it easier than ever to support conversations with customers about media selection.

"The range of coloured vinyls is expanding continuously and physical swatches quickly become outdated, while the Spandex ColorBox app will be updated monthly to ensure it reflects the very latest product portfolio. Instant access to product specifications will help customers confidently choose media that is fit for purpose and with 'click to buy' access to the Spandex online shop, we are offering our busy customers unique functionality that will help to minimise the time they spend selecting and buying vinyl products."

The Spandex ColorBox app can be easily downloaded free of charge from both the Apple and Android app stores.

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



*The free ColorBox app features all of Spandex's industry leading brands.*

## Printable PVC cast film slides on to ensure correct positioning



*Slide & Tack products guarantee easy and 30% faster application.*

Slide & Tack by Ritrama is said to be an innovative printable PVC cast film for the decoration of any type of vehicles.

Thanks to its special composition, even non-professionals can easily and quickly customise any type of car and vehicle. With low initial adhesion, Slide & Tack literally 'slides' on the surface to be customised, thus facilitating correct positioning and accelerating application.

It is only during application that the adhesive is activated, reaching optimal adhesion within 24 hours. Ritrama says its Slide & Tack products guarantee easy and 30% faster application saving a considerable amount of time compared with traditional materials.

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## Wipe-Erase films easy to apply and remove without loss of adhesion

Drytac has announced global availability of two additions to its WipeErase range of films. ReTac WipeErase and WipeErase White are both designed to be written on with standard dry-erase markers to create a whiteboard anywhere - a practical solution for environments including schools, universities, offices, hospitals and retail stores.

In addition, their anti-graffiti properties allow for easy removal of permanent markers, while they can both be branded or decorated using UV printing technology.

ReTac WipeErase is a 6 mil (150 micron) white dry-erase film coated with a scratch- and stain-resistant lacquer that is guaranteed for up to 10 years.

The film is easy to handle, can be applied to a smooth surface and taken down and repositioned with no loss of adhesion and leaving no residue, thanks to its integrated ReTac Permanently Peelable Adhesive. Unlike a whiteboard, it won't suffer from ink staining or ghosting.

Global product manager Shaun Holdom comments: "ReTac WipeErase is ideal as a replacement for whiteboards and flip charts where sheets can be moved around to help with visualising and planning and then taken away for future use. It essentially provides an 'A-frame whiteboard in a tube'.

"This product is hugely beneficial in a retail environment where messages need to be moved around the store relevant to specific product ranges."

ReTac WipeErase topped the Laminates, Adhesives, Films, Coatings category in the SGIA Product of the Year awards in 2018 and recognised "the most exciting products to be showcased" at the event, selected by knowledgeable industry professionals. WipeErase White has a permanent adhesive for locations where the signage will not need to be moved such as wall coverings, restaurant menus and whiteboards. It is a 6 mil (150 micron) film with excellent durability and scratch resistance.

"The WipeErase White film incorporates Drytac's adhesive expertise to deliver a product that is very easy to apply, yet remains firmly intact for many years,"



*Easy to handle, this film can be applied to a smooth surface and taken down and repositioned with no loss of adhesion and leaving no residue.*

explains Shaun. "When it is time to remove or replace the film it will leave no residue and the area can have new media applied to it immediately."

In addition to offering 'a whiteboard in a roll' both ReTac WipeErase and WipeErase White can be used to resurface existing whiteboards to give them a new lease of life.

"Whiteboards often suffer from 'ghosting', making them look grey and shaded," explains Shaun. "In time, the pens used on these boards scratch the surface and when rubbed off leave a very faint impression of previous writing.

"Once this has happened, there is no way of repairing the whiteboard itself and so the ghosting needs to be put up with, or the board replaced.

"A sheet of one of our WipeErase products applied to a whiteboard essentially makes it as good as new and is considerably cheaper than replacing it. Do this across a whole organisation and the savings could be huge."

[www.drytac.co.uk](http://www.drytac.co.uk)

"When it is time to remove or replace the film it will leave no residue and the area can have new media applied to it immediately"



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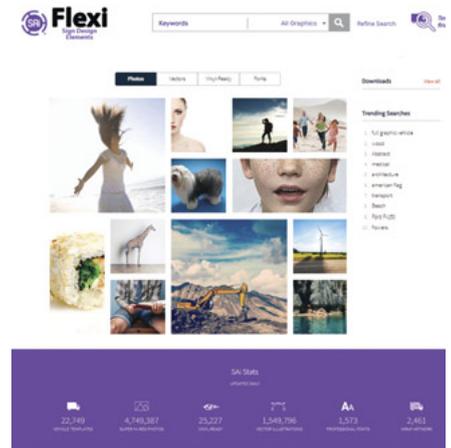
Reflecting its continued commitment to provide customers with added value offerings that improve the way they work, SAi has launched a comprehensive stock library of over 6.5 million downloadable assets for the sign industry.

Available to customers accessing SAi software on subscription, Sign Design Elements comprises an ever-expanding collection of high resolution images, logos, fonts, cut-ready vector illustrations, vehicle outlines and wraps and metallic-ready files. With nearly 23,000 templates alone for global car and truck makes and models, the new portal is expected to prove particularly beneficial to those for whom vehicle wraps is a key application area. SAi Flexi software subscribers benefit from five free-of-charge downloads

each month, with the opportunity to obtain 100 more images or templates for £10 per month via simple subscription add-on. The service is available to those on both annual and monthly plans and easily accessible from the user's SAi Cloud window.

"Sign Design Elements responds to the specific needs of sign businesses that increasingly require high quality images and graphic elements," says vice president Annette Plummer. "This offering makes it easy for such users to quickly locate and download exactly what they need from one location directly from their SAi software, saving precious time and maintaining throughput."

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



*Sign Design Elements grants subscribers quick and easy access to millions of images, graphics and templates.*

# Fluorescent, reflective safety chevron kits

You see Chapter 8 kits everywhere - the fluorescent and reflective chevrons on the rear of works vehicles on highways throughout the UK, designed to improve the safety of workforces on highways and other road users. Some of the kits you see have come from Victory Design.

The company already stocked fluorescent and reflective vinyl to supply on the roll for customers to produce general signage so the decision to take this one step further

was fairly simple," says sales director Justin Hines.

Available for any make and model of vehicle, the markings are produced by Victory using reflective and fluorescent self-adhesive vinyl from leading manufacturers including 3M, Avery and Nikkalite. Each kit is made up from red reflective and fluorescent yellow materials and cut using the latest flatbed technology (the 3M Diamond Grade needs to be cut

with a good oscillating blade, otherwise the individual cells are damaged) to fit each vehicle specifically.

Victory Design offers four kit types: the standard has strips of fluorescent and reflective cut to shape to fit the vehicle; flooded has full pieces of fluorescent yellow with red reflective strips supplied separately to be applied; flooded applied is supplied as large fluorescent panels with the strips of red reflective already applied; and magnetic has all the fluorescent and reflective ready applied to magnetic panels so you can remove the kit from the vehicle whenever you want.

There are no specialist tools required to prepare the surface of the vehicle; squeegees and masking tape or magnets for holding the pieces in place during application. Victory Design supplies each kit with an easy to follow plan showing where each panel should be applied.

"That's not to say we didn't have lessons to learn," says Justin. "Our research and relationships with the top reflective and fluorescent manufacturers have equipped our staff with the knowledge to help our customers choose the right kit. It's not just down to getting a kit to fit the vehicle, you need to choose the right material too."

[www.victorydesign.co.uk](http://www.victorydesign.co.uk)



*Each kit is made up from red reflective and fluorescent yellow materials*

## Vehicle window film offers high level of glare reduction

In May 2018 Johnson Laminating and Coating announced availability of a commercial film with specially formulated adhesive that was safe for application on plastic surfaces.

Almost immediately the company started to receive requests for an automotive version from off road enthusiasts for a dyed product that could be installed on the plastic windows of their vehicles that

would offer the same glare reduction and solar properties as normal window film.

Once this new challenge was brought to the product design team they said: why not? It's just a different raw material with the new adhesive formula.

To that end they designed an automotive product that uses a 2-ply dyed construction resulting in its newest product PlexShade 10% (PX10) available in standard automotive film sizes.

Selected solar properties on this product are visible light transmission 10% interior/ exterior reflectance 5%, glare reduction: 88% and total solar energy rejection: 41%.

Now, any type of vehicle whether its farm equipment, a motorcycle cowl, off road racer or just plain off road can benefit from window film installation. This product offers the passengers the same heat reduction and other benefits received when installing window film on a daily driver.

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



Now, any type of vehicle can benefit from window film installation.

## CADlink updates Digital Factory v10 OKI Edition

Digital Factory OKI Edition RIP software users now have even greater advantages when using the RIP software to manage their print production workflows. The latest build of the software includes newly engineered custom printer drivers along with modified colour profiles and now supports a wider variety of printers.

The new driver architecture optimises RIP and print speeds that can reduce job processing times by up to 2-3 times and provides vibrant colours including rich black reproduction.

Printer support now includes the following OKITM printers; C3xx Series, C6xx, C7xx, C8xx Series, C843 Series, C8432WT, Pro 7411WT, Pro 9420WT, C911, C931, C941, C942, Pro 9431 Series, Pro 9541 Series, Pro 9542 Series, Pro 9541WT.

Digital Factory v10 OKI Edition includes a complete feature set not found in many driver-based print solutions or other RIP

software packages including automated white toner handling that provides "amazing print results on dark substrates" of many types; In-RIP trapping that includes a choke feature to eliminate bleeding; 'no-ink' patterns to improve

image feel and wash fastness on garments, plug-ins that send jobs directly from Corel and Adobe design packages and layout template options.

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



Digital Factory v10 OKI Edition includes a complete feature set not found in many driver-based print solutions or other RIP software packages

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## Direct-to-garment printer for on demand personalisation

Roland DG Corporation is launching the VersaSTUDIO BT-12 desktop direct-to-garment printer for printing directly on cotton-based products which will be available from April 2019. Built for on-demand personalisation, the printer is "ideal" for businesses looking for new revenue opportunities by offering an engaging in-store experience for their customers.

"More recently in-store personalisation services for printing customer designs have grown rapidly," says Etsuo Harada, division president of COTO business division for Roland DG. "To meet this demand, the COTO business division has developed the new DTG printer."

The BT-12 is an easy-to-use A4 size printer that prints full colour graphics including photos, logos and text directly on a variety of cotton-based items such as t-shirts, tote bags and textile interior decoration products. Its compact size and affordable pricing enables businesses to offer personalisation services with a low initial investment and in locations where space is limited.



*These solutions not only help to add value to merchandise but provide customers with a rewarding shopping experience.*

Capable of producing a product from start to finish in just a few minutes, the BT-12 is designed for ultimate ease of use. Bundled with Roland Design Software, which features an intuitive user interface, users can create unique designs with minimal training. Cassettes hold the items for printing and finishing, ensuring the safety of operators and customers.

The printer requires very little space, with dimensions of 399 mm (W) x 760 mm (D) and the optional HB-12 finishing equipment stacks with the BT-12.

The BT-12 can be used as a standalone in-store personalisation solution or to complement Roland's VersaSTUDIO BN-20 printer/cutter, VersaUV LEF Series UV-LED printers and the LD-80 digital foil decorator. These solutions not only help to add value to merchandise but provide customers with a rewarding shopping experience.

"Consumer behaviour has been shifting from consumption to experience due to the diversification of consumer values," says Etsuo. "As a result, businesses have an opportunity to offer high value merchandise such as personalised products to meet customer needs and desires. Our goal is to provide our users with tools that help deliver a unique experience and quality time for their customers and to transform their imagination into reality."

[www.rolanddg.co.uk](http://www.rolanddg.co.uk)

## Film wrap available in new colours and finishes

APA is launching new colours for wrapping films from the great classics such as Miami Blue to the Silk Inferno Red with intense and iridescent colours.

With the Silk Inferno Red (CW/989.3X) you immediately notice the contrast of shades of colours; an elegant shade of red/orange gives a touch of exclusiveness to this cast.

SuperCandy Lime, available in a gloss (CW/KK95.0X) and matt (CW/KK85.0X) finish enriches the SuperCandy range.

This is a refined, mysterious and exotic variation that is perfectly printable with solvent, eco-solvent, UV and latex inks.

Miami Blue (CW/R96.99X) is a fresh and vibrant contemporary lifestyle tone, one

that will captivate your imagination. Satin Desertstorm (CW/R88.2X) and the Gloss Sandstorm (CW/R98.2X) complete the line of new colours created by APA, a range of films whose special formulation guarantees excellent coverage and a shade of colour that remains unaltered, even on darker surfaces.

In addition, the Repo-Tack Air Free System, favouring the expulsion of the air during application, ensures the APA wrap films are perfectly conformable on any type of bodywork.

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



*A fresh and vibrant contemporary lifestyle tone, Miami Blue (CW/R96.99X) will captivate your imagination.*

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## DTG ink set targets high fidelity colour and increased washability

On the heels of its release of the DTG G4 direct to garment printer, DTG Digital has announced a new ink set custom made for the printer.

"We're even more impressed with the results of this new G4 DTG Ink set than we thought we'd be," says European operations manager Roderick Verweij. "Our engineers and chemists have worked hand in hand to produce inks and pre-treats carefully formulated for the G4's ink delivery system and the research has paid off in amazing looking prints that last".

The CMYK and White, delivered via cartridge for consistency, are tuned specifically to work with the G4 printer. Coupled with new pre-treats that offer softer hand feel, greater wash-ability and easier application, the DTG G4 chemistry set "simply outperform".

The ink itself has a higher viscosity with less surface tension than previous DTG branded inks. The inks produce high quality prints with an industry first in colour gamut, while it takes advantage of the hardware configuration to reduce maintenance.



*The ink itself has a higher viscosity with less surface tension than previous DTG branded inks*

Product manager Jerry Erich comments: "There's no air in the ink delivery to the print head nozzle plates, enabling more reliable and predictable printing results without the maintenance levels currently seen in the market and we adapted the WIMS system for white ink management for the G4 DTG printer which greatly contributes to preventing settling. It's just great engineering and a great ink set to match".

The main features of the new DTG ink set include less white ink settling; higher viscosity for continued ink delivery to the nozzle plate; no dye migration in heat setting; lower cure times; less machine maintenance needed; better consistent colours batch to batch; latex derivative formulation; superior wash fastness and dry and wet rub; and a soft hand feel.

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

## Price reduction on Lite-50 cutter aimed at entry level users

Graphtec GB has announced a considerable reduction in the price of its CE series Lite-50 digital cutter. Part of a new marketing initiative aimed at enabling wider access to enhanced price performance cutting technology, the Lite-50 is now available at £542.66.

This represents a 22% reduction in the original price yet provides owners with the same build quality, level of performance and warranty normally associated with more expensive machines.

Developed primarily for small to medium sized companies, the Lite-50 bridges the gap between the traditional craft/hobbies and higher volume commercial sectors.

The low price performance ratio will appeal especially to entry level operatives wishing to engage with digital cutting

technology without the burden of a sizeable financial outlay, given the current uncertain economic climate.

Key benefits that "set the Lite-50 apart from any comparable cutting solution" include a faster than normal 500mm/sec



*Developed primarily for small to medium sized companies, the Lite-50 bridges the gap between the traditional craft/hobbies and higher volume commercial sectors.*

speed and the ability to handle media up to 508mm (20 inches) wide. Significantly, the Lite-50 incorporates Graphtec's latest Version 7 of the proprietary ARMS (Automatic Registration Mark Sensing) system for optimum media plotting and cutting accuracy. As part of the package, the cutter is supplied with the latest Cutting Master 4 software that enables use of data created in Adobe Illustrator and CorelDRAW programs.

The CE Lite-50 will accommodate sheets of material (including heat transfer formats) in A4, A3, SRA3 and Super A3 sizes. Typical applications include sport and leisure clothing customisation, promotional products branding, glass decorative and vehicle graphics and self-adhesive vinyl-based signs and displays.

[www.graphtecgb.co.uk](http://www.graphtecgb.co.uk)

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## Comprehensive coloured signage film portfolio and service

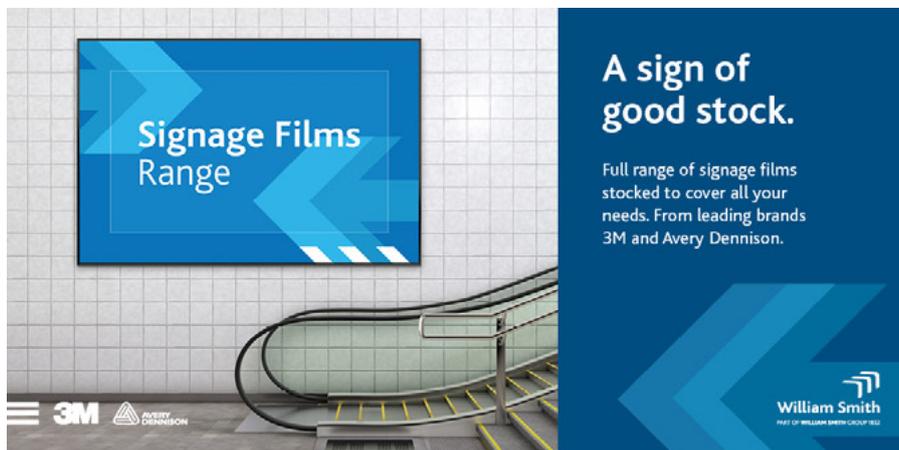
William Smith stocks a comprehensive range of coloured opaque, translucent and diffuser films including a variety which are stocked in its warehouse ready for distribution in all colours from leading material suppliers 3M and Avery Dennison, covering all signage project requirements.

The portfolio offers a huge choice of standard colours with additional matching services available from 3M and Avery Dennison should a customer require an exact colour – ideal for those big corporate branding projects.

Ranging from 2 to 12 year-durability to suit short, intermediate and long-term applications, coloured opaque films are ideal for applications ranging from PoS and exhibition to windows, vehicle graphics and signage.

Often seen in use on shop front and garage forecourt signage, translucent films are “perfect” for grabbing attention and building brand recognition. Used on backlit signage, the films are available in 5 to 10-year durability.

William Smith stocks all the recommended diffuser films for use with its range of translucent films to help minimise hot spots and improve light distribution on the



William Smith coloured signage film portfolio.

face of illuminated signage. In addition, the business offers customers product support, the ability to order as a part roll and online ordering with individual pricing.

Using these films on its shop floor every day, the William Smith team have in-depth knowledge and a true understanding of the products they sell.

Thanks to its purpose-built warehouse William Smith offers a superior service.

The materials store and despatch facility is 14,316sq. ft, has nearly 2,000 storage bays and two loading bays, enabling efficient handling. Holding over 16,000 boxes of material, customers have the biggest choice of products on the market and don't need to hold stock.

All materials are available for next day delivery on orders made before 6pm.

[www.williamsmith.co.uk/signage-films](http://www.williamsmith.co.uk/signage-films)

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## Frame system for permanent displays or quick release panels

A new system from trade supplier Nova Aluminium Systems ticks all the boxes for housing 5mm rigid sheet. Panels can be installed either as a permanent display or if required, used as a quick release system to allow frequent image change.

NovaGuide accepts 5mm display panels which can be either VHB taped or using a magnetic fixing method which allows for simple panel removal.



NovaGuide is designed to give a full bleed visual giving maximum space for graphics. At only 40mm in depth the frame can be hung, surface fixed and projected.

A divider profile is available for multi panel projects. NovaGuide is "perfect" for hanging directory signs, in store point of sale promotions and temporary information signage as well as many other display requirements.

NovaGuide is the latest addition to a range of systems to be used for rigid panels which includes NovaCase; this provides a strong signcase which can accept rigid panels from 3-6mm. Panels are retained using a reversible bead which is pre-set for speed of fabrication.

NovaSlim is suitable for anything from neat point of sale units to outdoor fascias. With the same features as NovaCase, this system can accommodate panels up to 700mm in height and any length.



*NovaGuide accepts 5mm display panels which can be either VHB taped or using a magnetic fixing method*

NovaSlim is great for individual units up to a width and height of 1.8m<sup>2</sup> for single sided displays. Integral extrusions are available for both 3-6mm applications, creating a screw-free appearance ideal for transparencies and posters.

[www.nova-aluminium.com](http://www.nova-aluminium.com)

## Roland launches second generation TrueVIS printer/cutters

Roland DG Corporation is launching its second generation TrueVIS VG2 series 1625mm and 1371mm (64" and 54") wide format eco-solvent inkjet printer/cutters.

With more than 40 enhancements which deliver user benefits in terms of print quality and accuracy, cutting performance and same-day finishing productivity across a huge range of applications, the company's objective in creating the VG2 series was to improve upon the already high standards set by the previous award-winning VG series.

"To create printer/cutters that boast the highest output quality in Roland DG history we did not stick to existing concepts but redefined product development by focusing on dozens of little details," comments Kohei Tanabe, president, digital printing business division. "The result is that the new TrueVIS VG2 series offers customers a true competitive advantage."

The new TrueVIS VG2 series is the "obvious choice for busy print service providers looking for fast turnaround, with prints ready for lamination in as little as six hours". It's now possible to print, laminate and apply graphics the same day with high quality output and reliable installation, enabling print professionals to deliver against their customers' expectations and to beat their competitors' time to market.

The VG2 adopts a new generation of eco-solvent TR2 ink, which now includes Orange to optimise colour accuracy and deliver print of "incomparable" realism. Ideal for corporate branding applications, with the new Multiprocess Color Function, Orange ink can be used in all file types as a process colour or as a spot colour if



*It's now possible to print, laminate and apply graphics the same day with high quality output and reliable installation.*

specific matching is required. A new colour management preset takes full advantage of the VG2's superior colour reproduction capability and the wide colour gamut provided by TR2 ink so there is no need to compromise on accuracy or vibrancy; True Rich Color gives you the best of both.

"Now for the first time, vibrant colour can be combined with neutral greys, smooth gradations and natural skin tones to create stunning graphics," says Kohei.

Technological advancements deliver high precision print and cut accuracy for even more reliable results during unattended operation. New middle pinch rollers raise automatically prior to starting the cutting

process, allowing the media to be cut without the rollers travelling over the printed area. New crop mark options for cutting laminated prints or long production runs of print and cut graphics provide "perfect" cutting performance when used in combination with the new optimised side pinch roller pressure functionality.

An optional take-up unit supports two modes according to the type of media chosen, ensuring take-up stability for smooth post processes. Roland DG FlexFire printheads produce the precision ink firing that enables printing neutral greys, vivid colours and smooth skin tones even at the highest speeds.

TrueVIS VG2 and TR2 ink is certified by the 3M MCS, providing assurance of the quality and reliability of graphics. The VG2 with TR2 ink supports Avery's ICS performance guarantee and is certified GREENGUARD Gold for safe indoor graphic applications. Included VersaWorks 6 RIP software supports the latest Harlequin RIP dual core engine with PDF 2.0 and native 64-bit processing plus easy-to-use capabilities.

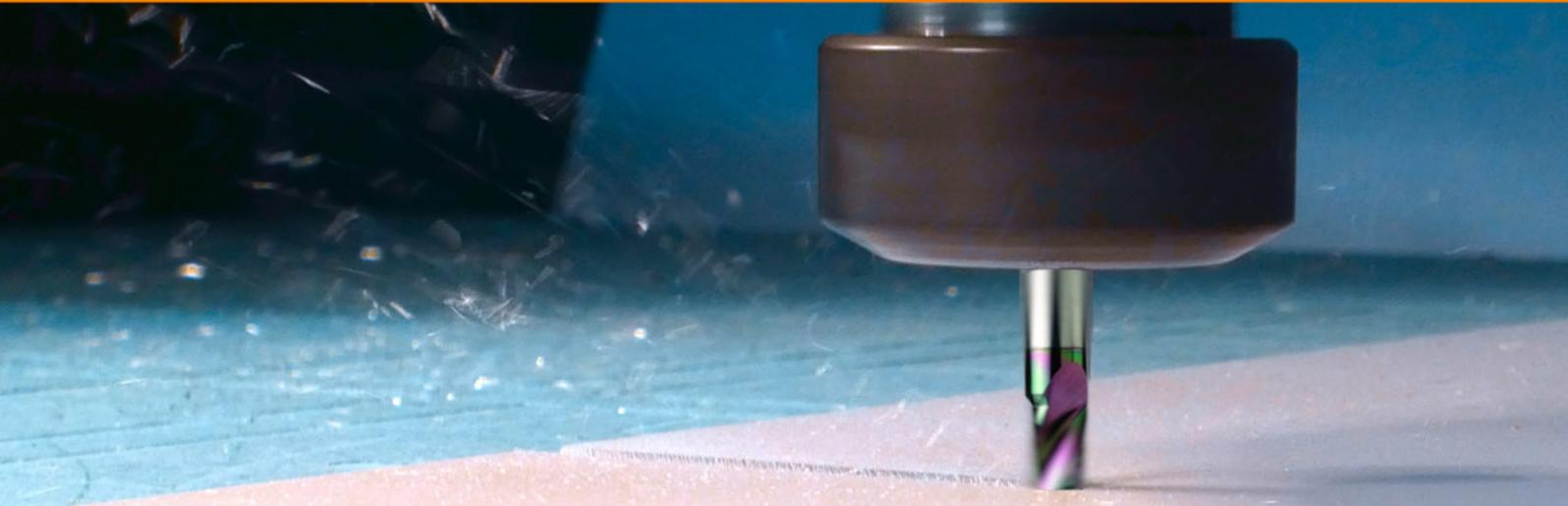
The new VG2 can be seen in action at Sign & Digital UK 2019 on stand F30.

[www.rolanddg.co.uk](http://www.rolanddg.co.uk)



*The VG2 adopts a new generation of eco-solvent TR2 ink, which now includes Orange.*

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## Taking the pain out of cutting aluminium

Routing aluminium has always been a problem area for certain companies that usually have an expensive CNC machine which happily cuts plastics, foams, PVCs and aluminium composite with ease. However, when asked to cut solid aluminium, there is usually a sudden intake of breath through gritted teeth. Liam Hodson, tooling & machine consultant at LKH Tools provides some guidelines.

Routing aluminium has become, year on year, increasingly popular within the sign industry. A sympathetic attitude toward the difficulties faced by a production manager or machine operator must be acknowledged. Historically, this was a slow and messy process using plenty of coolant or oil to stop tooling from binding up. If the coolant stopped for some reason, the tool would break or weld the aluminium back to the sheet.

It was necessary to clean down the machinery before restarting production on the next material (oil and MDF is not a good mix). The aluminium required cleaning prior to powder coating/painting



*Dry cutting of aluminium has always been a very difficult and in most situations, an inconsistent or impossible goal to achieve*

and in most cases, it had to be hand finished to remove any burrs or sharp edges. The inevitable “we’ll sub-contract this out” was understandable.

Dry cutting of aluminium has always been a very difficult and in most situations, an inconsistent or impossible goal to achieve. However, this does not have to be the case.

Although CNC machines have not really changed much in the last decade or so, the tooling technology which goes into the machines has recently had a quantum leap forward with the introduction of the DLC and new Superior coated tools from Crown Norge (available in the UK from LKH Tools).

### Friction-reducing coatings

The new coatings on the highest quality Swiss carbide tooling provide a huge reduction in friction when cutting aluminium dry. These advanced coatings provide huge benefits when comparing standard tool life. In the case of the Superior tool, this will last approximately 10 times or longer in comparison to a standard carbide router tool.

It is now possible to consistently cut a mixed batch of materials without worrying about cross contamination of oil and material. This allows the machine operator full freedom to fully utilise the

amount of hours in a working day (eg an emergency aluminium rush job could be very easily inserted between a production run of plastics or foam PVC).

Although the DLC and Superior coatings add a premium to the overall tool cost, much higher feed rates and consistent quality of cut means a reduction in labour and overall costs.

“Although CNC machines have not really changed much in the last decade or so, the tooling technology which goes into the machines has recently had a quantum leap forward”



*The Superior tool will last approximately 10 times or longer in comparison to a standard carbide router tool.*



## Top tips for routing aluminium

- n Advanced coatings extend tool life by around 10 times compared with a standard carbide router tool.
- n Much higher feed rates and consistent quality of cut means a reduction in labour and overall costs.
- n DLC coated tools typically achieve a feed rate of 2 meters per minute through 3mm aluminium in a single cut.
- n Superior coated tools are designed for high speed routing of 10-12 meters per minute on 3mm aluminium in a single cut.
- n If the machine is solely used for aluminium, then coolant or cutting fluid can be used to achieve even faster feed rates and longer tool life.
- n To achieve the best results, the machine will need a smooth spindle, good vacuum hold down and extraction and be well maintained.

The finish is exceptional and can be handled straight off the machine due to the combination of the coating and geometry of the tool. This, combined with the extra longevity of the tool, makes them the most cost effective option on the market today.

DLC coated tools are best suited for smaller letters or shapes where a faster cut speed is not possible due to the vacuum bed hold down or machine limitations. Typically, these tools achieve a feed rate of 2 meters per minute through 3mm aluminium in a single cut.

These new Superior coated tools are designed for high speed routing of 10-12 meters per minute on 3mm aluminium in a single cut. Vibration at such high speeds is significantly reduced due to the new coating which provides an additional 60% reduction in friction against standard coated tools.

The fast helix on these tools are best suited for larger panels or signs where the machine can get up to speed without any fear of the vacuum not holding the material or shape in place.

### Coolant or cutting fluid

If the machine is solely used for aluminium, then coolant or cutting fluid such as oil or white water (preferred option) can be used to achieve even faster feed rates and longer tool life. This is, of course, at the expense of cleaning the product and machine afterward. As with all tools, the machine will need to

have a number of correct cutting conditions to obtain the optimum result. The quickest way to tool failure or a poor cut finish is vibration during cutting.

### Strong vacuum hold down

Not only can this prematurely cause the tool to fail, it can also cause damage to the machine spindle. A good strong vacuum hold down is essential to help prevent this.

To assist with the vacuum hold down, the extraction system must remove the debris efficiently. If the machine bed is covered in debris or chippings, the vacuum hold down will not work correctly and, therefore, introduce vibration into the sheet.

The machine routing spindle must be in good condition with smooth and free running bearings as vibration can also be created this being out of balance.

In addition, the collet and tool holder must be concentric. Worn or damaged collets or tool holders will not hold the tool evenly when spun at high RPM.

These should be replaced regularly as part of the routine maintenance and/or after a tool breaking. The limitations of the machine should also be understood and expectations adjusted accordingly.

A small, lightweight machine with a low powered spindle will not be able to achieve the same feed rates of its larger more robust alternative.



*DLC coated tools are best suited for smaller letters or shapes where a faster cut speed is not possible due to the vacuum bed hold down or machine.*

Each machine will be slightly different in its operation and performance, however, if these cutting conditions are met, then the best results can be obtained for that particular machine.

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# SHEET MATERIALS Feature

## Flat Out

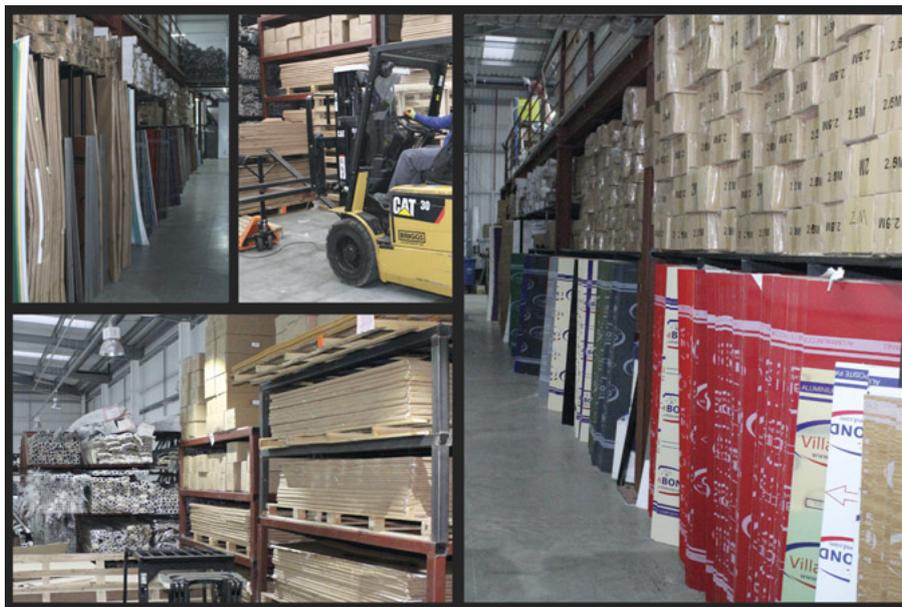
By Jack Gocher

**Sheet material is a huge and thriving market, delivering a broad range of informational, architectural and promotional displays. We look at some of the UK's major providers of all kinds of rigid and flexible flat sheet products.**

White Villa was founded in 1999 and has become one of London's largest signs and awnings manufacturers and suppliers. James Kalel is Director at White Villa and he says, "As a company, we started using materials like acrylic, foamboard and composite panels. It soon became clear that composite panels was the most successful area of our business we decided to import our own product and named it VillaBOND. This transformed the company, driving such large demand for our products we started wholesaling directly to trade only."

In January 2019 White Villa opened its second branch in Chichester. The London branch is where all manufacturing happens and Chichester is used as a distribution branch. The 12,000 sq ft London site stocks more than 300,000 products and the 4,000 sq ft Chichester building stocks 40,000 products.

VillaBOND composite panel is a type of flat panel that consists of two thin Aluminium sheets bonded to a non-aluminium core. The top and the bottom layers are covered Aluminium skin with a standard thickness is 0.30mm and the centre core is low density polyethylene.



Inside White Villa's new 4,000sqft distribution centre in Chichester

"Our VillaBOND composite panels and our bespoke awning and canopies form the core business of our company today, as well as a broad range of associated products that cover customer-specific applications. To create these products we have a 10m wide sewing machine, one of only 7 currently in the UK. We were also one of the first companies to sell LEDs exclusively, completely moving away from fluorescent lighting. These investments have proven to be very popular with our customers who are predominantly sign-makers," adds Kalel.

He continues, "VillaBOND's popularity is in large part down to the fact that it is a reliable and versatile material that sign-makers can trust. It is very light and easy

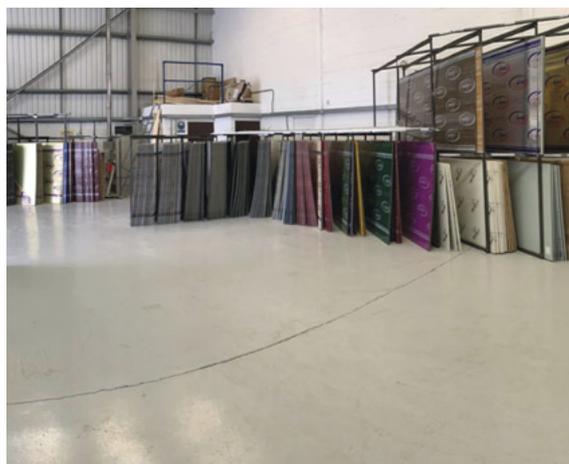
to manage and has a completely flat surface that is perfect for printing and vinyl applications. Sign-makers can cut, fold and bend it however they need and maintenance is very straightforward. It is used throughout the UK for exterior and interior signage, cladding, sound and heat insulation and much more."

Another element of VillaBOND that makes it stand out in the market is its broad colour range. "The product is available in more colours than any other composite product. This adds further to the flexibility and range of applications that the product can be used for. The introduction of this product has formed a large part of the success of White Villa and with continuous development and the addition of more products, we will continue to grow through excellent products and services to the industry," concludes James Kalel

[www.whitevilla.co.uk](http://www.whitevilla.co.uk)



White Villa's 12,000 sqft London manufacturing centre stocks more than 300,000 products





# Europoint lights the way with new board materials for sign-makers

All sign and display makers are used to the standard board materials in our industry, foam boards, aluminium composite material (ACM), fluted polypropylene and cast acrylic. But there are plenty of new materials out there that are well worth looking at. Richard Barham, Regional Director of Europoint told us about the latest innovations available from Europoint in the UK, which are offering exciting new opportunities for the company and its clients.

“Cast acrylic sheet has long been a mainstay of the sign - maker,” he says, adding, “Coloured sheets have been around for years, but what is new is the recent arrival of LED specific and metallic colours. Altuglas® Blocks, available in thicknesses from 30mm to a clear 90 mm, diffuse the light intensively and offer high shock and excellent weather resistance. With only one material to machine and simplified fabrication, they offer a real alternative to complex formed lettering and shapes.

Another recent arrival is the range of Altuglas Metallic sheets. The unique finish of these metallic and iridescent colours creates a particularly striking effect. Available in gloss and matt finishes, these acrylic sheets showcase your client’s products and their setting in a stunning way.”

## Enhancing well-established products

Fluted polypropylene has been the go to board for everything from estate agent signs, to temporary signs and even floor protection. With the rise in direct to board

printing, surface smoothness and ink receptivity have become even more important. “Europoint have now introduced a 3.5mm micro fluted Euroflute board. Available in all standard sizes, the key advantage of the micro flute is to provide a smoother, flatter surface for direct UV or latex printers such as the HP R Series, giving better image quality and less ridge banding in print,” he says.

Brett Martin Foamalux has long been Europoint’s standard foamboard. The company has now introduced Foamalux WHITE lite. Barham explains, “This is a next generation rigid foam PVC board, engineered for use with flatbed digital printers. It uses an innovative colour formulation, to produce a brighter white surface, which optimises colour reproduction to give photographic image quality and clarity. The new lite board reduces foam density to provide all these advantages but with even better cost control in today’s competitive market.”

## Add colour to ACM

Sign-makers have relied on Aluminium Composite Material (ACM) for its outdoor weather resistance, rigidity and ease of machining for everything from signs to site hoarding. What is changing is the range of colours now being provided for colour matched sign production. “The latest addition to Europoint’s range is a Burgundy Red Skybond, matched to RAL3004. We are encouraging customers to consider a coloured ACM for their next job rather than a vinyl skin to match the colour,” says Barham.



*Bendable board can provide a range of flexible point-of-sale displays*

He concludes, “We are all being asked for greener products to avoid PVC. Europoint offers both Airplac and Stadur foam-centred board for a 100% PVC free-solution. These single core board solutions are great for temporary exhibition stand structures, signage and display lettering. Printable and lightweight, they can be a greener creative solution. On site converting at Europoint means that most of these products can be cut to size prior to delivery, increasing your productivity and helping you hit tight deadlines. We encourage people to get in touch and see what Europoint can offer for their business.”

[www.europoint.co](http://www.europoint.co)



*Stadur is a high quality and versatile 100% PVC Free Foamboard*



## Righton Blackburns has the right range of products

Righton Blackburns was formed in November 2018 following the merger of Righton Limited and Blackburns Metals Limited. The company is headquartered in the heart of the industrial West Midlands and is a major supplier to a wide variety of industries.

Alan Vigar National Business Development Director for Righton Blackburns, comments, "Signs, point of sale display and print is an important market sector for Righton Blackburns. Our customers include sign-makers, large format and flatbed digital printers, screen-printers, POS / POP manufacturers and exhibition designers. It is a large and technically demanding market sector that requires a comprehensive product offer and a high level of service."

Righton Blackburns is well placed to meet the demands of this market with 13 locations around the UK that all carry local stock and offer processing capability on site. Stockists of market-leading, globally known, branded products, Righton Blackburns says it can provide a quality product for every application.

He explains, "Whatever a customer's methods of production or requirement for a product, Righton Blackburns can offer a solution. The company has been supplying aluminium, stainless steel and plastic sheets to the sign, display and print markets for over 40 years and has developed a reputation for innovative,



*Aluminium composite sheet used for site hoarding graphics, produced by Graphique Media Solutions Limited*

market-leading products. With a national distribution service via 13 service centres we can deliver to all parts mainland UK within 24 hours."

Their current product offerings includes Alucobest aluminium composite, Brett Martin, Foamalux and Komaprint PVC foam, Polycasa Crylux and Crylon cast and extruded acrylic, Vivak PETg along with fluted polypropylene, which are all digital print grade sheets. These are used extensively by printers, point of sale display and sign companies for many forms of signage both internally and externally. Given the dimensional stability and ease of processing, many other 'non-sign' uses are made of these materials including fabrication and cladding.

Vigar adds, "Rightons Blackburns' business is service-driven and we are one



*Corporate colour match ACM used for external signage*



*Flat sheet from Righton Blackburns ideal for flatbed printing*

of the largest distributors in the UK of many different materials. Our offer of a comprehensive range of materials from a single source and on a national basis is a compelling proposition. The business is geared towards giving a first class service, backed up by technical 'know how' and continuity of supply."

Alan Vigar concludes, "We offer products and technical support from a broad range of leading manufacturers. To complete the service proposition and in addition to the supply of sheet materials and complimentary accessories, Righton Blackburns also offers trade customers fabrication of aluminium composite sign trays and CNC machining."

[www.rightonblackburns.co.uk](http://www.rightonblackburns.co.uk)



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## Perspex Distribution has a clear view on sheet materials

Perspex Distribution Limited (PDL) has been providing sheet materials to signage, print and display companies for over 15 years. It is the UK distributor of Perspex® acrylic and, according to Marketing Manager, Luke Martyn, they offer unrivalled access to the UK's largest range of cast acrylic and an ever increasing range of additional sheet materials.

He explains, "PDL also supplies a substantial range of non-Perspex acrylic products including aluminium composite, PVC foam and polycarbonate, making PDL the go to supplier for businesses across many sectors. With multiple industrial flatbed saws at each branch, we offer a cut to size service via our own fleet of distribution trucks providing a next day delivery service across the UK."

PDL supplies Perspex® acrylic and stock hundreds of colour, texture and thickness variations. Perspex® acrylic is used across a great variety of sectors, from illuminated signage and POS displays, to museum grade glazing and interior design.

"We offer an unrivalled range of UK manufactured sheet products. Complementing our sheet offering, sign-makers can also purchase a cost effective range of LEDs from PDL. BaltLED modules offer up to a 7 year warranty for channel letters and lightboxes. We also supply flexible strip LEDs and bespoke LED Light Sheet panels for displays, exhibitions and much more. We have trained LED experts at all branches, offering a free layout service and technical support for all customers."



LED optimised sheets including Perspex® G-Lux for edge illuminated light panels

### Stand out products

"PDL has a great reputation for continuously bringing unique products into the market. Multishield is a UK manufactured steel composite panel offering a magnetically receptive surface with a print substrate. The product is also available with a whiteboard surface enabling simple displays, noticeboards and signage to be produced without additional lamination being required," says Martyn.

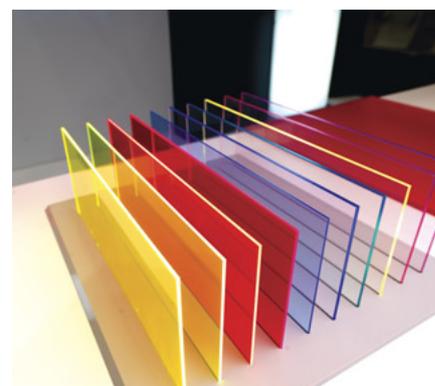
He continues, "Another recent addition to the range is Palboard, a hybrid version of PVC foam and solid PVC products. With a thin PVC surface and recycled foam core, it offers a formable, lightweight yet extra-tough surface. The product combines the tough-impact resistance of solid PVC with the easy-to-use benefits of PVC foam. It is

suitable for digital and screen printing with an ultra-smooth surface for easy fabrication, making it ideal for a wide range of signage and display applications."

Recent technical developments in their range of Perspex® acrylics have been focused on LED evolution. Luke Martyn concludes, "End users are looking for brighter signs and luminaires with signage getting thinner. PDL's range of Perspex® Light and Illumination products include edge lighting substrates requiring no etching or fabrication to create a light panel and allowing for thinner signage. These are benefits that can enhance sign-makers by saving time and increasing revenue and profitability."

[www.perspex.co.uk](http://www.perspex.co.uk)

Perspex® acrylic can create stunning colours and designs for exhibition displays



Perspex® acrylic comes in a broad range of colours



# Antalis shows its material advantage

Antalis is a European paper, packaging and visual communications merchants with extensive experience in the sheet material market. The company provides an extensive product range, which features many leading brands, as well as delivering hardware and training solutions. Chris Green is Head Of Channel Visual Communications & Hardware for Antalis and he says, "We offer customers a one-stop-shop for all their technology and material needs, whatever their large format printing application may be, from sign making to vehicle livery. We also have the advantage of having our own dedicated conversion centre which will guillotine, slit or saw any material to the exact specification required."

Antalis provides a number of online tools to help customers navigate its product offer and select the right material for their job. This includes SUBSTR8, a soon to be launched e-tool that will enable users to choose a sector and see how a space can be visually transformed using a wide range of substrate solutions for specific applications.

"Our portfolio covers a wide range of sheet materials, from thin gauge to thick gauge media such as PVC, polypropylene and polyesters, to large format paper and boards. We serve the sign and display sector for signage and POS applications and are increasingly seeing more commercial printers who are diversifying into new areas, as well as packaging



Retail bulkheads is an application ideally suited for Xanita Board

printers who are looking to be more creative. We also cater to businesses within new sectors, like interior design and hospitality, which are getting creative with the design possibilities afforded by today's evolving printing technology," adds Green.

He continues, "We offer our customers an outstanding level of choice thanks to the diversity of our range and the quality brands we partner with. We have a longstanding relationship with brands like 3A Composites who have a proud tradition

of technical leadership and excellence in sheet materials for sign and display applications. Through them, we offer the likes of DISPA, Smart-X and KAPA. With healthy stock levels maintained at all times, so customers can order for next day delivery nationwide as a standard service."

Antalis has recently launched Xanita Board in the UK, which is billed as a greener and more flexible alternative to MDF. It is manufactured from fibres recovered from recycled cardboard boxes. The product is a directly printable substrate and only one quarter the weight of MDF. Its lightweight yet robust specification makes it a viable sustainable alternative for a wealth of sectors, whether for decorative or structural purposes.

Green concludes, "This year at Sign & Digital UK Antalis is welcoming visitors to its stand, which has been creatively designed to echo the interiors of a ski lodge-style bar using a broad range of sheet materials. We are using the Alpine theme to showcase how our printed media can effectively and creatively replicate different materials, from realistic wood-effect printed panelling, to robust log-style seating made from our exclusive new product Xanita Board."

[www.antalis.co.uk](http://www.antalis.co.uk)



Xanita Board being used to provide flexible and striking exhibition stands

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## Safe selection and operation of CO<sub>2</sub> laser engraving/cutting machines

CO<sub>2</sub> laser engraving and cutting machines are now in extensive use in many different signage applications and can present hazards if not selected and operated correctly. Director of HPC Laser, Steve Cockerham examines some of the fundamental issues that should be considered.

It is a common misconception that the visible red laser is responsible for providing the engraving and cutting function in a laser machine. This low power device is only used for positioning and is the much more powerful invisible beam, usually generated in a laser tube in the rear of the machine that provides the more powerful beam for the engraving and cutting functions.

Similar to the way in which the sun's rays can be focused and intensified using a magnifying glass, CO<sub>2</sub> laser engraving and cutting machines work by passing this invisible laser beam of typically 6-7mm diameter through a focusing lens. This reduces the beam diameter down to microns at the correct focal height (usually around 50mm from workpiece to lens) and increases the intensity of the beam sufficiently to enable cutting and engraving of suitable materials.

Once the unfocused beam has passed the focal point it begins to diverge, weaken and scatter around the machine cabinet. This scattered beam is then absorbed by the coated metal surfaces of the machine. Because of the relative ease in which the focused beam weakens and becomes harmless, it is considered more hazardous, particularly due to its ability to travel long distances while losing only a small proportion of its power.

### Fire safety

It is most important **never** to operate the machine unattended while in operation, however tedious the cutting or engraving process. A properly functioning compressor delivering a good supply of air to the machine nozzle clears away smoke, debris and fumes and minimises the risk of igniting flames during processing. The effectiveness of the air assist compressor should therefore be checked periodically. HPC Laser operate a strict policy in terms of training in machine safety.

There are warning labels on each of our machines, warnings and notifications in our operating manuals and machine supervision is a very clear element of our training programme when we supply a



CO<sub>2</sub> laser engraving and cutting machines work by passing this invisible laser beam of typically 6-7mm diameter through a focusing lens

new machine. As part of our standard training programme, every customer is fully briefed regarding the risks of leaving the machine unattended.

Cleanliness is a very important factor in fire risk mitigation. While cutting some

materials such as wood and plastics, potentially flammable deposits can collect on the machine bed. If allowed to accumulate, these can increase the risk of ignition. Addressing this risk is straightforward: simply clean deposits from the machine bed on a regular basis.

Always keep an easily accessible fire extinguisher by the machine. Because electricity is involved and you may have to tackle a fire while the machine is still plugged in, we recommend a CO<sub>2</sub> or additional electrically-compatible extinguisher. HPC Laser recommends the training of appropriate personnel in the use of fire extinguishers. Keys to operate the machine should only be accessible to suitably trained and qualified persons.

Basic machine housekeeping is always recommended as good practice. Keep your machine cabinet clean and free from dust and material offcuts. Adopt a policy of regularly cleaning and maintenance as part of your operating regime. Regardless of the brand of your laser machine, **never** allow it to be operated unattended or by unauthorised persons.

### Material hazards

Because of the flexibility of modern laser engraving and cutting machines, it is easy

### Top tips

**Never** operate the machine unattended while in operation, however tedious the cutting or engraving process.

**Clean** deposits from the machine bed on a regular basis to mitigate the risk of fire. Adopt a policy of regularly cleaning and maintenance as part of your operating regime.

**Never** allow your machine to be operated unattended or by unauthorised persons.

If in any doubt of material hazards, discuss your requirements with the manufacturer and obtain a copy of their appropriate health and safety documentation **before** starting work.

to forget that not everything can be safely processed. PVC, for example, produces hydrochloric acid, carbon monoxide, dioxins and chlorinated furans when burned and can seriously damage the machine but more significantly present significant health risks to any personnel in the vicinity of the machine.

If you are in any doubt, it is imperative to discuss your requirements with the material manufacturer and obtain a copy of their appropriate health and safety documentation before starting work.

### CE compliance

Buyers of laser machines often overlook the matter of compliance with the appropriate CE safety standards. The relative ease of buying potentially non-compliant and hazardous machines either directly from an overseas manufacturer or through a UK supplier brings with it a potentially serious safety risk.

In compliance with international standards, laser machines are classified from class 1 to 4 depending upon the level of laser radiation emitted from the machine during operation. A DVD player, for example, would be typical of a class 1 system where the laser beam cannot escape and no special safety provisions are required.

Class 4 laser systems would typically have a means for the operator to make direct contact with the laser beam such as open slots in the machine cabinet or the absence of a lid safety switch.

Operators of such machines should be aware of the safety requirements of a class 4 laser system, including the requirement to wear laser compatible safety glasses. The UK Health and Safety Executive (HSE) states that class 4 machines are acceptable for use in industry but the appropriate safety requirements must be observed. They state that class 4 laser machines are not suitable for use in an education environment. This view is reinforced by CLEAPSS, an impartial organisation providing health and safety advice to education and recognised by the HSE, the DFE, DEFRA and the Home Office.

Any equipment imported into the EU must be compliant with the appropriate EU directives which specify the legislative requirements of the equipment. Various ISO and EN standards offer product-specific guidance on how to comply with these directives. It is this combination of directives and standards that form the basis of the CE compliance assessment that must be carried out.

“The relative ease of buying potentially non-compliant and hazardous machines either directly from an overseas manufacturer or through a UK supplier brings with it a potentially serious safety risk”

Once an assessment of the product has been undertaken and compliance is proven, a technical file of supporting evidence is compiled.

The file owner is then able to create their own CE declaration of conformity which states the directives and standards that the machine is compliant with.

The wording of some standards can be open to a degree of interpretation by the

reader and good practice is to ensure that assessment is carried out against the most stringent interpretation of the standard.

HPC Laser's 2019 range of Laserscript engraving and cutting machines now incorporate industry leading Allen Bradley CE marked safety switches on all machine panels required for operation and maintenance. These panels include the machine lid, any drawer or panel that can be removed or opened for debris recovery and the door containing the laser tube itself. Such switches serve to ensure that under all reasonable circumstances the operator is unable to gain access to the potentially hazardous unfocused laser beam. CE compliance requires the machine supplier to offer a comprehensive operating and maintenance manual with the equipment. Such documentation should include instructions for safe location, handling and operation and a map of all machine warning labels with instructions on how to obtain replacements should any be lost.

Laser engraving and cutting machines are more popular than ever due to their flexibility and relative ease of operation. When selected and operated correctly they can provide safe and reliable operation for many years.

[www.hpclaser.co.uk](http://www.hpclaser.co.uk)



*In compliance with international standards, laser machines are classified from class 1 to 4 depending upon the level of laser radiation emitted from the machine during operation.*

## Greenshires choses environmentally-friendly FSDU alternative

Antalis has helped Greenshires improve its green credentials with the provision of a durable, environmentally-friendly alternative to polypropylene mop trays.

The Leicester-based company specialises in the design and production of freestanding display units (FSDU) for retail. The lifespan of an FSDU can range from as little as a week to up to a few months and the display unit must be practical and robust.

Increasing environmental awareness among retailers over recent years means that FSDUs need to be as environmentally friendly as possible, particularly when they are updated frequently. In line with store promotions. Paper-based board materials

can incur problems where the unprotected board might absorb water from large retail mops, damaging any print and the structure of the FSDU. To overcome this, Greenshires had been using polypropylene mop trays at the base of the stand to provide a barrier against potential hazards but had problems with creasing and folding.

Antalis recommended MopGuard, a recycled PET sheet designed for making protective tray bases for retail displays that is 100% recyclable in its own waste stream. A cost-effective and sustainable alternative to similar PVC and polypropylene products, it offers excellent rigidity at low thickness and provides sharp results when cut and creased to

“Not only is it easier to cut, crease and handle, it looks great and – a real selling point for us and for our retail customers – it has a positive environmental story”

shape. Offering practical advantages over polypropylene, it is superior in appearance; it is glass clear in comparison to polypropylene’s milky appearance and has less memory so is able to hold its required finished shape.

POS commercial manager Simon Drew comments: “We are delighted with the improvements we have already seen changing from polypropylene to MopGuard for the manufacture of our mop trays has brought some real benefits for us. Not only is it easier to cut, crease and handle, it looks great and – a real selling point for us and for our retail customers – it has a very positive environmental story. We’re so impressed with the product, we’re now using it to manufacture leaflet pockets that sit on the FSDUs.”

[www.antalis.co.uk](http://www.antalis.co.uk)



*A cost-effective and sustainable alternative to similar PVC and polypropylene products, MopGuard offers excellent rigidity at low thickness and provides sharp results when cut and creased to shape*

## RFID tracking software ensures safe delivery

Blaze Signs, which lists Nationwide, Sainsbury’s and Metro Bank among its client base, is implementing an RFID tracking system from specialist software developer CoreRFID.

Each sign will be tagged with an RFID label so it is scanned when it leaves the factory and again at arrival at the customer site. The signature is captured electronically on a tablet and a photograph taken on delivery. This will provide absolute proof that the sign has arrived safely; GPS is used to mark the delivery location and time as part of the electronic record.

Blaze Sign’s partner company Cygnia Maintenance will benefit at a later phase of the project from CoreRFID’s technology,

which will provide a schedule to ensure signage is maintained to achieve maximum performance.

Blaze Signs CEO Clive Knight comments: “CoreRFID has a strong track record in electronic tracking software solutions which can also be used for inspection purposes. Munzi and his team’s skills in adapting the technology to our needs will improve our services to small businesses right up to the household brands we serve.”

CoreRFID technical director Munzi Ali comments: “The signs can be expensive and while the majority were delivered without incident, there were cases of some being lost or damaged. The electronic tracking system will ensure a smoother



*From left: sales director Chris Abbot and CEO Clive Knight*

and recorded handover to the installation engineers.”

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

# Laserscript

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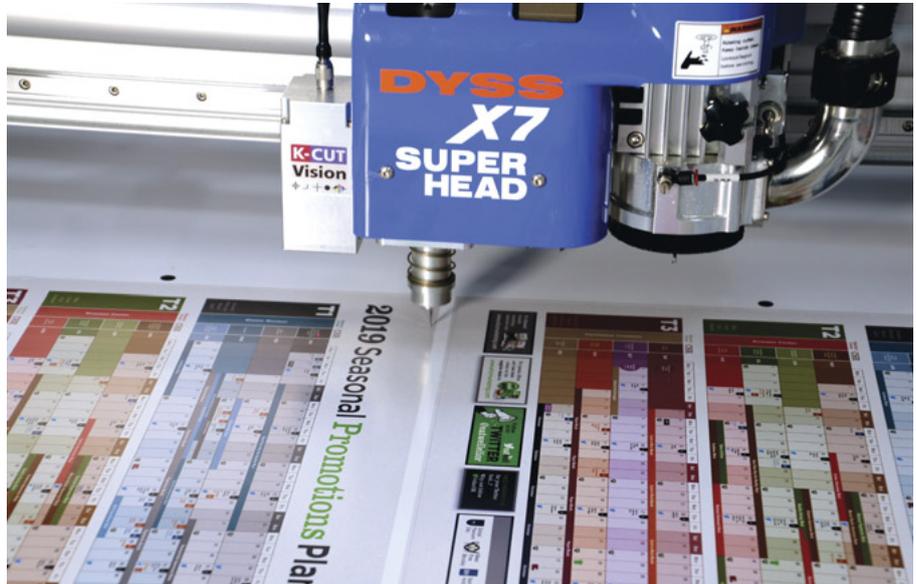
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## Digital cutter improves productivity and reduces wastage

Print On produces everything from posters and signage through to pop-up banners, PoS displays, FSDUs, acrylic boards and general large format print and finishing. To support this growth, the Cheadle company has moved to a purpose-built facility and filled it with the latest print and finishing technology including a DYSS digital cutter from AG/CAD.

“It seems the longer we have the machine, the more we are recognising the cost reductions and market potential”

In 2015 the business invested in a Mimaki 2.4 by 1.2m flatbed direct to substrate UV printer to expand its large format capabilities and enter new market segments. However, in the three years since, the company had been hand cutting large format sheets and boards, a laborious process open to human error.



The DYSS X7 knife tool and K-Cut vision system deliver impeccable precision

Managing director Alex Oldfield says: “We needed the flatbed printer to support the changing needs of the market and to move into large format work. Likewise, we found that customers were looking to work with an ever increasing range of substrates. Without a cutting machine we often had to turn work away or have it cut externally. Additionally, a percentage of the work that we could hand cut required geometries

and shapes that were extremely challenging. We looked at the digital cutter options and as soon as I saw the DYSS machines from AG/CAD at a trade show, I knew it was the machine our business needed.”

Print On opted for the DYSS X7-1624C with the Super Head configuration for the flexibility afforded by the routing spindle and the additional two tool slots which can accept a range of quick-change knife tools and creasing tools. The K-CUT Camera Vision System included in the package offers “unparalleled precision” when cutting printed media.

“One of the key things about the DYSS is confidence,” says Alex. “We now have the confidence to take on all types of work, regardless of material types or complexity and can take on work that we previously had to turn. This has resulted not only in the nature of our work diversifying but our turnover increasing accordingly. We have increased our client base as a result of the DYSS and are now working with more print procurement companies. This is making for an exciting time for our business and its future.”



The large format department at Print On with the DYSS machine

“We can now do more complex designs with the KASEMAKE software. As a company, we are now making headway with customers that are looking for boxes, FSDUs and PoS display projects that were previously beyond our capability. This is giving us a foothold in the medical, pubs and leisure, retail and high street sectors.”

The business is currently split 50/50 between small and large format work and the DYSS has made an impact on both facets of the business.

“As an example, we have previously been contracted to print and cut 1000 A3 sheets; by cutting 20 parts per large sheet by hand, this labour intensive work would take a member of staff 4-5 days. With the DYSS, this can now be completed in less than 1 day. We have increased productivity massively and our large format work can now be processed at least 50% faster with the DYSS X7-1624C, streamlining our business and reducing lead times for customers.”

Not yet quantified are the material cost savings at Print On.

“Previously, we would have considerable off-cuts and waste from hand-cutting boards,” says Alex. “With the facility to ‘nest’ components with the KASEMAKE



*Diane Frost operating the DYSS X7 at Print On*

software we can get more parts from each sheet. Additionally, we can use more of our off-cuts for future work. We no longer have to order cut-to-size sheets and this is also creating a cost saving and an improved lead-time on material supply.

“A further factor is the reduction in human error and the subsequent waste. In the past, we would Javelin-cut large sheets and whilst this was efficient and relatively precise, when you put 2 or 3 sheets alongside each other, there would often be a slight difference. This would either result in secondary finishing or scrapping sheets and re-printing and cutting. Waste from hand-cutting could be significant, but this has been totally eradicated with the DYSS

X7-1624C as its precision and consistency are guaranteed.

“With some small format work we used to order cutting formes to die cut the work. Now, if the quantity is relatively low we can cut these projects on the DYSS. This eliminates the cost and 2-3 day lead-time of buying cutting formes and enables us to pass time and cost savings on to the customer. We are delighted with the benefits and opportunities that are now open to us with the DYSS machine. It seems the longer we have the machine, the more we are recognising the cost reductions and market potential.”

[www.agcad.co.uk](http://www.agcad.co.uk)



*The flexible DYSS Super Head cutting head in action*



## Cutting table speeds up finishing processes

Liverpool-based Go Cre8 has recently purchased a Zünd cutter to improve efficiency in its finishing processes. The company, which was previously doing all its finishing by hand, says that the new machine has been a "game-changer" for both quality and production efficiency.



*The precision cutting table works seamlessly in conjunction with a range of HP Latex and Océ Arizona printers via Onyx Thrive RIP software*

"Turnaround time and the final quality of print and cut items has massively improved with around 70% of our production now finished on the Zünd"

Installed in October 2018 by Zünd UK, the second-user Zünd PN L-2500 precision cutting table works seamlessly in conjunction with Go Cre8's range of HP Latex and Océ Arizona printers via the Onyx Thrive RIP software.

Darryn Kennerley explains: "We considered a lot of different finishing machines, looking at flexibility, ease of use

for operators and how they would fit within our current workflow. Zünd being the industry standard machine for our application made it the obvious choice.

"Turnaround time and the final quality of print and cut items has massively improved. About 70% of our production is now finished on the Zünd from small format labels to print cut and polished acrylic signs. Now we've reduced finishing times for most items, we're looking at other markets which we had previously outsourced.

"We would definitely recommend Zünd cutters to other print businesses. They work seamlessly with most RIPs to form part of an effective print and cut workflow and are very adaptable, allowing us to easily swap between substrates."

Zünd UK managing director Nicki Kay comments: "Zünd systems are renowned for their cutting edge design, quality and flexibility and our second-user machines provide an excellent way for businesses to gain the benefits offered by our industry leading machines. Zünd cutting systems are affordable for all manner of PSPs and enable them to transform their finishing processes, ultimately speeding up the whole production process. The reliability, longevity and modularity of the systems ensure that any investment in Zünd technology is an investment well made."

This range of precision cutting systems boost production by clearing bottlenecks caused by faster printing technology. A modular construction allows users to choose the exact configuration to meet their initial needs and adapt the machine as those requirements change. Modules can all be fitted, removed or upgraded at any time, further future-proofing the systems' robust build.

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## LED hybrid printer has positive effect on turnover and profitability

One Sign & Digital has invested in a new Agfa Anapurna 1650i LED Hybrid printer supplied by i-Sub, highlighting the company's commitment to continuous investment in the latest print technology.

"As well as focusing on customer service we aim to keep at the leading edge of technology," says founder and owner Chris Timmins. "Having the most modern, reliable and high quality machines means that our customers can turn to us for just about any printing requirement and we have the capability and capacity to meet their needs and timings. We have a broad range of large format digital printers covering the key technology areas of solvent, latex and UV and spend time researching and testing new media and materials to ensure we can fulfil as broad a range of customer requirement as possible. The purchase of the Agfa Anapurna has taken our offering to whole new level."

The 1.6m wide-format printer combines rigid board and roll-to-roll printing with a maximum media thickness of 45mm and a print width of 1650mm, making it a hugely versatile and productive solution. With CMYK and white inks the creation of superb quality output at high speed is simple, with very little maintenance it is "one of the easiest machines to operate and maintain in its class".

"The Anapurna has already had a huge impact on our business because it is simply faster and more reliable than the machine we were using before, as well as outputting vastly superior quality graphics," explains Chris. "Our previous machine produced an 8 x 4ft graphics board in 22 minutes; the Agfa can do this in eight. As a result, our operators are more productive as they no longer have to wait extended periods for printing to finish. This has already had a positive impact on our turnover and profitability.

"Our previous UV machine had serious issues with static whereby ink over spray was causing print quality issues and time delays. With the Agfa's a built-in anti-static system the print quality is consistently perfect. We had problems with white ink on our previous machine due to the tubes and nozzle's constantly blocking up. The Agfa's dedicated white ink recirculation system ensures there are no such issues and waste is kept to an absolute minimum, reducing running costs significantly.

"The Agfa Asanti RIP software which drives the Agfa Anapurna offers excellent colour control, functionality and is more of a workflow than a simple RIP we were used to. Along with Agfa's UV ink technology the software enables extremely low ink use, reducing our production costs dramatically. These improvements have

"Our operators are more productive as they no longer have to wait extended periods for printing to finish and this has already had a positive impact on our turnover and profitability"

made a huge difference to workflow and our ability to meet deadlines and grow the business."

A further important benefit of selecting the Agfa is that One Sign could continue its long-standing relationship with i-Sub.

"As much as we pride ourselves on customer service, sometimes we are reliant on our own suppliers to maintain excellence," says Chris. "We have always had a fantastic relationship with i-Sub, where they put our interests first. Everything is dealt with promptly and professionally with lots of feedback to reassure us. They go above and beyond to sort out anything we need and that means we always go to them first with any printing requirement."

Installed at One Sign in November 2018, the machine has already made a big difference to the business.

"Thanks to the Agfa we are now able to look at new applications such as day/night print displays, which opens up further revenue streams for us," says Chris. "It's a significant investment but one that will repay itself many times over the coming years. We are confident that with the advice and support we receive from i-Sub that we can continue to meet customer demand and grow our business in a sustainable and positive way."



Chris Timmins is confident that the investment will repay itself many times over

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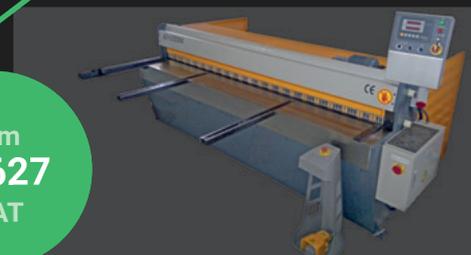
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## Hong Kong wallpaper business sets up in UK with digital printer

A new system from Durst is the centerpiece of a £1million investment by an entrepreneur who is relocating his wallcovering design printing business from Hong Kong to the UK to grow markets across Europe and the US.

David Qian's high end, exclusive wallpaper designs retail on average at £150 m<sup>2</sup> and are customised to meet the demands of major brands including five-star hotels around the globe. A rapid growth in digital printing and a desire to be closer to US customers led to David moving to Nottingham and setting up a production hub.

The £3 million turnover business combines bespoke, made-to-order hand-paintings and embroidered wall coverings combine ancient eastern artistic traditions with western and contemporary aesthetics. The digital printing brand D'Arts offers traditional hand-painting which adds further artistic touches to the outstanding print quality from the Durst P10 160 with heavy duty roll.

Initial testing with wallpaper applications have been completed successfully. Full-scale industrial printing using digital technology is due to start soon.

"With a previous system we had problems with colour-matching which cost us time and money but the Durst machine has been an absolute revelation"



David Qian is very happy with his Durst P10 160 printer

"With a previous system we had problems with colour-matching, which cost us time and money but the Durst machine has been an absolute revelation," says David. Digital printing is future for the wallpaper industry. We are really satisfied with the high end quality from the P10.

"We are the only company in the world that can combine hand-painting and digital printing. This is a core of our business where we create bespoke customer designs for major brand names within interior design and furnishing sectors who demand the very best service and quality.

"The Durst is a really important part for us, particularly as digital printing is now 50% of our business," explains David. "Setting

up in the UK enables us to develop a European market and to better serve our US customers. Controlling the printing process achieves the highest standards and results."

Peter Bray, managing director of Durst UK and Ireland, comments: "Customers, particularly those like David Qian who are dealing with high end brands and demanding the very best quality, increasingly rely on Durst to provide technology to match the exacting requirements. The P10 is recognised as a byword for productivity and quality, as our growing number of users will testify."

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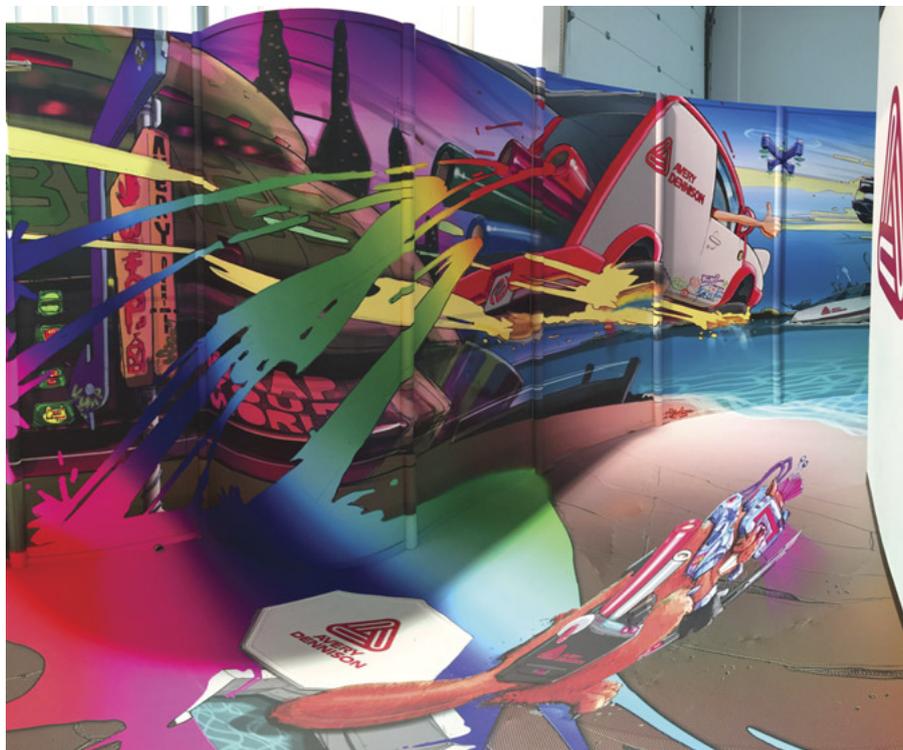
## Printer provides quality needed to produce richly coloured wraps

With over 30 years' experience in vehicle graphic design, Mark Chamberlain of graphics company Funkeefish started out without the convenience of today's printer/cutters. Along with friend Jon Dawson, Mark learned his craft by designing and cutting graphics by hand.

"I bought a VersaCAMM SP-540i from printMAX when I started out and it really let me push the boundaries, which is really what Funkeefish is all about", says Mark.

"It's a lot faster, the colours are richer and the blacks are outstanding"

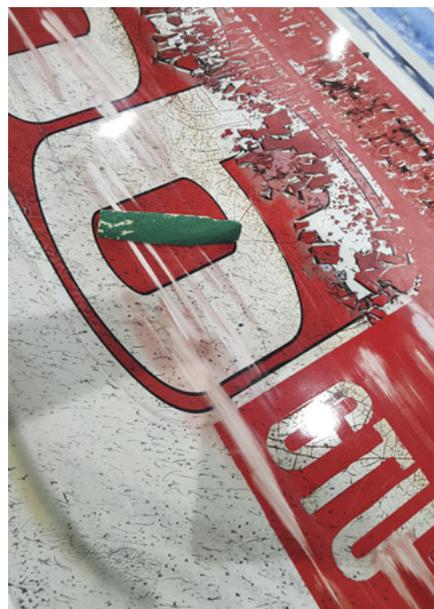
The SP-540i soon had a chance to prove its worth. Mark secured a contract to wrap 100 vans for a UK firm but when that order changed to 1000 vans in the space of a few weeks, Mark got the chance to test the limits of the SP-540i.



Jon's artistic talent can be seen at Avery Dennison's training facility in Milton Keynes

"I'm not really from a technical background so I had to figure out how to get the most from the machine on the job," explains Mark. "The printer was running literally

24 hours a day and it just took everything I threw at it. I loved that machine – it was an absolute soldier, I wish I'd never got rid of it."



With Funkeefish's growing success, something faster, more advanced and with a greater colour gamut was needed. It was then that Mark, somewhat reluctantly, returned to printMAX and traded in the faithful workhorse for a new SOLJET Pro 4 XR-640, four years ago. When Mark saw the quality of the print, he knew he'd made the right choice.

"The SP-540i never let me down so my next printer had to be a Roland. The SOLJET is absolutely brilliant. It's a lot faster, the colours are richer and the blacks are outstanding. We do a lot of carbon fibre at Funkeefish and the blacks need to be perfect. We designed the wrap for a Porsche 911 for Avery Dennison's stand at FESPA last year and people couldn't believe that the green came off a printer – they all thought it was aerosol paint."

Three years ago, Jon joined Funkeefish to help strengthen the design side of the business, which is now clearly apparent in their latest work. His flair and skill are second to none and nowhere can this artistic talent be seen better than at Avery Dennison's training facility in Milton Keynes.



*You are confronted with a barrage of spaceships, spacemen, exploding stars and moons, enticing you into the exciting world of colour and possibilities*

"The wrap on Avery's walls in the foyer shows a very ordinary London scene but as you climb the stairs towards the classroom on the upper level you turn a corner and notice some very odd-looking aircraft, then...POW!!! You are confronted with a barrage of spaceships, spacemen,

exploding stars and moons, enticing you up the stairs into the exciting world of colour and possibilities, the core of the Avery Dennison brand."

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## Dye-sublimation transfer printer opens door to new markets

Quality Print Services (QPS) has installed a Roland RT-640 dye-sublimation transfer printer at Magic Textiles' custom-built facilities in Leek, Staffordshire.

The Roland RT-640 printer will enable Magic Textiles to expand its services to include printed products made from man-made fabrics such as polyester. Ideal for businesses looking to get into sublimation printing, the printer has been designed to combine superb quality, productivity and value with ease-of-use.

Magic Textiles offers a full, bespoke textile printing service to a wide variety of customers ranging from major household brand names including Rolls Royce, J Barbour & Sons and Paul Smith through to small, independent designers.

Owner Lee Casswell comments: "Our new Roland printer has opened the door to some exciting expansion opportunities and enables us to offer printed polyester

textiles alongside our existing range of cotton and cotton mix products.

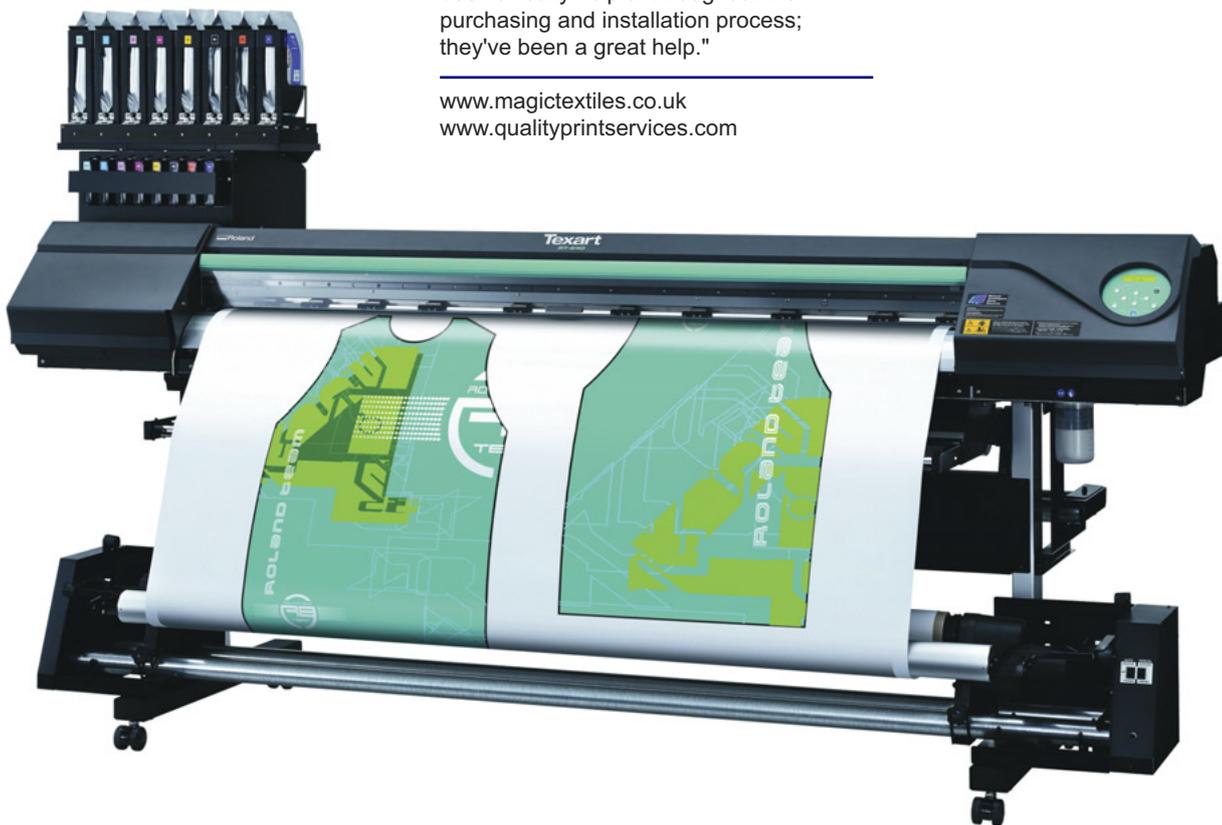
"It really was a case of dipping our toes in the printed man-made fabrics market. Since installation we've had enquiries from existing customers interested in flags and banners for outdoor use - something we were unable to offer until now."

The new printer is running Nazdar NDT600 Series high quality, alternative inks which are also supplied by QPS. Designed for use on any printer platform using Epson print head technology, these inks deliver an incredibly high print density, meaning customers can expect strong, vibrant prints with less ink required to achieve these results. Moreover, Nazdar inks are typically up to 30% cheaper than those offered by the original equipment manufacturer.

"We are really pleased with our recent hardware acquisition and are very optimistic about the opportunities it will open up for us," concludes Lee. "QPS has been a really helpful throughout the purchasing and installation process; they've been a great help."

Since installation we've had enquiries from existing customers interested in flags and banners for outdoor use - something we were unable to offer until now"

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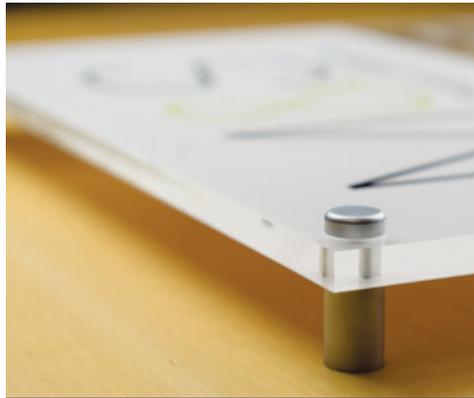
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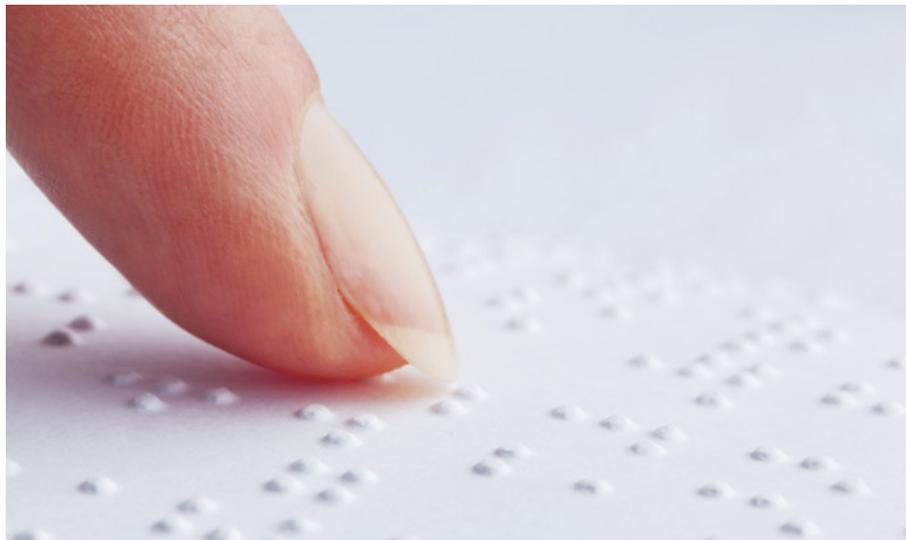
## UV printing: your next step into creative business

By Jack Gocher

If your business is looking to take the next step towards new markets, new materials and new workplace efficiencies, UV printing could be revolutionary technology for you. These easy-to-use systems are incredibly versatile and can be used to produce hundreds of new products, helping you to become a one-stop-shop for your existing customers or to diversify with innovative new products.

### A smooth learning curve

Rob Goleniowski, Head of Sales – UK & Ireland – Roland DG (UK) Ltd, explains, “For sign-makers who already use solvent printers, the learning curve is smooth but exciting. UV printers such as Roland VersaUV systems are easy to operate, suitable for use in most environments and are energy efficient, thanks to the long-lasting, low-temperature LED lamps that require no warm-up time. Many UV printers can be plugged straight into a standard electrical socket, meaning they can start generating profit almost fresh out of the box. Roland VersaUV printers can also be connected to a business's existing computer network and some can be operated remotely via an off-the-shelf



UV gloss ink can be printed in layers to produce Braille text

tablet or laptop, making life easier for small-business owners who can't be two places at once.”

He adds, “Specially formulated UV inks, such as Roland ECO-UV inks, are cured instantly using the LED lamps. Because these work at low temperatures, the technology can be used to print directly

onto heat-sensitive materials. In fact, the bonding ability and physical flexibility of UV ink makes direct printing onto almost any material or object possible, from reclaimed wooden signs to leather purses to plastic drinks bottles.”

### Technology that ticks a lot of boxes

As with all its printers, Roland says it is easy to achieve a wealth of colour with VersaUV. Vibrant, rich shades and accurate colour matches, including Pantone and brand colours, as well as crisp blacks and smooth greys. But UV printing offers more. In addition to CMYK, white ink is included to enable sharp highlights and punchy monochromes, or to print as a base layer on dark or transparent materials. There is also a gloss ink, for spot UV effects and eye-catching finishes.

Gloss inks can also be printed in layers to create genuine textures. For sign-makers, this makes tactile and Braille signage much easier to achieve than with other technologies, while enabling the addition of special effects on all kinds of work. “Roland VersaUV printers come with a Texture Library ready-stocked with dozens of textures – from woodgrain to snakeskin to raindrops – that can be used with CMYK and white to produce an almost infinite number of design combinations.



Sign businesses such as The Sign Shed achieve bold, accurate colours with UV ink

You can create and store your own textures too, tailoring designs to your customers," says Goleniowski.

## Exploring the options

These features can open new doors to sign-makers; you may find Roland VersaUV printers are a great complement to your existing technology. Among the range are the VersaUV LEC-330 and LEC-540, combined printer/cutters which offer all the benefits of a UV printer together with contour-cutting, embossing and creasing functionality, on a single device. The VersaUV LEC series is ideal for applications including window graphics, wall wraps, trade show displays, vehicle wraps and decals.

Goleniowski, "If you have the space, the Roland VersaUV S-Series is the latest addition to the collection. These UV-LED flatbed and belt printers are available in a range of sizes, offering the ultimate in versatility on a larger scale: you can use these systems to print directly onto big items like doors and surfboards, or on multiple small items at once."

Yorkshire-based health and safety signage specialist The Sign Shed invested in a Roland VersaUV S-Series LEC-330S-F200 in 2018, enabling it to print accurate CMYK, white and gloss directly onto typical signage substrates such as composite aluminium, rigid plastics, Foamex and Corex – a real time-saver

compared to its previous process of printing graphics and letters onto vinyl for manual application onto signage materials.

Crucially, as well as accelerating workflows, UV printing also opens the door to lucrative diversification. The personalised print sector is growing quickly, as more people demand unique products and discover what's possible with print. The Roland VersaUV LEF flatbed series is a trio of compact printers ideal for companies branching out into new areas like gifts, homewares or stationery – think customised photo frames, cushions and notebooks. Comprising the large VersaUV LEF-300, the medium-sized VersaUV LEF-200 and the compact VersaUV LEF-12i, the LEF series of printers are all designed to fit into any environment where personalised products may be created – from busy sign shops to independent retailers. Digital Benchtop UV Printing, an essential and free guide to product personalisation from Roland, will get your creative juices flowing – download it now to be inspired and find the right LEF for you.

## UV printers: money-making machines

Combined with ease of use and cost effectiveness, VersaUV can also offer a proven return on investment. Fancy Phone Cases, a small business based in Massachusetts, USA, says it made its



money back in just two months. Owner Luis Santiago started selling phone cases decorated with cartoons of real sports stars in 2013, but soon added the option of turning customers' own photos – of themselves, friends, family or pets – into cartoon likenesses to be printed onto clear phone cases. At this point Luis installed a Roland VersaUV LEF-12 UV flatbed printer, a compact benchtop system that could meet growing demand.

"After I got the Roland, that's when demand started to go through the roof," he says. "After buying one, I made back my investment in two months."

Fancy Phone Cases now uses a Roland VersaUV LEF-300, a larger version that also features bi-directional printing – able to cope with demand spurred on by word of mouth and social media. The free guide from Roland, Digital Benchtop UV Printing, makes it easy to choose the right compact VersaUV for your business and is available to download now\*.

From clear plastic phone cases to surfboards, from leather handbags to promotional pens, UV printing technology is being used by businesses for an almost infinite number of applications. Sign companies can join them to provide promotional products and small signage to existing customers, or offer a whole new raft of new ideas. If you're looking to take the leap, you won't be alone: the Roland Academy provides training in how to get the most out of UV printers, from short runs of small personalised products to one-off, large-scale signs, and all Roland VersaUV systems are supported with RolandCare warranties and advice from the Roland team.

"For a sign-maker considering taking the step into UV printing, the possible paths are endless," concludes Goleniowski.

[www.rolanddg.co.uk](http://www.rolanddg.co.uk)



Even round objects like golf balls can be printed directly with UV printers

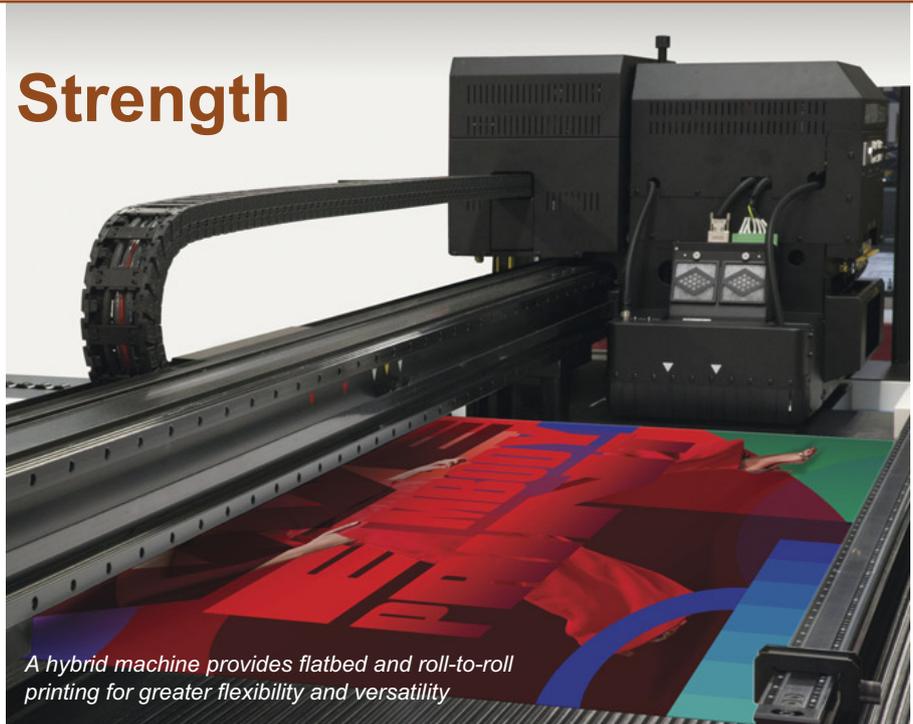
....Continued on page 58

## Agfa's UV LED Strength

Wide-format printing is a fantastic tool to win new business and improve customer retention, as there are so many exciting applications to create with today's technology. The key lies in being able to spend more time on the creative side of the value chain, and less in production itself. Entry-level wide-format solutions can be surprisingly automated, starting at file processing all the way to fulfillment.

The drivers to invest or re-invest in wide-format are as diverse as the solutions that are available in the market today, and the task of choosing the right system may feel like looking for a needle in a haystack. Bobby Grauf, Sales Manager UK & Ireland for Agfa Graphics, says, "There are technical aspects to consider—nothing beats seeing the kit in action, but also financial ones, of course. For the latter it's of vital importance to look beyond the investment cost and to compare the Total Cost of Ownership of the short-listed systems. And finally, it comes down to trusting the supplier to deliver on the promise. At Agfa we have the benefit of being able to offer almost every type of technology at various price points, which allows us to work together with our customers to find a sustainable solution that will secure the investment over the system's life cycle."

He continues, "In 2018 we introduced the Anapurna H1650i LED, a 1.65m hybrid (flatbed & roll-to-roll) UV LED system.



*A hybrid machine provides flatbed and roll-to-roll printing for greater flexibility and versatility*

Its small footprint and low investment point makes it the perfect production press for print service providers looking to expand their wide-format offering, enhance their quality and lower their overall production cost. The Anapurna H1650i LED is a direct derivative of the high-end Anapurna LED Series, and therefore includes all the unique Agfa benefits, such as our Thin Ink Layer Technology that delivers the highest print quality at the lowest cost of ownership in its class. Our workflow solution Asanti has also been adapted to the entry-level segment without losing any of its benefits."

Another key benefit provided by Agfa's LED UV printers is 'cold curing'. Grauf explains, "Cold curing refers to the minimal heat generated by UV LED lamps compared to UV mercury lamps. LEDs are cool to the touch and have minimal heat output, which is why they allow for a broader scope of print applications. They enable you to print on heat-sensitive substrates such as thin slides, self-adhesive sheets or stretched PVC materials, for example. Limited heat generation also enables very stable calibration. The combination of Agfa's proven UV LED curing technology, dedicated UV LED inks and Asanti workflow allows us to bring these benefits to the market without loss of quality or speed."

From an application point of view, Agfa considers interior decoration, in the home, office and industrial, as an exciting market. "In this market, UV offers a unique advantage in being able to print on all the various substrates, including vinyls, boards, wallpapers, metal and virtually anything else at high speeds & excellent quality," adds Grauf.

He concludes, "With the advances of Hybrid UV LED technology in terms of print accuracy, all of the above can be produced on a single engine without having to invest in dedicated flatbed and roll-to-roll presses. Agfa provides real value to sign-makers looking to increase revenue and profitability by expanding into exciting new markets."



*Agfa's latest Anapurna machine helping sign-makers enjoy the benefits of UV printing*

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## UV for High Value Printing from Mutoh

**It is very feasible for a print and graphics provider to introduce a high value print products service in to their portfolio. Such companies have the relevant experience in the graphics market, the design experience in-house and the market for the products. The equipment and process is easy to learn and operate and the blank products (if they choose to address that market) are cost effective and easy to obtain.**

As with any instance of adding a new service to an existing portfolio, initial market research within the company's established customer database is always recommended. Once demand is established there, the company should look outside its database to gauge demand there and decide upon the commercial feasibility in terms of growing their business.

According to Melanie Enser, Product Marketing Manager for Mutoh's exclusive UK distributor, Colourgen, "Typical applications examples that we have seen are packaging, industrial labelling, gadgets and promotional items and high value acrylic signage. Companies that have entered the high value print product market have all had relevant experience, established the return on investment and have the expertise in-house."

Mutoh offers a range of UV printers for virtually any application. The ValueJet VJ-626UF is a 6 colour (C, M, Y, K, White & Varnish) desktop A2-size flatbed LED UV printer with integrated vacuum bed. The VJ-626UF allows direct printing on a wide variety of flexible and solid materials up to 150 mm thick. An energy-efficient latest generation LED UV lamp ensures instant dry, ready to use prints and minimum energy consumption. Its reduced working temperatures also allow printing onto heat sensitive substrates.

Enser adds, "Compared to "classic" UV printing, Mutoh LED UV technology gives you all state-of-the-art health & safety and environmental benefits: no ozone generation, free of heavy metals like mercury and lead. Mutoh's LED UV inks and varnish are completely VOC-free, do not contain any hazardous air pollutants (non-HAP) and as such do not need an air purification system. Both flex and rigid inks are available."

The Mutoh ValueJet 1638UR roll-to-roll wide format UV LED printer is a 162 cm (64") wide printer specifically developed for the commercial print and sign & display markets. The printer uses Mutoh's flexible UV LED CMYK, White and Clear 0% VOC inks, which enable printing on the widest range of roll substrates.



*Mutoh shows the versatility of UV technology with direct printing to virtually any object or substrate*



Most recently, Mutoh has launched the ValueJet 1626UH 162cm (64") wide LED UV hybrid printer, which can deliver high quality prints on to a wide variety of roll and rigid media up to 15mm thick, including ABS, Alu-Board, PC, PE, PET, PMMA (acrylic), PP, PS, PVC, uncoated Tyvek and glass. Using the optional white ink the VJ-1626UH will print on to clear media for graphics that stand out while the optional varnish creates a great gloss finish.

Melanie Enser concludes, "The growth potential is more in niche applications now. There are many opportunities outside the promotional gifts market such as industrial labelling and high value acrylic signage for instance. Printers such as the Mutoh ValueJet 626UF (A2+) or ValueJets 1638UR/UH (64") as well as the software, make it easier to address these. It's a matter of market knowledge, exploring and either having or looking for high value applications outside of the established markets."

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



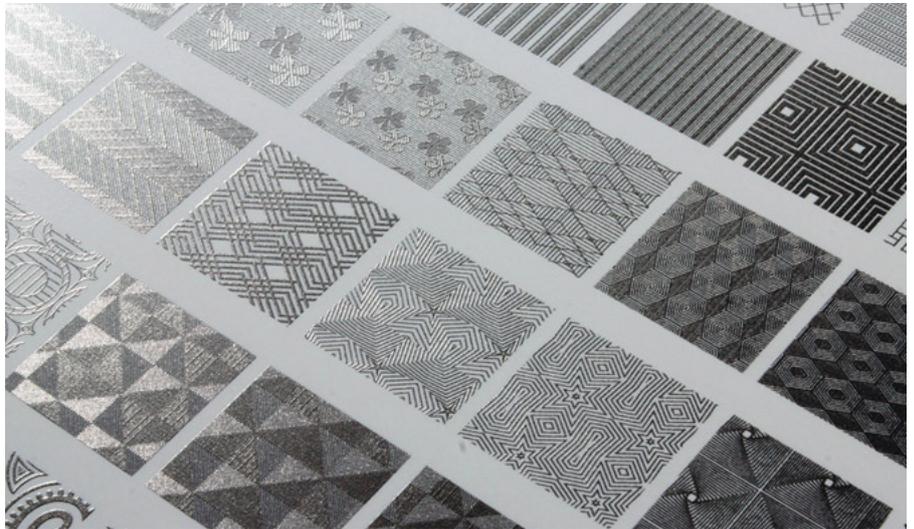
# Mimaki Covers it All

Mimaki is one of the industry's pioneers in UV printing and has a comprehensive range to match this claim. From desktop models for personalised products, through roll-fed, hybrid and full flatbed printers, there is a Mimaki solution that fits the needs of any sign-maker or print provider.

In the last issue discussing entry-level machines, we talked about Mimaki's roll-fed UV printers, the Mimaki UCJV Series. This is a new and innovative range of LED UV printer/cutters with unique creative features, low running costs, the ability to print to a wide range of materials and a highly efficient workflow. This printer represents a great value introduction into UV printing, particularly where space is at a premium.

On the larger side, the latest offering from Mimaki is the JFX200-2531. Brett Newman, Chief Operating Manager for Hybrid Services, Mimaki's exclusive distributor for UK and Ireland, comments, "The new JFX200-2531 meets the requirements from our customers for a larger print space by offering a print area twice the size of its stablemate and a unique "toggle print" function that increases productivity and improves continuous running capability by allowing operators to load one board while another is printing."

The new, large flatbed UV-curable inkjet printer is compatible with media up to 2.5 x 3.1 metres, increasing the application range to accommodate large signs, wall



Decorative options such as texture expression with embossing effect can be achieved using Mimaki's new metallic ink

decorations, doors and other large items. It can also accommodate two signage boards of the popular 1,220mm x 2,440mm (4ft x 8ft) size, allowing print companies to benefit from the added productivity enabled by the toggle print function. This makes the JFX200-2531 the ideal flatbed printer for growing sign and display companies.

Additional features of the new JFX200-2531 include improved media handling and an ionizer that eliminates electrostatic discharge which can affect image quality. Anti-banding functions and variable dot printing also contribute to the creation of

smooth, exceptionally high-quality images. Finally, a vacuum pedal is now included as standard for hands-free operation of the media vacuum function.

## Stretchable inks

Mimaki provides a wide range of inksets to accommodate the broadest range of applications, including LH-100 scratch resistant ink, LUS-120, LUS-150 and LUS-170 inks suitable for printing on soft materials. The LUS-200 ink is ideal for outdoor applications with its superior resistance to sun, rain and other adverse weather conditions and LUS-350 ink is a unique, stretchable ink suitable for a wide range of shaped or moulded applications, with the ability to stretch up to 350% without cracking.

The stretchable ink has changed the way vacuum moulded, or thermoformed applications are created because it brings the benefits of digital printing to a thriving market sector. Previously it was necessary for moulded objects to be formed prior to the images being applied manually or by screen printing, which is a time-consuming and expensive process. Mimaki's ink technology allows thermoformed objects to be imaged before forming, using Mimaki digital printers running inks that will not crack or otherwise be damaged during the heat-based forming process. This process provides a beautiful finish for a wide range of applications such as car parts, mock-ups, moulded signs and more.



Mimaki's new stretchable inks can be applied before moulding takes place for dramatic effects

.....Continued on page 62

# UV Feature

## The Personal Touch

Mimaki has also long been a market leader for direct-to-object digital printing technology and products, with its UJF-MkII series small-format LED UV flatbed or the larger JFX200 series. These machines give print providers plenty of opportunity to incorporate high value printed items into their offering.

Newman explains, "Printing direct-to-object opens up a world of personalised and bespoke products, whereby end users can request a specific design or their image be printed to an item, making it unique to them. The Mimaki UJF MkII is perfect for printing individual items or small batches because it can handle variable data and print highly efficiently on small runs. This isn't just the case with individuals though, as many businesses large and small invest substantial funds into the production of branded marketing collateral. Whoever it's intended for, adding print to a product adds value and if you can offer something a bit unique, like embossed effects or spot varnish, it will increase the value and thereby the profitability of each project."

He adds, "Mimaki's range of UV inks produce stunning effects and enable very creative opportunities. Mimaki's clear varnish is perfect for spot varnish or creating an embossed effect which automatically makes a product look more desirable. White ink enables reverse

printing whilst ensuring vibrant colours and this opens up a whole host of creative opportunities such as printing wedding photos onto acrylic blocks or wall-mounted panels, as well as other bespoke interior décor items including glass splashbacks and tiles.

"It is easier than you may think to get into higher value printed products and with products like Mimaki's UJF MkII series there are no start-up costs other than the initial hardware investment. This means

you will have short lead times and complete control of the process from start to finish. It's about being creative with inks and effects and thinking outside the box in terms of what products can actually be printed onto. Mimaki also has a printable primer option which means materials that were previously tricky to print onto directly now have excellent adhesion."

## Heavy Metal!

Mimaki recently announced a UV-curable metallic ink, named MUH-100-Si in February 2019 that opens a further range of application possibilities for the Mimaki UJF 7151plus flatbed printer. "The new MUH-100-Si UV-curable metallic ink will bring a strong competitive edge to Mimaki customers," says Newman, adding, "It will allow them to provide added value to the brands who use their services. Whilst metallic effects on printed products typically require further processing and manual handling after printing, Mimaki demonstrated the new ink at the C!Print exhibition in France in February and visitors saw how the new technology can be used to produce impactful prints."

Brett Newman concludes, "As an industry direct-to-object printing is flying! New inks and primers have opened up a vast selection of objects that can be printed to and the industry is beginning to explore some highly creative avenues in this sector and 'stretch its legs' with interior décor, personalised giftware and marketing collateral. It's a trend that is set to continue."



*The new Mimaki JFX200-2531 offers a large print table for a great range of applications*

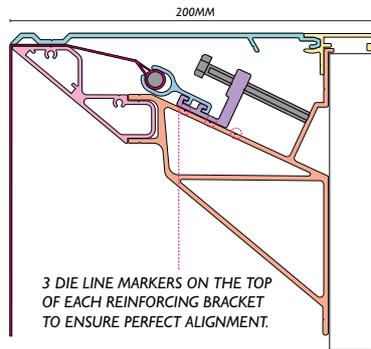


*Mimaki's UJF and JFX range can print directly to virtually any product*

[www.hybridservices.co.uk](http://www.hybridservices.co.uk)

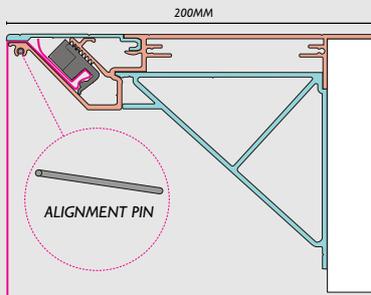
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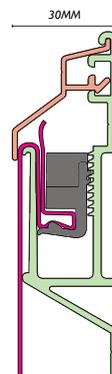
## NOVAFLEX

A robust single sided, full perimeter tensioning system which comfortably produces large flex face light boxes. The system uses a rod and puller method and can be rapidly tensioned from the front using power tools creating wrinkle free images every time.



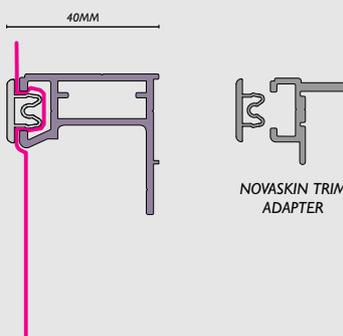
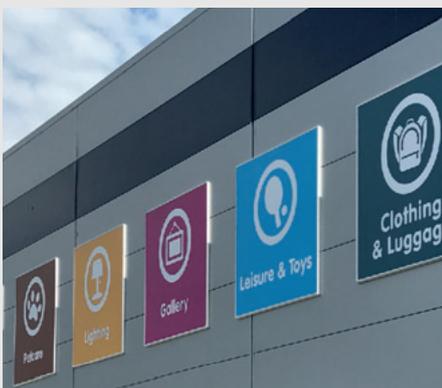
## NOVACOMP

Incorporating the popular black clip tensioning system NovaComp is available at both 135mm and 200mm depths. Light boxes are competitively produced in all shapes and sizes and can be delivered to site or your premises.



## SIGNCOMP FRAME

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## NOVASKIN

An innovative framing system which brings flex face competitively to the High Street. The system also incorporates a bead adaptor for use with standard light boxes.

## Upskill to keep pace with consumer demand

Over the coming months Antalis will be expanding the regional presence of its Academy. Starting with the Signmaker's Workshop, which is currently being rolled out across the UK, manager Rick Lee explains why training is a must for those looking to develop their skills in media application.

The art of signmaking has evolved in recent years as the interest in vinyl wrapping for personalisation, branding and advertising in particular has seen a surge in response to consumer demand. So too has vehicle graphics and correspondingly the number of customers looking to upskill. Many printers have started the journey to diversifying into this area yet the skills and capability to effectively and professionally apply these complex media types has not kept pace.

That is why expert advice can prove extremely valuable. From hands-on training and live demonstrations on the latest techniques to understanding the common pitfalls of selecting the right media, application and post-wrap care, industry leading training can make a significant difference to achieving that all-important quality end result.

### Signmaker's Workshop

The Signmaker's workshop is a dedicated one-day training programme; application of a product is equally as important as the design or print and this course aims to support anyone involved in the fitting or application stage. Commercial printers new to the sign and display market, new employees of existing businesses and even colleagues from a non-production environment, should benefit from the day.

Traditionally taking place at the purpose-built Antalis Academy in Coalville, Leicestershire, due to popular demand, later this year the over-subscribed course will be rolled out for the first time to South West England, Northern England, Scotland and Ireland.

This workshop is led by industry expert Paul Hughes who provides a full baseline level of knowledge across various applications including what media to use when building your expertise in signmaking.

Combining hands-on practical advice and live demonstrations with interactive elements using Antalis' market-leading range of visual communication products, the interactive format includes a Q&A session where delegates are encouraged to share particular queries or issues, which are then addressed with sound advice and guidance.



*The workshop combines hands-on practical advice and live demonstrations with interactive elements*

Essentially, not only does the workshop teach vital practical skills in signmaking but many attendees will leave feeling confident that they can solve any future issues that may arise. Ultimately, the

### Paul's top tips

- n Understand the media and why it is important to pick the right materials for the job.
- n Use the right tools: even utilising the humble squeegee correctly can transform or break any application.
- n Don't bite off more than you can chew: jobs should always be broken down into smaller, manageable chunks.
- n Spend to save: sometimes opting for premium products such as vinyl with air-free adhesive can save time later by speeding up application and saving money on the job.
- n Where there is abrasion over a digital print, lamination can make fitting much easier.

objective is for all participants to understand the first steps of vinyl application, basics of vehicle livery and basics of signboard making.

In terms of vinyl applications, an overview will be provided on when and what type of media to use, with demonstrations on preparing surfaces and key application techniques including weeding and applying applications tapes, use of water/application fluid and applying basic texts. There will be a focus on applying multi layers of vinyl, floor coating of substrate with vinyl and working on glass using etched films.

Meanwhile, when it comes to vehicle graphics, the end customer ranges from motor sport teams to corporates with large fleets. Therefore, the training includes learning the basics of vinyl lettering on commercial vehicles including general advice on layout, cleaning and preparation; applying digital prints to a vehicle, applying vinyl over recesses and basic curves and explaining why choosing the right type of vinyl is imperative for this.

As for teaching the first steps of making a signboard, the course will cover the different types of substrates on offer and their suitability for different applications, reinforced by information on cutting and finishing including the finishing of banners and what types of fixings to use.

Building on this, the training will feature a step-by-step guide to making your own sign trays, advice on frames and making and fitting your own flat cut letters.

### About the tutor

With more than two decades of practical experience under his belt, Paul Hughes began his career as a traditional sign writer, eventually transferring into the vinyl graphics market as the sector rose to prominence in the industry. Having previously run his own successful signmaking business and a published author on the topic, Paul's knowledge of signmaking makes him ideally placed to highlight common pitfalls and help those looking to gain experience in this area.

[www.digital2business.co.uk/antalis-academy](http://www.digital2business.co.uk/antalis-academy)

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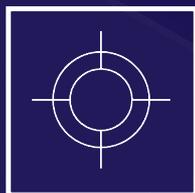
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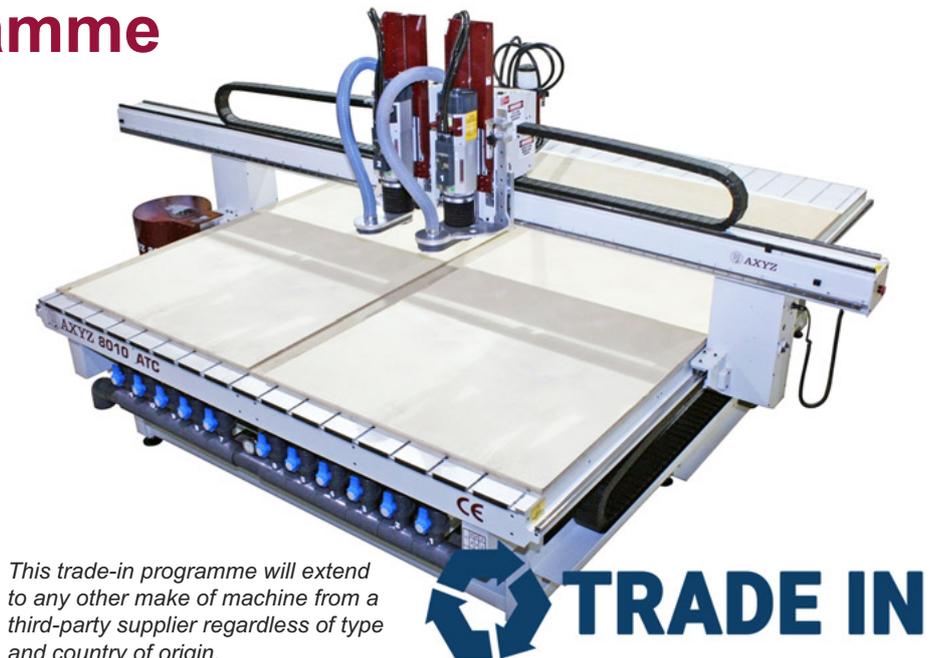
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## XYZ launches enhanced machine trade-in programme

Following the success of its Pacer machine trade-in programme, XYZ Automation Group is launching an initiative that will have a much broader appeal to potential purchasers of XYZ CNC routers. This programme will extend to other makes of machine from a third-party supplier, regardless of type and country of origin. With its trade-in allowance of up to £7,500, the trade-in is available to smaller companies wishing to replace a router that had failed to perform to the required and promised standard.

Such machines are invariably purchased on the basis of price alone from suppliers that have limited resources and frequently change product lines to reduce their own costs. This often leaves buyers with unsupported equipment and no immediate access to essential spare parts and accessories or reliable ongoing technical support. Invariably, this has resulted in sub-standard and unacceptable output, dissatisfied customers and the potential for a huge financial loss

Apart from the financial attraction of the generous trade-in discount, owners of new XYZ routers will benefit from a raft of production enhancements. Typically, these will include much higher feed rates, smoother motion for optimum material edge finish, a wider choice of routing/cutting heads and accessories, improved material hold-down capability for greater accuracy and fully integrated dust extraction and workplace safety systems.



*This trade-in programme will extend to any other make of machine from a third-party supplier regardless of type and country of origin.*

Collectively, these will enable much higher levels of productivity, radically reduced material wastage, a longer than normal machine life, enhanced customer satisfaction and increased profitability.

Purchasers of a new XYZ router will have shared access to a wide range of both standard and optional machine tool enhancements including an expanded (up to 33 stations) ATC (Automatic Tool Change) and the latest XYZ Auto Zone Management system for optimum material hold-down efficiency. These are supplemented with the latest A2MC machine controller that greatly reduces or

eliminates 'bounce' and vibration caused by sudden acceleration/deceleration frequently experienced with less technically advanced systems and the integrated AVS (XYZ Vision System) that provides greatly improved routing/cutting accuracy. Completing the options available is the latest helical rack and pinion drive system incorporating a multiple gear teeth configuration. This enables more even distribution of the workload, faster throughput rates, reduced material wastage, quieter operation and ultimately a longer than normal machine life.

[www.xyz.co.uk](http://www.xyz.co.uk)

## Signs Express Leeds "best signage company"



*Signs Express (Leeds) has been named as one of the top three signage companies in Leeds by an independent ratings company.*

Signs Express (Leeds) has been named as one of the top three signage companies in Leeds by independent ratings company Three Best Rated. Signs Express (Leeds) came out on top, scoring at least 9 out of 10 for every category. The Best Rated employees handpick the top three local business per industry in different areas after extensive research into company reviews, reputation, ratings, satisfaction, trust, cost and general excellence.

The Three Best Rated review states: "It is equipped with cutting-edge technology and staffed with highly skilled personnel able to tackle the most demanding jobs effectively and efficiently, offering their

clients the most effective sign solutions and providing quality products."

Director of Signs Express (Leeds) Kim Nurse comments: "I'm so proud of my team. There are a lot of sign companies in Leeds so to be recognised as the top signage company is credit to each and every one of the team."

Signs Express (Leeds) delivers high quality solutions across a wide variety of signage and graphics solutions for local businesses from vehicle graphics to illuminated letters.

[www.signsexpress.co.uk](http://www.signsexpress.co.uk)



# Baillie Signs official supplier for European Athletics Indoor Championships

Baillie Signs was an official supplier for the European Athletics Indoor Championships.

Director Derek Minto says: "We were delighted to be asked to become an official supplier to the Glasgow 2019 team and had no hesitation in accepting.

"With our strong background in providing event signage we were very much looking forward to working with the Glasgow 2019 and European Athletics teams," Sales manager Paul Lennie adds: "This is

a milestone moment for Baillie Signs and reinforces our reputation for providing print and branding solutions for some of the biggest brands across the UK."

Baillie Signs played a key role for Glasgow 2019 as it provided field of play sponsor branding, trackside boards and wayfinding signage across the venue and official hotels.

With their track record, creativity, quality and ability to handle everything from initial

"Known for their creativity, Baillie Signs played a key role in bringing the Championship to life come event time"



Baillie provided field of play sponsor branding, trackside boards and wayfinding signage across the venue and official hotels.

design and fulfilment, through to installation by their in-house team, they played a pivotal part in the look and feel of the event.

Cherry Alexander MBE, major events director at British Athletics and sport director for Glasgow 2019 adds: "As the European Athletics Indoor Championships Glasgow 2019 edged closer and closer, it was great to get such high quality Scottish companies on board. Baillie Signs, known for their creativity and range of products, played a key in role in bringing the Championships to life come event time."

[www.bailliesigns.co.uk](http://www.bailliesigns.co.uk)

## ISA-UK offers online training and research

ISA-UK, powered by British Sign and Graphics Association, now provides members access to online training and research through the website. These benefits come from the newly forged relationship between ISA and BSGA which took effect 1 January.

Visitors to the website can access ISA's online learning portal which provides 24-hour on-demand learning courses in six subject areas, all designed to strengthen job skills while saving time and money.

Upon completion of an online learning course, participants receive a digital certificate showing proficiency. Digital

badges are a portable, verifiable and secure way to showcase the skills and competencies learned. ISA-UK members will have access to recorded webinars and co-branded research and white papers.

The Sign Research Foundation reports and ISA white papers are designed to help sign and graphics businesses anticipate opportunities for expansion and learn best practices. In addition, members receive free trade show admission and discounts to educational programmes at ISA International Sign Expo 2019 which takes place 24-25 April.

[www.uksigns.org](http://www.uksigns.org)



## UK customers lead the way with 'Make the Difference' campaign

Mimaki has launched its 'Make the Difference' campaign, designed to celebrate Mimaki-powered print innovation and customer success. Produced by some of the most inspirational print service providers and brands across Europe, the project explores digital print diversity with stories focussing on applications from a variety of sectors.

Encapsulated by the campaign's full title: 'Your Inspiration, Our Innovation, Make the Difference', the initiative showcases innovative, high quality and creative

commercial projects produced by Mimaki customers. The campaign will form an inspirational catalogue of best-in-class printed applications to drive increased ideas, knowledge sharing, business growth and profitability.

"We are delighted to launch this campaign today and further support and celebrate our amazing customers," says senior marketing manager Danna Drion.

"At Mimaki we see success as a team effort. By working together we can fuse

creativity, technology and energy to deliver incredible results."

The first series in the campaign features Mimaki customers in the UK including Gate7 and its client KUHN, a leading UK-based manufacturer of farm machinery, as well as the award-winning University of Huddersfield. Chief operations manager at Mimaki's UK and Ireland distributor Hybrid Services, Brett Newman comments: "Mimaki's 'Make the Difference' campaign promises to fuel the printing industry in the UK with an exciting and creative flow of customer stories and application possibilities. We're incredibly proud of both Gate 7 and The University of Huddersfield who are leading the way in this first phase of the campaign and we look forward to sharing the stories, blogs and other content to our audience here in the UK and Ireland."

Mimaki Europe has created a 'Make the Difference' landing page that will feature all the stories and blogs in a dedicated space: [www.mimakieurope.com/MTD](http://www.mimakieurope.com/MTD).

"The first technical blog will explain a set of Mimaki's proprietary core technologies used to ensure stable production and continuous operation to deliver superior results," concludes Brett. "This content follows on from the Core Technologies area of Hybrid's website that we curated last year to delve deeper into what makes Mimaki's printing technology superior."

[www.hybridservices.co.uk](http://www.hybridservices.co.uk)



The first series in the campaign features Mimaki customers in the UK including Gate7 and its client KUHN, a leading UK-based manufacturer of farm machinery.

## Agfa print expert joins Josero senior management



Steve Collins has joined Josero as director of sales and marketing. Following 20 years in senior sales and marketing roles at Agfa Graphics with responsibilities for the wide format reseller channel in the UK, Steve brings considerable experience to the Josero management team.

Managing director Loic Delor comments: "Josero is an authorised partner for Agfa. I've been impressed with Steve's knowledge of the wide format print market.

"His ability to deal in a complex, multi-layered sales environment combined with his positive and approachable manner will

be a great asset to Josero and we're delighted to welcome him to the team."

Steve will be responsible for the new equipment sales division via direct and indirect channels. He will take the lead on all promotional activity to build the Josero brand including marketing management.

"There is so much potential with this role and I'm very much looking forward to working with Loic and his team to contribute to the expansion of this growing business," says Steve.

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

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## Investment brings period of growth and confidence in the future

Leading UK trade supplier William Smith Group 1832 has experienced a period of growth following significant investments within the company and its portfolio. During the past five years, the company has invested in an advanced education facility and hi-tech equipment.

Launched last year, the Training Academy uses the firm's century of experience in the sign, graphics and interiors industries to train and inspire businesses to explore new markets, upskill their workforce and identify growth opportunities. Currently offering 10 courses ranging from film application and wrap training to sales, William Smith Group 1832 hopes to increase that number. In addition, the company has invested significantly in advanced manufacturing equipment including a channel letter bender, powder coat facility and a pre-wash station for Smith, the trade-only supplier and manufacturing division for signage. This equipment has helped the business to improve efficiency, reduce lead times and provide higher quality products.

Due to increasing demand for its products, trade manufacturing at the company has flourished, leading to it moving its fabrication team into a new factory which is double the size of the previous facility and employing 10 new recruits over the past three years.



*Investment in advanced manufacturing equipment includes a powder coat facility with spray booth.*

The company has expanded its material product offering with the introduction of vehicle wrap and architectural films and accessories including new additions from VION, Avery Dennison, Arlon, 3M and

Cover Styl'. Head of marketing Chris Bradley comments:

"It's been a very busy period for the business but the growth we've experienced, in these uncertain times, has been great and thanks to the investments we've made, we've been able to continue to develop as demand has increased.

"The Training Academy has been our biggest venture and it shows our commitment to developing skills, introducing new services and boosting businesses across the industry.

"From improved marketing and sales resources to the channel letter bender which is used to create built-up letters, and the powder coat facility, we've been able to save time, produce outstanding finishes on signage and ensure our customers receive superior products and materials.

"I cannot wait to see what the next five years have in store for the business. We will continue to grow our team, infrastructure and portfolio to meet our customers' needs."



*The company has expanded its material product offering with the introduction of vehicle wrap and architectural films and accessories.*

[www.williamsmithgroup1832.co.uk](http://www.williamsmithgroup1832.co.uk)



## Rebrand and expansion into new markets for Sygnet Signs

Sygnet Signs has recently undergone a rebrand. The Sygnet Group and its managing director Gary Iley aim to expand the company's repertoire and appeal to a whole new customer base in the process.

Sygnet was one of the first British companies to pioneer the use of LEDs to illuminate its creations when the majority of signage firms were still installing neon and incandescent into theirs.

Sygnet wasn't always a trade only company. Never one to shy away from necessary change, Gary brought about the evolution from end-user to trade around a decade ago.

"We wanted our clients to know they could count on us to manufacture and deliver high quality products to their exact specifications without making a huge song and dance about it," says Gary.

"We noticed a gap in the UK signage market and moved in to seize it. That's what being a business in today's economy is all about. In light of Brexit which has brought about the demise of many UK companies, we felt the time had come for us to expand into other areas and the name change absolutely frees us up to achieve this."



*Sygnet was one of the first British companies to pioneer the use of LEDs to illuminate its creations.*

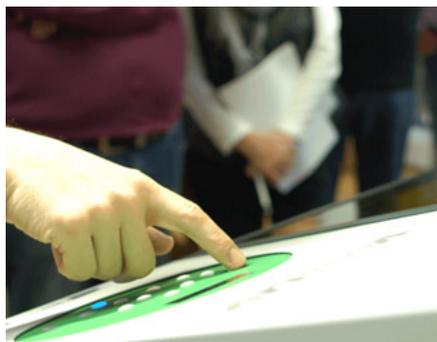
Beneath the Sygnet Group umbrella, Gary intends to use his knowledge of LED lighting technology as well as his business and fabrication savvy to launch assaults on several different and widely diverse markets. These include an e-commerce

website and several already successful retail outlets. He has invested in a marketing team to ensure that people hear about his numerous business ventures.

[www.sygnet-signs.com](http://www.sygnet-signs.com)

## Roland offers webinars on demand

The Roland Academy has made recordings of its webinars available on its website, allowing users to catch up on demand. Hosted by members of the



*This on-demand service lets participants of the live webinar to watch again, revising their newfound knowledge.*

Roland team and featuring occasional guests, these free webinars allow print professionals to take the next step in their print journey without leaving the office. These online seminars cover a range of subjects from colour management to design software tips, helping businesses across the world access practical advice and explore eye-opening innovations.

While these webinars are delivered live, recordings are now available shortly afterward. As well as allowing those unable to take part to catch up later, this on-demand service lets participants of the live webinar to watch again.

Webinars available to view now include those specific to Roland systems such as New VersaWorks 6 overview and BN-20 printer/cutter tips and tricks. More general subjects covered in the catch-up training

include Colour matching for beginners, Working with ChromaLuxe and Designing for UV print.

"The Roland Academy webinars are perfect for users who want to get the most out of their investment but we want to help all print professionals learn new things, develop their skills and grow their businesses, whether they use Roland equipment or not," says Roland Academy manager Joe Wigzell. "We're building up a valuable webinar library that people can access any time they like or watch again and again to cement what they've learnt."

Webinar students are only required to register with a few details to take part. Suggestions for topics of future webinars are warmly welcomed.

[www.rolanddg.co.uk/webinar](http://www.rolanddg.co.uk/webinar)

## Signs Express convention highlights 2018 achievements

With the theme 'Stronger Together', Signs Express' 2019 convention held at Twickenham Stadium was hailed as a huge success. Kicking off proceedings, managing director Jonathan Bean, highlighted the achievements of the Signs Express network and Franchise Support Centre team, all contributing to the overall network performance growth in 2018.

Jonathan said: "2018 has been a year of real progress underpinned by our network expansion and sales growth.

Our continued success is built around network collaboration, the support we deliver to our franchisees and the relationships we all build with our suppliers and business partners. I absolutely believe that we are stronger together and I am certain that today will be a terrific demonstration of that."

A total of 28 suppliers joined Signs Express attendees comprising a supplier exhibition which ran throughout the event, with HP and Metamark featured as partner sponsors. Metamark was announced as Supplier of the Year 2018, voted for by the 65-strong Signs Express network.

Informative hands-on seminars were held throughout the convention by key suppliers to the network including a practical demonstration of architectural

"Our continued success is built around network collaboration, the support we deliver to our franchisees and the relationships we all build with our suppliers and business partners"



Informative hands-on seminars were held throughout the convention by key suppliers including a vehicle graphics application by Spandex.

materials by The William Smith Group, LEDs from The Sign Group, wall coverings from Papergraphics and vehicle graphics application by Spandex. Seminars covered key topics including a digital signage workshop from Inurface Media and Innovation and Future Trends seminar by Make It Happen Signage Consultancy.

The day culminated with the presentation of the Signs Express Sign Awards 2018, with trophies awarded to the Newcastle, Falkirk and Birmingham SW centres for Most Striking Design, Best Interior Sign and Best Vehicle Graphics respectively, with Signs Express (Stoke) taking home two trophies for Best Interior Sign and Best Sign Project.

Jonathan Bean took the opportunity to make special recognition presentations to Graham Casey of Signs Express (Glasgow), Joe Smith of Signs Express (Birmingham SW), Paul and Lynda Heywood of Signs Express (Harlow), Janiv Patel of Signs Express (Milton Keynes) and David Anthony of Signs Express (Warwick).

Franchise Awards presented included The

Ambassador of the Year to Thomas Somers, director of Signs Express (Lancaster) and Newcomer of the Year to Ian and Priya Lawry, directors of Signs Express (Oxford) for "putting in phenomenal effort, relentlessly and commercially driving their business forward."

Craig Tiley, director of Signs Express (Stoke) took home the prestigious Signs Express Franchisee of the Year award for 2018 and the centre's two Sign Awards.

"Craig has consistently gone above and beyond, always pushing himself and the business to adapt and grow with creative flair and an open mind to trying new things," commented Jonathan Bean.

"Each month in 2018 his centre surpassed prior year performance, increasing annual sales by 50%. With planned investment in the premises and territory expansion we are genuinely excited about where this business can go over the next few years and look forward to working with Signs Express (Stoke) to make it happen."

[www.signsexpress.co.uk](http://www.signsexpress.co.uk)

# signmakers

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# SIGN Here...

LASER CUTTING



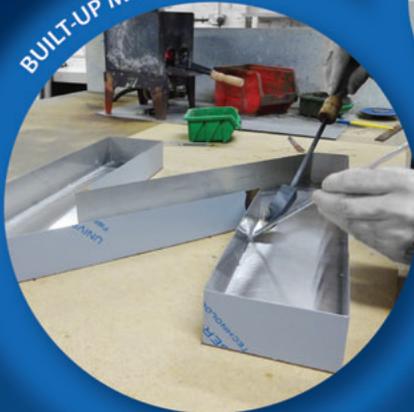
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**ECOLUX<sup>TM</sup> 2019**



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### **Portland Lighting opened its doors in January 1994 in Witton, Birmingham.**

With just two lanterns as a product range we developed SIGNLUX, our first fluorescent sign light which quickly became a firm favourite with the UK's sign makers. Over time, the evolution of LED came along to test us fluorescent dinosaurs. 25 years of development, knowledge and expertise has resulted in today's innovative, slimmest and best-selling ECOLUX MINI LED sign lighting system.

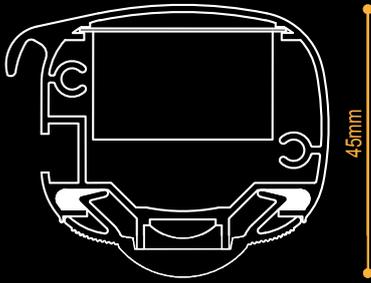
**From all of us at Portland, we sincerely thank you for your business and support.**

# The all **new** Ecolux Mini



The UK's No.1 Sign Lighters.

The best things are always simple, and our latest LED sign light is jam-packed full of new ideas and innovative design.



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45mm casing is the slimmest available in the UK with integral drivers.



**The new IP68 connector**  
is concealed within a new cast aluminium chamber and sits comfortably in a step grommet allowing cables to freely pass through for easy installation of longer runs.



**Smart new cast** end caps with rear entry cable glands, tidy and conceal unsightly cables from view.

**The clip fix** uses a clever and unique spring clip fixing captive in the channel at the rear of the sign light. The clip slides and springs over a retaining nipple on the bracket fixing.

**Behind Ecolux Mini's** 90° magnifying lens, the superb 1650 lumen 14.4W per metre LEDs deliver a punch to sign fascias and an unrivalled performance of even illumination.

**The new Multi Bracket** is double slotted allowing the fitter to orientate the back plate fixing position from horizontal to vertical in an instant.



## E<sup>C</sup>MINI LUX™

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## Sign & Digital UK 2019 Exhibitor List

J44	2innovate Solutions	G10	CMYUK Digital	H20	Hangzhou Bannermate
P20	ABC Display Industry	M2	Colyer Reproprint		Exhibition System Co
E41	ACPASS	L30	Complete CNC Solutions	P23	Heathcoat Fabrics
	Adobe Theatre	E42	Corel UK	L40	HEXIS UK
M22	AE Sewing Machines	P26	CTR Lasers	B10	HP Inc UK
D20	AG/CAD & DYSS	K14	Cutting Edge Carbide	J36	HPC Laser
D2	Amaya Sales UK	M14	CuttingmatsXX	F10	Hybrid Services / Mimaki
H30	Antalis	A10	D&K Europe	G20	InkTec Europe
F38	Anylux Co., Ltd	P44	DCR Machines	L12	Innotex Transfer Technology
D44	Arken	D12	Digiprint Supplies	P50	IPIA
B10	Art Systems	M33	dotMedia Printing House	M37	ISA UK
H40	Ashby Signs	C46	DTP Supplies	B2	I-sub digital
J12	Assyst Bulmer	P53	Durable (UK)	G40	ITC
D14	Atech Ltd	J26	Emo Neon	J3	J B Art Studio
D10	Atlantic Tech Services	E30	Epson	E20	Josero
P10	Automatic Letter Bender	G10	Esko	B42	Kapow Network
P54	Award Crafters	K6	Fleet Design Chevrons	E32	Kavalan
J20	AXYZ International	H48	Gazeboshop	K22	Landor UK
B20	Blackman & White	E40	Global Erecting Sign Services	A20	Lion Picture Framing
C13	Boxford	K36	GMG Color		Supplies
M8	Brand-It Technologies	J2	GOQLED	P18	Liquid Lens Systems
G42	CADlink Technology	G30	Grafityp UK	J14	Liteks Plastik
	Corporation	A14	Granthams UK	D43	M3 Online
E10	Canon (UK) Ltd	A36	Graphtec GB	J4	Merlin Tools
P43	Chang Xin Yu Canvas Co	D42	Gravograph	M18	Merlin Transfers
K12	Changzhou Best Display	C12	Guandong UK	C2	Mida Sign Services
M13	Changzhou Chuanglian	H45	Guandong Chuse LED	B10	Neschen
F32	Clarity LED		Sign Co	F40	Nova Chrome UK
G44	Clarity Software	D32	Guangzhou Goodsense	B10	Onyx Graphics
			Decorative		
		P24	Haining Jinmao Warp		
			Knitting Co		



<b>C22</b>	<b>Photo USA Electronic Graphic</b>	<b>F44</b>	<b>shopVOX</b>	<b>C20</b>	<b>Target Transfers</b>
<b>L20</b>	<b>Premier Paper Group</b>	<b>J38</b>	<b>SIGNET Sign System</b>	<b>F46</b>	<b>Tecna UK</b>
<b>F20</b>	<b>printMAX</b>	<b>K20</b>	<b>Singgeer</b>	<b>L36</b>	<b>The Magic Touch</b>
<b>C34</b>	<b>PROTEK</b>	<b>P8</b>	<b>SignLink</b>	<b>A12</b>	<b>Thinklaser</b>
<b>M15</b>	<b>Pureimage Print</b>	<b>P55</b>	<b>Sign Making Tools</b>	<b>M12</b>	<b>Trade Etching Direct</b>
<b>H2</b>	<b>Quality Print Services</b>	<b>C30</b>	<b>Signmaster Systems</b>	<b>P16</b>	<b>Trade Sign Shop</b>
<b>C40</b>	<b>R A Smart/Rexframe UK</b>	<b>M4</b>	<b>Sign Update</b>	<b>K22</b>	<b>Trimalco</b>
<b>C15</b>	<b>Resolute DTG</b>	<b>L18</b>	<b>Signwaves</b>	<b>L10</b>	<b>Trotec Laser</b>
<b>J30</b>	<b>Ricoh</b>	<b>J37</b>	<b>Signzworld</b>	<b>K4</b>	<b>UK Feather Flags</b>
<b>C26</b>	<b>Righton Blackburns</b>	<b>B10</b>	<b>SiHL</b>	<b>M32</b>	<b>UK Industrial Tapes</b>
<b>F30</b>	<b>Roland DG</b>	<b>D40</b>	<b>SloanLED Europe</b>	<b>J10</b>	<b>Ultima Displays</b>
<b>D38</b>	<b>Rollsroller</b>	<b>K5</b>	<b>Solar Illuminations</b>	<b>H24</b>	<b>Very Displays</b>
<b>K10</b>	<b>Sabur Digital</b>	<b>G2</b>	<b>Solent Sewing &amp; Welding Machines</b>	<b>K34</b>	<b>Viscom LEDS and Frames</b>
<b>B38</b>	<b>Screenspace Digital Signage</b>	<b>C10</b>	<b>Spandex</b>	<b>J40</b>	<b>Vivid Laminating Technologies</b>
<b>L42</b>	<b>Secabo UK</b>	<b>M30</b>	<b>STADUR Produktions</b>	<b>C16</b>	<b>William Smith Group 1832</b>
<b>L32</b>	<b>Shanghai Helen Metal Decoration Co</b>	<b>H42</b>	<b>Stanford Marsh I plot-IT</b>	<b>L38</b>	<b>Wrights Plastics Group</b>
<b>L34</b>	<b>Shanghai Oursign Industrial Co</b>	<b>D22</b>	<b>Substance Europe</b>	<b>E2</b>	<b>Your Print Specialists</b>
<b>P40</b>	<b>Shanghai Soardist Display Co</b>	<b>B10</b>	<b>Summa</b>	<b>D36</b>	<b>Zhaoyuan Golden Realm Tourist Products Co</b>
<b>C1</b>	<b>Shaoxing Thunder Lighting</b>	<b>C24</b>	<b>Suzhou Funrun Display Equipment Co</b>	<b>D30</b>	<b>Zund Plotting Systems (UK)</b>
		<b>C14</b>	<b>Taizhou Reliabond</b>		

*The above is correct at the time of going to press.*

*Check the website [www.signuk.com](http://www.signuk.com) for the latest information.*

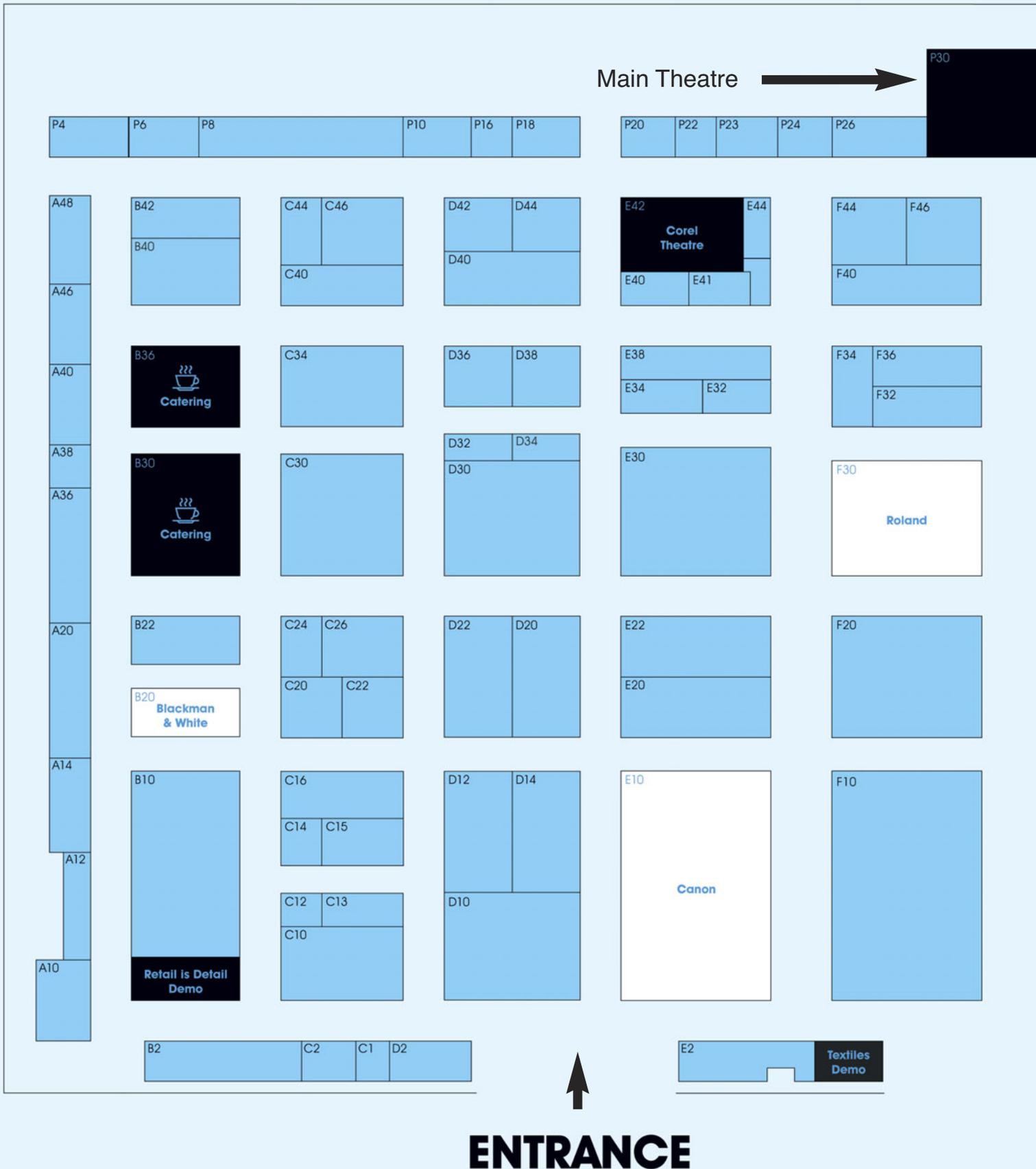
# SIGN & DIGITAL UK 2019 Preview

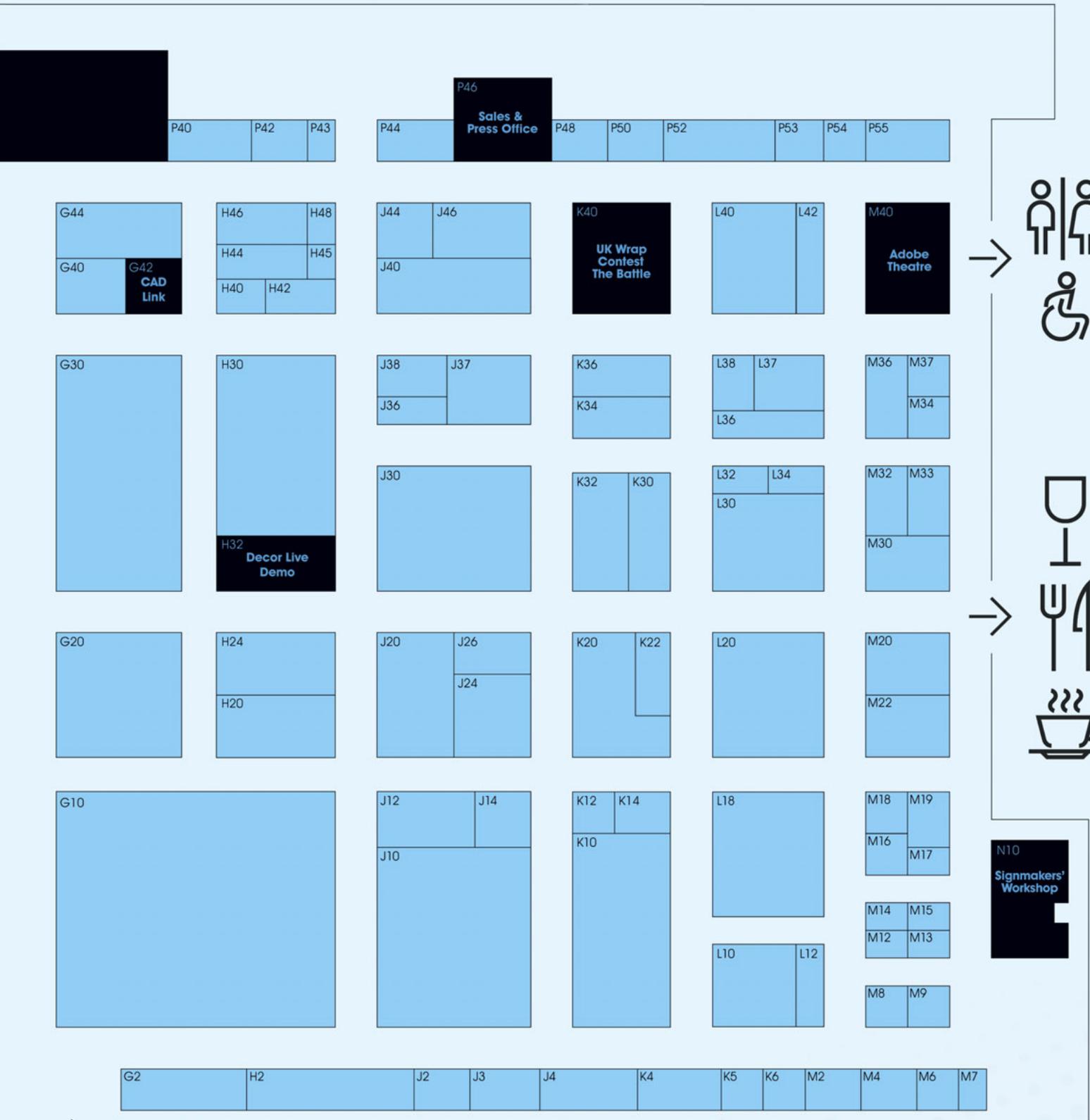
## Floorplan

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**ENTRANCE**

## The face of innovation

**Bursting with innovation, inspiration and networking opportunities, Sign & Digital UK is this year's unmissable event for signmakers at Birmingham's NEC from 2 to 4 April.**

To succeed as a signmaker you need to keep up-to-date with industry advances as well as ensuring you have the latest in demand skills. A visit to Sign & Digital UK (SDUK), the leading trade event for the sign making, display solutions and digital printing industries is the place for you to discover these new possibilities and skills, as well as making connections for the year ahead.

With a show theme of The Face of Innovation, the 2019 event will focus on inspiring, empowering and connecting visitors in person, making it the ideal place for business owners who are looking to gain a competitive edge in an ever-changing industry.

With a long history of showcasing design innovation, the show will present visitors with new interactive features, a high calibre seminar programme and practical live demonstrations covering the latest technologies, products and services.



Sign & Digital UK portfolio director Rudi Blackett comments: "Leading suppliers at the show cover everything from finished sign systems and wide format printing equipment through to the latest sign and

print materials, and will offer expert advice as well as some exclusive show offers. If you are looking for ways to stand out from the competition, then make sure you take the time to visit Sign & Digital UK 2019."





## Exhibitor highlights

SDUK brings together thousands of leading brands, new technologies and products, as well as industry experts across the signage, print, display, décor and design sectors. It is the only place where visitors can benefit from such a breadth of free face-to-face expert advice, discover the very latest the industry has to offer and benefit from some exclusive show offers.

Names not to be missed include AG/CAD DYSS, Antalis, Ashby Signs, Atlantic Tech Services, Automatic Letter Bender, Award

Crafters, CADlink, Complete CNC Solutions, CMYUK, D&K Europe, Emo Neon, Epson, Grafityp, Hexis, Hybrid Services/Mimaki, InkTec Europe, Nova Chrome UK, printMAX, Resolute DTG, Roland DG (UK), Sabur Digital, Signgeer, Signmaster Systems, Signwaves, Spandex, Very Displays, Vivid Laminating, William Smith Group, Zund and many more.

ABC Display Industry, Liquid Lens Systems, Premier Paper Group, PROTEK srl, Signzworld, Solar Illuminations, Target

Transfers, Trade Sign Shop, UK Feather Flags and Viscom LEDs and Frames are among the new exhibitors set to join Sign & Digital UK this year.

## Workshops and seminar highlights

The ever popular Signmakers' Workshop will return in an updated format with trainer Paul Hughes using the industry's most in-demand skills and techniques to build an eye-catching shopfront over the course of the show.

The show will see a broader programme of speakers in the keynote talks, discussions and panel debates that will be held on the Main Stage. New for 2019 will be the Digital Signage Zone, featuring its own theatre and Digital Café.

Stay tuned for this year's programme and keynote speaker announcement, along with other exciting SDUK news in the run up to the show.

For current show information and to pre-register for free entry visit

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



## Sign & Digital UK ramps up live demo and interactive areas at 2019 show

Sign & Digital UK (SDUK) will be growing its live demonstration offering for 2019 with new zones and partners as well as the up-scaling of returning live features.

In partnership with large format distributor and service provider Art Systems, a new live demo zone: Retail is Detail will offer three demonstrations each day to show visitors how to make their retail and point of sale projects more effective.

This area will focus on the latest innovations in retail signage by showcasing cutting edge products from some of Art Systems's key partner vendors including HP, Summa and Onyx.

Charlotte Crampton, workflow development manager at Art Systems says: "We wanted to show the flagship print and finishing solutions to illustrate the true benefits of a fully integrated workflow around a specific set of retail signage applications."

Following excellent visitor feedback in 2018, Antalis will once again present live demo area: Décor Live. The sessions will illustrate practical ideas and applications for all types of digital décor, covering vinyl, wallcovering and magnetic substrates. Décor Live is designed for companies using large format inkjet technology, looking to get a complete overview of all aspects of use and application.



*Charlotte Crampton is keen to demonstrate products from Art System's key partner vendors*

Portfolio director Rudi Blackett says: "Our interactive live features prove to be such a success each year so expanding this for 2019 was an obvious decision. The Retail is Detail area is a new concept that we're thrilled to introduce where retailers will hear a whole host of insights that will make a real difference to their productivity and knowledge of how to expand their offerings to their customers."

A show staple returning bigger than ever for 2019 is the Signmakers' Workshop led by expert trainer Paul Hughes who will be hosting new demonstrations. Paul will construct an entire shopfront over the course of the show while teaching ultimate industry tips, tricks and techniques of vinyl lettering, applying large areas of vinyl and the basics of signboards.

SDUK has teamed up with HEXIS to host this year's Battle UK Wrap Contest, an intense live competition where participants will go head to head with their peers in a series of heats over the show's three days. The winner will receive over £5,500 worth of prizes and the title of the 'best UK installer'.

To see Sign & Digital UK's full list of live features and to register for free entry, visit [www.signuk.com](http://www.signuk.com). To enquire about exhibiting please contact the show team on 01342 33200 or email [signanddigitaluk@fav-house.com](mailto:signanddigitaluk@fav-house.com).



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### FCX2000

The Graphtec FCX2000 is the ultimate solution for prototyping and small production runs of flexible or rigid materials without the use of a cutting die. Reduce media waste / processing time with Graphtec's precision cutting and dedicated software. Added offline (USB) operation enables users of all skill to easily process materials. Two cutting heads for maximum productivity allows for cutting and creasing or die cutting and kiss cutting in one action.



### FC8600

The FC8600 series features a maximum cutting speed of 1400mm/sec, 4.0G maximum acceleration, and 20g to 600g selectable cutting forces, allowing users to process diamond grade, high-intensity reflective film, sandblast resist rubber, automotive window & paint protection films, self-adhesive vinyl, Amberlith™ and Rubylith™, among other media types. A true production machine.



### CE6000 plus

Graphtec's latest addition to the CE6000 range, the CE6000 Plus, is now available with new and enhanced features that enable higher levels of productivity. The new Plus series comes with 450g force and are supplied with Graphtec Pro Studio Software from SAI. Featuring an electronic design and a manufacturing process that minimises lifetime environmental impact, the 6000 series is also cleaner and greener.



Graphtec GB Limited

www.graphtecgb.co.uk 01978 666700 sales@graphtecgb.co.uk

## Sign & Digital UK hosts 2019 Battle UK Wrap Contest

Sign & Digital UK has teamed up with HEXIS to host this year's Battle UK Wrap Contest.

With two heats and a semi-final taking place on the show floor each day, participants will compete in timed, 10-minute heats. The winners from each day will go head-to-head in the grand finale on SDUK's closing day - Thursday 4 April with over £5,500 worth of prizes and 'best UK installer' crown up for grabs.

Sign & Digital UK portfolio director Rudi Blackett says: "The HEXIS contest has been all over the world including the USA, Berlin, Estonia and this year we're thrilled to play host, bringing the spectacle to our fantastic Sign & Digital UK visitors. We can't wait to see all the skilled wrappers



battling for the winner's crown and the many other excellent prizes up for grabs."

The competition is free to enter by completing the online form for the chance to compete with the best of the profession.

HEXIS sales and marketing manager Stuart Shenton adds: "The battle will gradually get harder, round-by-round, as different materials are introduced - all manufactured in France by HEXIS. The judges will score each contestant on accuracy of fitting, speed, quality of finish, health and safety at work, work ethic and technique. Let the best wrapper win."

[www.signuk.com/hexis-battle-wrap-contest](http://www.signuk.com/hexis-battle-wrap-contest)

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# Main Stage Theatre

## Tuesday 2 April

11.00-11.45

**Anyone can do it – awakening the entrepreneur within**  
Keynote talk and Q&A

*Sahar Hashemi, entrepreneur and co-founder of Coffee Republic*

12.00-12.45

**Signage for buildings and interiors**

How a building looks inside and out is of paramount importance. Digital printing has opened up a host of possibilities, particularly around interior decorating. Wall coverings, art, window and floor displays and much more are available to architects and designers to create their dream vision.

*Chris Green, head of visual communications, Antalis*  
*Lindsay Appleton, architectural marketing manager, William Smith Group*  
*Phil McMullin, sales manager, ProGraphics, Epson UK*

13.00-13.45

**Industry focus: Textiles**

This is one of the fastest growing and most exciting sections of the show this year. People have been talking textiles for many years and it is now truly fulfilling its potential. We bring together people at the cutting edge of textile printing technology to contrast and compare their experiences and reveal the opportunities that are out there.

*Chair: Berni Raeside*



14.00-14.45

**Focus on finishing: laminating, cutting and more**

Printing always seems to get the greatest focus but the finishing process is often where the magic (and the profit) happens. We bring together some of the industry's leading providers of finishing products from laminators and cutters to routers and engraving machines to see how this market has developed and what you should be looking for.

*Chair: Colin Gillman*  
*Wim Maes, executive director & CCO Summa nv*

15.00-16.00

**The end of day review**

We take a more informal look at the events of the day at Sign & Digital UK. We have been out on the show floor and present what's new and what is out there to help your business make more money.

*Colin Gillman and special guests*

## Wednesday 3 April

11.00-11.45

**Focus on personalisation**

The rise of the small format flatbed printer has seen the personalisation market explode. Our presenters will bring you the latest in this fast growing and rapidly developing technology. They will show you the broad range of opportunities to build a vibrant, profitable business in personalisation.

*Chair: Colin Gillman*  
*Brett Newman, chief operating manager, Hybrid Services/Mimaki*  
*Alex Granat, Livewire Consultancy*

12.00-12.45

**The path for commercial printers into wide format**

As more and more commercial printing companies invest in wide format printing, it creates the potential for them to enter new markets. This presentation looks at the business case for investment and what should be considered when making this move.

*Chair: Brendan Perring*  
*Bobby Grauf, inkjet sales manager, Agfa UK and Ireland*



# SIGN & DIGITAL UK 2019 Preview

13.00-13.45

## Industry focus: Retail

While retail has been one of the hardest hit industries through recent financial crises, it remains a vitally important market for sign-makers and printers. We look at some of the technologies and strategies that are leading the way in modern retail and how sign-makers can adapt to meet these demands.

*James Beattie, CEO and founder, Xanita*

14.00-14.15

## The business case for sustainability and the environment

As an industry we should do more than pay lip service to the environment. In this seminar and panel discussion we talk to manufacturers and suppliers about the sustainable products and strategies that make good business sense in the print and signage industry.

*Chair: Colin Gillman  
Chris Green, head of visual communications, Antalis  
Phil McMullin, sales manager, ProGraphics, Epson UK*

15.30-16.00

## The end of day review

We take a more informal look at the events of the day at Sign & Digital. We have been out on the show floor and present what's new and what is out there to help your business make more money.

*Colin Gillman and special guests*



## Thursday 4 April

11.00-11.45

### Focus on digital signage

Digital screens have been around for a few years and now seeing hugely positive returns on investment. We bring together a panel including hardware and software providers as well as those involved in the installation and creative development. We look at the challenges faced in setting up their own networks to help the audience facing similar issues.

*Chair: Chris Rushton  
Richard Padum, IMG*

12.00-12.45

### The print workflow Part 1: Colour management and RIPs

Colour remains one of the key points of contention for sign-makers and graphics printers. Range, accuracy, consistency – so much to consider and very low margin for error. We bring together many of the leading players involved in the challenge of getting colour right for your customers.

*David Evans, senior product manager, CADlink  
Paul Bromley, new business manager, GMG  
Graham Clark, application specialist, Agfa UK and Ireland*

13.00-13.45

### The print workflow Part 2: Managing your business

Synopsis: The real art of business is to achieve all you want to do while simultaneously keeping down costs. This session will look at the software products out there that do just this. Whether its ensuring colour accuracy, reducing ink usage or minimising day-to-day operating costs while increasing efficiency, this is an important seminar for the bottom line of your business.

*Andy Allister, Clarity  
Dan Tyler, managing director, VISM*

14.00-15.00

### The end of show review

We take a more comprehensive look at this year's show. Covering the big announcements and events that have made the headlines at Sign & Digital 2019.

*Colin Gillman and special guests*



# MIMAKI

THE PRODUCTION EDITION

## UNDISPUTED

TECHNOLOGY, PRECISION, QUALITY,  
DURABILITY & PRODUCTION

## MIMAKI KNOCK OUT PRODUCTIVITY

## IN THE RED CORNER

PROFIT-ENHANCING  
RIP SOFTWARE

## CLING THE DEAL WITH REVENUE GENERATING TECHNOLOGY!

## WE'LL HAVE YOU HOOKED!

Future proof your business  
from ENTRY LEVEL  
**FEATHERWEIGHTS**  
to **HEAVYWEIGHT**  
PRODUCTION WORKHORSES

## — plus —

EXPERT ADVICE  
AND TRAINING...  
**WE'LL SHOW  
YOU THE ROPES**



## UNCOMPROMISING PRECISION ENGINEERING DELIVERS A PRINT SOLUTION FOR YOU

## Software training

### Adobe Theatre

Adobe gives everyone from emerging artists to global brands everything they need to design and deliver exceptional digital experiences. Update your knowledge in the free daily sessions at the show.

11:00-11:30

#### Introducing Adobe Premiere Rush CC

Video dominates the internet and consumers still want more. Adobe Premiere Rush CC is the first cloud based cross-platform video editing tool for Windows, MacOS and iOS that allows users to capture, edit, add audio and motion then publish online from anywhere.

11:45-12:45

#### Easy colour management

Would you like for the print in your hand to resemble the image on your monitor? Easy colour management shares valuable knowledge, providing you with the key skills to correctly set-up your Adobe Creative Cloud colour settings, understand how to accurately soft-proof your image onscreen and produce that perfect print.

13:30-14:30

#### Creating Cloud essentials

For 60 minutes we will explore the inside track on Adobe CC's most useful features across all applications. A seminar for creatives, artworkers and production staff creating and publishing content for print and the web. We intend to save you money, simplify tired workflow's, improve efficiency, deliver high end results and prevent costly and unnecessary production errors.

14:45-15:45

#### Photoshop CC 2019 Masterclass

Drop by and accelerate your knowledge as we enjoy a whistle-stop tour of Adobe Photoshop CC. Whether you are looking for everyday time-saving edits or Photoshop's incredible creative transformations, our overview of the apps best features and killer techniques is not to be missed.

16:00-16:45

#### Ask Adobe

Struggling for a solution? Want to ask a question? This session puts you in the driving seat as we explore solutions to your everyday problems.



### Corel Theatre

CorelDRAW offers a seamless design experience for graphics, layout, illustration, photo editing, tracing, web images, print projects, art and typography. Update your knowledge in the free daily sessions at the show.

10:00-10:30 and 13:00-13:30

#### Deep-dive into new CorelDRAW graphics suite

10:45-11:15

#### Sign making: tips and tricks for professionals

11:30-12:00

#### Typography and fonts masterclass with CorelDRAW graphics suite

13:45-14:15

#### Explore your creative edge: how to create the perfect graphics for business

14:30-16:30

#### Open forum: troubleshooting your problems

Please come and meet us to see where we can help you with any issues or provide insight and inspiration on any projects you have.

### CADlink Technology Showcase

Visit stand G42 for daily demonstrations on the benefits of a single vendor software provider and the leading-edge technology available that will make the day-today running of your business infinitely more efficient and profitable.

11:00-11:45

#### SignLab: streamlined large format design and production workflow

Discover the benefits of using software specifically designed for sign making and large format displays. Learn how to make your shop more efficient and profitable using speciality large format design and production tool-sets simply not found in desktop publishing/design software products.

13:30-14:15

#### EngraveLab: signage, speciality items and so much more

EngraveLab is the gold standard for laser and spindle-based engraving. Learn how leading-edge 3D, PhotoLaser as well as unique production features can add high value items to your product portfolio.

15:15-16:00

#### Digital Factory RIP Software: adding printed personalisation and customisation to your product offering

Direct to garment, transfer media and UV printing markets are being serviced by more and more sign shops. Digital Factory RIP software not only provides wide format print solutions but is now configured in specialised packages that address specific production needs (particularly optimised handling of white inks) of these fast growing markets. See how one RIP software interface can answer all of your speciality production requirements.

# Signmakers Workshop

See the industry's most in-demand skills and techniques in action to build an eye-catching shopfront over the course of the show. Expert Paul Hughes will present these practical sessions each day.

10:15-10:45, 13:15-13:45  
and 16:15-16:45

## How many ways to make a sign?

Join us as we make a sign with 14 different popular sign styles/techniques. During the course of the three days of the show the sign will build up to reveal the final sign that will reflect the diversity of today's sign industry. During each session one or two letters/elements will be added including digital print, vinyl graphics, banners, built up letters, soft signage, digital signage and traditional sign writing, along with demonstrations on how they were made.

11:00-11:30 and 14:00-14:30

## Basic application of vinyl lettering

Learn the basics of applying vinyl graphics and what vinyls/techniques to use when and where. Vinyl: what, when and how; Weeding and applying application tapes; Preparing surfaces for application of vinyl; Use of water/application fluids; Applying basic text: the hinge method; and How to get a perfect bubble-free application.

11:45-12:15 and 14:45-15:15

## Applying large areas of vinyl

Learn the basics of applying large area of vinyl, be it a digital print or plain coloured film to boards and glass: Basic technique; Use of water/application fluids; Squeegee choice and technique; Demonstrations of applying large panels of vinyl to boards/facias/glass; Working on glass-etched films.

12:30-13:00 and 15:30-16:00

## The basics of making and fitting a signboard

Most vinyl graphics have to be applied to something, if not a vehicle then it is probably a signboard, find out how and from what to make them from and how to fit them. Substrates: what, when and how; Cutting and finishing different substrates to include finishing of banners; Fixings for signs: what, when and how; Step-by-step guide to making your own sign trays; Frames: what, when and how; Making and fitting your own flat cut letters.



A show staple returning bigger than ever for 2019 is the Signmakers' Workshop

# Imitation is not a limitation but only limited to your imagination !

The new generation of ultra bright and flexible silicon based LED "Flexneon"

by Spectron, provide a true alternative to glass neon allowing sign professional to produce realistic imitation neon effect letters, symbols and graphics.

Virtually unbreakable, unlike glass neon it is low in voltage and uses much less power than glass neon. Available in Yellow, Orange, Red, Pink, Light Blue, Blue, Green, Warm White and White in 6mm and also with no soldering required.

Accessories:

No Solder connection cables in various lengths (8mm)

Tinning ready clear cable in various lengths

Clear plastic fixing clips

8mm matching End caps

Instant bond two part Super glue

## Going back to Class ?

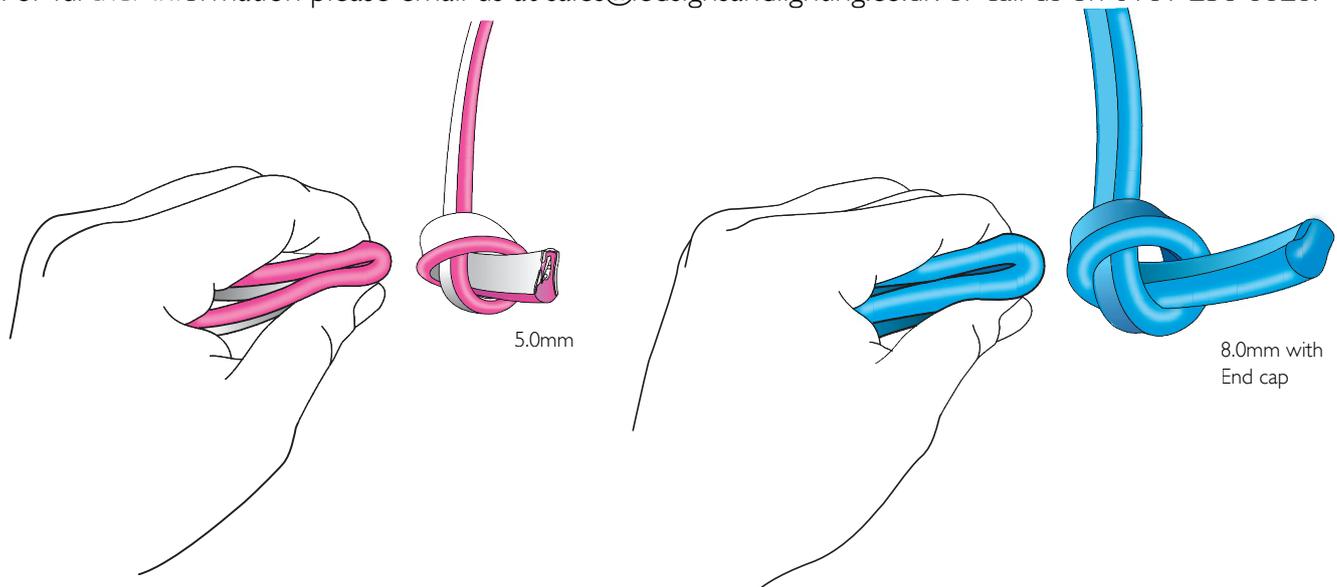
Spectron LED is holding small group classes for sign makers and creative persons who wanted to get in to this untapped business opportunity.

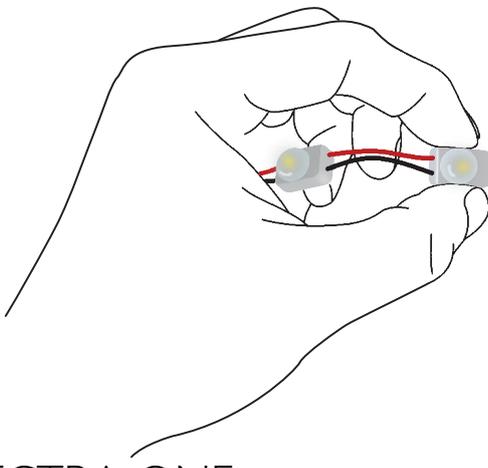
We will demonstrate the fundamental technique of professionally produced high impact window and internally neon effect signage using our comprehensive range of components.

You will learn how to generate suitable artwork and font style for the CNC template; hands on lesson of how to make/fit the letters, how to solder the connections and cable management.

Finally, a certificate will be issued confirming you are a certified Spectron LED Flexneon specialist.

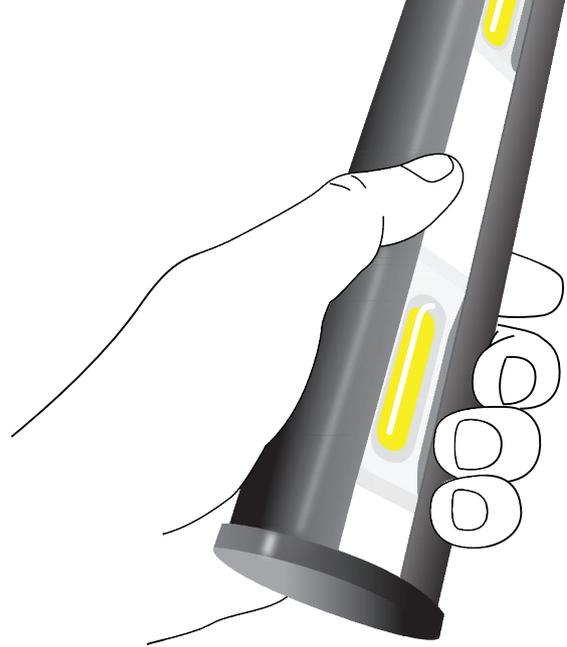
These fee paying classes will have limited spaces, avoid disappointment and register your interest now. For further information please email us at [sales@ledsignsandlighting.co.uk](mailto:sales@ledsignsandlighting.co.uk) or call us on 0161 236 8828.





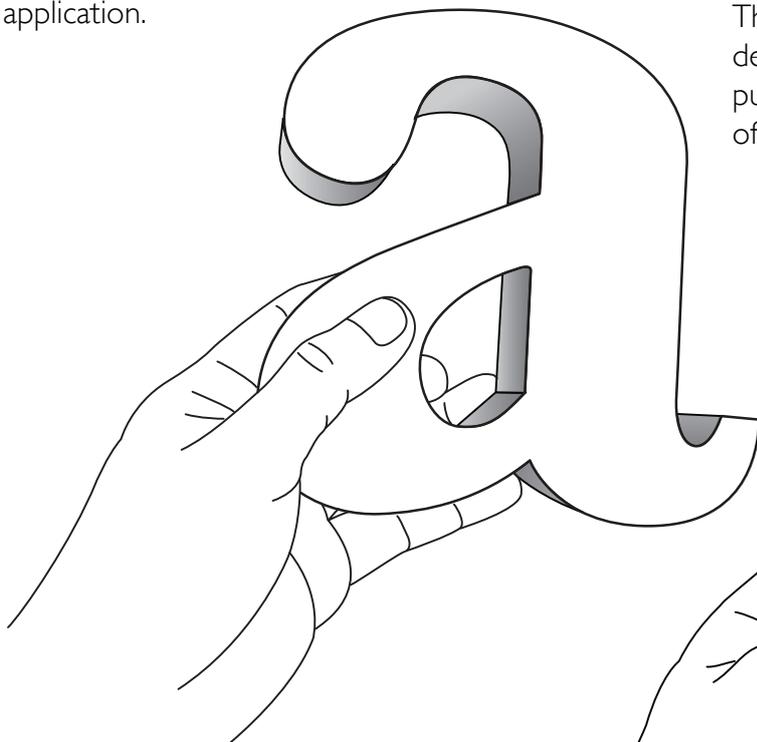
## SPECTRA-ONE

Our best selling optical lens module with 5 year warranty. Small yet powerful only 15mm long and 10mm wide suitable to illuminate from depths of only 30mm. We also stock all types of LED modules and stripes to suit all application.



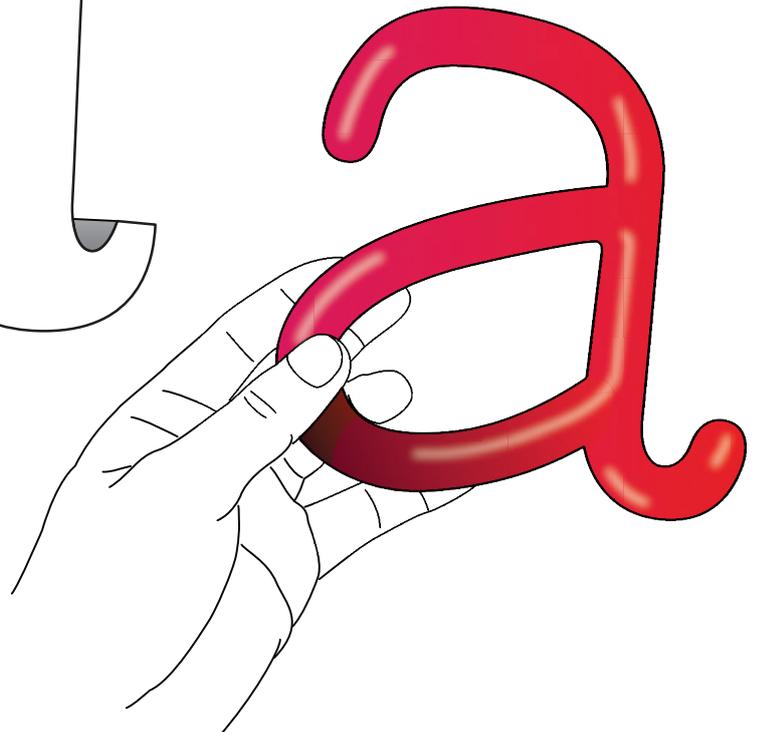
## LUMENLINEAR trough light

The only LED trough light on the market designed and produced by LED specialist use purposed made serviceable LED modules instead of off-the-shelf LED strips.



## STAINLESS STEEL LETTERS

Top quality stainless steel letters, we are the only company in the UK supply letters with polished edges as standard with no additional costs to you, with fast turn around and competitive prices based on height or width of the letters regardless of font style\*.



## ACRYNEON

Completely round Faux neon letters, it look and feels like real glass neon. Other style also available: half round, radius corner, double outline etc.

If quality, fast turn around and competitive prices is what you're after look no further.

**The most comprehensive sign component supplier for the sign making professionals**

[www.ledsignsandlighting.co.uk](http://www.ledsignsandlighting.co.uk)  
[sales@ledsignsandlighting.co.uk](mailto:sales@ledsignsandlighting.co.uk)  
0161 236 8828



# SIGN & DIGITAL UK 2019 Preview

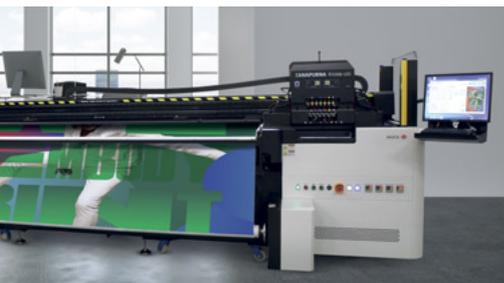
## AG/CAD

D20

Independently owned AG/CAD has spent 33 years developing and supplying computer-aided design and cutting systems globally with its highly regarded DYSS range of premium digital cutters and KCUT and KASEMAKE CAD software aimed specifically at the print, sign and graphics sector. AG/CAD prides itself on service and attention to detail, providing high quality solutions tailored to each customer's exact requirements. Installing one of AG/CAD's design and cutting systems will help your business grow and diversify into other profitable markets, all backed up by a knowledgeable and experienced in house sales, support, training and engineer team. [www.dyss-uk.com](http://www.dyss-uk.com)

## Agfa

B2/E20



Agfa is partnering I-Sub Digital and Josero where they're inviting visitors to 'step up' their printing capabilities with wide format solutions. I-Sub will demonstrate Agfa's 3.2m hybrid Anapurna H3200i LED along with the full suite of options in the Agfa Asanti production workflow. Josero will exhibit Agfa's 1.6m hybrid Anapurna H1650i LED with its entry level workflow solution, the Asanti Render. Both Anapurnas have Agfa-made UV LED inks on-board, making each solution a 'step up' in terms of productivity, quality and cost of ownership. Both engines will be running to demonstrate their capability on both rigid and flexible media and Agfa representatives will be present throughout the show. [www.agfa.com](http://www.agfa.com)

## Antalis

H30



Our stand has been creatively designed to echo the interiors of a ski lodge-style bar. We're using the Alpine theme to showcase how our printed media can effectively and creatively replicate different materials from realistic wood-effect printed panelling to robust log-style seating made from our exclusive new product launch: Xanita Board. For those visitors seeking to invest in hardware, our leading hardware partners Revolution Digital, Granthams, Agfa and Atech will be present to offer their expertise and help with tailored solutions to meet specific requirements. Those who visit us can also take advantage of taster training sessions from the Antalis Academy. [www.antalis.co.uk](http://www.antalis.co.uk)

## arken

D44

arken specialises in producing customised graphic display products including poster frames, lightboxes and freestanding signs. These are mostly based around the aluminium clip frame system which was an original arken patented product. Alongside their graphic display offer, arken designs and manufactures award winning POP displays, working with a wide range of clients in sectors including health and beauty, consumer electronics and FMCG. [www.arken-pop.com](http://www.arken-pop.com)

## ArtSystems

B10



New for 2019, ArtSystems will host daily demos to make your retail and POS projects more effective using a whole range of simple tips and tricks that will make a real difference to your productivity. The company will exhibit cutting-edge products from key partner vendors including HP, Summa and Onyx and highlight the advantages of integrated print workflows for retail signage. The stand will feature HP, Neschen and SiHL media brands and showcase the high quality output printed on these specialist media ranges. Experts will be on hand to answer questions outline how you can get the most out of these products. [www.artsystems.co.uk](http://www.artsystems.co.uk)

## Ashby Signs

H40

We produce cut to size aluminium, fabricated trays and extruded products faster and to a higher standard than anyone else in the industry. In its 20-year history Ashby Trade Sign Supplies has perfected and consolidated sign making processes to ensure its customers receive high quality products. We're a sign trade supplier which has built up a highly extensive range of machinery, skills and knowledge that enables us to supply attractive and durable systems within the UK and Ireland. We pride ourselves on our 'over the phone' pricing, rapid turnaround and high quality product, making us the manufacturing partner of choice for over 2000 sign makers. [www.ashbytrade.net](http://www.ashbytrade.net)

## Assyst Bullmer

J12

Assyst Bullmer provides large format finishing equipment and Bullmer cutting machines. We specialise in variety of cutter formats from 1.4m up to 5m wide conveyerised cutting machines. These can be equipped with range of cutting tools, as well as router and an Ultrasonic knife. We can offer a variety of unwinding devices and feeding systems with laser edge and tension control to match the cutter format. In recent years we have been heavily involved in robotics and automation for textile materials. We can deliver a full production lines with roll handling systems and robotics off-load and re-rolling units integrated into our cutting systems. [www.assystbullmer.co.uk](http://www.assystbullmer.co.uk)

Atech

D14    XYZ

## A TECH

If you need to cut, coat, laminate, weld or sew, Atech has world class finishing equipment to speed your production. With over 36 years' experience, we believe we are the premier one stop supplier to the sign and graphics industry in the UK and Eire. On stand we will have our best-selling range of EL laminates and the updated Obelisk foam cutter for 3D lettering, updated CWT application tables and the Neschen CL Laminator. To provide a total solution, Atech offers customers a 24/7 after sales service, together with contracts to cover the whole range of digital printing equipment and finishing machines.

[www.atech.co.uk](http://www.atech.co.uk)



### Automatic Letter Bender.    P10

Automatic Letter Bender is leader on the market of bending machines. We offer a complete solutions for 3D channel letters production: bending machines, CNC routers Black Series, laser welding machines and accessories: aluminium and stainless steel tapes, profiles, adhesives and hand tools. Customers can pick from a wide choice of tapes and profiles so they can create even the most sophisticated forms of letters or logos using our machines. The quality of both bending and precision is ideal thanks to cutting technology leaving the edges smooth and aesthetic. Our team of specialised technicians and sales representatives are there for you.

[www.letterbender.net](http://www.letterbender.net)

### Award Crafters    P54

Award Crafters' anodised aluminium nameplates and panels are practically indestructible. Graphics are permanently embedded in the aluminium and are resistant to almost all harsh conditions. Award Crafters' anodised aluminium is the preferred material for nameplates, control panels and barcodes in applications where service life expectations exceed 20 years for the part. Government and aerospace extensively specify the process for demanding applications that require resistance to the effects of weather, abrasion, heat and most chemicals. Performance requirements are taken from reference documents in which the process is used and specified in order to demonstrate the durability of the product.

[www.awardcrafters.co.uk](http://www.awardcrafters.co.uk)

XYZ Automation Group will demonstrate the Trident print finishing system incorporating a triple-head configuration comprising a high performance routing spindle and tangential/oscillating knife-cutting units. Key design features include a rigid solid steel frame to better accommodate more vigorous machine operation, an exclusive live vacuum deck for optimum material hold-down efficiency and an integrated helical rack and pinion drive system. Readily interchangeable 120mm-long blade attachments provide increased cutting efficiency when processing harder, thicker and heavier materials. AXYY will promote its 24/7 online spare parts, accessories and software facility which accommodates the requirements of XYZ router owners and of any other make of machine.

[www.xyz.co.uk](http://www.xyz.co.uk)

### Blackman & White    B20

With over 50 years' successful business in the design and manufacture of cutting machines under its belt, Blackman and White is the only UK manufacturer and a world class leader in the field of industrial flatbed cutting machines. Its cutting machines are used across a wide range of industries; their cutters and plotters range from the Orion, designed for light to medium duty to the Mastercut heavy duty platform. Blackman & White's Genesis-V represents the industry's most grand format digital flatbed cutting system and is the only system that incorporates full conveying for laser, router and knife cutting all on one system.

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

J20    Boxford

C13

Boxford will show its latest range of cost effect laser cutters and engravers. All models feature integrated chiller cooling systems, auto focus system, air assist c/w integrated compressor, red dot pointers and honeycomb cutting tables, making them ideal for a variety of signage cutting and engraving applications.

[www.boxford.co.uk](http://www.boxford.co.uk)

### Brand-It    M8

Brand-It Technologies are suppliers of Fabexx fabric tension system aluminium profiles and CoreLight Light Guide Panel Film (LGF). Fabexx multi-functional aluminium profiles designed to work individually or collectively to allow resellers to keep their inventories low. CoreLight allows suppliers the opportunity to create their own bespoke Light Guide Panels to any size from widths of 100mm up to 1500mm. CoreLight Film is available in a range of roll widths from 300mm, 500mm, 610m, 910mm, 1220mm and 1500mm. Choose the nearest roll width to the required dimensions of the LGP, apply to the clear acrylic panel, then just trim off the excess film.

[www.brand-it-technologies.com](http://www.brand-it-technologies.com)

CADlink    G42



CADlink will host educational seminars daily: SignLab - Streamlined large format design and production workflow - learn how to make your shop more efficient and profitable using specialty large format design and production tool-sets not found in many software products. EngraveLab - Signage, specialty items and more - learn how leading-edge 3D, PhotoLaser and unique production features can add high value items to your product portfolio. Digital Factory RIP software - adding printed personalisation and customisation to your product offering - direct to garment, transfer media and UV printing markets are being serviced by more and more sign shops. See how one RIP software interface can meet all of your specialty production requirements.

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

Canon

## Canon

Canon will introduce its first LED flatbed printer, the Océ Arizona 1380 GT, one of the Océ Arizona 1300 series that offers outstanding speed and print quality across both rigid and flexible media for the widest possible range of applications and designed to future-proof your print operation and ensure productivity with its UV-curing, instant-on printing, Océ Arizona Xpert self-learning technology and an enhanced screening system. During the event PSPs will have a chance to explore and understand new profit opportunities that this technology brings to market that can help them to develop and transform their business.  
[www.canon.co.uk](http://www.canon.co.uk)

### Changzhou Best Display Changzhou

As a professional display equipment manufacturer, Changzhou Best Display is engaged in production of roll-up banners, beach flags, pop-up display stands and posters. We are uniquely positioned in the industry with high quality, reasonable pricing and top class services. Established in 2011, the company has a strong professional team with more than 10 years' experience in technology, manufacturing, distribution and quality control. Based on strong professionalism, tailored service and quality guarantee, we have an extensive network of global partners.  
[www.besplaychina.com](http://www.besplaychina.com)

### Clarity LED

For many years Clarity LED has been providing solutions for digital signage including LED message boards, video walls, billboards, posters, Crystal frame light box and projection signs. We are proud to be the distributor of the biggest Korean led manufacturer Anylux in the UK and supply our customers with quality products; our signage LED modules powered by manufacturer Samsung include diffusion lens, MINI, epoxy, insert lens and cluster. We provide trade service for manufacturing aluminium and stainless steel 3D built-up letters, CNC and laser cutting; and large format printing.  
[www.clarityled.co.uk](http://www.clarityled.co.uk)

E10

### Clarity Software

Designed for print, sign and digital, Clarity Software calculates complex quotes in an instant. Know upfront how much wastage, resource and machine time a job demands or let your competitor make a loss on it instead. Clarity schedules production, manages sales, organises stock and books deliveries.  
[www.clarity-software.com](http://www.clarity-software.com)

### CMYUK

CMYUK is one of the longest established, independent suppliers of wide format printers and cutters that span all production requirements. We are distributors of EFI Vutek, Esko Kongsberg cutting tables and automation systems, HP Latex, MASSIVit 3D Printers, Mimaki digital printers and cutters. We pride ourselves on being able to provide the complete package including demonstrations, training and support. We have an extensive range of materials suitable for most applications.  
[www.cmyuk.com](http://www.cmyuk.com)

### Colyer-Repoint

Colyer-Repoint has been a print provider for over 40 years so when it comes to printing equipment and colour printers there's not much our team don't know. Our extensive experience as an end user strengthens our relationships with print hardware, media and ink manufacturers. These special relationships and the investments we make in keeping our own print facilities up to date gives us the inside knowledge on every product we sell, putting our experts in the best place to advise you.  
[www.colyer.co.uk](http://www.colyer.co.uk)

### Complete CNC Solutions

Home to Tekcel CNC routers and digital cutters, the company offers a range of systems to suit the needs of business of all shapes and sizes together with technical and application support and router tooling. Our experience and reputation for quality come as standard. Sign and display manufacturers turn to Tekcel for its versatility and the positive impact its leading edge routers and digital cutters have on productivity. Tekcel's progressive upgrade path and available performance enhancing accessories further its reputation as the industry's best routing and digital cutting platform. Whatever your need. Whatever the size of your business, contact us.  
[www.completecnc.co.uk](http://www.completecnc.co.uk)

G44

### Corel Theatre

Come and Join Corel at the Corel Theatre to hear about the exciting developments this year as we showcase the new CorelDRAW Graphics Suite 2019 for Windows and unveil the new CorelDRAW Graphics Suite 2019 for Mac. Whether you are designing signage, logos, web graphics or print projects, you can enjoy many new capabilities that unleash your creative potential - and now all on your platform of choice. Or sign up for one of our Workshops that run from 10.00 until 14.15 daily - with an open Q and A session to follow.  
[www.corel.com](http://www.corel.com)

### CTR Lasers

CTR Future's TMX range of CO2 laser cutting machines and laser engraving machines are built in the UK to CE certification. A wide choice of DC or RF CO2 lasers offer solutions to suit a range of applications and budgets. Our after sales support and service is second to none.  
[www.ctrfuture.co.uk](http://www.ctrfuture.co.uk)

### Cutting Edge Carbide (CEC)

Cutting Edge Carbide (CEC) is a leading distributor in CNC router tooling, knives and accessories. We look at creating solutions for customers using application-based knowledge and education. Our extensive range of tooling from leading manufactures LMT Onsrud and LMT Belin allows us to be at the forefront of routing technology. From sign making to point of sale, our new web shop offers a unique opportunity for new and existing users to expand their knowledge base in our education section. Whether you are new to the world of routing or a seasoned professional come and say hello.  
[www.cuttingedgecarbide.co.uk](http://www.cuttingedgecarbide.co.uk)

### D & K Europe

D & K Europe has long been in the forefront of both narrow and wide format business graphic presentation with a range of innovative products for mounting, laminating and encapsulating. At Sign & Digital this year we will be exhibiting the Atlas wide format laminator and the latest B3 Neptune thermal laminator, a double-sided model capable of delivering an identical finish to both sides of the sheet and with optional rewind unit for specialist laminates and foils.  
[www.dkeurope.co.uk](http://www.dkeurope.co.uk)

E42

K12

F32

G10

M2

L30

P26

K14

A10

*Dare to*  
**be unique.**



**NEW!**

## CorelDRAW<sup>®</sup> GRAPHICS SUITE 2019

Design anywhere with CorelDRAW<sup>®</sup> Graphics Suite 2019. Experience the freedom to work the way you want—on Windows or Mac—in an intuitive interface developed specifically for your platform of choice. With new non-destructive effects, pixel workflow improvements, and a wide variety of new high-quality templates, you can create and print more efficiently for any client. You'll find all the professional graphic design tools you need to work faster, smarter, and in more places—including on the go with CorelDRAW.app<sup>™</sup>.

*Dare to design differently.*



WIN. MAC. WEB. EVERYWHERE.

Try it for free at [www.coreldraw.com/sign](http://www.coreldraw.com/sign)

# SIGN & DIGITAL UK 2019 Preview

## DCR Machines

P44

We supply multiple industries with die and knife cutting systems, industrial sewing and embroidery machines and seam sealing, hot air welding, eyelet, stud and riveting machines. Our speciality is clicker and beam presses with over 65 machines in stock and a vast spare parts section. We can offer a service on your existing hydraulic cutting systems. Our knife cutting table systems can be supplied with table size 1000mm up to 12000mm. With optional additional conveyor belt feed, pick and place robotics, auto load and unload with overhead projector. The machine offers a number of tool heads and specific tooling for multiple industries.  
[www.cuttingpresses.co.uk](http://www.cuttingpresses.co.uk)

## dotMedia Printing House.

M33

They call us a well-organised large format printing house. There are three elements to our good name: taking deadlines seriously, involvement and ongoing support we provide to our clients at all stages of cooperation. We advise on optimal engineering solutions, present interesting ideas and focus on making our portfolio precise and diverse at the same time. This is how trust is gained and long-term collaborations come to life. We believe in certain values, both in private life and as professionals and we believe that positive, productive relationships flourish when based on honest communication.  
[www.dotmedia.pl](http://www.dotmedia.pl)

## DTP Supplies

C46

DTP Supplies will exhibit a sample from its range of eyelets and associated machinery. We will exhibit our exciting range of stainless steel eyelets and washers for use in signs and banners. In addition, we will be giving away free sample rolls of our revolutionary HEM-It tape. We will be delighted to meet existing and potential customers.  
[www.dtpsupplies.com](http://www.dtpsupplies.com)

## Durable UK

P53

Durable are pioneers in developing and manufacturing intelligent signage solutions such as the award-winning DURAFRAME and innovative DURAFIX. Available in either self-adhesive, magnetic or static-cling and in various sizes and colours, DURAFRAME is the versatile signage solution for interior walls and doors, shop windows exposed to sunlight and metal surfaces. Reusable, no tools are needed

for installation. Just Stick & Fix: DURAFIX self-adhesive strips are easy to attach to any solid surface. They can be removed without leaving residue and repositioned instantly. DURAFIX ROLL can even be cut to size – perfect for any signage need.



[www.durable-uk.com](http://www.durable-uk.com)

## Esko

G10

The Esko product portfolio supports and manages the packaging and print processes for brand owners, retailers, designers, premedia and trade shops, packaging manufacturers, and converters. Esko solutions are used in the production of signage and displays and consist of an extensive suite of software and two hardware product lines: CDI flexo computer-to-plate imagers and Kongsberg digital cutting systems, complemented with professional services, training and consultancy. Enfocus with its PDF quality control tools and automation solutions; MediaBeacon with its digital asset management (DAM) solutions; and BLUE Software with its SaaS label and artwork management applications are all part of the Esko family.  
[www.esko.com](http://www.esko.com)

## Fleet Design

K3

Fleet Design are specialists in Chapter 8 chevrons. We supply chevron kits, chevron boards, magnetic kits and bespoke size chevrons to meet your customer's needs. We manufacture our chevrons in-house and can work with you on fast turnaround times. Visit Natalie on our stand to discuss your requirements.  
[www.fleetdesign.co.uk](http://www.fleetdesign.co.uk)

## Gazeboshop

H48

Available for next working day delivery, our commercial grade pop up gazebos are great for any promotional event/activity. We offer a choice of frames to suit all budgets and with various sizes and a multitude of colours to choose from, we are sure to have an instant shelter to suit your needs. With its pop up structure, you'll never be missing a pole or connector. Quick and easy to erect, our gazebos can be collapsed down to a portable size for easy transportation. We pride ourselves on having the highest quality manufactured products supported by great customer service and fast delivery.  
[www.gazeboshop.co.uk](http://www.gazeboshop.co.uk)

## Global Erecting Sign Services

E40

UK and Europe's leading banner and signage installation company. A highly competent company able to install all types of signage from street level through to extreme high level including full building wraps. Over the years undertaking a huge variety of projects, some of which are unique and new to the media and signage industry.  
[www.gess.uk.com](http://www.gess.uk.com)

## GMG Color

K36

GMG Color will be demonstrating its colour management products for automated colour matching and ink optimisation at Sign & Digital UK. You can also see their colour expert Paul Bromley present on the Main Stage in the panel session on print workflows. Head there on Thursday 4 April to find out more about colour matching across devices and substrates, automating colour management within your workflow and cutting consumables usage while improving colour results, where you will have the opportunity to ask questions.



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

## Granthams

A14

Servicing the sign and graphics industry for over 120 years, Granthams is one of the UK's leading suppliers for sign, display and graphic technology. Granthams is using Sign & Digital UK to promote its latest solutions for wide format digital output including a focus on applications and media recommendations as well as inspirational ideas for expanding upon the wide variety of uses for UV, solvent and latex print and cut solutions. Hire purchase finance and Interest-free extended credit options are available across all equipment purchases - contact our expert sales team for more information.  
[www.granthams.co.uk](http://www.granthams.co.uk)

## Graphtec GB

A36



Graphtec will demonstrate examples from the CE and FC series of cutting/plotters and the F-Mark automatic digital die-cutting system. The CE6000 series includes the low cost entry level Lite-50 and Plus machines. The FCX2000 flatbed cutter features a specially configured cutting head incorporating two tool holders for cutting; the second enables combined cutting and creasing and/or drafting with a pen. The FC8600 vinyl cutter is "rated best in class" for cutting speed and cutting force, complemented by a "higher than normal" performance-to-cost ratio. The F-Mark combined automatic sheet-feeding and digital die-cutting system is based on the CE6000-40 cutter incorporating dedicated F-Mark software.  
[www.graphtecgb.co.uk](http://www.graphtecgb.co.uk)

## Gravograph

D42



Large and small format laser and engraving machines. Award-winning automated Braille sign making system. Metal cutting and engraving equipment. Direct from the world's largest manufacturers. Live demonstrations on the stand. New for 2019: precision laser cutting of printed media with automatic pattern recognition.

## Guandong UK

C12

Guandong UK will be exhibiting in the UK for the first time. Guandong is a manufacturer of digital print media from Italy who are making a conscious decision to increase their market share in the UK. Their range includes banner materials, fabrics and textiles, window graphic films, floor graphic films, canvas, magnetic materials for wall displays, pop-up and roll-up films all suitable for solvent, eco-solvent, latex and UV-curable inkjet printers.  
[www.guandong.uk](http://www.guandong.uk)

## Haining Jinmao Warp

P24

With professional KARL MAYER warp knitting machines and R&D professors, we have been specialised in making knitted and woven fabrics for 12 years. Our textiles are suitable for sublimation, dye direct printing, heat transfer printing, silk-screen printing and UV/latex/eco-solvent printing. The mainly usages are for flag fabric, indoor advertising display fabric, light-box back-lit and some popular sports T-shirt garment fabrics.  
[www.hnjmjb.com](http://www.hnjmjb.com)

## Hangzhou BannerMate

H20

BannerMate's mission is to enable ordinary customers to afford high quality exhibits and displays, focusing on developing and manufacturing innovative and high quality portable products. Luban Display offers a full solution for exhibition or event, which includes graphic, shelf/display panel, counter, storage, multimedia, lighting and packaging. With our patented technical solution, Luban Display enables you to setup the exhibits or displays without any tools by yourself and can be transported with very well organised packages as well.  
[www.bannermate.com.cn](http://www.bannermate.com.cn)

## Heathcoat Fabrics

P23

Heathcoat Fabrics will present its HDtec range of digital print textiles, created for vibrant, high definition banners, flag printing and all kinds of soft signage. HDtec embodies the Heathcoat Fabrics ethos; progressive, innovative and durable, enabling us to lead the market from our environmentally responsible manufacturing base. Flame retardant (B1, M1, BS5867), it offers solvent-free enhanced finishes, vibrant colours and high definition print, reduced ink usage, durable and heat stable, fray-resistant knitted structure and compatible with all current dye-sub inks and printers. Deal direct with the manufacturer for closer working relationships, quality assurance, a direct link to textile expertise and better value.  
[www.heathcoat.co.uk](http://www.heathcoat.co.uk)

## HP

B10

HP creates technology that makes life better for everyone, everywhere. Through our portfolio of printers, PCs, mobile devices, solutions, and services, we engineer experiences that amaze. HP Graphics Solutions Business is the HP division serving the graphics industry and within that group, Sign & Display, which covers the signage we all come across day to day, is one of the key divisions for HP in terms of growth opportunities such as decoration, where our HP Latex technology enables indoor wallpaper and decoration in multiple environments.  
[www.hp.com](http://www.hp.com)

# SIGN & DIGITAL UK 2019 Preview

## HPC Laser

J36



HPC Laser is one of the UK's leading suppliers of laser cutting and engraving machines. Established in 2006, our team of skilled engineers have delivered, installed, serviced and supported over 4500 Laserscript machines across the UK to secondary schools, colleges, universities, signmakers, trophy engravers and hobbyists. All our PRO machines are covered by a 1-year ONSITE warranty and options are available to extend up to three years. Our customers benefit from free of charge lifetime telephone support and onsite engineer support is always available for more complex issues. We offer free live machine demonstrations at our Halifax showroom.

[www.hpclaser.co.uk](http://www.hpclaser.co.uk)

## Hybrid Services

F10



Exclusive UK and Irish Mimaki distributor Hybrid Services is to host the debut of three new products. The high performance Mimaki TS55 dye sublimation printer for producing soft signage, retail graphics, fashion and sportswear will make its first UK appearance. Two Mimaki inks will be unveiled including the recently announced metallic LED UV ink for the Mimaki UJF-7151plus, enabling the production of high end graphics for small to mid-format

signage, bespoke décor and giftware and a clear ink option for the UCJV300 Series LED UV printer/cutters, offering new design possibilities by creating captivating displays using gloss, matte or textured finishes.

[www.hybridservices.co.uk](http://www.hybridservices.co.uk)

## InkTec

G20



Sign & Digital will see InkTec launch not one but three new JETRIX printers. These newcomers will add to their already extensive range of roll-to-roll LED-UV flatbed printers. Building on all the tried and tested technology of their existing range, InkTec will be showcasing the eight-channel LXi6 LED-UV flatbed printer, LXiR320 roll-to-roll printer and the narrower 1.9m wide LXiR190. All are pitched at print providers looking to enter the wide format, upgrade current equipment or for solvent printers wanting to move into UV. In addition InkTec will be launching an opaque version of their Easy Tex media.

[www.inktec-europe.com](http://www.inktec-europe.com)

## I-Sub Digital

B2



I-Sub who offer a complete range of wide format digital print and finishing solutions, will demonstrate Agfa's 3.2m hybrid Anapurna H3200i LED along with the Mimaki UJF 6042 MKII UV printer. The Agfa range of LED machines offer exceptional print quality and industrial build quality with Agfa's thin ink layer technology and competitive ink pricing they offer vibrant, high quality output at class beating value. The Mimaki UJF MKII is the second generation model of this amazing UV printer; I-Sub's exclusive Digi-Foil system ensures the applications are endless for I-Sub's clients adding great value to this class leading machine. CMYK, White, Primer and varnish ink sets ensure every application is achieved at stunning quality.

[www.i-subdigital.com](http://www.i-subdigital.com)

## ITC

G40

Industrial Tooling Corporation (ITC) will be introducing a host of new products and demonstrating its technical expertise. The cutting tool specialist will present the latest edition of its new Folio catalogue, the extended line of blades for digital cutting tables and new routing tools for machining challenging aluminium composite materials (ACM). ITC is looking forward to meeting manufacturers to discuss the ever evolving needs of the industry. The evolution of high frequency spindles on digital cutting tables has seen demand for high quality balanced cutting tools become commonplace. ITC has a vast selection of routing tools and an extended line of knife blades that will all be on show.

[www.itc-ltd.co.uk](http://www.itc-ltd.co.uk)

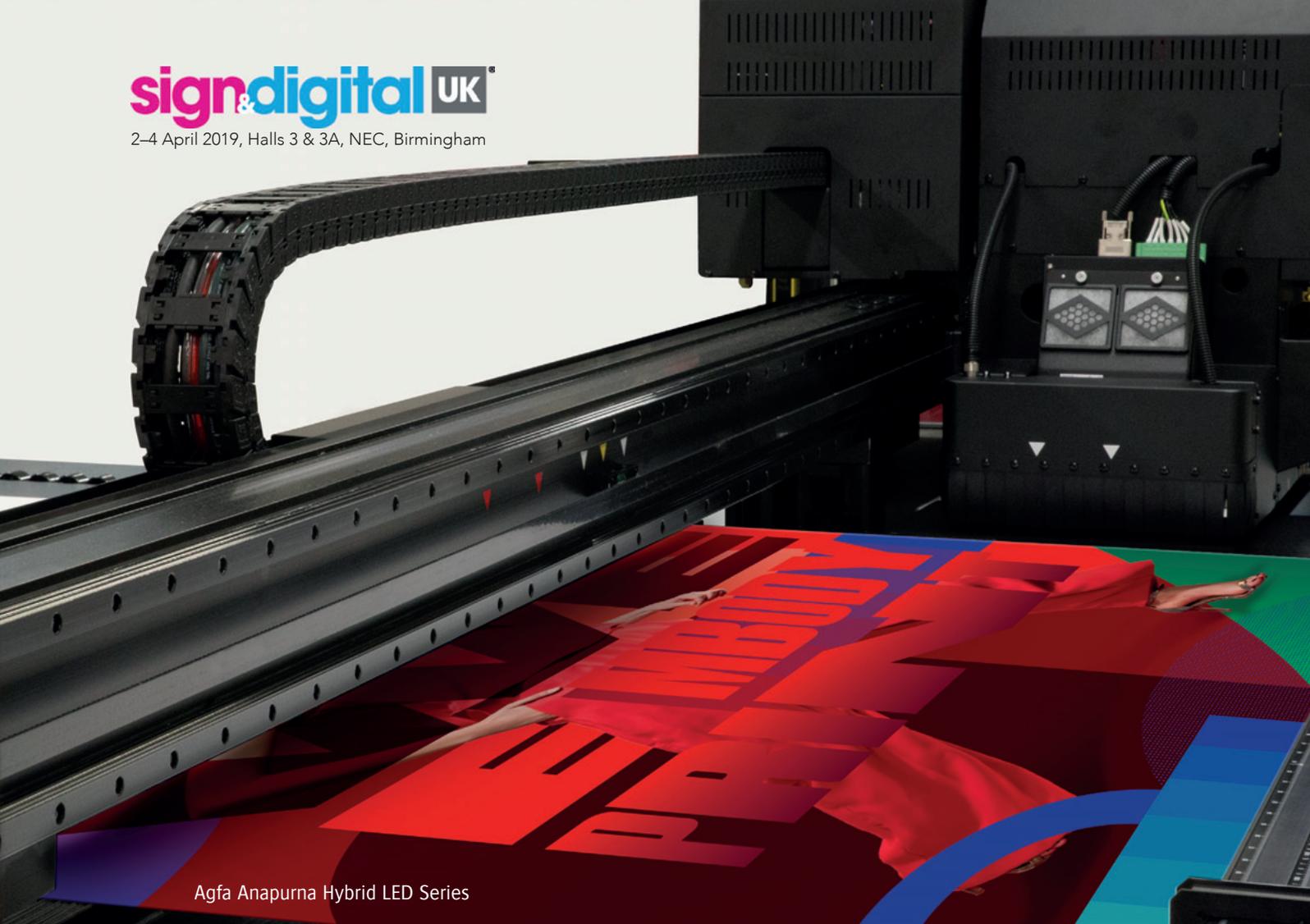
## Josero

E20



Wide format specialists Josero will feature the following products: Agfa Anapurna H1650i LED which is ideal for sign-makers and printers with a small foot print, flexible and rigid materials, latest LED UV technology and competitive prices. Bubble Free Pro is the best flatbed applicator/laminator table available, operates at rapid speed and is excellent value for money, delivering a quality product every time. Mimaki CJV150 integrated printer/cutter provides high performance, creativity and versatility with vibrant ink types. Mimaki UCJV300-160 is a versatile inkjet printer having a combined function of both printing and cutting, mounted with UV-curable ink.

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



Agfa Anapurna Hybrid LED Series

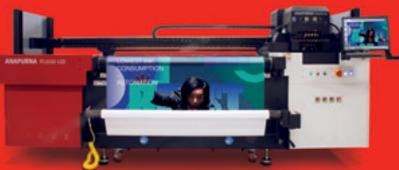
## STEP UP WITH AGFA & PARTNERS



Agfa Anapurna H3200i LED  
Hybrid 3.2m UV LED at I-Sub Digital

Visit us at Sign & Digital 2019 at the NEC in Birmingham from 2-4 April and see for yourself how we can help you step up your sign and display printing capabilities.

Experience Agfa's 3.2m hybrid Anapurna H3200i LED at I-Sub Digital (stand B2) and its smaller sibling, Agfa's 1.6m hybrid Anapurna H1650i LED at Josero (stand E20).



Agfa Anapurna H1650i LED  
Hybrid 1.6m UV LED at Josero

Every Anapurna delivers outstanding print quality and high productivity on both rigid and flexible substrates. Plus, the Anapurna's proven UV LED curing system allows you to print on a wider media mix whilst saving you energy, costs and time.

To find out more visit [www.agfagraphics.co.uk/SDUK](http://www.agfagraphics.co.uk/SDUK), or contact:  
I-Sub Digital: [emmaplant@i-subdigital.com](mailto:emmaplant@i-subdigital.com), 01536 415111  
Josero: [scollins@josero.com](mailto:scollins@josero.com), 01954 232564

## Kavalan

E32

KAVALAN is a supreme product brand of the TAYA Canvas Group in Taiwan. We believe that it is our social responsibility to ensure we do our best and utilise the decades of R&D and manufacturing experience we have to bring a new range of clean materials to the market for a cleaner and better environment for our future generations. After years of tireless research and development, TAYA is proud to introduce the revolutionary KAVALAN range of products to the large format printing market. The KAVALAN range of newly-developed printing materials is 0% PVC and 100% clean.

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

## Landor UK

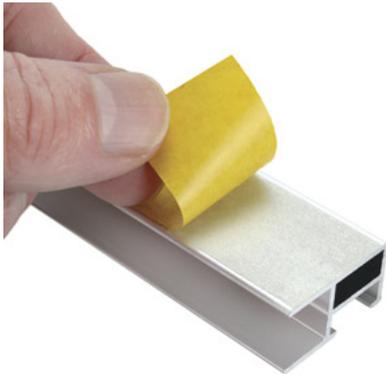
K22

Landor UK supplies and develops print products for advertising, promotions, exhibition and display, fine art, photo, proofing, PoS and signage marketplace from its exclusive media, lamination protection and coatings range. Landor UK is committed as "Your Product Manager" to provide you with time-saving, cost-effective and durable products, advice and enhanced quality driven solutions for your business.

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

## Lion Picture Framing Supplies

A20



LION offers a complete range of hardware, equipment and accessories to display and frame printed panels and media, helping you to turn your clients' project into an eye-catching piece of wall decor. Quick, simple and affordable joining and hanging hardware for sub-frames (no screwdriver required), aluminium frames and easy joining hardware, alongside hanging and standing methods for all types of display. See their SUB15 sub-frame profile with tape pre-applied and easy to use push-in corners – sub-frames made easy.

LION has everything that PSPs, photolabs and visual communication experts need to frame and hang their output. View the online brochure at [lionpic.co.uk/catalogues](http://lionpic.co.uk/catalogues)

## Liquid Lens

P18

Liquid Lens has developed new soft and hard polyurethane resins to enhance our product offer and at Sign & Digital UK we will show and demonstrate three new applications featuring the new materials: Digital Mosaic - produce any shape, any size full colour digital mosaic tiles for use in kitchens, bathrooms and retail displays; 3D signage and vehicle graphics - produce 3D extrude FX signs for both indoor and outdoor applications and 3D graphics for vehicles in conjunction with body wrap vinyls; and 3D vehicle number plates & frames - high value, road legal 3D number plates with a choice of coloured frames.

[www.liquid-lens.com](http://www.liquid-lens.com)

## M3 Online

D34

M3 Online is a mobile content and applications developer. Along with their other business products, i3DiSPAY is a content management platform built on secure cloud servers. i3DiSPAY creates any content flow without complicated programming; functionality is easily adapted to cater for the needs of any business.

[www.i3display.com](http://www.i3display.com)

## Merlin Tools

J4

Merlin Tools is a market leader in the supply of premier quality solid carbide tooling and associated cutting tools within the UK and Europe. We have been established for over 20 years and continue to develop and expand our range to bring the latest cutting tool technology to the market. Our comprehensive cutting tool range covers over 10,000 specific part numbers from standard tooling through to PCD and CVD diamond coated tools. This extensive programme is stocked at our facility in the UK and is available for next-day delivery.

[www.merlintools.co.uk](http://www.merlintools.co.uk)

## Merlin Transfers

M18

We will display NOVA-Flex heat transfer film. As authorised distributors of Sawgrass we offer dye sublimation ink alongside Virtuoso A4 SG400 and A3 SG800 sublimation printers that we stock. Dye sublimation is an easy, effective and exciting way of printing and is an essential addition for companies offering personalised

goods and gifts. We offer a huge range of high gloss dye sublimation printable blanks including the latest iPhone and Samsung Galaxy phone cases and a range of printable wood products. We stock multiple sizes of products such as HD Metals that start from 5"x5" up to our 11" x 14".

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

## Mida Sign Services

C2

With 34 years' experience as an installation company for signage working throughout the UK and Europe, our enthusiastic installation teams have an in-depth knowledge of their trade, with support at all times from our dedicated office team who have a wealth of technical knowledge and experience. We offer a print and finishing department, allowing us to offer customers a comprehensive service from artwork completion to print and finishing requirements. Using up-to-date equipment and industry software we can print direct to various substrates and are able to maintain quick turnaround times at competitive prices.

[www.midasignservices.co.uk](http://www.midasignservices.co.uk)

## Neschen

B10



Neschen lead with innovative wide format media for latex, eco-solvent and aqueous inkjet technologies. The Easy Dot range of media not only work with all leading ink technologies, they address key applications in décor, retail window and floor graphics. Neschen has a media for almost every application.

[www.neschen.de/en](http://www.neschen.de/en)

## Nova Chrome UK

F40

Nova Chrome UK supplies one of the widest selections of dye sublimation products in the market, with a full range of Unisub products, aluminium sheet and pre-cut blanks, fabric based items, glass, acrylic photo panels and slate. For those with smaller requirements, simple A4/A3 based solutions are available; those in need of production or photo quality have the option of the Sawgrass Virtuoso VJ-628. This unit features a choice of either Dual CMYK, eight-colour or the new Fluorescent HD inksets. Whether as an individual printer or press or bundled together as a 'starter kit', you can be assured of comprehensive support and guidance.

[www.novachrome.co.uk](http://www.novachrome.co.uk)

## ONYX

B10

ONYX 18.5, the newest and continual award-winning version of ONYX RIP and print workflow software is now available for order. ONYX 18.5 brings unrivalled speed and performance with 2X faster RIP speeds and at least 5X faster production speeds. ONYX 18.5 is the first solutions with Adobe PDF Print Engine (APPE) 5.1 with support for PDF 2.0 features. ONYX 18.5 is available for full license purchase or as an upgrade through a subscription to ONYX Advantage.  
[www.onyxgfx.com](http://www.onyxgfx.com)

## Premier Paper Group

L20

Display Graphics is the division of Premier Paper servicing the sign & display market; offering a wide choice of products suitable for POS/POP displays and graphics, intended for both short and long term use. Premier's portfolio of sign and display products has been put together with the printer and end user in mind; the products will help to make some of the most eye catching, memorable and innovative retail displays. Premier provides an unparalleled level of customer service with their own dedicated delivery fleet and team of experienced account managers.  
[www.paper.co.uk](http://www.paper.co.uk)

## PrintMAX

F20



printMAX are leading suppliers of large format print equipment for Roland, Mimaki, HP and, as of this year, Summa. With 20 years of experience we are committed to delivering printers, cutters, laminators and consumables with high quality support and service to ensure you can get the best return on investment. For our 11th year at the show we are thrilled to be bringing an extensive array of the newest cutting-edge technology including our manufacturers' latest machines that can't be missed. We look forward to showing visitors the best products for their company and offering unparalleled care, knowledge and expertise well into the future.  
[www.printmax.co.uk](http://www.printmax.co.uk)

## Protek

C34

Protek manufactures CNC routers and working centres including the UNICO CNC milling machine with high performances for hard materials (dibond, composite, plexiglass, wood, Forex, aluminium). This machine can be equipped with a cutting head as an option together with the milling head. The UNICO TT multifunction machine that can process various materials is equipped with one milling head and two cutting heads for a wide range of materials from soft banners through cardboard to aluminium and plexiglass. The UNICO TT can be equipped with a conveyor unit for textile materials or rollers in general.  
[www.protek.it](http://www.protek.it)

## Pureimage

M15

Delivering innovative, creative, quality, professional and cost effective solutions from international applied design and innovation, we are dedicated to providing a professional, responsive and effective resource, delivering performance excellence, providing products and services to all businesses for their outdoor and print needs. We work closely with our partners to ensure that our journey is one of constant learning and growth, enabling them to better meet the needs of our customers, employees and suppliers as the market evolves. Currently our most popular products are projecting lightbox (blade) signs, double-sided LED window display panels for estate agents, wall-mounted LED backlit, poster display panels.  
[www.pureimageuk.com](http://www.pureimageuk.com)

## Resolute DTG

C15

Resolute DTG are a multi-brand specialist inkjet equipment, service and consumables supplier. Combining the very latest technology, we design green button systems for UV, DTG and large format from entry level to high production. Resolute also offer specialist field service and support to Ricoh Gold Level standards.  
[www.resoluteink.co.uk](http://www.resoluteink.co.uk)

## Righton Blackburns

C26

Righton Blackburns distributes a wide range of flat sheet materials and accessories to the sign & display Industry. The standard stock range includes aluminium composite material (ACM) in an extensive range of colours and finishes, PVC foam and thermoformable products including polycarbonate, PETG, extruded and cast acrylics. The company is sole UK distributor for Alucobest aluminium composite material and markets Sealwise, a waterproof construction board that can be flat bed printed and a large range of road traffic products. The company's offering is completed with fluted panels, aluminium extrusions, square and round posts, adhesives, mechanical fixings, tapes and gear trays.  
[www.rightonblackburns.co.uk](http://www.rightonblackburns.co.uk)

## Roland DG

F30

Imagine.

Roland

2018 was a year of intense product development for Roland DG. At this year's Sign and Digital exhibition Roland will put these new products in front of the sign and graphics community. This is a great opportunity for business owners to get answers to their questions from the people who built the machines. From print and cut to UV printing, direct to garment and engraving, Roland is sure to offer real solutions to the big challenges in digital printing today and help print service providers expand their capabilities and grow their businesses.  
[www.rolanddg.co.uk](http://www.rolanddg.co.uk)

## Rollsroller

D38

ROLLSROLLER flatbed applicator has revolutionised the finishing work of many sign makers. Using manual processes for sign making can make it difficult to meet your customer's growing demands. Many of the manual procedures are strenuous, time consuming and demanding and result can vary. ROLLSROLLER flatbed applicator gives you perfect results in a third of the time.  
[www.rollroller.se](http://www.rollroller.se)

## Sabur Digital

K10



Sabur Digital will celebrate its 21st birthday with special show offers and a daily Champagne prize draw. The company will exhibit printers for all aspects of digital printing including print and cut, textile and UV, from manufacturers including DGI, Mimaki and Roland. Sabur has industry leading personnel and a specialist in each sector that have a wealth of knowledge in their specific field. Come and meet the team including managing director Dean Sanger, Dan Jeffries (UV printing), Aaron Burton (textile printing) and Joe Preddy (print and cut). [www.saburink.com](http://www.saburink.com)

## SIGNET Sign System

J38

We will present our Swedish flexible modular sign system SIGNET used for visual communication. Come and see how our double-sided profiles can be used in at least 10 different ways and meet our compatible flat systems SLIM, SLIDE-DOWN, MAGNETIC and FLEXI, the curved CONVEXA and ELEGANCE, as well as the freestanding pylon TOTEM. [www.signet.se](http://www.signet.se)

## Signgeer

K29

Industry leader Signgeer are back this year bigger and better than ever. Signman and his team have some exciting plans in store... demos, big competitions, fantastic show offers, their own new mini tournament and the very latest innovative sign tools from around the world. Pop by for your copy of the super new catalogue. We'll be blasting vinyl with the MBX vinyl remover and you'll be able to see a huge selection of products from our partner brands including Yellotools, Keencut, Swann Morton, Olfa, 3M, SAi Flexi Signmaking Software, WrapGlove and VR15 Vinyl Remover. It's going to be a big one. [www.signgeer.com](http://www.signgeer.com)

## Sign Making Tools

P55

Sign Making Tools was created by sign makers for sign makers. Paul and Julia hold over 30 years' experience in the sign industry; they make signs every day, so know it's frustrating when all you need are tools for vehicle wrapping, knives, cleaning and preparation (the job everyone hates), squeegees and advice. Ask any question, Paul and Julia like to share information

and knowledge. They offer support from a quick telephone call to on-site training for your staff. We want to make your job easier. So come and have a look and a chat; you can buy and take away the smaller tools immediately. [www.signmakingtools.co.uk](http://www.signmakingtools.co.uk)

## Signmaster Systems

C30

Signmaster Systems can provide solutions to all your wide format needs from purchasing new printers and finishing equipment to stocking up on inks and media. We pride ourselves on going the extra mile and so our customers benefit from impartial advice, technical support and training. We are proud suppliers of Mimaki, Roland, Rollover, Vivid, Metamark and many more. Our stand at the show this year will be slightly different. We are going interactive and so given all our visitors a change to demo printers, finishing equipment and some other exciting products new to our range so please visit us. [www.signmaster.co.uk](http://www.signmaster.co.uk)

## Sign Update

M4



At Sign Update we aim to inspire, inform and support all those involved in the sign making and graphic display business with industry news and comment, in-depth features, case studies and practical 'toolbox' articles. Our multi-media offering includes a magazine and website which bring you the latest job vacancies, businesses and equipment for sale and a comprehensive buyers guide. Started in 1990 by a sign maker, Sign Update is the longest established signage magazine in the UK and the whole team are passionate about the industry. Stop by our stand and say hello. [www.signupdate.co.uk](http://www.signupdate.co.uk)

## Signwaves

L18

Signwaves is a UK manufacturer of sign and display products for both internal and external use. From the UK's top selling pavement signage Ecoflex and Swinger to an extensive range of a-boards, forecourt signs, poster mounting displays and portable exhibition equipment, Signwaves provide branding solutions from kerb to counter. The company is proud to supply leading brands, multi-store retailers, marketing agencies and the sign trade. [www.signwaves.co.uk](http://www.signwaves.co.uk)

## Signzworld

J37

Signzworld is the outstanding choice for all of your sublimation printing needs. Our huge catalogue of products doesn't stop there;

we stock a varied range including heat press and vinyl cutting equipment, lamination and cutting solutions, sign making and T-shirt vinyl as well as 3D and laser printing tools. [www.signzworld.co.uk](http://www.signzworld.co.uk)

## SloanLED

D40

SloanLED will be showcasing their wide range of industry leading LED systems at this year's Sign and Digital UK. New for the show will be SloanLED's Prism Mini module, ideal for small channel letters at 50-100mm deep. Now featuring an identical chip to the Prism modules and available in a full range of whites along with red, green and blue, the Prism and Prism Mini modules enable brands to match consistency across large and secondary sign lettering and with their 10 years parts and assisted labour warranty, there'll be a lot to talk about with the team. [www.applelec.co.uk](http://www.applelec.co.uk)

## Solar Illuminations

K5

Solar Illuminations is the leading online solar lighting provider in the UK. We have the largest selection of solar lighting systems and have been working in the industry for more than 15 years. Product offering includes solar sign lights, billboard lights, lighting columns and power systems. [www.solarilluminations.co.uk](http://www.solarilluminations.co.uk)

## Spandex

C10



Spandex offers a wide range of materials and equipment supported by high levels of customer service and product availability. Its portfolio includes leading brands 3M, Avery Dennison, ORAFOL, ImagePerfect, Arlon, swissQprint, Epson, HP, Roland, Mutoh and ROLLSROLLER. Spandex will showcase swissQprint's Impala UV LED flatbed printer with a new control system and the option of dual roll printing. The wrap section of the stand will be dedicated to Arlon, where Spandex will be demonstrating the Arlon SLX Cast Wrap and the IllumiNITE Wrap both with FLITE Technology and a new product being seen for the first time in the UK. [www.spandex.com](http://www.spandex.com)



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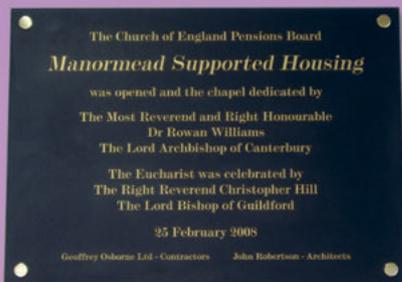
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# SIGN & DIGITAL UK 2019 Preview

## STADUR

M30

STADUR offers a full range of lightweight foam boards for the advertising market. Thanks to the special surfaces, the lightweight foam boards are suitable for digital or screen printing and for photo mounting, PoS/PoP display construction, shop design and much more. STADUR will show how their products can be transformed into PoS displays, furniture and stand-up displays.  
[www.stadur.com/en](http://www.stadur.com/en)

## Stanford Marsh

H42

Stanford Marsh Group including plot-IT proves nationwide services for 3D printers, HP latex and Pagemark XL printers, Canon PRO and TX Series, SUMMA cutters and ONYX Rips with online sales of consumables for next day delivery. With five UK offices and staff throughout the UK including Scotland and Northern Ireland, we offer a truly nationwide service for hard ware supply, consumables and ongoing maintenance.  
[www.stanfordmarsh.co.uk/www.plot-it.co.uk](http://www.stanfordmarsh.co.uk/www.plot-it.co.uk)

## Summa

B10

Summa's world renowned finishing equipment of vinyl/contours cutters and professional flatbed systems for the sign making industry will be on show as part of an integrated workflow solution. The F1832 will be the key print finishing element showing how a modern workflow increases productivity and profit.  
[www.summa.eu](http://www.summa.eu)

## Target Transfers

C20

See the latest in heat press technology and garment decoration with Target Transfer's advanced machines and materials. As the UK home of Stahls' and Stahls' Hotronix, the company is proud to be trusted by fashion, retail and sports brands throughout the UK. You will be able to see why Hotronix machines are the heat press of choice among garment decorators. Join the team to test the unrivalled heat consistency you can get with a Stahls' Hotronix upper platen. Alongside heat presses, Target will demonstrate materials for decorating sportswear including Stahls' heat transfer vinyl and custom transfers with four-way stretch.  
[www.targettransfers.com](http://www.targettransfers.com)

## Tecna UK

F46

At Tecna UK we create stunning, seamless displays using T3, a highly innovative and versatile modular display system that is adaptable to a variety of environments. The fantastic thing about T3 is that it is completely reconfigurable and thanks to our patented 'twist and lock' connector, requires no tools to build. Whether you require exhibition stands, conference sets, displays or lightboxes, we will design, build and deliver the perfect display solution for you.  
[www.tecnauk.com](http://www.tecnauk.com)

## TheMagicTouch

L36

TheMagicTouch introduces innovation to reduce production cost and time when decorating garments. The new T.Foil Dark transfer process "ticks all the boxes" for affordable and stunning results. To date, decoration of garments with metallic and sparkle flex has involved the traditional method of cutting and weeding which becomes somewhat a challenge when producing intricate designs or short-run production orders quickly. The new T.Foil Dark transfer paper simplifies the process using the latest in CMYK and CMY+White toner printers. The bottom line is being able to decorate garments for less than a £1 per transfer using printers that cost less than £300 - no risk, no nonsense.  
[www.themagictouch.co.uk](http://www.themagictouch.co.uk)

## Thinklaser

A12

Thinklaser will demonstrate the Lightblade 4060 and 6090; with a working area of 400 x 600mm and 600 x 900mm these are the most popular models of our flatbed CO2 Lightblade range. If you are looking for something a little larger we can offer systems with working areas up to 1600 x 1000mm. In addition, we will launch the Lightblade 3060 Desktop system which has some neat design surprises and the budget Lightwriter desktop fibre system for high speed marking applications. We will also be showing our Lightblade Learning Lab series of video tutorials featuring Russ and his Lightblade 4060.  
[www.thinklaser.com](http://www.thinklaser.com)

## Trade Etching Direct

M12

If you are looking for quality etched signs or precision chemical milling then you have come to the right place. Trade Etching Direct is an industry leader in chemical etching, 100% quality guaranteed, deep etching, trade prices that give you an excellent margin and fast turnaround.  
[www.tradeetching.com](http://www.tradeetching.com)

## Trotec Laser

L10



Trotec is a market leader in laser cutting, engraving and marking machines and materials. The company will showcase a selection of laser machines for a variety of signage, display and design applications, including the Speedy 300 flexx dual source laser and the R500 large format machine. Visit our stand for live demonstrations on a range of materials and see for yourself what your business can achieve and get a sneak preview of the latest innovative laser machine from Trotec.  
[www.troteclaser.co.uk](http://www.troteclaser.co.uk)

## UK Industrial Tapes

M32

UK Industrial Tapes is a leading manufacturer, converter and supplier of high performance adhesive tapes and adhesive products with over 25 years' experience, priding ourselves on high product quality combined with excellent customer service to offer a reliable and innovative solution for all tapes and adhesive applications and customer requirement. We have vast experience and knowledge supplying into the sign & graphics industry, offering an extensive range of high performance tapes and adhesives, specific for each application to ensure the highest performance product is available for all applications.  
[www.ukindustrialtapes.co.uk](http://www.ukindustrialtapes.co.uk)

## Very Displays

H24

Very Displays is the real alternative when it comes to honest trade only portable display solutions. With over 50 years' experience and knowledge of the industry, we've selected a mix of the most efficient and effective products to add value to your business and help increase profit. We have a knowledgeable, dedicated and experienced team ready to serve. Our customer portal gives customers easy access to a world of information that until now, they'd have had to call up directly to obtain. Very Displays offers exclusive designs of roller banners, tension banners, pop-ups, tube systems, flags, outdoor products, profile extrusions, LED lighting and cases.

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

## Viscom LEDS & Frames

K34

Viscom LEDS & Frames is a leading company in the commercialisation of products for visual communications. We stand out for the quality of our products and for an excellent service to our customers, offering technical support. We base our business on the quality of our products and machines, offering our clients the highest quality standards at a competitive price. Our machines are leaders in the market for their precision, the quality of their finishes and together with our LED technology products, high efficiency and reliability. We will be happy to help you grow your business to where you want it to reach.

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

## Vivid Laminating Technologies

J40

Vivid Laminating Technologies are designers and manufacturers of market-leading print finishing solutions for lamination and foiling and spot UV effects. We pride ourselves on reliable systems that extend the in-house capability of our customers while improving cost-efficiency through simple set-up, faster production times and economic consumables. We will be showcasing the new Matrix Metallic modular system and the Easycut compact CNC plotter cutting system; examples from the Magnum range of cut, crease, perf, fold and slit systems which offer an ideal partnership to a Matrix in any digital print environment; and Easymount wide format lamination solutions.

[www.vivid-online.com](http://www.vivid-online.com)

## William Smith

C16



William Smith will show examples from its wide range of architectural finishes and wall/window decoration films including the 3M DI-NOC interior and exterior architectural finishes that replicate the appearance of hundreds of original material including solid wood, metal, stone, leather, marble and concrete. Architectural films from Cover Styl' are UV- and fire-resistant with an A+ rating on VOC testing for interior applications. Avery Dennison's MPI800 series of textured and high-tack interior wall decoration films come in six options including canvas, crushed stone and natural stucco. The Squid Window Textile Film is a transparent woven polyester fabric which can be applied to any size/shape of flat window or glass partition.

[www.williamsmith.co.uk](http://www.williamsmith.co.uk)

## Wrights Plastics Group

L38

With over 50 years' fabrication experience, a large and skilled team and investment in cutting edge technology and software, we offer an unmatched range of high quality, exceptional value sign making services. We already work for leading sign makers such as Merrill Brown and Sign Specialists as well as small and medium sign companies across the UK. We offer a massive range services for sign makers including laser cutting, vacuum forming, digital printing, CNC, fabrication, drape moulding and line bending. We look forward to meeting you to discuss how our services and products can support your sign business.

[www.wrightsplastics.co.uk](http://www.wrightsplastics.co.uk)

## Your Print Specialists

E2

With 40 years of experience, YPS are leading suppliers of wide format printing and finishing solutions from Mimaki, HP Latex, Roland, Flexa and Bubblefree. A reliable, service-led partner within the digital, screen and litho print industry, we can advise on the latest technology for your printing requirements from textile, industrial to sign and graphic. We are suppliers of OEM consumables, media such as Metamark, RIP software, warranty and support. We look forward to speaking to you about the applications you wish to develop and how we can provide the knowledge and support you need.

[www.yourprintspecialists.co.uk](http://www.yourprintspecialists.co.uk)

## Zünd UK

D30



Zünd UK will demonstrate the 3.2m x 3.2m Zünd G3 3XL3200 and the more compact Zünd S3 L1200, which has a working area of 1.8m x 1.2m.

The Zünd G3 can process a wide variety of roll media including textiles, vinyls and banners and rigid media including acrylic, MDF, ACM and expanded PVC. Zünd will demonstrate a Zünd S3 L1200 machine, configured for the cutting and creasing of carton and corrugated sheets and roll media such as vinyl. The cutter will be fitted with a robotic arm to show its productivity and accuracy, accelerating processes for a range of applications within the sign industry.

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

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See website for details.

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[www.applied-image.com](http://www.applied-image.com)

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If you are interested we would be very pleased to hear from you.

Working demonstration available on request.

For further information please contact: Paul Gregory, Atlantic Group

Mobile : 07970 837630

Email : [paul@atlanticgroup.co.uk](mailto:paul@atlanticgroup.co.uk)

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Pacer 4008 CNC Router, ATC

Heavy Duty Machine

1500 x 2400mm. **POA**



Zund G3 L-3200, 2011,

1m extension, Router head,

1800 x 3200mm,

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Isel Flatcom M50, 2013, ATC,

Vacuum Bed,

Tool Control Pendant,

Fully Enclosed. **£12,500**



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Mist Coolant, CAM software,

3m x 2m. **£9,500**

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This is a full-time position and the candidate would be required to work at our North West Of England location.

Working closely with the business's founder, the candidate would need to display a can do attitude and an ability to work in a fast paced, customer orientated environment. An ability to work with vinyl, rigid substrates and digital prints would be a distinct advantage.

A proven ability to determine work schedules, work with customers and managing a busy print room and factory floor, are all pre-requisites for this position.

Email your CV, in confidence, to [jonathan@insigniasigns.ie](mailto:jonathan@insigniasigns.ie) for further details.


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A full UK Driving License with no more than 3 points is required. We will provide a fully equipped modern company vehicle, uniform, PPE and a safe working environment.

The successful candidate must be honest, self-motivated, have great communication skills, able to work from home, flexible enough to placate the varying needs of our clients and to support neighboring colleagues.

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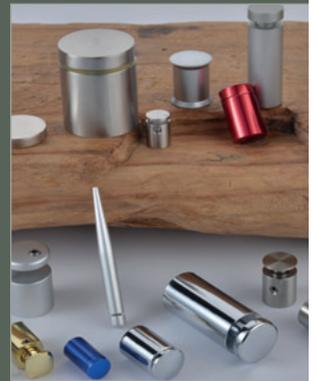
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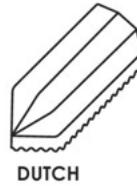
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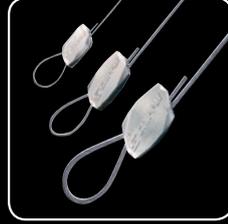
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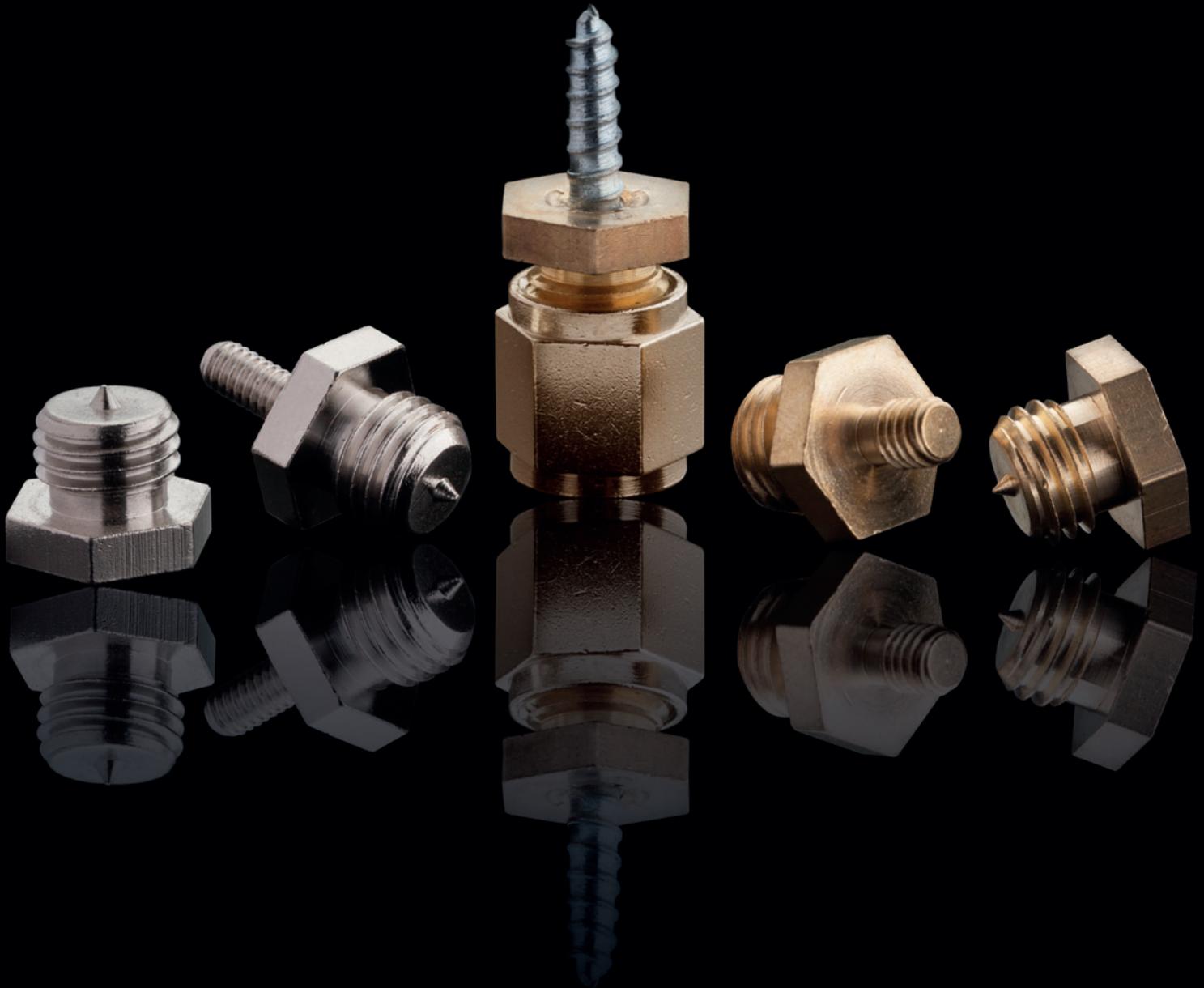
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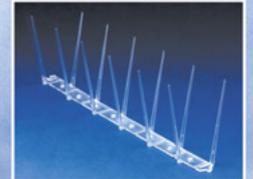


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enquiries@sott.co.uk  
www.sott.co.uk

Cast in polyurethane with detail in relief and hand painted full colours. May be cast on their own or as part of an entrance sign, blue plaque or street sign etc. We also cast coats of arms in aluminium, grp or bronze. Please send details for a quotation.

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Maze House, Maze Street, Barton  
Hill, Bristol BS5 9TE  
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info@ward-signs.co.uk  
www.ward-signs.co.uk

Wards of Bristol Specialise in manufacture, restoration and accurate reproduction of historic and modern coats of arms. We are able to produce from originals, information from heraldic associations, or even from a photograph. Check our website for recent projects.

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info@gessltd.co.uk  
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The complete package. We offer an exemplary installation service for all types of signage, from street level to extreme high level, specialising in abseiling. We have full Public and Company Liability Insurance. For each installation we provide a full project management service, from site survey to sign off and provide a full Risk and Method Statement prior to any works being undertaken.

### MEDIA ABSEILING

69 Soulbury Road, Leighton Buzzard, Beds, LU7 2RW  
Tel: 0845 345 7712  
Mob: 07702 950 218  
info@mediaabseiling.com  
www.mediaabseiling.com

Rope access company specialising in the installation and maintenance of all types of signage, banners and lighting. We operate nationwide and throughout Europe and provide advice, site visits, fast turnaround and most importantly award-winning results.

## MIDA SIGN SERVICES UK LTD

Welbeck Street South, Ashton-Under-Lyne OL6 7QZ

Tel: 0161 8 300 600

info@midasignservices.co.uk

www.midasignservices.co.uk

Professional installation and maintenance of all types of signage, graphics and banners. Including, Site surveys, Illuminated signs, Flexface signage, LED etc. Nationwide service. Established 1984.

## PERFECTIONIST PROJECTS LTD

Dittons Road, Polegate, BN26 6HY

Tel: 01323 489361

www.perfectionistprojects.co.uk

Our unbranded installation crews are very experienced, fully qualified and are all directly employed by us, we do not sub-contract out work - this ensures clear and accurate communication at all times. We are available at short notice to assist your company anywhere in the UK with a complete range of professional services.

## SIGN INSTALLATIONS (EST. 1995)

2-4 Foredown Drive, Portslade, East Sussex BN41 2BB

Tel: 01273 424900

sales@sussexsigns.com

www.sign-installations.co.uk

Let us be your professional sign installation team, in London, Sussex, Hampshire, Surrey and Kent. With 25 years of sign installation experience, our neatly presented fitting crews will work for you to increase your profits. Customer service and client confidentiality are paramount, so you can be sure your hard earned reputation is in safe hands.

## SIGNS & GRAPHICS INSTALLATIONS

40 Sherwell Valley Road, Torquay, Devon TQ2 6EY

Tel: 01803 701 887

steve@signsandgraphicsinstallations.co.uk

www.signsandgraphicsinstallations.co.uk

Signs & Graphics Installations offer a one-stop installation and maintenance service, providing a whole package: surveying, project managing, installation and maintenance. Once we receive your order our professional sign fitting crew will be able to install, maintain and finish your signage to the highest standard.

## LAMINATING/ENCAPSULATING

### VIVID LAMINATING TECHNOLOGIES

Matrix House, Norman Court, Ivanhoe Business Park, Ashby de la Zouch, Leicestershire, LE65 2UZ

Tel: 0345 1 30 40 50

sales@vivid-online.com

www.vivid-online.com

Vivid supply a wide range of laminating products including the award-winning Easymount range of wide format laminators, available in cold, heat assist and hot models. Vivid also supply the Boss range Pressure Sensitive Over Laminates, Self Wound Mount Films & Printable Vinyl Roll fed and the Trimfast range of wide format Board Cutters and Multi Substrate Cutters.

## LASER CUTTING/ENGRAVING

### SIGN HERE

179 Fosse Road North, Leicester, LE3 5EZ

Tel: 08085 428021

sales@sign-here.co.uk

www.sign-here.co.uk

Trade service for Laser flat cut & built up lettering & logos in Acrylic, Aluminum & Stainless steel. We will give you a professional reliable & efficient service at a competitive price. From a single letter to a fully illuminated sign ready for installation. For a quote or just friendly advice contact us. We are here to help. Work with us.... work with experience

### SYGNET SIGNS LTD

129 Humberstone Rd, Leicester, LE5 3AP

Tel: 0116 262 6288

sales@sygnetsigns.com

www.sygnetsigns.com

Sygnetsigns offers a laser-cutting service and stocks a wide variety of materials in various thicknesses to suit you. We can also fabricate signage from free issue materials, using our lasers to cut stainless steel up to 4mm and mild steel up to 12mm in thickness. We can also cut very small acrylic detail with pre-applied double-sided tape, and all work is carried out on-site at our Leicester HQ.

### THINK LASER LTD

Unit 3, Perrywood Business Park, Honeycrook Lane, REDHILL, Surrey RH1 5DZ

Tel: 01737 826902

info@thinklaser.com

www.thinklaser.com

Our Subcontract department offers a high quality laser engraving service for permanently marking flat, cylindrical and irregular surfaces of virtually any material. We also offer laser cutting up to 1400 x 900mm in size and 18mm in thickness on a wide variety of non-metallic materials such as acrylic, PLY and MDF. With a minimum order value of £30, laser processing has never been so affordable.

## LASER CUTTING/ENGRAVING MACHINES

### BOXFORD

Dewsbury Road, Elland, West Yorkshire, HX5 9BG

Tel: 01422 324 810

www.boxford.co.uk

Our range of cost effect Laser Co2 Cutters and Engravers have bed sizes from 500 x 300mm to 1300 x 900mm and feature integrated chiller cooling systems, auto focus system, air assist c/w integrated compressor, red dot pointers and honeycomb cutting tables. Metal Cutting and Marking Lasers also available including fibre based systems. Supplying lasers since 2003, we have a wealth of expertise.

## HPC LASER LTD

Castle Mills, Saddleworth Road, Elland, West Yorkshire, HX5 0RY

Tel: 01422 310 800

sales@hpclaser.co.uk

www.hpclaser.co.uk

Specialist suppliers of LASERSCRIPT CO2 laser engravers and cutters. Our lasers are capable of cutting, engraving and marking a wide range of materials including laminate, metal, glass, acrylic, textiles, wood, paper, card and leather. Optional 1 to 3 year ONSITE warranty available and unlimited technical support. Established in 2006, over 4500 machines supplied!

## THINK LASER LTD

Unit 3, Perrywood Business Park, Honeycrook Lane, REDHILL, Surrey RH1 5DZ

Tel: 01737 826902

info@thinklaser.com

www.thinklaser.com

The Lightblade range of flatbed CNC laser cutting and engraving machines are specifically designed for non-metallic marking and cutting applications. Our comprehensive system specification and 1st class training and support ensures you will be up and running in no time. With bed sizes ranging from 300 x 400mm up to 1600 x 1000mm there is a system to suit all applications and pockets. Call us now!

## TROTEC LASER

Unit 3 Faraday Close, Washington, Tyne & Wear NE38 8QJ

Tel: 0191 580 1184

www.troteclaser.co.uk

Manufacturers and suppliers of leading laser cutting, marking and engraving technology, Trotec offers a range of lasers with desktop, flatbed, large format and galvo options. With 6 showrooms in the UK and Ireland, hands-on workshops, training and demos show the high quality engraving and productivity of Trotec's laser machines. Trotec also supplies its own range of rotary & laser materials.

## LED ILLUMINATED LETTERS

### ACCENT SIGNS LTD

Units 4, Broadcote Ind. Est., Station Rd., Cradley Heath B64 6NT

Tel: 0121 561 4600

accsign1@aol.com

www.accent-signs-ltd.co.uk

Accent signs "SLIMLITE" flat cut letters & logos made from 6mm opal acrylic with imbedded super bright white LEDs to create a unique edge and halo illumination. Available with ACM, Acrylic or vinyl faces. Suitable for internal & external use. Supplied with standard locator fixings for ease of fitting.

## LED ILLUMINATION

### 3D SIGN SYSTEMS LTD T/A CITI LED

Unit 1, 411 Pollokshaws Rd, Glasgow, G41 1QZ

Tel: 0141 422 2500

sales@citi-led.co.uk

www.citi-led.co.uk

We are a trade only supplier of LED Modules for all types of channel letters, light boxes and solid acrylic "Neon" effect type letters. We have some very unique specialist LEDs, visit our website for product information and installation tutorials. We offer premium grade reliable products at highly competitive prices. Our unrivalled pre-sales guidance and after sales support will ensure your projects are executed with maximum effect.

## APPLELEC

Unit 1, Wharfedale Business Park, Shetcliffe Lane, Bradford BD4 9RW

Tel: 01274 774477

sales@applelec.co.uk

www.applelec.co.uk

Sole UK distributor of SloanLED LED systems. Trade suppliers of LED lighting solutions and manufacturers of the flat light unit, LED Light Sheet. We supply energy efficient, award winning LED modules in a variety of colours including RGB (colour changing). We will support you in choosing the right LEDs for your project whilst our after-sale technical support ensures you receive continued assistance.

## ARTILLUS - WAYS 2 DISPLAY LTD

Britannia House, 29 Station Road, Kettering, Northants NN15 7HJ

Tel: 0333 123 0345

sales@ways2display.com

www.artillus.com

DIAMOND 24V LED light boxes and GARNET light panels can be produced in any size up to 3000 x 1500mm. Diamond light boxes have a 20mm deep frame and 25mm snap frame front. Standard sizes in A4 up to A0 for next day delivery. Custom boxes & GARNET 8mm deep light panels can be made in single colour LED or RGB with controllers, can be dimmable or have built-in phasing. No minimum order quantity.

## FOCUS LED UK LTD.

Unit 38 Cariocca Business Park, 2 Hellidon Close, Arkwick, Manchester, M12 4AH

Tel: 0161 27 27 778

sales@focusledtd.co.uk

www.focusledtd.co.uk

Specialise in LED Lighting for Signs & Shop fitting, Kitchens, Restaurants, Commercial & Domestic Lighting. Quality & Professional Lighting to get your job done by giving you our best advises, there is no job too small. You only pay for quality products at Focus LED. Check out our gallery to see how we helped others to achieve their projects.

## KINGS PLASTICS LTD

The Signbuild Centre, Kelso House, St Philips, Bristol, BS2 0PH

Tel: 0117 9411 411

enquiry@kingsplastics.co.uk

www.kingsplastics.co.uk

White, warm white & coloured LED modules in 4 sizes and LED ribbon Flexi ribbon & RGB ribbon. New to 2018 LED Flexi Neon & LED Cabochon bulbs. 12v power converters, RGB controllers, together with a range of connectors. LEDs ideal for lettering & lightboxes. For full details on our range, prices and for images, check out our website & online shop. Competitive prices guaranteed!

## LED SOLUTIONS

129 Humberstone Road, Leicester  
LE5 3AP

Tel: 0116 262 5933  
sales@ledsolutions.co.uk  
www.ledsolutions.co.uk

Since 2005, LED Solutions has supplied energy-efficient LED products, power supplies and control gear for use in the sign trade. We are UK distributors for Hitechled, specialising in ultra-reliable modules for signage illumination and offering a 5-year warranty on all products. We supply RGB modules, DMX systems, Flexible LED and IP-Rated Power Supplies and Enclosures from our HQ in Leicester city.

## SIGNTRADE LETTERS LTD

225 Long Lane, London N3 2RL

Tel: 08085 456700  
sales@signtrade.co.uk  
www.signtrade.co.uk

Chromasign launched at Sign UK. We offer a complete range of ChromaForm Letters with Halo Lighting not available anywhere else. Ring Susan or Lesley for details and samples.

## LED WINDOW DISPLAYS

### ISPI TRADE LTD

47 Mansionhouse Road, Mount  
Vernon, Glasgow G32 0RP

Tel: 0141 764 1600  
sales@ispitrade.com  
www.ispitrade.com

iSpi Trade is the UK's premier supplier of LED window display solutions. With A4, A3 and A2 size options in portrait or landscape, we can supply fully configured kits which are designed to match your windows specifications, plus we provide single panels, accessories and replacement parts, all at low trade prices.

## LIGHT BOXES & LIGHTING

### APPLELEC

Unit 1, Wharfedale Business Park,  
Shetcliffe Lane, Bradford BD4 9RW

Tel: 01274 774477  
sales@applelec.co.uk  
www.applelec.co.uk

Trade suppliers of fabricated and extruded light boxes, custom made to client design requirements. From flat faced and curved styles, to LED illumination and colour changing modules, a definitive range of light box products is available. Applelec's flat light unit LED Light Sheet is regularly used to create ultra slim light boxes with bright, even illumination at a depth of just 25mm.

### ARTILLUS - WAYS 2 DISPLAY LTD

Britannia House, 29 Station Road,  
Kettering, Northants NN15 7HJ

Tel: 0333 123 0345  
www.artillus.com

DIAMOND 24V LED light boxes and GARNET light panels can be produced in any size up to 2500 x 1500mm. Diamond light boxes have a 20mm deep frame and 25mm snap frame front. Standard sizes in A4 up to A0 for next day delivery. Custom boxes & GARNET 8mm deep light panels can be made in single colour LED or RGB with controllers, can be dimmable or have built-in phasing. No minimum order quantity.

## BROWNING'S LTD

157 English Street, Hull, HU3 2BT  
Tel: 01482 380900

sales@browningstld.co.uk  
www.browningstld.co.uk  
Browning's is one of the largest TRADE ONLY suppliers of signage products in the UK. The Company manufacture everything from poster frames to flex-faced signage. We have our own extrusions for the manufacture of acrylic-faced light boxes and can supply as lengths, in kit form or as ready-made up signs. All to your individual, specific requirements in terms of size, colour or shape.

## MAGNETIC MATERIAL

### ANCHOR MAGNETS LTD

Bankside Works, Darnall Road,  
Sheffield S9 5AH

Tel: 0114 244 1171  
sales@anchormagnets.com  
www.anchormagnets.com

UK's largest stockist of magnetic & ferro material including universally printable & wide format digifilm ferrous media (1600mm) supaferro ferro sheet (1260mm) & supamag magnetic sheet (1270mm) with the UK's highest pull force & anti-mark UV coating, in white, plain, self-adhesive & dry-wipe. For graphics, retail POS, signage, holding & hanging products use the UK's leading magnetic innovators.

### BISBELL MAGNETIC PRODUCTS LTD.

Hillfield Lane, Stretton, Burton on  
Trent, Staffs DE13 0BN

Tel: 01283 531000  
sales@bisbellmagnets.com  
www.bisbellmagnets.com

The UK's widest range of digitally printable wide format magnetic and ferro sheet (both over 1200mm wide). Maxmag vehicle grade magnetic materials available in white, plain or adhesive backed - by roll or cut to your specific requirements. Also available neo magnets, vehicle roof magnets, sign grippers and a full range of high tape to suit every budget and application.

### MAGNETIC SOLUTIONS LTD

Brooklands Business Park, Leigh  
Street, Sheffield S9 2PR

Tel: 0114 2422211  
sales@magnetic-solutions-ltd.co.uk  
www.magnetic-solutions-ltd.co.uk

Part of the Sanders Group, Europe's largest combined supplier of magnetic & ferro sheet materials including wide format magnetic (1370mm) and ferrous media (1600mm). Also available, retail POS graphic materials, magnetic flooring, neo magnets, sign grippers and magnetic tape with a range of adhesive finishes to suit your requirements. We can provide the solutions.

## MODULAR PANEL SIGN SYSTEMS

### SIGNSCAPE AND SIGNCONEX LTD

Pear Tree Works, Bath Road, Upper  
Langford, Bristol BS40 5DJ

Tel: 01934 852 888  
sales@signscape.co.uk  
www.signscape.co.uk

Serving the Sign Trade for over 40 years, we are a leading manufacturer of modular sign systems, notice boards & information displays. Our systems create a wide range of sign solutions including; post and panel, flush panel and curved panel signs; wayfinding signs, wall directories, monolith and fingerpost signs. Other products include exterior notice boards, poster/menu cases, and letter boards.

## MOULDED & FABRICATED PLASTICS

### MERCURY & PHILLIPS SIGNS 51-59 Waterworks Road, Norwich NR2 4DA

Tel: 01603 666699  
sales@mercuryphillips.co.uk  
www.mercuryphillipssigns.co.uk  
Suppliers of moulded acrylic pans and logos up to 2800mm x 1500mm and other types of press and vacuum forming in PVC and HIPS. Specialists in fabricated plastics for POS displays with full screen print, graphics and CNC routing capabilities.

### PROJECT PLASTICS LTD

7 Grange Way Business Park,  
Whitehill Industrial Estate,  
Colchester CO2 8HF

Tel: 01206 868696  
project.plastics@btinternet.com  
www.projectplastics.co.uk

Manufacturers of acrylic domes and shapes, tubes, point of sale displays and showcases. Bespoke plastic fabrication. CNC routing, diamond edge polishing, 3m x 2m moulding oven for oven forming, vacuum forming and screen printing. Plastic cut to size service.

## MOULDED LETTERS

### ACCENT SIGNS LTD

Units 4, Broadcote Ind. Est., Station  
Rd., Cradley Heath B64 6NT

Tel: 0121 561 4600  
accsign1@aol.com  
www.accentstgns.co.uk

Largest range of moulded acrylic letters in the UK. Mirror effect moulded letters, LED illumination, logos, panels, complete fascia panels, blow moulding, aluminium, composite trays and more! Samples on request.

## MERCURY & PHILLIPS SIGNS

51/59 Waterworks Rd. Norwich NR2  
4DA

Tel: 01603 666699  
sales@mercuryphillips.co.uk  
www.mercuryphillipssigns.co.uk  
Moulded letters and logos in all standard Perspex colours and UV stabilised gold and silver acrylics, in 8 standard sizes, bespoke sizes available on application. Press, vacuum and blow moulded pans, in acrylic and petg also available.

## SIGNTRADE LETTERS LTD

225 Long Lane, Finchley London  
N3 2RL

Tel: 08085 456700  
sales@signtrade.co.uk  
www.signtrade.co.uk

Moulded letters are our speciality with stock of 20 fonts 8 letter heights in coloured Perspex and 1000's of flat cut letters as well. Your own font or logo is made by our own toolmakers. With over 60 years of experience to call on.

## WARD SIGNS

Maze House, Maze Street, Barton  
Hill, Bristol BS5 9TE

Tel: 0117 955 3385  
info@ward-signs.co.uk  
www.ward-signs.co.uk

Having patented the original method of making cast resin letters, Wards of Bristol can manufacture and supply resin lettering to the highest standard. Our stock patterns for resin letters are a cost effective method of achieving the same styles as traditional bronze and aluminium (which we also cast in house) but we can also make custom designed patterns for letters and logos for all your needs.

## NAMEPLATES

### MOCKRIDGE LABELS & NAMEPLATES LTD

Cavendish Street, Ashton-under-  
Lyne, Lancs OL6 7QL

Tel: 0161 308 2331  
sales@mockridge.com  
www.mockridge.com

Specialists in chemically etched nameplates. Brass, Stainless Steel and Anodised Aluminium. Any size up to 2400 x 1200mm (8ft x 4ft). One-offs up to 5000+. Trade work is totally confidential.

## NEON MANUFACTURERS (TRADE)

### A1DESIGNS

4 Sandy Lane North, Wallington,  
Surrey SM6 8JX

Tel: 020 8646 9886  
enquiry@a1designs.co.uk  
www.a1designs.co.uk

Neon & Cold Cathode Manufacturers to the Trade. Fast turnaround & Delivery, Quick repair service. Installation, Fault diagnosis, Repairs & Maintenance. Confidential Service. All neon accessories, Transformers, Cable, Tube supports etc.

## AVENUE SIGNS LTD

216-222 Luton Road, Chatham,  
Kent ME4 5BS

Tel: 01634 841300

info@avenuesigns.co.uk

www.avenuesigns.co.uk

Full computerised design service neon and cold cathode lighting. Fully qualified installation engineers, fault diagnosis, fast repair service. Complete sign service from vinyl through to acrylic to polished stainless steel to transformer and neon accessory supplies.

## LOGOTECH DISPLAY SOLUTIONS LTD

Unit 6, Atley Business Pk, North  
Nelson Ind Est, Cramlington,  
Newcastle Upon Tyne NE23 1WP

Tel: 01670 737 225

sales@logotech-ltd.co.uk

www.logo-tech.co.uk

Specialists in neon manufacture to the trade, all types of neon work undertaken. Quick repair service. Very competitive prices. Over 25 years experience in the sign trade.

## NEON REPLACEMENT LETTERS

### ACCENT SIGNS LTD

Units 4, Broadcote Ind. Est., Station  
Rd., Cradley Heath B64 6NT

Tel: 0121 561 4600

accsign1@aol.com

www.accent-signs.co.uk

Accent Signs "LITEFORM" letters & logos with a moulded half round acrylic profile of only 15mm to look like Neon glass. Illuminated with super bright Led's. Available in a wide range of colours. Suitable for internal & external use. Supplied with standard locator fixings for ease of fitting.

### APPLELEC

Unit 1, Wharfedale Business Park,  
Shetcliffe Lane, Bradford BD4 9RW

Tel: 01274 774477

sales@applelec.co.uk

www.applelec.co.uk

Trade suppliers of NeonLux, a faux neon letter system suitable for interior and exterior applications according to specification. Available in a range of colours and embedded with high quality LEDs to deliver bright, clear illumination. Don't forget, any shape or logo can be created, not just letters! Contact our friendly team for more information and request a free and unbranded product brochure.

## NOTICE BOARDS - LOCKABLE/EXTERIOR

### NOTICE ME

2 Glenister House, Avondale Drive,  
Hayes, Middx UB3 3PP

Tel: 0208 581 1067

sales@noticeme.org.uk

www.noticeme.org.uk

Sign companies come to us for a truly extensive range of standard and made to measure, indoor & outdoor notice boards and whiteboards. Standard internal pin boards are available in over 100 felt colours and our cut to size service is available on many products. We supply some extremely competitive outdoor notice boards to compliment your sign work. See our complete range of display products.

## SIGNSCAPE AND SIGNCONEX LTD

Pear Tree Works, Bath Road, Upper  
Langford, Bristol BS40 5DJ

Tel: 01934 852 888

sales@signscape.co.uk

www.signscape.co.uk

Serving the Sign Trade for over 40 years, we are a leading manufacturer of modular sign systems and notice boards. We have the widest range of exterior notice boards of all UK manufacturers, and specialise in tailoring our boards to suit each location. This is achieved through a wide range of options, including; wall, rail, post and stand mountings, mains/solar illumination and custom graphics.

## PLASTIC SHEETS

### BRETT MARTIN PLASTIC SHEETS

24 Roughfort Road, Mallusk, Co  
Antrim BT36 4RB

Tel: 028 9084 9999

semifinished@brettmartin.com

www.brettmartin.com

Brett Martin is a leading manufacturer of plastic sheet products for signage, interior design, shop outfitting, POS displays and fabrication. Products include Foamalux, the extensive foam PVC range in bright White, Satin and Gloss colours and an environmentally friendly Recycled material in addition to Polycarbonate, PVC, Acrylic, aPET, PETg and Styrene sheet.

### RIGHTON BLACKBURNS

Righton House, Brookvale Road,  
Witton, Birmingham B6 7EY

Tel: 0121 356 1141

sales@rblimited.co.uk

www.rightonblackburns.co.uk

UK distributor of Polycasa Crylux Cast & Crylux extruded sheet acrylic. Available in a wide range of clear, opals, colours and special finishes. Also stocked: Alucobest aluminium composite sheet, Marlon solid polycarbonate, PET-G, SAN, polystyrene, hygienic cladding, rigid PVC and fixing accessories, sign post systems, aluminium sheet and extrusions.

### TELEGAN PRESSED PRODUCTS LTD.

South Strand, Lawford,  
Manningtree, Essex CO11 1UP

Tel: 01206 803 580

sales@teleganpressedproducts.com

www.teleganpressedproducts.com

Leading manufacturer of plate pressed PVC sheet offering equivalents to Darvic, Pacton and Cobex under our trade name TELBEX. We also manufacture VYNALAST engraving laminate. A comprehensive range of photoluminescent boards and self adhesive vinyl is available in PSPA class B and Class C to order.

## POINT OF SALE FITTINGS

### UK POS

Horsfield Way, Bredbury Park  
Industrial Estate, Stockport SK6  
2TD

Tel: 0161 431 4400/4411

www.ukpos.com

UK Point of Sale leading manufacturers of display products Acrylic & PVC poster holders, Sign Supports, Aluminium Snap Frames, A Boards, Poster cases & Point of sale fittings.

## POSTER HOLDERS / CASES

### BROWNING'S LTD

157 English Street, Hull, HU3 2BT

Tel: 01482 380900

sales@browningstld.co.uk

www.browningstld.co.uk

Brownings is one of the largest, TRADE ONLY suppliers of signage products. We manufacture poster frames, menu cases, slimlocks, signtrim, troughlights, acrylic-faced light boxes, flexfaced signage and now our new Texsign frames for internal use. The two versions of poster holders, the slimlock and menu case are both thin, lockable and hinged. They are available in any practical size and colour.

### SIGNSCAPE AND SIGNCONEX LTD

Pear Tree Works, Bath Road, Upper  
Langford, Bristol BS40 5DJ

Tel: 01934 852 888

sales@signscape.co.uk

www.signscape.co.uk

Serving the Sign Trade for over 40 years, we are a leading manufacturer of notice boards, modular sign systems & information displays. Our Avenue poster case provides high quality yet affordable, external poster display in a variety of sizes.

### UK POS

Horsfield Way, Bredbury Park  
Industrial Estate, Stockport SK6  
2TD

Tel: 0161 431 4400/4411

www.ukpos.com

UK Point of Sale leading manufacturers of display products Acrylic & PVC poster holders, Sign Supports, Aluminium Snap Frames, A Boards, Poster cases & Point of sale fittings.

## PRINT/POSTER FRAMES

### BROWNING'S LTD

157 English Street, Hull, HU3 2BT

Tel: 01482 380900

sales@browningstld.co.uk

www.browningstld.co.uk

Brownings is one of the largest, TRADE ONLY suppliers of signage products in the UK. We manufacture poster frames, menu cases, slimlocks, signtrim, troughlights, acrylic-faced light boxes, flexfaced signage and now our new Texsign frames for internal use. The aluminium frame are available in two widths, 25mm and 38mm, can be supplied to your specification and can even be illuminated.

## UK POS

Horsfield Way, Bredbury Park  
Industrial Estate, Stockport SK6  
2TD

Tel: 0161 431 4400/4411

www.ukpos.com

UK Point of Sale leading manufacturers of display products Acrylic & PVC poster holders, Sign Supports, Aluminium Snap Frames, A Boards, Poster cases & Point of sale fittings.

## PROJECT MANAGEMENT SERVICES

### PERFECTIONIST PROJECTS LTD

Dittons Road, Polegate, BN26 6HY

Tel: 01323 489361

www.perfectionistprojects.co.uk

We produce Schematic Drawings showing all significant components, parts, and their interconnections by means of standard symbols. Schematic diagrams for a project may be used for preparing preliminary cost estimates. We are very experienced in processing Advertising Consent Planning Applications for all sectors including Retail High Street, Petroleum and Corporate, all at very competitive rates.

## PROJECTING SIGNS

### IRON DESIGN

37A Douglas Rd., Poole, BH12 2AU

Tel: 01202 463573

enquiries@ironsigns.com

www.ironsigns.com

Leading trade suppliers of high quality traditional and contemporary projecting signs and brackets, offering a large range of brackets, panels and lights off the shelf, as well as a comprehensive bespoke service. Competitive prices and next day service. Please visit our website or phone for a brochure.

## REFLECTIVE VINYL/TAPES

### ATC LTD

Unit 3C Buckley Road Industrial  
Estate, 2 Buckley Road, Rochdale,  
Lancashire OL12 9EF

Tel: 01706 633043

sales@apptape.co.uk

www.apptape.co.uk

Suppliers of Micro prismatic reflective tapes (3m, Avery, Reflexite) and glass bead reflective vinyl for use on emergency vehicles (police cars & chapter 8 legislation etc) also HGV markings as per EC 104. We stock Conspicuity tape manufactured by Reflexite and Avery which are some of the most reflective materials available on the market. Chapter 8 chevron kits also available.

### SIGN TRADE SUPPLIES LTD

Britannia House, Granville Road,  
Maidstone, Kent ME14 2BJ

Tel: 01622 689 410

orders@signtradesupplies.co.uk

www.signtradesupplies.co.uk

Supplying a variety of sign making supplies nationwide including aluminium signs posts, post clips, fixings, vinyl and tools. We have a large UK stock of Image Perfect vinyl, sign fixings and aluminium extrusions ready for same day despatch. We also provide trade manufacturing service including diamond edge polished acrylic, flat cut acrylic lettering, sign trays and more.

## ROUTER CUTTERS/ PLOTTER BLADES

### ATA ENGINEERING PROCESSES

ATA House, Unit B, Boundry Way,  
Hemel Hempstead, Herts HP2 7SS  
Tel: 01442 264411

sales@ataeng.com  
www.ataeng.com

Extensive range of high quality solid carbide,  
PCD, carbide tipped and HSS cutters  
manufactured by ONSRUD CUTTER offer  
routing solutions for most types of material.

### EDWARD MATHIAS & CO

PO BOX 121, Frodsham, Cheshire,  
WA6 1AA

Tel: 01928 739 799

info@edwardmathias.com  
www.edwardmathias.com

Specialist manufacturers/suppliers of  
tungsten carbide plotter blades and router  
cutters. We don't just sell blades, we are the  
UK's leading manufacturer. Note - we have no  
connection with any other company who sell  
or re-sharpen blades.

## SCREEN PRINTING

### DARTFORD ENGRAVING & SCREENPRINTING LTD

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