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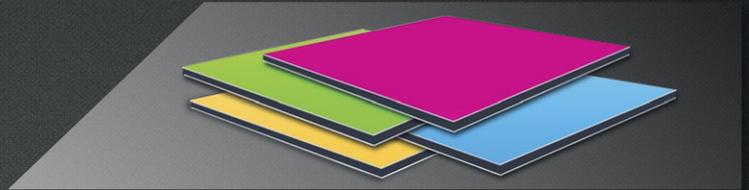
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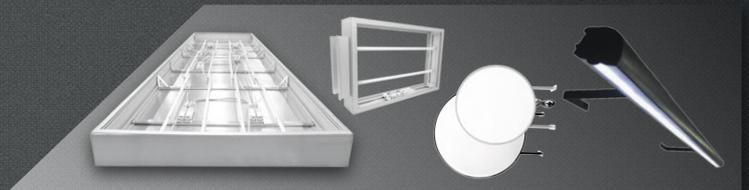
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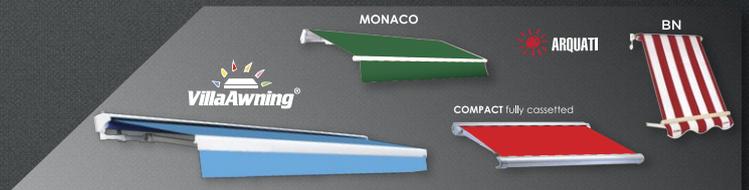
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The Agfa Anapurna H1650i LED hybrid prints all your signs and displays, whether on roll or rigids, up to 1.65 m wide and at a speed up to 63 m<sup>2</sup>/hr. Its environment- and cost-friendly LED-curing lamps enable you to take on a wide range of materials, including heat-sensitive ones. It incorporates Agfa's unique Thin Ink Layer Technology for the widest colour gamut at the lowest ink consumption, and is powered by Agfa's dedicated Asanti workflow software.

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**AGFA** 

# WELCOME Page

## Thinking outside the box

Here we are again – the final issue of yet another eventful year in the sign and display industry. We continue to see stand-out developments in technology, incredible innovation and creativity – all as a result of teams of dedicated people around the country determined to make an impression and help their customers achieve the same.

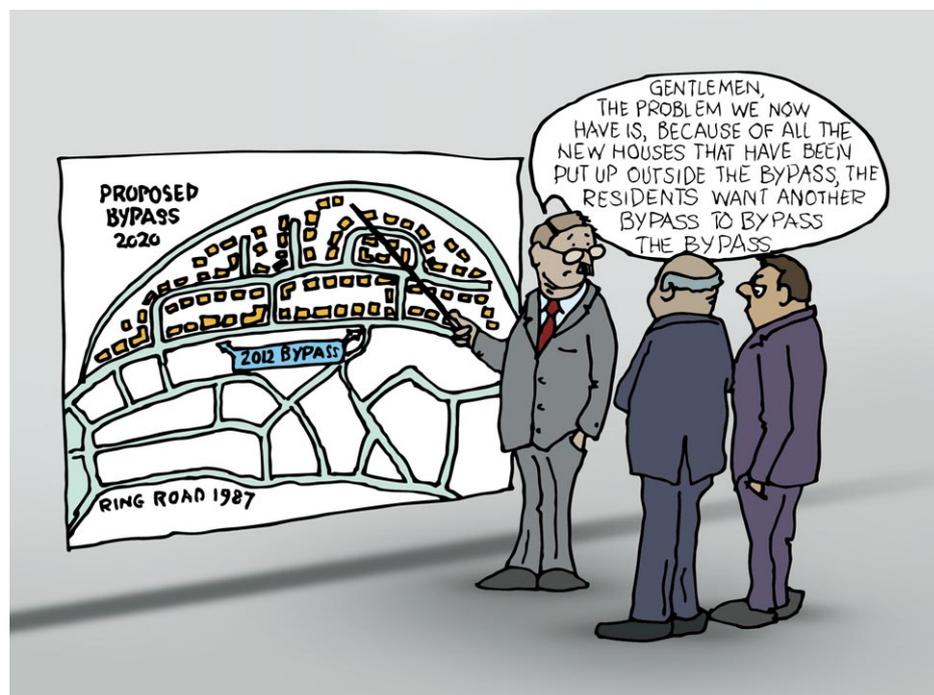
Sign making is one of the oldest crafts that still uses traditional methods together with high tech equipment. This issue's main feature well demonstrates this fusion with respect to hand-crafted built-up letter making alongside the latest automated letter bending machinery to produce stunning effects in signage that enhance brand awareness to make an enduring impression.

Our industry comment discusses how signmakers should think outside the box and use their expertise, technology and machinery to explore additional revenue streams and get their name and brand out to a wider audience.

A taster for next year's Sign & Digital UK show in April promises interesting new features, demonstrations and workshops – a date for your diary.

In our first issue of the new year we feature chemical etching, vitreous enamel signs and anodised aluminium printing – long-established forms of signage – with the latest methods and applications. Our regular reports on products and applications and the latest sign and display projects will keep you up to date with who is doing what and the stories behind the news.

Sue Deane  
Editor



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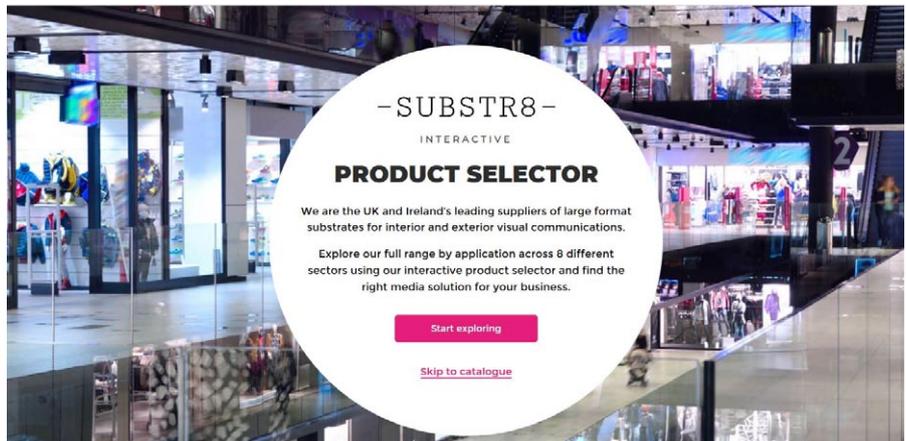
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## Interactive online product selector simplifies choosing substrates

Antalis has launched an interactive online product selector tool that simplifies choosing and selecting large format substrates for interior and exterior projects.

SUBSTR8 allows customers, specifiers or end users to navigate Antalis's range of roll and rigid media by 'application' across eight different creative sectors using 'hotspots' to guide them to discover more about which products are suitable for a particular application including retail instore/exteriors, office, automotive, exhibition and hospitality.

This intuitive tool allows users to further filter and narrow results based on product 'attributes' such as self-adhesive type, environmental credentials and ink compatibility. Once users have found suitable substrates they can add them to their 'favourites' list and access the full product range and technical information. For more in-depth data, advice about a particular job or to request samples, users



can click on the handy links. Head of channel for visual communications Chris Green comments:

"SUBSTR8 has been fully tested with users and feedback is extremely positive

as users embrace the easy 'step by step' selection process. Its introduction is a great example of how Antalis works with customers and end users".

[www.antalis-substr8.co.uk](http://www.antalis-substr8.co.uk)

## Anti-scratch, silver backed block out media for pop-up banners

This anti-scratch, silver backed block out banner from InkTec is designed to meet the increasing popularity in the market for grey or silver backed banner products.

Designed as the perfect option for pop-up banners and media, this new product is exceeding customer requirements in terms of both material and print quality. Featuring a premium quality, bright white matt surface, it has 100% block out alongside the anti-scratch silver backing, resulting in outstanding print reproduction delivering photo quality results.

The material itself is a very stable, rigid polyester/polypropylene construction which is ideal for printing with aqueous, dye, pigment and latex inks; for added reassurance it is HP Latex Certified. It is available in widths of 36" (914mm) and 42" (1067mm), 20 metre length rolls.

Peter Davidson, head of IP consumables sales says: "Recognising the increasing demand in the market for grey or silver backed banners, we are introducing our new media. We wanted to ensure that the



*Featuring a premium quality, bright white matt surface, this media has 100% block out alongside the anti-scratch silver backing.*

replacement for our current POP banner continued to meet our exacting demands in terms of quality both visually and the base material it was made from. We are delighted to now be able to launch this

product, which is already proving extremely popular with a large number of our customers."

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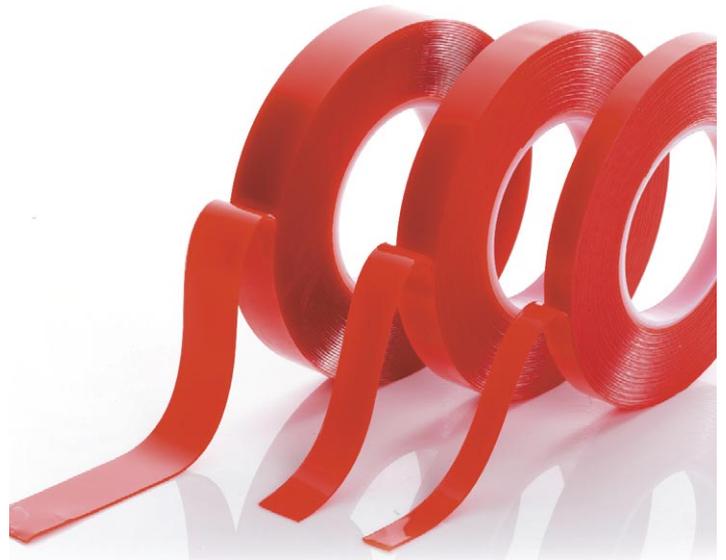


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## Gloss film for colour change vehicle wraps

Spandex is launching the “next generation” wrap film from 3M that introduces updated technology for colour change vehicle wraps. Building on the success of the 3M Wrap Film Series 1080 range, the 2080 gloss films have a protective layer positioned over the surface (gloss only) to reduce the potential for imperfections during transportation and installation.

Removed easily after application to reveal “a perfect finish”, installers and vehicle owners are reassured that any scratches made to the protective layer will not transfer to the film itself. The film’s conformability has been improved so that it can be easily applied around curves and in channels, resulting in a sleeker appearance and ease of installation.

All colours of the new film have an increased durability of up to eight years depending on the region where the material is used. This gives the user one product with one warranty, no matter their choice of colour or finish. The 3M Wrap Film Series 2080 comprises 40 colours



including standard, premium and flip choices. The range includes 3M’s Controltac and Comply adhesive technology, which reduces application time by improving repositionability and slideability of the film; all are available now at a 152.4cm width.

General manager Leon Watson says: “The 3M Wrap Film Series 2080 is the result of

extensive research and design inspired by customer feedback. By adding new protective layers, improving conformability and increasing the durability of the original Wrap Film Series 1080, 3M has delivered a quality wrap range, designed for users. We’re looking forward to seeing the response it will generate from customers.”

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

## Clear dry-erase lamination film is durable and scratch-resistant

Kernow Coatings’ has launched KernowJet KlearWipe, a clear PVC-free lamination film for dry-erase applications and the video on the company’s website demonstrates the “incredible” results.

Its thickness (75µm) and stiffness makes it easier to apply than other dry-erase laminates, says Kernow. KlearWipe is extremely durable and scratch-resistant, making it easy to handle and ensuring that it won’t be damaged during lamination.

Highly transparent and with a special permanent adhesive, it will laminate over all kind of prints, even UV-cured inks and is available in widths up to 1524mm.

Benefits for end users include the fact that the film has been tested with a wide range of water-based, solvent and acetone-based markers, KernowJet KlearWipe passes all the tests. In addition, no pearling of the inks when writing and “perfect erasability” leaves no ink residue

even after a long delay. Even permanent markers can be cleaned off with alcohol without damaging the film, says Kernow.

Dry erase surfaces start to look tatty once they have been scratched and the ink imbeds inside the scratch. Due to its incredible scratch-resistance KernowJet KlearWipe is “the perfect solution for long term dry-erase surfaces”.

Kernow says this product is perfect for whiteboard and blackboard lamination for use in schools, offices, meeting rooms, convention centres and for creating restaurant wall display menus, calendars, production and warehouse planning.

The material is compliant with Standards: EN71-3 which are necessary for the safety of toys and is therefore suitable for children’s furniture, toys and whiteboards.

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



# The all **new** Ecolux Mini



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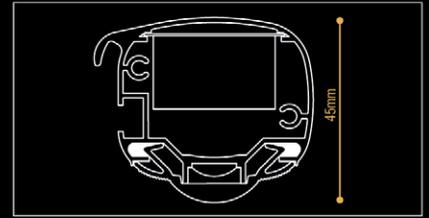
The best things are always simple, and our latest LED sign light is jam-packed full of new ideas and innovative design.



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.



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.



The new **sleek** and stylish 45mm casing is the slimmest available in the UK with integral drivers.



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



**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.



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## Satin metallic colours added to wrapping film portfolio

Spandex has introduced six new satin metallic colours from Avery Dennison's Supreme Wrapping Film (SWF) range of colour change wrapping vinyls.

Including satin metallic: wave blue, hope green, stunning orange, cool teal, lively green and blissful purple - all are available now from Spandex at a 152.4cm width.

These new colours include Avery Dennison's Easy Apply RS technology, which enable up to 25% application time savings, repositionability and slide ability of the film.

General manager Leon Watson comments: "The new colours from Avery Dennison are extremely appealing and we're sure our customers will enjoy having them to further increase their offering to clients."

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



Colours include satin metallic: wave blue, hope green, stunning orange, cool teal, lively green and blissful purple.

## Wide format, high productivity inkjet printers

Mutoh Europe has released two 64" (162 cm) wide high quality and high productivity piezo drop-on-demand roll fed sign and display inkjet printers. The XpertJet printers feature a 7-colour CMYK, Lc, Lm, Lk ink set, multiple product enhancements and innovative features. XpertJet 1641SR is a single head 4-colour model. while XpertJet 1682SR is a dual staggered head

model for 2x4 colour or 7-colour setup. These XpertJet printers have been specifically developed for high quality cost-effective volume production of sign and display graphics, for long term outdoor applications as well as durable prints for indoor use. Applications include posters, backlit signs, wall coverings, point-of-sale displays, fine art reproduction prints, vehicle graphics, window graphics and self-adhesive stickers.

"Mutoh has been a pioneer in sign and display printers since 2004," says

managing director Kenji Yasuhara.

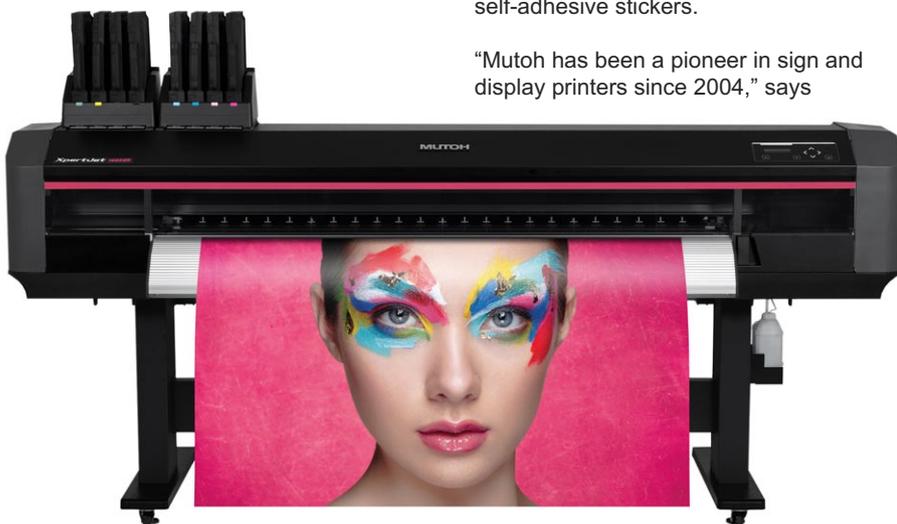
"XpertJet is already our fifth generation and successor of our multi-awarded ValueJet 1624X and ValueJet 1638X printers. The XPJ-1641SR and XPJ-1682SR offer an excellent balance between the capacity for speed production print work and top quality print work.

"The additional Lc, Lm and Lk colours of our new MS-41 series ink set will bring extra quality to businesses focusing on highest quality prints with smooth skin tones and gradients for short viewing distances.

"In line with our company-wide commitment to create continuous improvement and innovation, the robustly built XpertJet printers feature proven and industry leading Mutoh technology.

"They are packed with multiple product enhancements to provide sign professionals unrivalled print quality, the highest degree of user comfort and reliability for many years to come."

[www.mutoh.eu](http://www.mutoh.eu)



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## Clear, two-part adhesive for built-up letters

Innova Solutions is supplying a clear two-part adhesive that combines flexibility with "unrivalled bond performance and clarity". Developed in conjunction with Signfab, the product has delivered benefits in terms of increased production times and final product performance and aesthetics.

Designed primarily for the manufacture of acrylic faced rimless and rim and groove letters, NovaWeld SignFix 5 bonds securely to both the stainless or aluminium return and acrylic face. After the 4-5 minute fixture time, the letter is securely bonded with the flexibility required to allow for the differential expansion that occurs between the acrylic and metal return when the letter is installed.

Historically, adhesives have not been able to combine flexibility with both clarity and speed of cure. This has led to various methods and products being used for this application which has resulted in costly failures when letters have been subjected to external conditions. While not the most effective of joint designs, NovaWeld SignFix 5 compensates for this by exhibiting tremendous bond strength to both substrates, coupled with flexibility to bond dissimilar materials, while aesthetically the clear cured product gives no shadow



line when the letter is illuminated. The product has gone through a rigorous testing procedure both in lab conditions and external weather cycles for a period of 12 months, where it was subjected to extremes of temperature, humidity and moisture.

Innova says NovaWeld SignFix 5 is currently being used by the industry's leading letter manufacturers and is available in both 50ml and 400ml cartridge sizes.

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

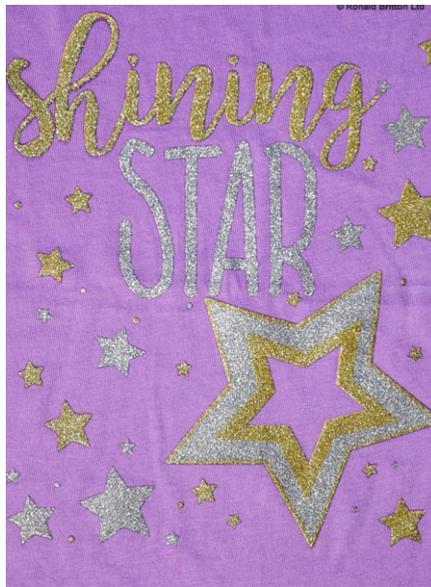
## Eco-friendly glitter product for coating and garment decoration

Ronald Britton has announced the launch of a new version of Deco Bioglitter Sparkle designed for the fashion, coatings and printing sector, to give an additional 33% coverage compared to the previous one, offering a third saving for buyers. The range offers improved heat resistance on the previous edition.

Brand director Stephen Cotton says: "The new edition of Deco has all the benefits of the previous version so it's based on plant material and will degrade naturally in the environment, making it the world's most eco-friendly glitter for the coatings market."

"Deco Bioglitter Sparkle had excellent resistance qualities for use in applications like printing and garment decoration but as part of the redevelopment process, we've improved further on this heat resistance again, making the product ideal for the coatings market."

Picking up several industry awards, the Bioglitter product range has been



developed to tackle microplastic pollution caused by traditional plastic based glitter. Based on plant material cellulose, it will

decompose in the natural environment, unlike products such as PLA, Cellulose Acetate (both compostable plastics) which need to go through a commercial composting process to break down. Several high street retailers have now moved to using Bioglitter based products, as part of a strategy to cut plastic waste in the environment.

This product has received international renown with awards including top prize in the green and sustainable category at the PHCI Fountain Awards 2019 and Gold for innovation at the world's biggest cosmetic raw material event in-cosmetics global. Bioglitter SPARKLE has been independently tested by OWS Belgium to ISO14851 Fresh Water biodegradability and proven to biodegrade extremely well in the natural environment, with 87% biodegradation achieved in 28 days, only 3% off meeting the performance criteria required for certification.

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

## PVC-free décor films "bring walls to life"

Wall art and décor applications are set to be taken to a whole new level, says Avery Dennison, with two additions to its MPI 8000 Wall Film Series, now known as the Interior Design Collection.

Available from William Smith, MPI 8826 Wall Film Textile and MPI 8520 Wall Film Paper present the opportunity for "inspired creative solutions" to bring walls to life in retail, commercial, exhibition and interior decoration environments.

MPI 8826 is a flexible white textile film with lustre canvas finish, bringing a new dimension to graphic prints.

This film comes with a high-tack adhesive that enables application to a wide variety of surfaces including low energy substrates and is printable with Eco/solvent, latex and UV technology. An eco-friendly white matt finish paper with a soft silky touch, MPI 8520 is said to be ideal for premium and luxury wall art. It comes with a permanent adhesive and is printable with latex and UV technology.

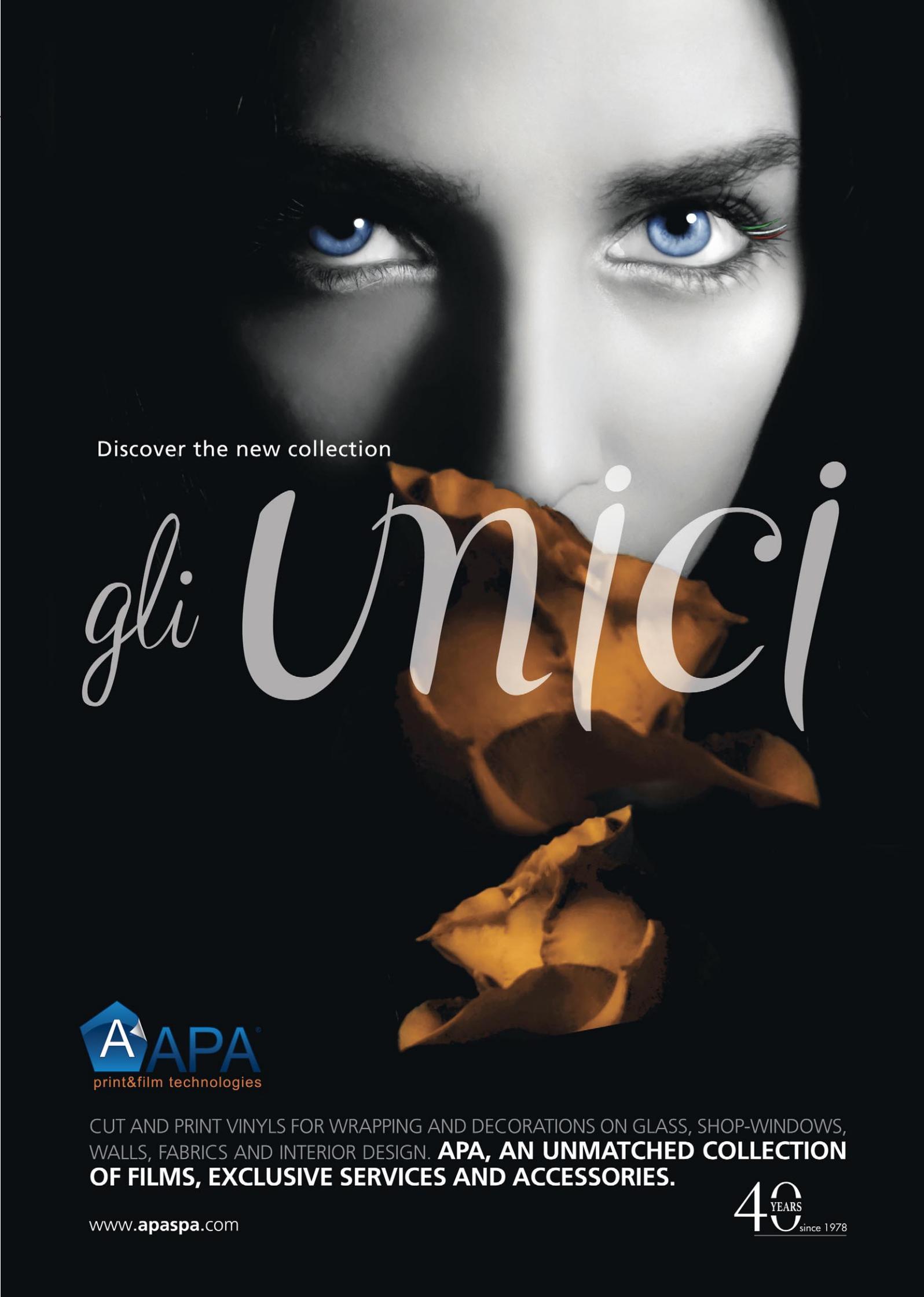


Both products are PVC-free and offer quick, easy and clean installation with no primer needed. MPI 8520 Wall Film Paper is FSC certified.

"These additions to the range broaden the

creative choices available to customers, making it easy for them to diversify further into the fast growing décor market," says head of marketing Chris Bradley.

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## Printer/cutter offers versatile, on demand output

Roland DG Corporation has launched the VersaUV LEC2-300 30" (762 mm) UV printer/cutter which is said to deliver exceptional print quality for bespoke POS and signage.

President Kohei Tanabe says: "The newly released LEC2-300 builds on the best feature of the series, making it both easy and economical to produce high value added prints in quantities as few as one. Features include a newly developed printhead and LED lamps and updated functions for an even higher level of print quality in a compact and stylish design."

The LEC2-300's UV ink is designed to adhere to the surface of a material, making printing possible on a diverse range of media from adhesive sheets for stickers and labels to PET or PVC-based substrates and even textiles, thin paper, canvas and tarpaulin. In addition to CMYK ink, the LEC2-300 can be used with clear (gloss) and white ink configurations for exceptional, premium value printing, including full colour prints with matt or gloss finishes, simulated embossing and other custom-textured effects.

The contour cutting function has been further enhanced to cut out printed graphics to any shape with exceptional precision. The automated process eliminates the need for platemaking and



*In addition to CMYK ink, the LEC2-300 can be used with clear (gloss) and white ink configurations for exceptional, premium value printing.*

die punching for trimming adhesive decals, labels and stickers. Combined with the Multiple Print function and a precision media take-up system, high volume jobs can be printed efficiently with unattended operation. The newly developed printhead and LED lamps deliver exceptionally rich and vibrant print quality. This combination

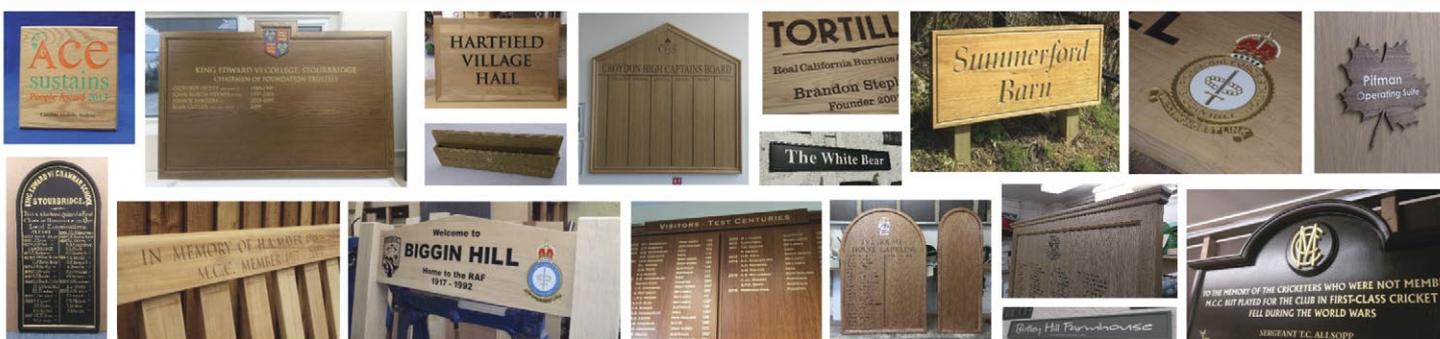
"delivers stunning print finishes from small, detailed text and graphics to elaborately textured patterns and gradations". White ink density has been increased by up to 40% of the previous model to provide much higher opacity and coverage.

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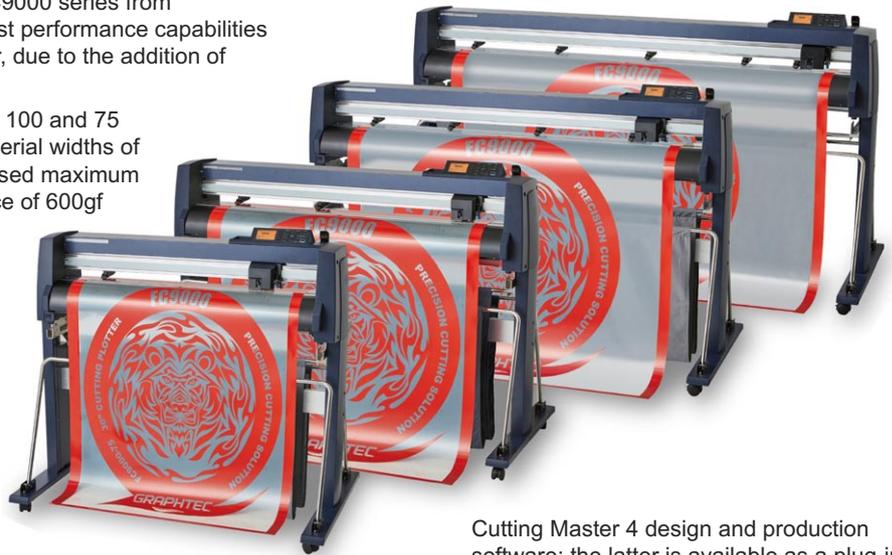


## Cutting plotter handles media of varying thicknesses

Replacing FC8600 cutting plotters, the latest FC9000 series from Graphtec GB is said to provide one of the highest performance capabilities currently available for this class of cutting plotter, due to the addition of production-enhancing features.

The FC9000 is available in four sizes (160, 140, 100 and 75 models) that will respectively accommodate material widths of 1,626, 1,372, 1,067 and 762mm. With an increased maximum cutting speed of 1,485mm/sec and a cutting force of 600gf (5.88N), the FC9000 is considered to have set a fresh benchmark for high end cutting involving a much wider range of sign and graphics and digital printing media in varying thicknesses.

A key attribute is the optional media take-up spool that will increase the efficiency of roll-to-roll work undertaken by digital print specialists. For example, using the integrated barcode function, it is possible to print up to 50 metres of material overnight and then cut the following morning, thereby creating a seamless workflow capability. A further attribute is the auto panning function which prevents skewing of longer lengths of material to be cut by automatically splitting the job into smaller sections for guaranteed precise sequential cutting.



The FC9000 incorporates the latest Version 8 of Graphtec's proprietary ARMS (Advanced Registration Mark Sensing) system for radically enhanced media tracking and cutting accuracy. It is supplied as standard with the latest Graphtec Pro Studio or optional Pro Studio Plus and

Cutting Master 4 design and production software; the latter is available as a plug-in option for integration with other software programs such as Adobe Illustrator and CorelDRAW. The machine meets all relevant CE safety standards and comes with a three-year performance warranty.

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

## Plug-and-play compact laser engraving system



WeLase laser markers can be up and running out of the box.

The compact high speed WeLase range of laser markers from Gravograph has been officially launched in the UK. Derived from the company's line of industrial lasers, the WeLase is manufactured to the same high engineering standards.

A true plug and play laser, there is no need for assembly or complicated setting as it works straight out of the box via wired (USB) or wireless (Wi-Fi hotspot) connection. The dedicated ABC lasering software supplied with the machine runs on tablets, laptops and PCs.

The simplified lasering software has been designed to enable anyone to learn how to laser in less than an hour. In addition, features and accessories further facilitate lasering: automatic height adjustment (enter the item height and the laser will focus to the correct distance autonomously), positioning preview (a red

LED pointer will project the marking directly onto the items.

A sleek and elegant design and small 460x560mm footprint make it suitable for workshop use. The laser sources fitted in the WeLase are the same as those used on the company's F-series range of lasers, typically used on production lines operating 24/7. WeLase is a maximum security Class 1 laser product, manufactured in Europe for use in any environment including public spaces: opening the door during the marking process causes the laser to instantly pause. Whatever the application the WeLase can be specified with the relevant laser source type: fibre for metal marking, engraving and cutting, hybrid for precious metals, CO2 for organic materials and plastics and Green for materials requiring minimum heat when lasered. Texts, serial numbers, foreign alphabets, symbol, logos, drawings, handwriting and even photos can be permanently lasered with incredible speed and graphic quality. Free demonstrations of the system are taking place across the UK until December.

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

## Fluorescent ink, dye-sublimation, textile printing solution

Epson has announced two 64-inch dye-sublimation printers, the SureColor SC-F9400H and the SC-F9400, developed primarily for fast, high volume printing for clothing, textiles and soft signage and other printed merchandise.

The SC-F9400H offers businesses the option of printing with two genuine fluorescent ink solutions (yellow and pink), which brings bright, vivid colours to the production of sportswear, workwear and fashion items. The SC-F9400 series is an evolution of Epson print technology and provides enhanced quality with “even greater productivity and reliability”.

Product manager Neil Greenlough says: “Once again our focus has been on the further development of the range and the introduction of a genuine fluorescent solution that adds new value.

“This is a first for us and we believe that we’ve made fluorescent inks that are superior in terms of brightness and colour density. We have also introduced a wider choice of EMX files, an instructional/ maintenance video (launched from a QR



*The SC-F9400H offers the option of printing with two fluorescent ink solutions (yellow and pink), which brings vivid colours to the production of clothing items.*

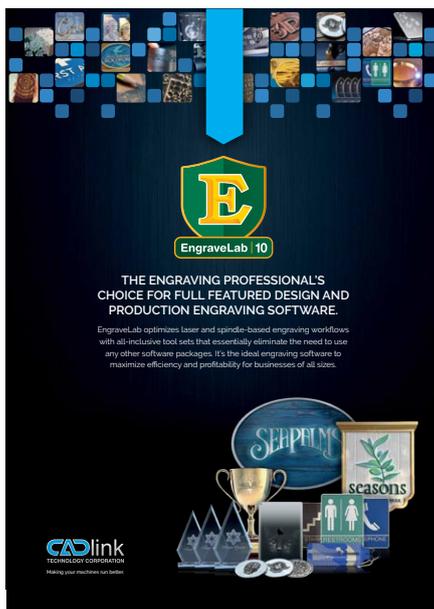
code) and additional features that make set-up, usage and maintenance as simple as possible. We’re sure that the SC-F9400 range will have a positive effect on the bottom line of many businesses.”

In addition to the enhanced usability of this F-Series range, Epson has retained many

of the key functions from previous models. Epson says It is these tried and tested technologies that allow the company to drive innovation and increase opportunities for businesses. Both printers will be available January 2020.

[www.epson.eu](http://www.epson.eu)

## Laser and spindle-based engraving software



*EngraveLab supports virtually all widely used engravers.*

EngraveLab Version 10 is CADlink Technology Corporation’s latest release of its widely used laser and spindle-based engraving software.

The software includes application specific design and production tools “not found in standard design applications or other limited functionality engraving software products” that may be included alongside certain engraving devices. EngraveLab supports virtually all widely used engravers and is bundled alongside some of the industry’s leading engraving devices.

This latest version of the software includes a host of new features for both laser (including support of Leetro and Ruida controller based devices) as well as spindle engravers.

Leading the way are the new 3D previewer with simplified conversion tools of 2D images into 3D output as well as an .STL import filter; automated photo conversion

to finely detailed laser output on a large variety of materials, advanced Braille production tools that include all of the latest text to Braille conversion libraries.

EngraveLab v10 includes material and labour-saving features that optimise production and reduce material costs.

In particular, tools such as advanced shape nesting, optimised fill routines and extended barcode support, provide an “almost immediate return on investment”.

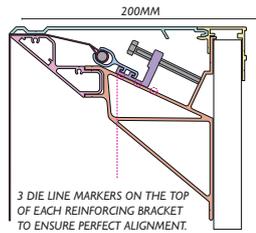
Worldwide language support using Unicode standards as well as translated software and resource materials enable engravers around the globe to benefit from this powerful software.

Additional product information and a free fully functional trial version is available on the CADlink website.

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

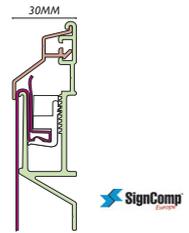
# FLEX FACE SIGN BOX SOLUTIONS

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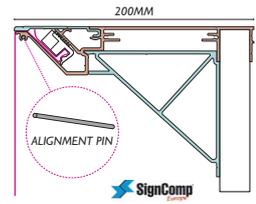
## NOVAFLEX

A robust single sided, full perimeter tensioning system for 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.



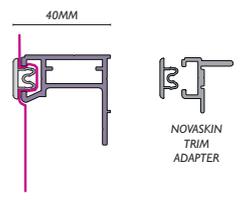
## SIGNCOMP FRAME

Non-illuminated framing system for flex face signage which utilises the industry familiar black clip tensioning procedure. Perfect for low cost flex face signage and for use with the NovaTube overhead lighting system.



## 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.



## 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.



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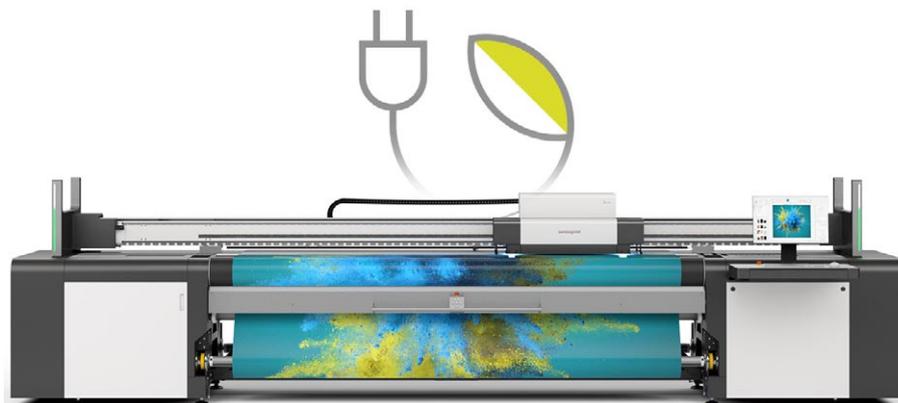
## Flatbed roll to roll printer meets ISO energy standard

Following in the footsteps of the swissQprint Nyala flatbed printer, the new Karibu roll to roll printer is the latest model to undergo tests as specified by the ISO 20690 standard, with outstanding results.

Confirmation comes from experts at Fogra who say the new Karibu roll to roll printer from swissQprint is highly energy efficient. When they tested it as specified by the ISO 20690:2018 standard, Karibu scored even higher than the Nyala flatbed printer. swissQprint had this model put through its paces last year, when it was given the rating: "outstanding energy efficiency".

The ISO 20690 standard specifies methods for determining the energy consumption of digital printers and thus allows comparison of their operating costs and ecological footprints.

In order to model realistic system usage, the standardised measurement includes four different printer statuses. To ensure



*Karibu in its most productive 'speed' printing mode applies 71 square metres to the substrate per kilowatt hour.*

that results are consistent, the experts used three different printing modes several times with a standardised print file. For example, Karibu in its most productive

'speed' printing mode applies 71 square metres to the substrate per kilowatt hour.

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

## 3D transparent LCD displays with high brightness

Crystal Display Systems (CDS) has launched 3D transparent LCD displays. These usually need a high amount of backlight which in many cases has posed issues for many customers in design and project applications.

However, these are eliminated with this opportunity for backlighting using a high brightness LCD display at the rear. CDS' ClearVue3DP technology is constructed

with a high brightness LCD display which has matched polarisers to the transparent LCD so that they work as a pair, creating a 3D effect with a whole new transparent experience.

This technology is available in landscape or portrait solutions with no need for additional software or glass. Until now it has been sold in component format (two panels and two driver kits) for the

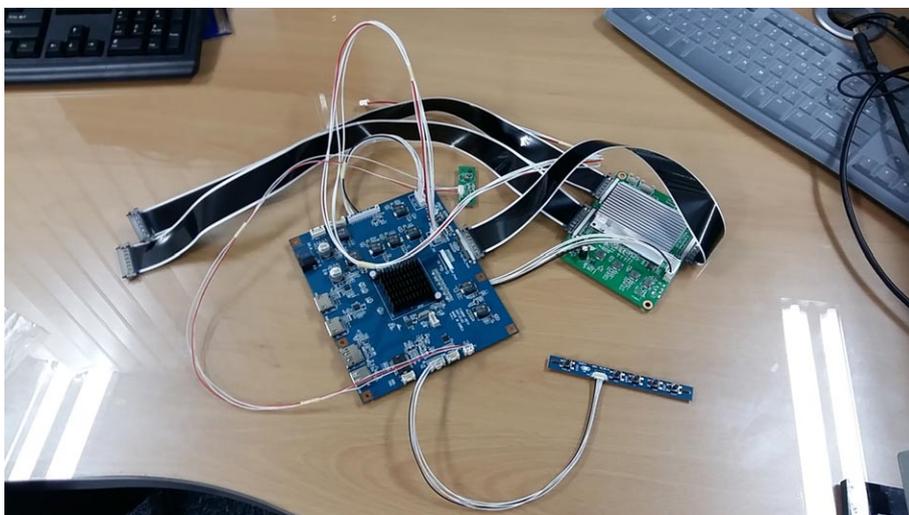
customers to design and integrate their side. However, after customer feedback and intensive R&D from CDS they are now offering two new options for the 3DP.

An open framed solution whereby the high brightness LCD panel is built into an open framed solution and the transparent LCD panel has the AD board built into the aluminium frame, eases integration for customers. The two panels can be built into a showcase to deliver an end solution to consumers where they have a plug and play turnkey solution with no design or integration needed.

The 3DP displays are manufactured within a box much like the range of transparent LCD ClearVue showcases. These feature extra LED lighting between the two panels and inputs for the two panels to allow content to be updated easily.

Essentially, the high brightness LCD will act as a 'mood screen' for a basic video which should be predominantly white. Keeping it simple is key as if the back screen has too much going on it will affect the screen in front.

[www.crystal-display.com](http://www.crystal-display.com)





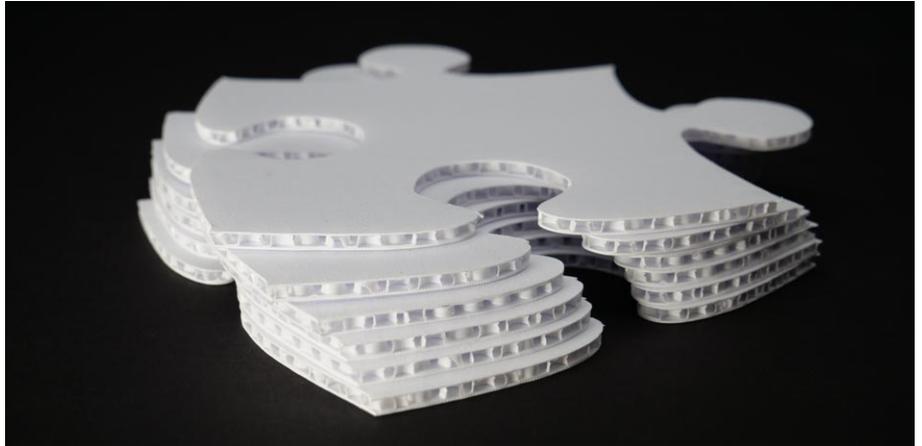
## Sustainable extruded polypropylene sheet

Antalis has introduced the latest addition to its sustainable product range. Manufactured by IPB, the Triaprint extruded polypropylene sheet consists of three layers with a cell structured core and smooth top and bottom layer, both corona treated, making it "ideal for screen and UV digital printing".

Triaprint has a smooth top and bottom surface and is an environmentally friendly alternative to the use of foam PVC, foam board and other rigid plastics as its construction is 100% polypropylene, in turn making it 100% recyclable.

The smooth top surface is more akin to the type of finish seen on solid polypropylene including Antalis' Priplak range.

Triaprint is available in 1220 x 2440mm and 1500 x 3050mm sheet sizes with thickness options of 3.4mm and 5.7mm; stocked in white, further colours available made to order. Key characteristics include its smooth printable surface, high compression strength, high rigidity and low weight. Made with a fire-retardant additive, possible applications of Triaprint include POS and display, indoor and outdoor



*Triaprint has a smooth top and bottom surface and is an environmentally friendly alternative to the use of foam PVC, foam board and other rigid plastics*

signage, exhibitions and events and both internal and external hoardings.

Visual communications product manager Paul Neale comments: "Antalis is committed to the continued development of sustainable material alternatives for its customers. Following the recent launch of

Xanita Board, a lightweight, robust and sustainable fibre-board manufactured from fibres recovered from recycled cardboard boxes, Triaprint now joins the portfolio. Further products are planned for launch later this year."

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

## Dye sublimation paper delivers superior textures for soft signage

Sappi's Transjet Drive dye sublimation paper is said to deliver superior textures with 100% replication for a wide range of aesthetic and functional applications

including sublimating home textiles, fashion, sportswear, soft signage and hard substrates, with impressive results.

Transjet offers consistent high quality results, fast ink drying and short transfer time, designed for both low and high speed production. The Transjet Drive sublimation paper is primarily tailored to industrial printers with a glue-belt system.

The exceptionally smooth reverse side along with fast ink drying on the printing side increases runnability and efficiency during the production process.

For large format digital printing used in indoor and outdoor posters, Sappi offers inkjet papers Swiss Matt, DT-Plot and Scrolljet. These are compatible with many types of inks including water-based, solvent and HP Latex and offers high colour brilliance and homogeneity.

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



## Software boosts colour saturation

Electronics for Imaging (EFI) has announced important advancements in its latest version of Fiery Color Profiler Suite. It delivers “out-of-the-box print quality and colour improvements” in new Fiery digital front ends (DFEs) and new controls within Fiery Color Profiler Suite tune colour to meet customer preferences including features to intelligently boost colour and adjust shadow detail levels.

Fiery Edge profiles are available for selected new cut-sheet digital printers and many wide- and superwide-format printers that use EFI Fiery DFEs. Users benefit from an increased array of advanced user controls. For example, the ability to control or manually select a black point that best matches the intent of the item being printed. This maximises the dynamic range of a print when the darkest printable colour is not a neutral black. Users can control shadow detail levels to best represent a product’s or subject’s characteristics. Fiery Edge gives print professionals the ability to define colour-to-black transitions for reduced image peppering, graininess and smoother transitions.



*Users benefit from an increased array of advanced user controls.*

“Fiery Edge colour profiling technology brings all the excellent results and controls to my Fiery cut-sheet printer customers that I’ve been relying on for several years,” says Rob Cawston, owner of Colour Consultancy in Nottingham, England. “The smoothness of blends and extra image detail are the things that stood out

as benefits just by using the default profiles and settings. I particularly like the new rendering intent option. No more lengthy profile tweaking for customers that want more pop. Having all this control for toner now is very welcome.”

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

## Flat-bed die-cutter brings cutting in-house

Vivid Laminating Technologies unveiled its Velo Blade flat-bed cutter at The Print Show 2019. This digital die-cutter enables printers to extend the services they offer, create unique and intricate products and remove the need for outsourcing.

Sales director Richard Marlow says: “Traditionally, the cost of bringing quality cutting in-house hasn’t been a feasible option for most print shops. Collaborating with our customers to understand what would make their businesses better and lives easier, it became clear that less outsourcing and expanding their customer base, was the way to go. Velo Blade opens up completely new markets in packaging and POS, giving print suppliers the platform they need to further their offering and grow the business.”

The automated Velo Blade is a production line within itself. The combination of cutting, creasing and perforating in a single pass with auto-feed, conveyor belt and collection tray, allows for completely unattended production. First, load 100mm of up to 1.5mm or 1200gsm stock. Gantry mounted vacuum clamps operate alongside air separation jets, feeding your



*Velo Blade opens up completely new markets in packaging and POS*

stock into production. From here, an Industrial CCD Registration Camera picks out registration marks to align the cutting head. Then the accurate and durable tungsten steel blade carries out the cutting process, while the high quality vacuum-grip conveyor belt holds stock securely in place. Once all cutting, creasing and perforating is complete, the stock is automatically stacked in the collection tray.

The Velo Blade caters to a variety of sizes ranging between 210mm x 297mm to

600mm x 400mm and stock including paper, plastic board, PVC board, PU, cardboard, rubber sheet or marking film. It cuts up to 1000mm/s with SRA3 taking 15-45 seconds per sheet, depending on the complexity of the cut or crease.

[www.vivid-online.com](http://www.vivid-online.com)

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## Digital screen provides alternative to static lighting

**FASTSIGNS International provides digital signage solutions from basic static and animated graphics on digital displays to data connected solutions that can be managed from the cloud anywhere in the world. Director of digital & exterior technology Wayne Rasor explains the importance of this technology.**

FASTSIGNS provides for indoor and outdoor solutions to help businesses communicate their messages in the most appropriate way.

With regard to lighting, digital signage has an additional component during the daytime so that it is bright enough to be seen in broad sunlight. Night-time is easy because signs have to be illuminated to be seen. When lit correctly, digital signage can have a powerful advantage over static signage, giving it the ability to change content very quickly or even dynamically based on external events. It can also be controlled from anywhere using the cloud."

Dynamic and animated content are some of the main advantages of digital signs because as humans, our brains search out for movement and we gravitate to it.

Our current society has been trained to expect animated and interactive content via the smartphone industry; it is what we are used to. We believe that digital signage will see growth across all market

"When lit correctly, digital signage can have a powerful advantage over static, with its ability to change content very quickly or even dynamically"

sectors. There is not an industry that we have found that is not adopting digital signage in at least one way and usually many more. Retail, quick serve restaurants and healthcare are probably the top three but right behind them are offices, manufacturing, live music/sporting events, government, education - the list goes on.

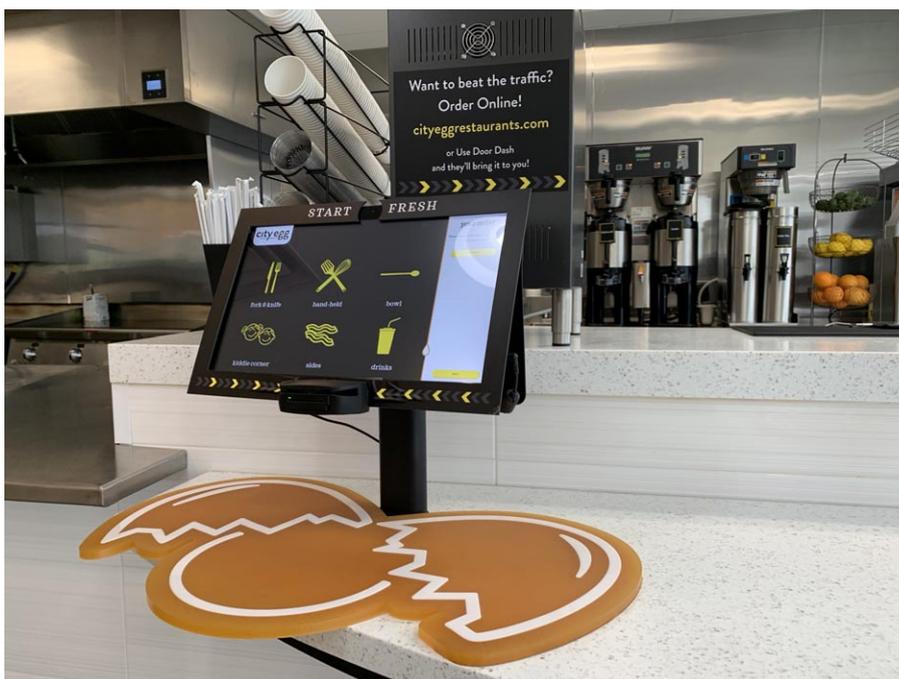
As a network we are working in all of the markets. The key benefits we provide are

having a local presence in each market and establishing a relationship with each customer to bring comprehensive solutions customised to each customer and industry. We mix static and digital signage to provide a solution that is unmatched in the marketplace.

Over the past decade, I have focused on digital signage for outdoor LED message boards including content creation and management for national digital networks.

I have brought my many years of experience in the cut vinyl and silk screening industry, to bear in large electrical signage projects including neon, channel letters and pylon signs. Most recently, we have focused on interior digital signage including interactive, contextual and responsive technologies, holding training courses on digital signage and content creation for franchisees all over the world and providing technology support for the 700+ centers globally.

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



Interactive digital screens are a regular sight at fast food restaurants.



A FASTSIGNS digital screen installation at ViViHoldings in Boca Raton.

## Marketing trade sign companies by thinking outside the box

**In these days of blanket marketing and saturation advertising, being a sign manufacturer supplying exclusively to the trade can be tough. Mark Atkinson of Sygnet Group explains their approach.**

How does a company that's not allowed to advertise its products, advertise its products? In these days of blanket marketing and saturation advertising, being a sign manufacturer supplying exclusively to the trade can be tough.

Signage companies will often begin using a particular manufacturer only once they've received a watertight NDS (non-disclosure statement) which prohibits the manufacturer from taking credit for the job and renders them invisible to the end-user or recipient of the sign.

This is all very well but it doesn't allow the manufacturer much scope to market their very often excellent creations. To illustrate this, imagine a world in which companies like McDonalds weren't allowed to advertise their products on huge, colourful hoardings, TV and the internet, and you might begin to appreciate the predicament trade only signage companies face when trying to spread the word about theirs while simultaneously adhering to a client confidentiality agreement.

One way Sygnet Group (formerly Sygnet Signs) from Leicester has discovered, is to rebrand and begin using their expertise and machinery to manufacture products other than signs. The Group has recently expanded its repertoire to create stylish, bespoke products for use in domestic settings including stainless steel and glass

cantilevered staircases and balustrades, as well as pedestrian gates for gardens.

A further example of 'blue sky thinking' is for a business to put itself forward for an industry award which highlights the company's positive aspects as opposed to the products it manufactures.

While this may seem like a contrived and artificial method of self-promotion, it's often the only way a business like Sygnet Group is able to let the wider world know that it exists.

If you think nominating your company for an award will be easy, think again because the process is often long and arduous, taking up to six months and involving much hoop-jumping and soul-baring. For example, the East Midlands Chamber's Manufacturer of the Year Award, Sygnet's latest accolade, demanded an in-depth explanation of how the company incorporates quality and environmental management systems ISO 9001 and ISO 14001 into its daily running.

These certifications are already difficult to achieve as they're audited annually. However, when they're essential to an award entry, you begin to see just how



complex the process can be. However, this is just one aspect of the process, with others including 10-year growth forecasts and in-depth financial analyses.

Nothing comes easy in today's business environment and some companies have to go the extra mile to achieve the exposure they need but thinking differently pays dividends and Sygnet Group plans to continue doing so in order to succeed.

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

“Another example of ‘blue sky thinking’ is for a business to put itself forward for an industry award which highlights the company's positive aspects as opposed to the products it manufacture”



*Sygnet Group is using its expertise and machinery to manufacture products other than signs.*

# TENSIONING SYSTEMS

## Speed and simplicity: substrate tensioning system Springflex

Springflex is a unique patented system designed by Stuart Bickley, MD at KSUK Ltd. A one-time user of tedious tension systems, Stuart discovered that when working at cold temperatures, PVC becomes firm and difficult to handle, while the fitting of loose items can be time wasting and tedious and give a variance to pressures, leaving creases or marks that have to be worked at to remove.

Stuart devised Springflex while working in St Petersburg, Russia. He realised how difficult the available system was to prepare and install and time-consuming in having to go to various positions around the sign frame and then round again and again before fitting the lids.

Flying back from Russia, he came up with the idea for Springflex and registered it and it has proven to be the preferred method of installation by many leading sign companies. Tested in the Middle East on contracts and around the world in extreme temperatures and weather conditions, all reported great success even in 20 degrees.

When a sign engineer understands the product there is no going back both to the older systems or back to site for adjustments. Further exciting developments over the years resulted in a



*Springflex has proven to be the preferred method of installation by many leading sign companies.*

Springflex 90mm deep product for outdoor use with pre-fitted lids, LED illumination and intelligent light control, completing the range of products 265, 190, 140 and 90 being the lightest and used in fascia depth runs and display panels.

Taking the carbon issue on board, the company made the decision to provide high quality 10-year guaranteed LED with best L/Watt performance together with

intelligent light output, making Springflex the most cost effective product on the market today.

Quicker to install, no loose items to fit or to be charged for; just fit and go Intelligent lighting. Follow us on twitter or our website to understand the benefits to light output.

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2m x 2.4m	<b>£220.00</b>	<b>£68.00</b> per side
1m x 2.4m	<b>£180.00</b>	<b>£41.00</b> per side

## FREESTANDING TFS LIGHTBOX

FAB//160

Size	Frame Only	Graphics
3m x 2.4m	<b>£599.00</b>	<b>£120.00</b> per side
2m x 2.4m	<b>£455.00</b>	<b>£80.00</b> per side
1m x 2.4m	<b>£410.00</b>	<b>£50.00</b> per side



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3mm	Foamex	£15.00
4mm	Correx	£12.00

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Type	Cost (Sq m)
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## Why invest in automatic sign fabrication equipment?

**3D channel letters are becoming increasingly popular; the market is moving fast, with a growing demand from the advertising sector. As more and more companies manufacture 3D letters automatically using bending machines, letters become cheaper and more accessible, writes Karolina Mieszko of Automatic Letter Bender.**

Investing in 3D channel letter benders allows you to reduce production time because machines allow you to set up the most difficult job with regard to calculating size, cutting and bending, enabling the whole order to be finished much faster.

An equally important issue is the accuracy and repeatability of the operations performed by machines. Material feed error is only (0,1mm), which means you can prepare even the most complicated signs with complete confidence in the results. Companies investing in 3D channel letter bending machine increase production capacity and are in a position to compete successfully. We offer a complete package so the price of our machines includes training; unskilled production workers can quickly become proficient and work much more efficiently than experienced manual workers.

As a team of experienced professionals in the field of 3D letter bending, we deliver the best solutions for companies

producing channel letters, custom signs and advertising coffer. Automatic Letter Bender products is a line of fully automated CNC letter bending machines for channel letters, logos, signs, symbols and coffer of unusual shapes.

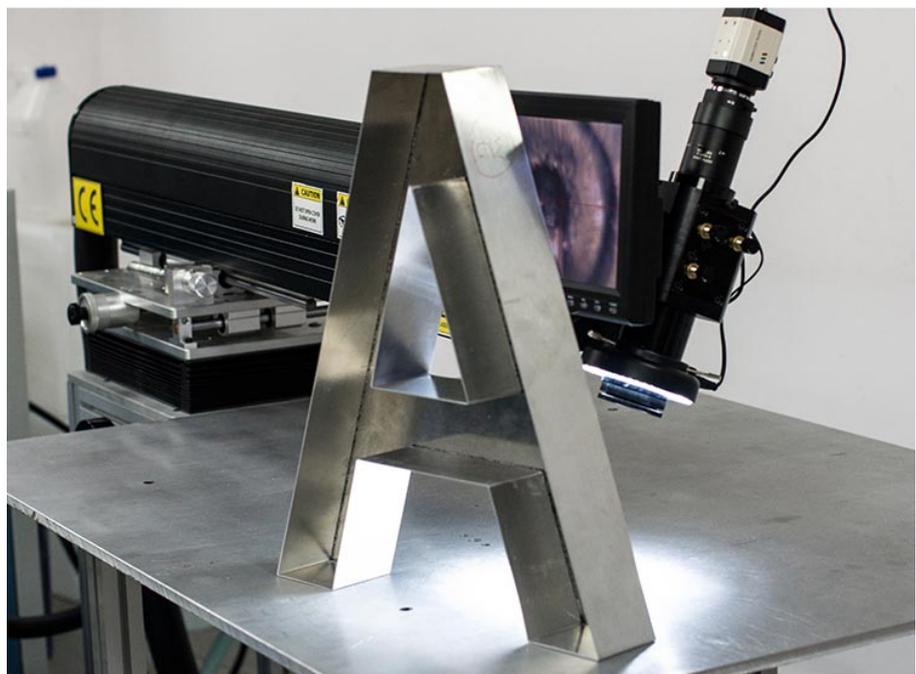
Each machine we offer is specialised to work with a group of tapes used in the construction of advertising signs. With a goal to provide the best solutions for bending channel letters, our portfolio includes a high precision bender that works with thin, flat or flanged aluminium stripes, patented software for length-feedback control and exceptional precision of feeding, bending and notching.

Further machines are designed for bending channel letters from flat strips of stainless steel, mild steel, aluminium and copper. Excellent mechanical properties make them perfect for bending small characters just a few centimetres high and where precision above average is required. For example, the Flanger works



*Machines are designed for bending channel letters from flat strips of stainless steel, mild steel, aluminium and copper.*

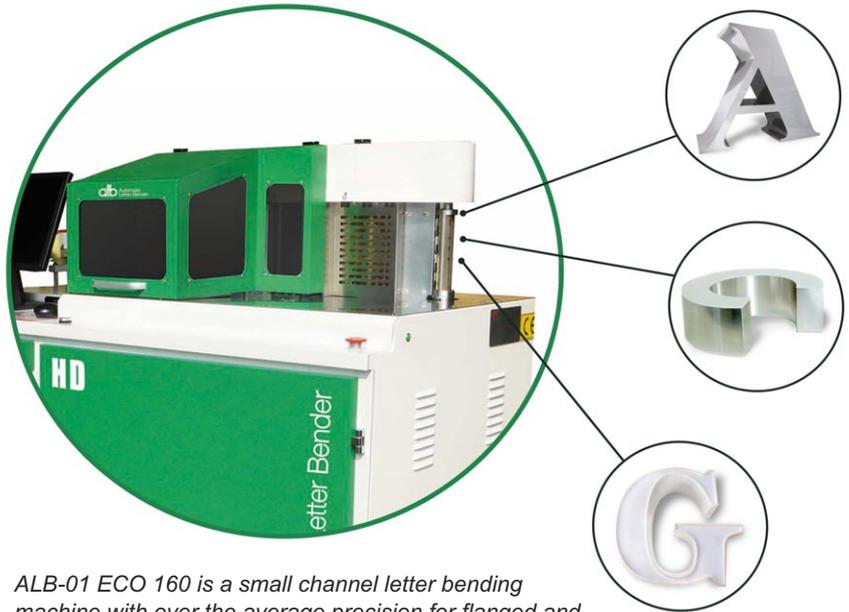
“The process of bending channel letters by hand is time-consuming, requires specialist equipment and trained personnel. When you factor in the potential for human error, it is the most expensive form of advertising in the market”



*The ALB-LW Speed Master is an innovative, fast and highly precise laser welder specialised in welding channel letters using a laser beam.*



“Unskilled production workers can quickly become proficient and work more efficiently than experienced manual operatives”



*ALB-01 ECO 160 is a small channel letter bending machine with over the average precision for flanged and flat tapes for thickness of 0.4-1.0 mm width 20-160 mm.*

perfectly with flat tapes in two options: standard-flat strip and Flanger, which allows the bending of flat tape while producing a 'teeth' effect. This permits you to quickly and easily connect the side of the letter with the back.

Automatic bending machines from our Green series include a single-sided system of cutting intended to flat aluminium tapes of a thickness 0,3-1,0 mm, maximum width 133 mm and to profiles RCP, TGP, DFT, SUPER LETTERS; and a double-sided system of cutting intended to flat aluminium tapes and stainless steel tapes of a thickness 0,3-1,0 mm i maximum width 160 mm. The HD-02 HYBRID 160 bends iron and galvanised tapes and is ideal for profiles DFT, TGP, RCP, SUPER LETTERS.

ALB - 03 SSA 180 PLUS is the best choice for bending channel letters from flat strips of material including stainless steel, mild steel, aluminium and copper. This is the solution for companies who want to make letters form aluminium steel 2 mm



*Automatic Letter Bender offers a line of fully automated CNC letter bending machines for channel letters.*

thickness and stainless steel up to 1 mm. It works perfectly when bending small characters a few centimetres high and where precision of above average is required. This 3D letter bending machine is perfectly suited for creating letters with small angles, radius and even the most complexed font. It handles tape thicknesses from 0.4-2,0 mm width 20-180 mm. Minimal bending radius is 7 mm and minimum distance between the inner and outer bend is 4.5 mm.

### Laser welding

Laser welder units offer outstanding quality and a wide range of adjustment in three axes: X, Y and Z. This allows you to weld letters fast and easy and gives smooth control while running.

In addition, an innovative laser welder with a table and handgun is highly precise and specialises in welding channel letters using a laser beam; while a machine for hand welding using an optical head welding in a gun form has a long fibre optic cable connecting a source of laser light with the head allows easy and quick welding even the most complicated structures in the hard-to-reach places.

The ALB-LW Speed Master is a fast and highly precise laser welder specialised in welding channel letters using a laser beam. It welds thin steel tapes with letter faces made of mild steel, galvanised steel and stainless steel. Joints made using this device are durable and precise. Our unit is distinguished by a very wide range of working area adjustment in the 3 axes X,

Y, Z. It is the only device that has a precisely adjustable table. This allows easy and fast welding of letters and smooth adjustment during operation. High energy laser beam, fast work and the possibility of spot welding of materials can increase efficiency 8-10 times compared to standard welding processes.

### Low operating costs

Very low operating costs require only distilled water to provide cooling (closed circuit) and electricity. Joints made using this device are durable and precise and most importantly, sometimes hard to find parts could be welded only by laser beam.

Until now, the process of bending channel letters was completely manual and difficult, requiring specialised equipment and trained personnel and time-consuming.

When you factor in the potential for human error, handmade channel letters are the most expensive form of advertising in the market. Automatic bending machines for block letters allow decreased production time. Bending one character takes about 3.5 minutes; within an hour you can bend as many as 17.

Since channel letters can be made from different materials, we offer the best benders specialised to work with certain types of tapes. Our machines are devices for professionals who want to reduce production time and beat the competition with high precision of letters production.

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

## Best of both worlds: automatic machines and traditional techniques

**Built-up letters are becoming increasingly popular in retail and business environments and are now a staple of the signage industry, writes Kyle Giles, marketing executive at William Smith Group 1832, which uses channel letter bending machines and traditional hand finishing methods.**

Walk up and down any high street, shopping centre or business park and you'll find built-up letters representing a businesses' brand and I can see why this is the case. The customisation options available are almost endless and extremely striking and distinctive.

Letters can be illuminated in several different ways; the common types we come across are halo illumination, face illumination and rim and return. For those that simply want a 3D letter without lighting, then the project becomes even simpler.

Face illuminated letters offer maximum visual impact because of the surface area which is providing illumination; they're sleek, stylish and very clean, especially when the acrylic is backed up with 'cool white' LEDs.

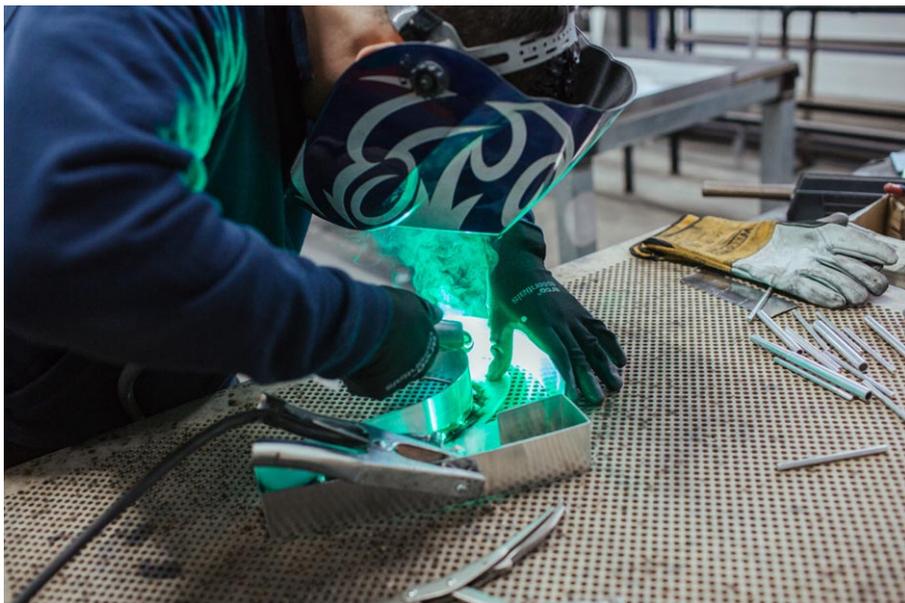
Rim and return letters offer a similar perspective, however, a rim runs around the perimeter of the sign, providing strength and rigidity to protect the integrity of the finished sign.

If a signmaker isn't offering built-up letters as part of their portfolio then I would say they are missing a trick. Most of the enquires I receive daily are for this type of signage. We've seen a 526% year on year growth in their sales since significant investment in the Smith brand back in 2016.

### Increasing capacity

We manufacture built-up letters in-house with a mix of traditional and modern techniques. In 2016 we invested in an Accubend channel letter bending machine. With leading edge technology, it reduces downtime and therefore increases capacity but most importantly, it ensures for a high quality product. The machine is capable of handling aluminium up to 1.2mm thick.

Once the extrusion has been through the letter bender, we revert to traditional methods. High tech equipment is great but it can only take you so far.



*Lead solder is used to tack weld or fully seal the return to the reverse face of the letter depending on the requirement or size of the face.*



*Using a pegboard, our fabricators then manipulate the materials so they form the correct font, spot weld the face or apply the LEDs and acrylic.*

“High tech equipment is great but it can only take you so far. Using a good old pegboard, our fabricators then manipulate the materials so they form the correct font, spot weld the face or apply the LEDs and acrylic”



*Face illuminated letters offer maximum visual impact because of the surface area which is providing illumination.*

Using a good old pegboard, our fabricators then manipulate the materials so they form the correct font, spot weld the face or apply the LEDs and acrylic; I make it sound so simple but trust me, it's a real skill. Note, always use a reputable LED supplier as the last thing you want is a lighting failure in your letters. High quality LEDs are energy efficient, produce fewer CO2 emissions and cost less to run in the long term when compared to inferior/ alternative light sources.

So what are the pros of using machinery to fabricate built-up letters? I've mentioned a couple above but I'll go into more detail.

The first tangible benefit is reduced downtime. An automated letter bender can churn out a single letter in a matter of minutes. If you were to complete the whole process by hand then it could take upwards of an hour depending on the letter, which would reduce operational capacity. This in turn, means a faster return on investment: reduced labour and increased capacity equals more revenue for your business. Think of it as more profit per letter.

Quality of the end product is important: machines are designed for efficiency; they don't often fail. They make life easier and do things in a consistent manner. You can guarantee with a channel letter bender, every letter churned out is with ultimate precision and will be to the same standard, due to tolerance levels in place there's little room for error.

To be completely honest, I find it difficult to

speaking about the negatives related to channel letter benders; the machines are designed to improve processes but as with most things, nothing is perfect, they will always have their fans and their haters.

Once upon a time letter making was a thriving skill and art with everything done by hand with a personal touch.

As time has gone on technologies have become more advanced and machines are so sophisticated that it's more financially beneficial to invest in them.

It would be quite easy for a business to go backward by not getting on board.

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



*Each letter is washed and cleaned before being sent to powder coat or assembly for polishing if using a polished or brushed finish.*

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## A different way to make built-up letters using your CNC router

The first impression of a property or organisation is the external signs and built-up letters can offer high visibility and create a lasting impression. Liam Hodson, tooling & machine consultant, LKH Tools, outlines options for manufacturing the customer's vision using the latest materials.

Typically, the traditional built-up letter method would require steel being formed around the letter and welded or soldered to the face. This has proven to be both labour and time intensive as in most cases, it would be done by hand (requiring a certain skill set). Smaller letters are usually very intricate to form around and, lower case letters for example, require a high degree of expertise to achieve the desired and consistent results.

### Solid material

Automated machines are available for forming the return but still require the skills for welding (or soldering) everything together. In some cases, the alternative is to manufacture the sign out of solid material. This removes the need for welding or soldering and hand fabrication but allows for further creativity in the materials and colour choices used.

CNC router tooling provides the option for solid materials of up to 20mm to 30mm thick to be routed but still retain a small radius in the corners. For larger letters, a thickness of up to 40mm can be achieved with a 3mm internal radius and 55mm with a 5mm internal radius. The introduction of balanced 12mm, 22mm, 32mm, 42mm and 55mm lengths of cut routing tools from Crown Norge, available in the UK from LKH precision tools, has given sign makers even more flexibility to meet the customers' demands.

A popular material choice for this is acrylic; however, aluminium, brass, PVC foams and sign foams can be used. Less dense materials will allow for a lighter sign but may not be as durable. Dry routing of up to 30mm aluminium and brass is now possible with the MP Superior tool and 55mm in PVC foams with the MP tool range. This allows for a wider choice of multiple colours or material combinations to achieve even greater impact.

One advantage of cutting the letter complete with the same machine is the accuracy achieved. The face and return will match perfectly, which is particularly important if the intention is to backlight the



Above and below: letters built up using multiple material combination, the opal acrylic allowing the light to flow (courtesy Lumenuatica Ltd).



letter. This eliminates light leakage as the precision cut parts will fit without gaps. It is delivered partly by the machine, but also the consistency and precision of the tools available in our range.

Routed channels and holes drilled for mounting LEDs can be introduced to provide positional accuracy. This will give a balanced and more consistent light in the desired areas.

“Although a high standard of finish can be achieved with standard acrylic tools, the final polishing will allow light to pass through more evenly, with greater clarity”



Combination of materials including acrylic, brass and traditional built up steel sides (courtesy Mixit Signs Ltd).

### Profiled edge

For a shaped or profiled edge, the negative radius or the round and route tool provides a simple way of putting a shaped edge to the letter. This would not easily be possible on a traditional steel faced welded letter and the end result gives a moulded or formed effect to the edges.

The V-shaped 3D tools in the range can be used to create a bevel to the letter. This can be combined with the correct software to create a carved effect and sharpen the internal corners due to the tool having a point at the very tip.

Not limited to wood and sign foam, these tools can be used on acrylic and PVC

materials. Clear acrylics can be used to good affect when light is to be projected from the side or behind the letter.

With the correct machine, the cut edge can be additionally polished with the MCD, CVD and PCD ranges of finishing tools. This operation (which is completed on the CNC router after the initial cut), can allow for free flowing of light through the edges. Although a high standard of finish can be achieved with the standard acrylic tools, the final polishing pass will allow light to pass through more evenly, with greater

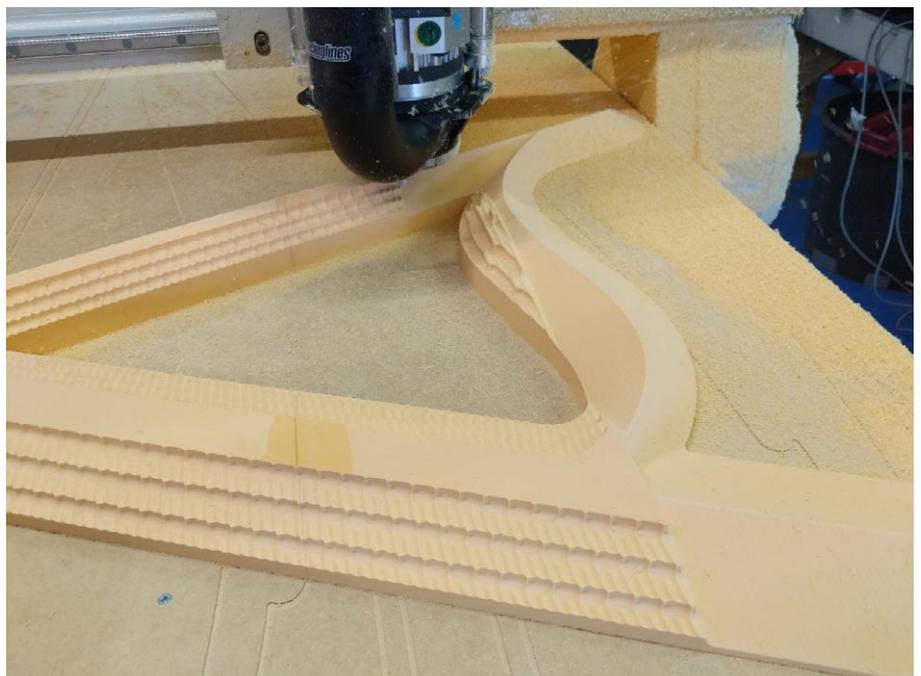
clarity. Polishing this way prevents heat cracking or edge deterioration as often seen on laser cut or flame polishing methods. This is very important, for example, if the acrylics are to be glued or built up in sections.

As the edges are perfectly vertical, it will make for a much easier and more accurate final assembly. In addition, a chamfered edge can be polished using the 45 degree MCD polishing tool.

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



Above and right: a solid 3D carved letter made using a ball nose and shaped tools (courtesy Lumenuatica Ltd).



## Is the writing on the wall for traditional channel letters?

Channel or built-up letters continue to help brands stand out from the crowd and attract passing custom and until fairly recently was predominantly a manual process. Automatic machinery is gaining ground but Massivit 3D suggests you consider adopting large format 3D printing technology.

Let's face it, whether you're selling a product or service, it has never been harder to attract the attention of your target audience than it is today. However, one marketing medium that remains hard to ignore is channel letters (also referred to as built-up letters). Using this colourful, illuminated signage to display your brand name or logo on the side of a building, in a shopping mall or at a trade show, continues to help brands stand out from the crowd and attract passing custom. Of course, even this 'failsafe' marketing method needs to work harder to compete against an increasing amount of noise.

So how can brands up their game when it comes to ensuring signage is both more creative and effective? Traditional production methods using acrylic, aluminium sheets or thermoforming for these complex signs can only offer so

much. Basing the design on 2D graphics that are simply protruded by 90 degrees means that texture, design, angles and geometries are limited insofar as both conceptualisation and production capabilities. In addition, it's a time-consuming and predominantly manual process to create channel letters using these technologies, which in turn can often have a negative impact on costs and delivery times. As such, brands are understandably reluctant to increase the complexity of the design.

However, there is light at the end of the tunnel: large format 3D printing technology. By creating a design file in 3D from the start, all aspects of the letters can be included in the design process. This means the creative possibilities are practically limitless. Brands can incorporate unusual shapes, curves,

different angles, side textures and needn't produce just one letter at a time or letters at all for that matter.

Suddenly, the flexibility and freedom of the 3D printing process enables users to produce cursive words, a complete logo or graphic elements of the logo such as a teddy bear, globe or coffee cup. Products and mascots can be printed as separate, eye-catching signs or incorporated within the letters.

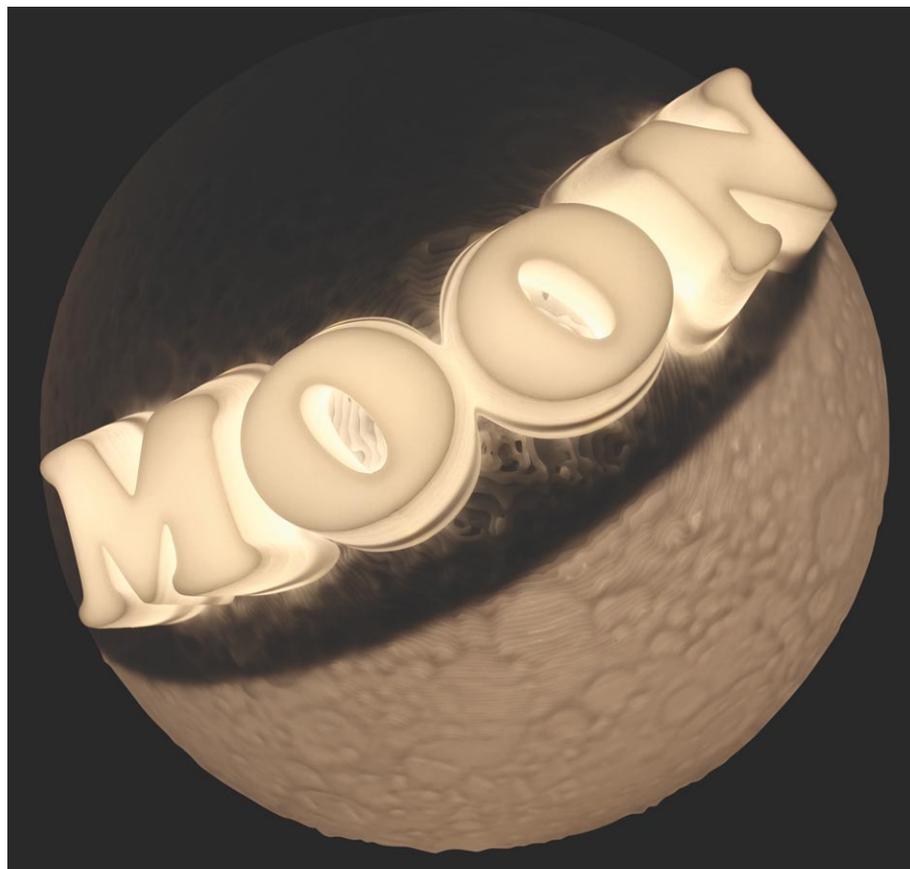
Compare this to the challenges sign makers using aluminium endure when creating letters with an empty cavity (such as 'O') and you start to see the tangible benefits this technology delivers such companies. Additional eye-catching features such as LED lighting or video mapping, can easily be added to 3D printed channel letters for even greater visual impact.

What's more, the speed at which these complicated, creative signs can be produced using 3D printing technology is significantly higher than using traditional methods. Aside from taking less time and reducing the manual intervention required, a solution like the Massivit 1800 Flagship 3D Printer, features dual printheads, enabling the production of two models simultaneously. This not only offers faster delivery times but reduces the cost to the end customer.

### Reducing errors

Reducing the manual elements of the production process reduces production errors. By amending the design on screen before sending it to the 3D printer, for example adjusting the curve of a letter, the user can eliminate any errors and avoid costly iterations altogether.

Looking at the clear advantages of 3D printing, it's no wonder that sign makers serving a wide range of different markets are choosing to expand their business offering and product portfolio by adding 3D printers to their production capabilities. Large format 3D printing solutions are the only technology on the market that enables sign makers to take this next step.



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# BUILT-UP LETTERS Feature

“Compare this to the challenges sign makers using aluminium face when creating letters with an empty cavity, and you start to see the tangible benefits that 3D technology delivers”

The Massivit 1800 Flagship 3D Printer and Massivit 1500 Exploration 3D Printer enable print providers to produce innovative, versatile 3D printed applications for the advertising, retailing, entertainment, events and exhibitions and interior design industries.

The most significant difference compared to many 3D printing solutions available today is that the Massivit 3D printers have been developed to ensure that there are far less constraints in terms of the size of printed output. Print providers and brands



can literally and creatively, think big insofar as sign and display production. As such, when it comes to breaking new ground with creative, cost-effective, large scale signage such as channel letters,

*Suddenly, the flexibility and freedom of the 3D printing process enables users to produce cursive words, a complete logo or graphic elements*

you can write off traditional production methods; large format 3D printing is clearly the way forward.

[www.massivit3d.com](http://www.massivit3d.com)

## Lightweight media a sustainable alternative for internal lettering



**Antalis is acutely aware of the growing demand for more sustainable rigid boards and plastics, says visual communications product manager Paul Neale. We are constantly working with suppliers toward the development of new products to meet this demand.**

Our Xanita board is an ideal example of a new substrate that meets current needs for internal applications; made from 100% post-consumer Kraft in the core, it is fully recyclable. Structurally lightweight yet robust, it offers a sustainable alternative for lettering and signage. Its lightweight strength even allows it to be used for built-up designs where the board can be laminated together; it can be shaped, allowing for curves and 3D designs and logos. In addition, it offers significant end-to-end cost and installation savings compared to materials including wood and MDF.

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



# Building the 'wow' factor with CNC bending machines

True built up letters are often made utilising a channel letter bender machine. When the machine has completed its activity, some finishing touches are added to your letters in order to give them a compelling effect. Adam Atashin, director of Clarity LED explains.

Demand for built-up letters continues to increase for several reasons. They are suitable for everything from retail to business signs. These 3D letters are intended to actually 'pop', giving a brand instant and powerful visual appeal.

For many years predominantly hand-crafted, the introduction of automatic channel letter benders has made built-up letters much more affordable without compromising on quality.

We invested in CNC machines about three years ago and quickly realised the benefits. Fabricating around 40 letters a day of various shapes and sizes from cutting through bending, welding and finishing, just would not be possible by hand. It would take an experienced worker at least half a day to produce 5-6 letters.

Factoring in labour costs and the time it takes to produce one letter, producing them on a machine is a no-brainer for us. In addition, you don't need any special expertise to learn how to operate the bender, whereas hand-crafted requires great skill and experience.



*Built-up letters are intended to actually 'pop', giving instant and powerful visual appeal.*

However, if you are only producing a small number and not planning to increase that amount any time soon, a large investment

in automatic equipment would not be a cost-effective solution.

Clearly, the different types of standing 3D letters you see outside large business premises have the most 'wow' factor – the largest we have made to date was 3 metres high - but you can achieve an eye-catching impact on a smaller budget if you explore the range of options available.

Using mostly stainless steel, aluminium and plastics, the artwork is entered and the material channel fed into the machine and then bent to shape. When the machine has completed its process, letters are laser welded and finishing touches added by hand to the letters in order to give them a compelling visual effect.

Without any doubt, signs comprising built-up letters including illuminated front/backlit signs can truly take advertising to the next stage. At Clarity LED, we are highly experienced in helping our customers - mainly large retail businesses - to get the best value for their investment.



*Built up letters as well as illuminated front/backlit signs can truly take a business' advertising to the next stage.*

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

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<b>3mm</b>	0.90	1.18	1.28	1.50	1.87	2.41	2.94	3.32	4.01	4.65	5.89	7.49	8.56	9.63	11.77	14.45	18.19	32.10	39.49	48.00
<b>5mm</b>	1.30	1.77	1.93	2.46	3.10	3.75	4.23	5.78	6.90	8.03	9.36	10.70	12.84	15.52	17.91	19.26	25.15	32.10	48.15	62.00
<b>10mm</b>	2.50	3.00	3.96	4.92	6.15	7.86	9.15	12.84	13.91	16.85	19.30	23.01	26.22	30.50	34.24	38.52	53.50	78.11	100.58	130.00

**FOAM PVC** (all available colours - 10mm & 19mm available in white only) £18 + VAT minimum charge + carriage

Height	75mm	100mm	125mm	150mm	175mm	200mm	225mm	250mm	275mm	300mm	350mm	400mm	450mm	500mm	550mm	600mm	700mm	800mm	900mm	1200mm
<b>3mm</b>	0.75	1.10	1.16	1.25	1.35	1.57	1.98	2.39	2.70	3.02	3.88	4.78	5.41	5.82	6.97	8.22	10.92	17.16	19.76	22.50
<b>5mm</b>	0.95	1.30	1.61	1.98	2.39	2.81	3.22	3.54	4.11	4.68	5.84	6.86	7.80	8.32	9.67	11.02	17.16	23.40	26.00	28.50
<b>10mm</b>	1.70	1.98	2.70	3.74	4.37	5.04	6.19	7.20	8.22	9.15	11.02	13.10	15.60	17.16	19.24	22.36	27.04	31.20	47.32	56.00
<b>19mm</b>	2.80	3.95	4.58	4.99	6.66	7.80	9.36	10.92	13.21	15.50	16.64	19.44	22.36	24.75	26.83	30.16	38.48	41.60	55.64	84.50

**3mm ALUMINIUM COMPOSITE** (Dibond, Alupanel) £18 + VAT minimum charge + carriage

Height	75mm	100mm	125mm	150mm	175mm	200mm	225mm	250mm	275mm	300mm	350mm	400mm	450mm	500mm	550mm	600mm	700mm	800mm	900mm	1200mm
<b>Colours</b>	1.65	2.12	2.65	3.13	3.71	4.77	5.83	6.99	8.06	8.94	10.88	12.19	14.84	16.96	18.02	21.73	25.97	37.10	48.76	66.78
<b>Mirror</b>	2.50	3.06	4.24	5.30	6.89	8.48	9.54	11.66	14.31	16.96	18.55	21.20	24.91	28.09	29.68	34.45	40.28	50.35	54.06	102.29
<b>Brushed</b>	1.85	2.33	2.97	3.71	4.24	5.19	6.25	7.42	9.01	10.60	12.19	13.78	16.96	18.55	20.67	23.32	30.74	41.34	51.94	71.55

**MILL FINISH ALUMINIUM** (Comes in its raw form ready for coating) £18 + VAT minimum charge + carriage

Height	50mm	75mm	100mm	125mm	150mm	175mm	200mm	225mm	250mm	275mm	300mm	375mm	425mm	500mm	600mm	700mm
<b>2mm</b>	2.88	4.03	4.56	6.10	6.89	7.69	8.69	10.02	11.13	12.24	13.52	16.80	19.93	28.51	38.16	49.50
<b>3mm</b>	3.20	4.45	5.09	6.25	7.21	8.06	9.01	10.28	11.50	13.25	14.79	18.97	22.68	31.69	44.52	66.00
<b>5mm</b>	3.50	4.88	5.83	7.00	7.84	9.01	10.18	11.87	13.67	15.74	17.76	22.95	26.50	36.84	51.94	71.60

**EXTERIOR MDF** £18 + VAT minimum charge + carriage

Height	50mm	75mm	100mm	125mm	150mm	175mm	200mm	225mm	250mm	275mm	300mm	375mm	425mm	500mm	600mm	700mm
<b>6mm</b>	0.58	1.10	1.72	1.92	2.84	2.99	3.47	4.15	4.78	5.67	7.25	10.24	11.81	13.39	15.70	47.78
<b>12mm</b>		1.90	2.23	3.11	4.46	5.15	5.99	6.74	8.03	10.08	11.03	12.81	15.23	18.48	20.74	62.95
<b>18mm</b>		2.70	3.42	4.46	5.57	6.77	8.35	9.35	11.60	13.39	15.96	18.27	22.31	24.05	31.45	94.11

Add 20% for locators and layout    Add 30% for 3mm letters    Add 30% for Cladded fascia drawing

**MOULDED ACRYLIC LETTERING** (Including locators and paper template) \*ADD 10% FOR SILVER & GOLD

Height	152mm	203mm	254mm	305mm	380mm	457mm	610mm
<b>Colours*</b>	6.14	9.22	14.50	15.85	21.50	25.48	44.75

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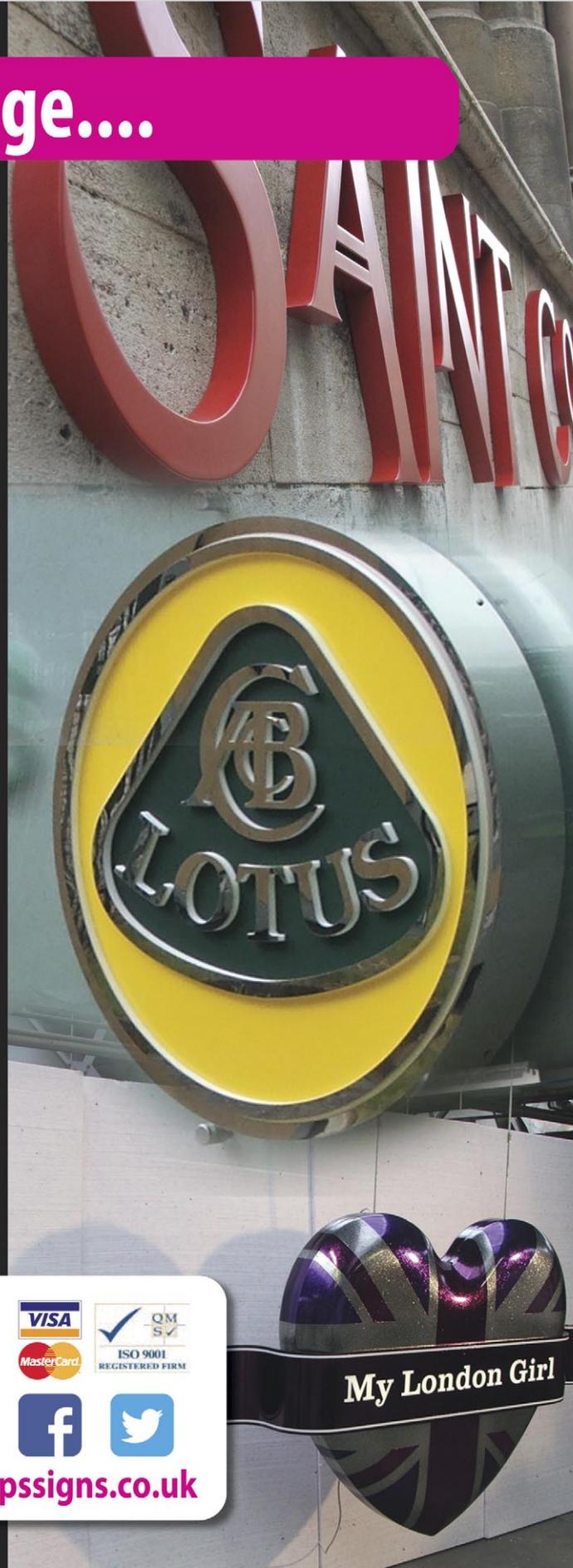
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## Solution brings cutting requirements back in-house and prevents production bottlenecks

Typecraft is installing an Esko Kongsberg X24 Sign Starter bundle comprising table-top cutter with integrated i-cut software and a MultiCUT-HP tool head.

Optimised for handling the wide range of materials and applications typical for the sign and display business, the bundle replaces a Colex Sharpcut flatbed cutter. Supplied by CMYUK, it will work with Typecraft's stable of wide format printers from Agfa, HP and Mimaki.

A need to remove production bottlenecks and install a machine with far greater versatility such as the ability to polish the edges of acrylic substrates in-house and a broader tool set, drove the need for this investment.

"The Kongsberg was by far the best value for money; it does everything that we need it to do," explains operations manager Matt Magovern. "It's so much quicker than the

machine we've got at the moment. Changing tools is faster and easier and there's lots more tools and options available".

Integrated camera provide vision cutting, while advanced tools enable high quality, high speed milling and cutting of a wide variety of materials. The X24 features a steel construction table-top along with automatic sheet feeding that permits quick and accurate loading of both flexible and rigid sheets. Automated roll feeding can be integrated with sheet feeding to meet production volume needs with diverse material requirements.

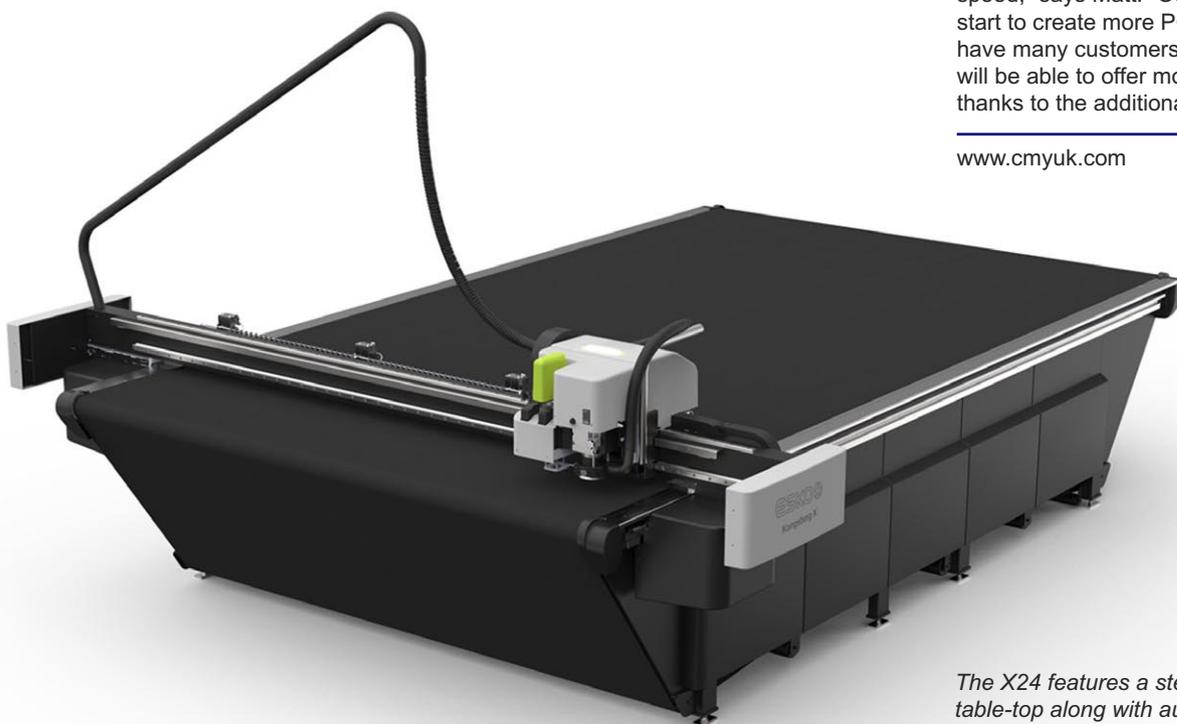
The MultiCUT-HP (high power) tool head is equipped with a super-strong, air-cooled milling spindle delivering several times higher productivity than less powerful alternatives, an advantage for PSPs that need extended milling duty cycles and/or who work extensively with heavy-duty

"It does everything that we need it to do; changing tools is faster and easier and there's lots more tools and options available"

materials (thick sheets of acrylic, wood/MDF and aluminium composite material).

"It gives us control back over cost and speed," says Matt. "Our major focus is to start to create more POS material. We have many customers in that area and we will be able to offer more services to them thanks to the additional capabilities".

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*The X24 features a steel construction table-top along with automatic sheet feeding that permits quick and accurate loading of both flexible and rigid sheets*

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# PRODUCT Choice

## Latex wide format printer chosen for quality, productivity and green credentials

OPG has installed an HP Latex 3200 wide format printer, adding to its three HP Latex 570 systems, with 'wonderful' results.

A specialist in fleet vehicle graphics, OPG provides a full service from consultation and design to installation and removal. Its client base includes both end users and manufacturers of fleet vehicles, with large scale projects such as 15.6m-long refrigerated trailers for transporting food products everyday work for the team. Many of these graphics are intended for semi-permanent use of up to eight years so must be fade-resistant, robust, durable and provide protection for the paintwork underneath.

Initially, OPG chose HP Latex ink and the HP Latex 570 printer when augmenting its more traditional electro-cut vinyl graphics portfolio; a set-up which delivers the excellent image quality and colour consistency required by demanding corporate customers.

General manager Alan Watson says: "The water-based formulation of HP Latex ink is positive both in terms of environmental credentials and health and safety, which more and more of our customers are demanding. Graphics printed with Greenguard Gold-certified HP Latex ink on more sustainable media such as 3M Envision non-PVC print film, in-house by an ISO 14001 business, is a credible 'green' option for our customers."

When OPG was looking to boost production with a larger machine, it chose the 3.2metre-wide HP Latex 3200. Designed to support higher volume printing, it enables them to produce high quality vehicle graphics at speed. The printer is suitable for general graphics applications such as retail/outdoor advertising, events/exhibitions and interior décor.

"The HP 3200 is the machine we've been waiting for," says Alan. "We like its productivity, not just how fast it prints - but the general increase in uptime we've experienced since its installation. Its design is focused on a production environment with ease of operation and loading and all the information for the operator to hand including updates on the state and health of the machine.

"There are additional environmental benefits in that there is minimal waste; just one linear metre each time we load the roll, which are savings that add up. Crucially, the colour consistency when tiling large scale vehicle graphics is excellent; the 3200 is achieving corporate colours that CMYK would struggle with and the quality is stunning.

"Technology has moved on incredibly and high quality imaging is everywhere: high-definition televisions, cinema screens, smartphones. People expect the same level of quality from printed graphics."

The HP Latex 3200 printer was supplied by Papergraphics who worked with OPG on the project. The OPG building required structural work to accommodate the large system and delivery was required to take place within a tight window to ensure a safe work environment.

"We had in-depth discussions with Papergraphics on risk management, safety and quality and the experience was seamless and painless," concludes Alan. "They provided a great service."

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# Hybrid printer delivers quality, flexibility and cost savings

Discount Displays says it is already experiencing the cost benefits of its new HP Latex R2000 Plus, installed this summer to replace two older machines. Installed by large format print specialist Papergraphics, this 2.5m wide printer delivers flexibility and high production speeds of 45-100 m<sup>2</sup>/hour and easily creates graphics on a wide range of roll-fed, rigid and flexible substrates up to 50mm thick without compromising on quality.

A true hybrid printer for both flexible and rigid printing, it can be used for applications including retail, outdoor signage, window graphics, events and exhibitions, decoration

and car wrapping. Coupled with the HP Latex White Ink it delivers "the glossiest white on transparent and coloured media and provides print service providers with ultimate versatility through a single ink set".

Running alongside an HP DesignJet Z6200 and two HP Latex 360 1.6m roll-to-roll printers, the HP R2000 replaces one 3.2m roll-to-roll printer and a flatbed UV system, demonstrating its flexibility on a wide range of commonly used substrates.

Production manager Giles Fletcher comments: "We were convinced to make the investment when we compared its

"We were convinced to make the investment when we compared its actual running figures with those of our existing two printers"

actual running figures with those of our existing printers in terms of service contracts, maintenance and ink; when combined, the new R2000 is saving us money.

"The big benefit for us is its flexibility; we're printing both roll and rigid media and able to load materials very quickly; it's easy to load up and get going. This printer is a game-changer in regard to quality, flexibility and vibrancy of colour - there is nothing to rival it."

The full printing solution including Onyx Thrive software was provided by Papergraphics with whom Discount Displays has enjoyed a solid working relationship since 2001.

"We've bought all of our HP machines through Doug Gilbertson at Papergraphics, simply because he provides good honest advice," says Giles. "He makes recommendations based on what's right for us and always helps with any issues following installation."

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



The HP Latex R2000 Plus delivers high production speeds of 45-100 m<sup>2</sup>/hour, paired with quality print output.

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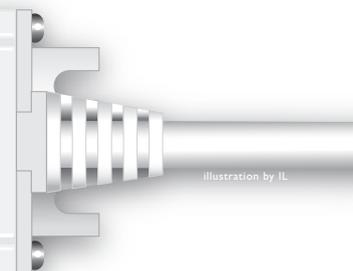


Illustration by JL

## Foamalux showcases UV LED printers to full potential

At exhibitions and open days, for more than eight years Jetrix has used Brett Martin's Foamalux range to showcase its range of UV LED flatbed printers to their full potential.

"We know that our printers deliver outstanding print work but it's about how we relay that evidence to the market," says head of sales Ben Woodruff. "We regularly hold open days at our resellers and with the sheer number of people who turn up to these events, it's a great opportunity to impress prospects as well as giving our current customers an insight into our other flatbed products.

"It's important to take full advantage of these events and demonstrate our equipment's ability to its full potential. Therefore, we only use reliable, easy-to-handle substrates that will help us produce outstanding print quality.

"Brett Martin's Foamalux range is perfect for direct to substrate digital printing. It has outstanding adhesion capabilities, great colour reproduction and retains the print quality very well. It has a very crisp edge; there are no dots or drop-outs so it's perfect for a digital printer. What's more, it's very easy to use and when prepared according to the manufacturers guidelines, has strong anti-static properties, an important factor in avoiding any issues with finished print work.

"We mainly use Foamalux White for demonstration days; its bright white features optimise reproduction and its UV



Foamalux has a very crisp edge; there are no dots or drop-outs

stability ensures that we can achieve outstanding print clarity and quality."

Jetrix's long and successful partnership with Brett Martin isn't only thanks to the quality of the material it provides.

"The team at Brett Martin have always been very helpful and supportive, especially at open house events. They send us the packs in a simple format that make them easy to unload and use for printing on the day," continues Ben.

"The open days are very important to us," says Jon Telling, sales director at Jetrix reseller Perfect Colours. "Our range of

"Its bright white features optimise reproduction and its UV stability ensures that we can achieve outstanding print clarity and quality"

printers need to impress and in order to do so, it's important to get the right substrate for the print job.

"Brett Martin provided Foamalux samples for an open day we held recently and it produced fantastic results. Our customers were hugely impressed so we were grateful to Brett Martin for helping us to show off the capabilities of the Jetrix range to its full potential."

Duncan Smith, sales director at Brett Martin says: "Jetrix has an outstanding range of LED UV flatbed printers; the technology that goes into them and the quality of the output are both incredible. We're delighted that for eight years they have chosen to work with us to demonstrate their full potential at key exhibitions and at open house events. We look forward to continuing to work with them in the years ahead."



Ben Woodruff says Foamalux is perfect for direct to substrate digital printing

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# PRODUCT Choice

## Colour-matched digital imaging inks help to minimise downtime

The Colour House has become one of the first UK businesses to use the brand new Nazdar 204 Series digital imaging inks, supplied by Quality Print Services (QPS).

Launched in May 2019, the 204 Series has been designed as a low-odour, plug-and-play alternative ink for Roland TrueVIS SG and VG Series printer/cutters. Users can simply replace the OEM TrueVIS ink as it runs out with 204 Series cartridges to print reliably vibrant, colour-matched output in CMYK, Light Cyan, Light Magenta and Light Black. It is simple to replace one colour at a time without the need for flushing or custom profiles in most situations, minimising downtime.

The Colour House has been using 204 Series inks on its new Roland TrueVIS VG-640 since it was installed by QPS in July 2019 as a leading supplier of both Roland printer equipment and Nazdar inks. The printer follows the installation of a second TrueVIS in 2018, which has been converted to Nazdar inks by QPS this summer.

"We have always used Roland printers and chose to replace two older, smaller machines with new TrueVIS VG Series to speed up production," explains head of



*It is simple to replace one colour at a time without flushing or custom profiles in most situations*



*The Colour House is among the first businesses to use Nazdar 204 Series inks with a Roland TrueVIS system*

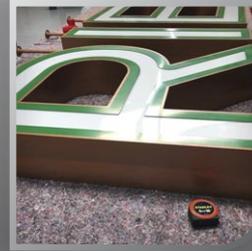
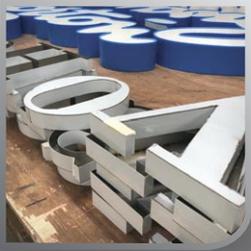
*"We haven't noticed any difference in colour or quality since switching from OEM inks and are making cost savings on every cartridge"*

production Paul Cartwright. "Chris Bailey at QPS recommended Nazdar inks for their lower price and showed us the research to prove the colour quality. We haven't noticed any difference in colour or quality since switching from OEM inks and we're making cost savings on every cartridge.

The Colour House is a specialist supplier of estate agent boards, shop fascias, window graphics, point of sale material and a varied range of signage across South Wales and the South West of England.

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## Digital cutter improves throughout and lead times

Plus Display moved into large format print in the late 1990s and evolved into producing large format work including banners and exhibition stands.

"We purchased an AGFA Anapurna 2000 large format printing machine," says Steve Bristow. "This was running over 50 hours a week and three employees were dedicated to hand cutting, taping and attaching Velcro strips to the jobs we were processing. This was a clear pinchpoint and we were outsourcing upward of £80,000-90,000 of cutting work each year, primarily for materials that we were unable to hand cut and more complex shapes that we couldn't feasibly hand cut with any precision.

"The taping head can apply Velcro backing to our displays and will be four times faster than manually applying Velcro and tape adhesives"



Steve Bristow preparing the DYSS X7-1630C for cutting exhibition flooring

"We upgraded to an Anapurna H2500i LED large format printer that was three times faster than its predecessor and installed a DYSS X7-1630C digital cutter from AG/CAD with a K-CUT Vision PRO software suite," says Steve. "First, we needed something capable of cutting 8 x 4 boards with the ability to process everything from vinyl and carpet through to

Acrylic, MDF and Foamex. We identified the DYSS machine was more robust, well-built and capable than its competitors and the AG/CAD KASEMAKE software package more flexible and powerful. The DYSS machine was a more cost-effective option for our business.

"By installing the DYSS, we have brought over £80,000+ subcontract cutting costs in-house and streamlined our activities. This means the cutter will pay for itself in under 18 months while improving throughput, productivity and lead times."

Once the DYSS X7 machine was up and running, outsourcing costs were eliminated and lead times reduced.

"As our business evolves we aim to further exploit the capabilities of the DYSS machine," concludes Steve. "With the Combo-Head we have the routing, creasing and oscillating knife tool but can integrate an adhesive tape application tool. The taping head can apply Velcro backing to our displays and will be four times faster than manually applying Velcro and tape adhesives."

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The combo head in action at Plus Display

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## LED modules illuminate signage for Leeds Playhouse

Sovereign Signs was commissioned by BAM Construction to work alongside them to provide bespoke signage for the newly refurbished Leeds Playhouse.

Thirty years since it first opened, the theatre in West Yorkshire recently underwent a massive overhaul, transforming the previously dated 1970s building into a modern, cultural venue. The £16 million renovation project includes a new restaurant and bar area along with improved facilities, upgraded seating and an accessible, city facing entrance.

Externally, the building has been completely reimagined, replacing the previous brick façade with a stylish and contemporary glass wall design that stretches from floor to ceiling. Punctuating the wall of glass, large panels of colourful, ceramic tiles add a patchwork of different hues, creating a vibrant and artistic frontage that pays tribute to Leeds ceramic heritage.

As part of the multi-million-pound project, the theatre appointed Sovereign Signs and BAM Construction to provide new signage for the building's exterior. Forming the word 'Playhouse', the signage was created from nine, built-up letters each measuring 800 x 400mm. To maximise the standout effect, the letters were integrated with SloanLED VL Plus 3 Mini LEDs, where the crisp 6500K colour temperature of the modules deliver striking illumination after dark.

Sovereign Signs' managing director Iain McKenzie says: "We required a reliable LED brand for illuminating the Playhouse sign and SloanLED VL Plus 3 Mini modules really delivered for this project by being a high performing as well as cost effective LED option. Lighting played a vital role toward the overall appearance of the signage and the premium quality of SloanLED's LED modules produced powerful illumination, creating a beautiful visual at night."

"Lighting played a vital role toward the overall appearance of the signage and the premium quality of the LED modules produced powerful illumination, creating a beautiful visual at night"



Forming the word 'Playhouse', the signage was created from nine, built-up letters each measuring 800 x 400mm

David Mullaney, national product manager for Applelec's SloanLED division comments: "With the lettering being installed in a difficult location at high level in the city centre, it was imperative that the LEDs would not fail. Due to the premium construction of SloanLED's VL Plus 3 Mini and with the modules IP66 protection class, the LEDs were robust enough to accommodate the sign's external and exposed position, providing longevity of install."

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

# Self-adhesive PVC film used for 200m<sup>2</sup> wall graphics

Graphicomm Digital completed a project just in time for the UK summer holidays: a 200m<sup>2</sup> of wall graphics printed on Polar Premium vinyl from Drytac.

Founded in 2000, Graphicomm Digital moved from providing less lithographic work toward more digital wide format graphics printing 13 years ago and now signage is the largest part of the business.

Graphicomm Digital has worked on numerous projects for a family-owned amusement park in its home city of Plymouth. When this business was undertaking a major renovation of another of its attractions, the New York Thunderbowl bowling alley and entertainment complex in Kettering, it called the Graphicomm Digital team to discuss its interior graphics needs.

Working with the client, Graphicomm Digital's in-house graphic designer created an eye-catching wall graphic concept for the bowling alley: an underwater scene complete with coral and tropical fish, complementing images from the film franchise Pirates of the Caribbean. With

such a large space to work with, Graphicomm Digital considered the material options for the job.

"We use vinyl every day so were more comfortable using vinyl again for the New York Thunderbowl project than, say, a wallpaper material," explains commercial director John Hardaker.

Antalis recommended Drytac's Polar Premium with a matte finish - a polymeric self-adhesive PVC film ideal for a range of applications including wall graphics, POS displays and general signage - plus a second Drytac product for laminate work.

The installation included applying the marine scene to two side walls measuring around 17m long and across the front of the bowling alley area a 21m-long space. In the cafe area Graphicomm Digital installed a 5m-tall image of Pirates of the Caribbean character Captain Jack Sparrow.

Printing and laminating the graphics using a Roland VersaCAMM VS-540 inkjet printer/cutter took four days to complete.

"This was a one-off, major overhaul of the entertainment complex so the graphics will be in place for a good many years"



This installation includes a 5m-high image of Pirates of the Caribbean character Captain Jack Sparrow



The Graphicomm Digital team undertook two full-day site visits ahead of the eight-day installation; the bowling alley project was its first time using Drytac Polar.

"It's a great product," says John. "It prints well and is a lovely material to apply. The matte laminate finish looks and feels nice. We have already used Drytac Polar in another two projects as a result of the Thunderbowl job. This was a one-off, major overhaul of the entertainment complex so the graphics will be in place for a good many years."

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

An underwater scene of coral and tropical fish runs across the front of the bowling alley area

## Mallard steam loco inspiration for 'soap box' cart

The Micklegate Run Soap Box race is an annual event held in York to celebrate the August Bank Holiday weekend. This year, Hudson Quarter approached Harrison Signs with a rather unusual idea: to create a version of the famous Mallard steam locomotive based in York, from the chassis of an old 'hot-rod' soap box, with its branding decorating the vehicle, fittingly named The Hudson Rocket.

"This was one of our team's favourite projects, providing an opportunity to contribute to a multi-business project with the enjoyable end goal of seeing the finished article in action on the cobbles of Micklegate"



Once the original soap box was in the workshop, Harrison's team began work stripping the frame surrounding the old chassis

Once the original soap box was in the workshop, Harrison's team began work stripping the frame surrounding the old chassis, removing the cabin and 'engine' housing, replacing them with new wooden walls matching the concept art provided by architectural firm Fuse, all of which were cut and shaped to ensure that the finished soap box would meet the strict rules and regulations of the event.

The newly fixed exterior was then painted to match the original Mallard locomotive's colours onto which the Hudson Quarter branding was cut and applied from self-adhesive copper vinyl to create a brand accurate aesthetic with a sleek metallic finish.

Once the finishing touches such as the train's nozzle and faux nuts and bolts had been finished, the Hudson Rocket was ready to be taken away and tested.

"This was one of our team's favourite projects, providing an opportunity to contribute to a multi-business project with the enjoyable end goal of seeing the finished article in action on the cobbles of Micklegate on 26 August," says marketing assistant Patrick Hook-Willers.

The Rocket ended up finishing in the top 10 carts, finishing her two runs with the eighth fastest average time of 37.84 seconds. In addition, the Hudson Rocket won the prize for Best Design out of the entire field which included a Tardis, a tank and a rhinoceros.

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



The newly fixed exterior was then painted to match the original Mallard locomotive's colours onto which the Hudson Quarter branding was cut and applied

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## Latex technology brings large-scale photo exhibition to life

HP has partnered with local artist and photographer Henry Reichhold to capture views of the River Thames landscape. Titled 'One Hour', the installation is on display at London Bridge Station as part of the annual Totally Thames Festival.

Working alongside HP and London-based digital printing firm PressOn, the photographer captured 2 km of the Thames from Tower Bridge to Blackfriars over a 60-minute period. The stunning views and river-based activity are displayed via two huge panoramic photographs.



*This project offers a comprehensive visual narrative of the vibrancy of the river and its surrounding areas*

*“As the first large-scale photography exhibition to be held in the newly refurbished London Bridge Station, I needed technology that delivered in terms of quality and durability as well as environmentally”*

Printed by PressOn using the HP Latex Printer L3600, on Papergraphics' SoftStuff display fabric, the images provide a look at the local area, creating a time-based portrait that captures the energy and activity that makes this dynamic region so exciting. Designed to give the viewer a real sense of the vitality and pace on this busy stretch of the Thames, this project offers a comprehensive visual narrative of the vibrancy of the river and its surrounding areas.

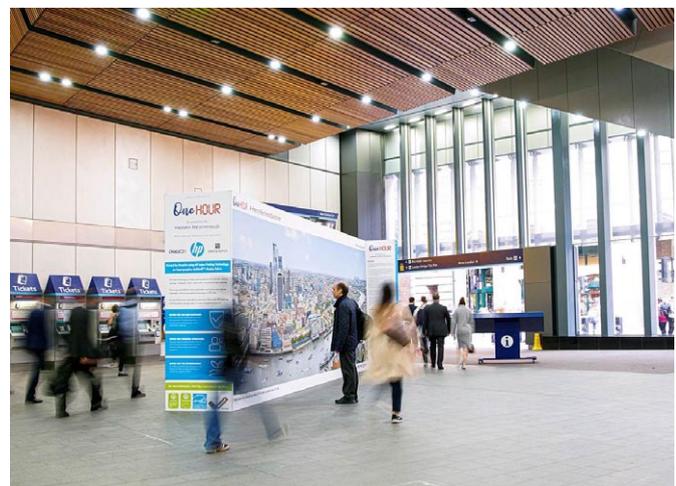
“As the first large-scale photography exhibition to be held in the newly refurbished London Bridge Station, I needed technology that delivered in terms of quality and durability, as well as environmentally; the HP Latex Printer L3600 presented a solution”, comments Henry. “As an artist, I'm always looking for innovative ways of doing things without compromising on

standards. Working alongside HP meant I had the tools required to do just this and bring this art installation to life.”

“HP Latex technologies unlock new opportunities for print service providers from smarter printing for increased productivity to extreme colour definition,” says Phil Oakley, HP regional business manager, UK&I. “Our water-based HP Latex Inks, certified for low chemical emissions to reduce environmental impact, enable our customers to operate sustainably without compromising on quality.”

The HP Latex Printer L3600 opens a wealth of possibilities for the graphics industry by enabling consistent, flexible and durable prints at an affordable rate using just the one printer.

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



*The stunning views and river-based activity are displayed via two panoramic photographs*



# Sign painting and digital print used to create Waterloo timeline display

HNS was given the brief to paint signs onto mostly pre-painted walls as per artwork supplied by Identity Signs London onto the walls, ceiling and floor at Leake Street Arches, Waterloo Station. The purpose was to produce 'rustic artwork' that would display a timeline showing the history of Waterloo as a retail outlet, blending the old (surroundings and sign painting) with the new (retail space and digital print.)

"Although we plotted all of the paper traces, as we had not surveyed it we decided to wait until on site to determine if we should pounce or chalk the traces," says Michelle Henry. "Artwork wasn't finalised till very late on so we had a manic 24 hours preparing everything.

"We had to arrange for all of the paints to be delivered to Identity Signs so that they could transport them to site. This was very much a guesstimate on the amounts as the paints were ordered before we had received the final artwork.

Ceiling height was around 10 meters and we worked on three rooms and three corridors, using 10 litres of each black, pink, red, green and yellow paint and 5 litres of white.

"As soon as we were on site we knew this was not going to be a straightforward project. The bricks were broken and crumbled as soon as we touched them. Where they had been painted, it flaked off and looked more like a limewash. The designers met us and talked us through what was to go where and then left us to it.

"Once we got ourselves organised, we planned to place the paper traces into position but encountered a few problems. The designers' scale was wrong and way too small and nothing would stick to the wall! They were so damp and the paint and brick in such bad condition that masking tape, gaffer tape, everything we tried, just failed.

"However, we are never one to shy away from problems and so jumped at the challenge. First of all we had to work out the correct scale. Thankfully, Max Dodds is very good at maths so he had to pretty much run the project by working out the dimensions for one section at a time and then delegate to the rest of us what we needed to do. Once he cracked it, he informed James Dunstone, managing director at Identity Signs who then produced paper plans for us so that by lunchtime on the second day we no longer



needed to freehand draw them. Where James had already made and installed the digital prints, we had to adapt to these designs so that they lined up. For the first day and a half, we drew everything freehand.

"After marking out on the first day, we discovered a further problem: as we painted the brick, the old paint and the brick fell off. The designer wanted certain areas of brick to be covered with text but they were so bad that this was not possible so we had to recreate the design as we went.

"We had to find a shop and purchase anti-peel paint to help reduce the amount falling off. Although this helped, the walls were in such a bad condition that they were still problematic. We had to think on our feet and adapt to problem solve. It is without a doubt the most challenging project that we have had to date but we loved every minute."

[www.hnssigns.co.uk](http://www.hnssigns.co.uk)  
[www.identitysigns.co.uk](http://www.identitysigns.co.uk)





## Applelec safeguards UK manufacturing and customer experience

As the government prepares the populace for life outside of the EU, Applelec has taken steps to protect customers.

Managing director Ian Drinkwater says: "Brexit has raised a great deal of uncertainty which Applelec has responded to by safeguarding our UK manufacturing

and our ability to respond to customer demand. This ensures that we will be less affected than others and guarantees that we can retain our standards and deliver a reliable supply."

Having recently expanded its West Yorkshire based manufacturing, Applelec

creates its patented LED Light Sheet along with a comprehensive range of products in their factory. With an exceptional core range of lighting and signage and a highly skilled team who specialise in bespoke products, Applelec says it responds to customer specifications promptly, working with customers to deliver solutions from the smaller projects to the more complex.

"We creatively look for solutions before they are problems, building a reputation of quality and customer support, often becoming an extended member of our customers' team," explains Ian.

As a member of Made in Britain, Applelec's dedication to UK manufacturing is viewed as fundamental to its success. The team has worked hard to ensure its skills base utilises the latest technology but retains handcrafting techniques which allow them to respond flexibly and create a truly bespoke offering that competitors who exclusively source overseas cannot. While the UK's future post Brexit raises many concerns, Applelec has shown how a proactive customer focus can mitigate any disruption businesses may face.

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



## SDEA Display Directory now available free of charge

The new SDEA Display Directory is available now free of charge to display buyers and specifiers.

Containing creative, specialist products and services for retail, hospitality and leisure interiors, the new design offers a visually stimulating and comprehensive guide including exclusively commissioned editorial.

UK and European specialist shopfittings, display manufacturers and suppliers are bound together in this publication, which will help you locate shopfittings, display, PoS, PoP, lighting, signage, mannequins and visual merchandising.

SDEA presents a collection of retail and hospitality reviews to provide inspiration to help you create cutting edge

environments, from luxury British heritage brand Mulberry launching a new artistic concept in the heart of London to German book retailer Thalia opening a contemporary and beautifully crafted interior in Hagen.

This directory offers a variety of ways to help buyers and specifiers source their products and services, quickly and easily: you can search by supplier, product, trade name, retail discipline or location.

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



SDEA presents a collection of retail and hospitality reviews to provide inspiration to help in the creation of cutting edge environments.



# Thousands of ICC profiles available online for quick, easy selection

Drytac has created thousands of ICC profiles based on popular printer models, inks, RIPs and Drytac media, to enable its customers to take advantage of quick, high quality plug and print capabilities.

Over 1,800 profiles have been created for Drytac by the Mimaki Colour Engineering team for all Drytac's products compatible with Mimaki wide format printers up to 1.6m including print-and-cut, eco-solvent and UV technologies. The selection covers all available ink configurations including SS2, ES3 eco-solvent and LUS 170, LUS 175 and LUS 200 series UV-LED; and all sets-up such as CMYKCMYK, CMYKLcLm and special colours. There are profiles for both white and clear inks for all Mimaki UV machines for multi-layer printing.

The Drytac collection comprises nearly 30 HP Latex certifications, profiles and machine settings on the PrintOS portal, which includes profiles for the R Series printer; a wide range from the Roland Profile Centre including all ECO-SOL MAX ink types for VersaCAMM and TrueVIS systems; profiles for OKI ColorPainter and for Fujifilm Acuity LED 1600 II, for both the Caldera and ColorGATE RIP platforms. A constantly expanding range of colour



profiles and settings are available on the Epson Connect cloud service.

A complete range of profiles for the new Ricoh Latex Pro devices, in particular combining Drytac's clear products and Ricoh's new white latex ink technology, is coming soon. Drytac is working with Caldera, ColorGate, Onyx and providers of local RIPs included with devices, such as Roland Versaworks and Mimaki Rasterlink.

"Working in tandem with printer and software manufacturers, we have made thousands of profiles accessible via our website," says global product manager Shaun Holdom. "The selection is constantly updated and we can provide custom profiles as required on any of our products to maximise the colour output of customers' devices."

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

# FASTSIGNS celebrates strong six months

FASTSIGNS UK reports a double digit increase in sales revenues for its UK franchisees for the first six months of the year, following major investments in technology. So far in 2019, the global signage and visual communications network has rolled out three significant technological advancements.

The Corebridge POS system has been rolled out to 90% of the UK network with the remaining 10% expected to convert before the end of 2019. The centres actively using this cloud-based system say that it is helping to stimulate growth by streamlining customer service processes and providing a centralised dashboard for salespeople to respond to customers while off site. The Diamond CRM is an internal system that helps FASTSIGNS ensure franchisee satisfaction. It allows the brand to gather data on over 700 centres, operating in 10 countries within the



network and analyse the data trends to make informed and strategic decisions for the whole network. This advancement has led to "continued and improved service from the franchisor to its franchise network".

FASTSIGNS' Gamification Training App offering is an add on to the brand's core training methods, delivered by experts in the respective field. The app delivers an easily accessible tool for on-the-go training, allowing team members to equip themselves with essential skills through their smartphone or tablet, at a time and place that suits them.

Managing director John Davies (pictured) says: "We expect to announce the launch of new centres and along with the change in ownership of four of our existing centres, as some of our most successful franchisees complete their journey into retirement in 2019 we predicted a robust increase in productivity for the remainder of the year. We look forward to building on recent successes and celebrating a strong year-end performance."

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

## Signs Express adds digital signage to product portfolio

Signs Express is launching a digital signage product offering in response to technological developments in the industry and increasing demand from consumers. With digital signage capturing 400% more views than static signs, this is intended to complement to the wide-ranging products and services already available.

The extensive product range includes commercial grade freestanding and wall mounted digital display for both interior and exterior use, as well as interactive touch screen displays, video walls and LED displays.

Development director Aaron Davis comments: "Digital signage is a fantastic addition to our extensive traditional signs and graphics product range and our nationwide network means we're perfectly placed to offer an exceptional service to our customers. It's a really exciting era for Signs Express and a great way to celebrate our 30th year in business."

With an array of internal and external options available, a professional service and bespoke solutions, Signs Express



says it will be a trusted, safe pair of hands to deliver digital signage to its clientele. The complete solution now offered includes hardware, software and content, managed in an intuitive CMS, either by the client or by their centre. From animation to copy, video to graphics, the franchise is committed to bringing brands to life through engaging visual solutions, aimed

at maximising the benefits and capabilities of digital signage. Franchisees are taking part in an ongoing programme of comprehensive training to polish their knowledge all digital signage products including the CMS and master expert installation and technical services.

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

## Heckford expands operations with new facility

Heckford has opened a dedicated signage division: Heckford Signs, creating job opportunities in the local area and offering three apprenticeships.

The business has been operating in advertising for over 40 years and despite economic challenges across the country, managed to continue to grow and expand.

As part of the £600,000 investment Heckford has repurposed a factory to house the facility. A concrete reinforced floor had to be installed to support equipment, some weighing over 10 tonnes. This expansion allows for increased aluminium, steel and acrylic fabrication which complements the large print format machines in the main site.

Julian Robinson says: "Signage has been my life for over 20 years and I'm excited to be heading up this new division. Heckford has invested massively in this facility and I'm looking forward to working with the team and using the new equipment to create great quality products for our customers."

Alongside Julian, a team of five specialists have been brought together on the project, each with their own expertise in different signage fields.

As part of opening celebrations, the company is giving businesses or charities the opportunity to win a signage package worth up to £10,000. The business has accreditations including CHAS Premium Plus, Builders Profile and Constructiononline Gold, allowing the signage division to work with leading contractors. The company continues with to grow with plans for a third site scheduled to be opened in 2020.

[www.heckford-signs.co.uk](http://www.heckford-signs.co.uk)





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## CMYUK partners AE Sewing Machines

CMYUK has partnered with AE Sewing Machines to become exclusive distributor for the Advanced Sewing Automation ASA 3010 TPL – KC in the UK and Ireland. This conveyorised industrial sewing machine system is designed and manufactured for digitally printed signs and banners. It provides highest quality finishes to fabric and PVC textiles, ensuring that flat seams are achieved for applications including silicon/PVC beading or keder attaching, hemming and Velcro.

The ASA 3010 TPL – KC comprises a twin needle lockstitch head from Juki, attached to AE Sewing Machines' ASA tactile and robust 3m x 1m conveyor with powdered coated steel covers and lockable wheels.

Automatic synchronicity between sewing machine and conveyor ensures that material being sewn is travelling at the same speed as the conveyor. A high grip silicon belt assures that graphics remain flat and even during travel. Additional fittings can be purchased including attachments for different sized hems. Easy to fit, they slot into place via the magnetic guidance system that requires no adjustment; training takes just two hours.

CMYUK director Robin East comments: "We offer complete solutions to customers



*This conveyorised industrial sewing machine system is designed and manufactured specifically for digitally printed signs and banners.*

who want to offer digital textile printing. The ASA 3010 TPL – KC allows our customers to sew SEG silicon edge beading onto textiles and hem PVC. This Juki-based conveyorised system offers

PSPs versatility, increased productivity and ease of use."

[www.ae-sewingmachines.co.uk](http://www.ae-sewingmachines.co.uk)  
[www.cmyuk.com](http://www.cmyuk.com)

## Soyang and Blue Castle offer free PVC recycling

Soyang Europe and waste management specialist Blue Castle Group collaborated with the organisers of The Print Show to offer free PVC recycling for all PVC banner graphics, prints or stand construction

during and after the event. This joint scheme offered a solution to the industry's PVC waste dilemma, pioneering the use of PVC banner material as an environmentally sustainable substrate.

Event director Chris Davies said: "Having seen the PVC recycling plant myself, this is a game changer for what usually ends up in landfill and with an ever increasing need to protect the planet, this recycling solution is something the whole industry needs to get behind."

Soyang Europe has seen growing demand from its customers to find a solution for recycling PVC banner material.

"Uptake of the scheme has been extremely positive since its launch," says managing director Mark Mashiter. "The Print Show was an ideal opportunity to introduce it to a wider audience."

Blue Circle's CEO Marie Harley says: "Due to its complexity, the scheme has been several years in the making but close collaboration with our partner companies has enabled us to bring it to life."

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



## Brett Martin sponsors print awards

Britain's leading manufacturer and exporter of rigid plastic media for the print industry sees its sponsorship of the PrintWeek Awards as an investment in the future of the UK industry

"As a British company with a proud 60-year heritage providing quality plastic substrates and high level consultation and advice to this market, the Awards provides the perfect opportunity to promote our locally manufactured, market-leading product range and to support the remarkable innovation and creativity of the UK print industry," says sales director Duncan Smith.

Brett Martin's plastic printing media includes Foamalux. Lightweight, durable and versatile, it is one of the world's most extensive brands of foam PVC sheet, which has earned itself a reputation for quality and performance in print, signage and display. The company manufactures a range of transparent plastic print media in PETg, Polycarbonate and Acrylic. These products are used widely in the print and display market from point of purchase to illuminated signage and poster covers.



"We have been working with global print manufacturers including HP, Agfa, EFI, Jetrix and Mutoh as part of an approved print media partner scheme to get our range of rigid substrate products validated for use on their printers," says Duncan. "We're delighted that companies like these

are choosing to use our print media in their showrooms and at key exhibitions in order to showcase their machines' full potential. Our solutions are designed to help our customers let their imaginations fly."

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

## YPS now authorised dealer for Drytac digital media

Your Print Specialists (YPS) has been appointed as an authorised reseller of the full range of Drytac digital print media and film products, further establishing the company's reputation as a high quality, reliable, full-service solution provider to the large format printing industry.

YPS sales director Georgia Brown says: "Drytac is a market leader with a strong reputation for quality. More importantly for us, Drytac focuses on the overall solutions

that its products can deliver. For example, in addition to media, they provide accompanying profiles, which means customers get the maximum possible output from their printers. For Mimaki alone they have more than 1800 profiles and it is this level of detail that makes them an ideal partner for YPS.

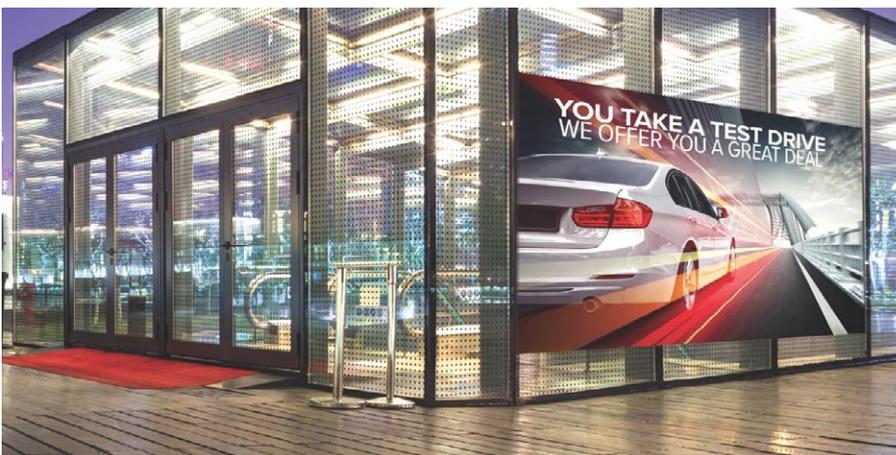
"At YPS we work hard to ensure our customers get the best possible advice and knowledge from us so they can make

informed purchasing decisions for their business. By becoming a Drytac reseller we can harness the exceptional expertise in self-adhesive media the company has developed over many years and pass this on to our customers. We were very impressed with the quality and durability of the Drytac media when we put it through its paces to create eye-catching samples."

Drytac global product manager Shaun Holdom says: "We are delighted to welcome YPS into the Drytac family and look forward to working with them over the coming years. They have a great reputation within the industry for delivering very high levels of service and focusing heavily on customer satisfaction. We believe they will ensure customers get the most from using our products as well as exploiting opportunities to deliver a broader range of applications."

Georgia Brown concludes: "We are genuinely excited to be able to offer these fantastic products to our customers. I am sure they will be as impressed with the quality and durability as we are."

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



## RENOLIT switches to non-phthalate plasticiser for its calendered film

RENOLIT has switched all its US production for its signage and graphics market range to the non-phthalate plasticiser Pevalen, produced by Perstorp.

Business unit manager Ralph Gut comments: "We believe this takes our compliance beyond the tough existing safety regulations and responds to the increasing consumer demand for greater sustainability. In making this switch, we have gained a clear competitive advantage in this market. Our high quality signage and graphics products make a significant difference to many of our customers as they are developed with both their processing requirements and end use performance in mind."

The calendered films produced in the US are "the ideal face stock for numerous pressure sensitive applications". Products customised with RENOLIT films are used for indoor and outdoor advertising and branding, vehicle and architectural graphics, as well as product identification or for other technical applications. RENOLIT tested several non-phthalate plasticisers before choosing Pevalen in 2017 because it offered excellent and customisable performance properties



*RENOLIT takes a sustainable lead by switching to a non-phthalate plasticiser.*

including greater sustainability. Several customers were impressed with its UV stability, shrinkage, colours and printability. Pevalen's superior properties are giving RENOLIT a critical sustainability advantage as they consistently lower the environmental impact of signage and graphics products by its plasticising efficiency and providing the lowest volatility

and migration properties. Pevalen already offers a significantly lower CO2 footprint than any other non-phthalate on the market, being produced using biogas energy which, combined with the sustainable properties, makes it "an excellent choice for the environment".

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

## All change for Sign & Digital UK 2020

Sign & Digital UK (SDUK) returns to Birmingham's NEC from 28 to 30 April 2020, promising a fresh show with a new website, layout, features and stand options. Completing the trilogy of its 'building business face-to-face' creative focus with a fresh, contemporary design-led influence. The organisers undertook a series of questionnaires and interviews with SDUK's core audience to adapt the show's features to reflect visitor and industry demand. Not only will the carefully curated plan build upon its existing markets, it will expand the show's appeal beyond its core audience to reach more visitors from textile production to end users in the creative, retail, lifestyle, education and local government sectors.

A new feature for 2020 is TextileTech, a learning zone focused on the expanding growth market of textile print and finishing. It will feature applications and



demonstrations, skills workshops, industry speakers, marketing leading specialist exhibitors and a 'textile trail'. Sign Making Essentials will showcase essential

equipment for signmaking, featuring specialist suppliers of fixings, fittings, tools, squeegees and cutters. In the Applications Gallery visitors will see a wide range of materials and substrates being used in a variety of creative settings.

Industry presentations, seminars and live demonstrations will enable visitors to build their skills and knowledge and support innovation all year round, with many new features being revealed in the lead-up.

Event director Jenny Matthew says: "We're investing strongly in our long-standing Sign & Digital UK event to help us deliver more for both visitors and exhibitors in 2020. We're taking a fresh look at the show to help elevate it to the next level. We have some exciting plans in place and believe it will be the best year yet."

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



## Multipanel builds on-site plastics recycling centre

Multipanel UK has invested £3 million to build an on-site recycling centre at its UK production facility in Eythorne near Dover. This latest enhancement will take waste LDPE and process it into plastic pellets, a raw material used in their production of aluminium composite panels.

The centre has a capacity to produce 2.4 tonnes of LDPE pellets per hour and these can be used for the core material in some of their ALUPANEL range of sheets. It is a major component in the overall aim to achieve zero waste from their operational production process, with scrap aluminium coil being sent for recycling and plastics purged from the production line being recycled at the new inhouse centre.

Purchasing manager Daniel Lewis says: "Our two production lines have a joint capacity to consume 3 tonnes of LDPE per hour so providing we can maintain supplies of suitable waste plastics, we could ultimately produce 80% of our requirement while taking a significant amount of waste away from landfill."

The plastic produced at the centre melts at a lower temperature than some other



plastics and will therefore require less energy to heat up to optimum workability. The resulting reduction in energy consumption will further reduce the environmental impact of production, thus increasing the green credentials of the panels produced here. Daniel concludes: "The type of plastics we need are not

currently recycled in Kent so we would be extremely interested in speaking with any companies or authorities who currently have large volumes of LDPE waste that they can't dispose of in an environmentally friendly way."

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

## RA Smart invites signmakers to open day

R A Smart is planning open days at its Cheshire facility with a factory tour which includes their commercial textile printing operation covering traditional screen printing, silk weaving and the digital print department. Visitors will be able to gain a better understanding of the differences between different textile print processes by

viewing every type of print process including acids, re-actives, pigments and disperse dyes for printing on to silk, cotton, polyester, linens and velvets. In addition, R A Smart will demonstrate textile finishing including silicone edging for tensile textile displays. Visitors will be able to view, discuss and test numerous textile print

solutions for their print business with true experts in their field.

Managing director Magnus Mighall says: "We have been preparing for these open days for some time, ensuring that we have the best solutions the market offers. We spoke with numerous printers, signmakers and display professionals looking to expand into printing textiles and listened to what they perceive as barriers to entry, the biggest being that suppliers rarely truly understand what it is like to run a successful textile print business. We've been successful for over 20 years and supplied equipment and solutions along the way so we want to share our knowledge and skills to help print service providers make the best textile printer choice for their business. Register for the open day on 12 November at <http://hvx.e18.myftpupload.com/stitch-open-house/>

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



## Obituary: Martin Hill, Nova Aluminium

After gaining experience in the signage industry at Ward and Co Bristol, Martin and his brother Roger, started a sign business in a shed at the bottom of their garden in Bristol in 1970. By 1972 they started employing staff and progressed to a unit in Parkway, Bristol. Initially, they produced trim to house acrylic out of hardwood, grooving and shaping on a home-made table saw.

It didn't take Universal long to design one of the first aluminium extrusions, Panatrim. This transformed the sign industry progressing to box systems such as Panacase, then Dualcase and Slimline. This soon made the business market leaders in supplying aluminium extrusion to the sign industry.

By Christmas 1981 the company had grown enough to expand into a 20,000 ft<sup>2</sup> purpose-built building, Universal House on Pennywell Road in Central Bristol.

Shortly after, Flexcase was introduced to the market along with a range of glazing systems. In 1990 the company expanded further and moved to a 40,000 ft<sup>2</sup> building conveniently located at the other end of the road. At its peak, the company employed over 120 people with a turnover of £10m.

After 30 years, the company was sold and Martin decided to retire, which only lasted a short time because in 2005, along



*Martin Hill 1945-2019*

with other directors including myself, he formed Nova.

Martin came up with the name as its meaning was 'new beginning' and so it was back to the other end of the road to the original purpose-built building and an additional five units, making a total of 40,000 ft<sup>2</sup> for the new business.

Out came his drawing board again and a new suite of extrusions were created, improving on the now almost 40-year-old systems; Panatrim became NovaTrim, Dualcase became NovaCase and so on, until Nova had a suite of five systems to start its journey with.

As Martin took more of a back seat, we have since built on those original five systems and now have in excess of 15 aluminium signage systems that we continue to add to.

Now in our 15<sup>th</sup> year serving both the sign and glazing industries, Nova has over 55 staff, many of whom worked at Universal with Roger and Martin. Collectively, there is over 400 years of experience and with its modern systems we are well placed for servicing the sign industry well into the future.

Although not a familiar face in the industry, Martin's contribution in developing systems was huge; it is a great privilege to have known and worked with the man that was instrumental in creating sign systems new and old that can be found on every high street in the country today. We thank Martin for his contribution to the industry; he will be missed by his friends and family.

*Paul Harvey, managing director,  
Nova Aluminium Systems*

## Brunel Engraving team tee off in charity challenge



*From left: Alan Pearce, Laurence Golding, Martyn Wright and Phil Wright.*

Martyn Wright, founder and managing director of the Brunel Engraving Company, has recently teamed up with his son Phil, technical director at the company, in The Great Golf Challenge launched by Cancer Research UK to raise funds towards the fight against the disease.

They were joined by Martyn's future son in law and a close family friend to enter the 72 holes in one day Golf Challenge which they completed on 15 August at Tickenham Golf club, near Clevedon, Bristol. It was a 6.30am tee off and the team walked nearly 18 miles, around 37,000 steps per player, climbing 1200ft on the course before completing the challenge 13 hours later at 7.30pm.

To date they have raised over £3,100, approaching £4,000 (including gift aid) to support the work of Cancer Research UK.

'All four of us in the team have been touched in some way by the devastating effects of cancer and we wanted to do something positive to fight back', says Martyn. 'It was a gruelling day and quite an undertaking but we were all proud to complete the course.'

"Our thanks go to everybody who has donated and helped us reach the top 10 level of donations. If there's anyone who hasn't yet donated and would like to support Cancer Research UK and push our group up the leader board please click the link below. Thanks again for all for your support".

<https://fundraise.cancerresearchuk.org/page/phils-great-golf-challenge-fundraising-page-5>

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



## Merson Group and inurface media form joint digital sign business

Merson Group has announced the creation of Merson Digital Ltd - a joint venture with inurface media - to become the UK's "largest digital signage company."

Merson Group is one of the UK's leading providers of bespoke signage, servicing clients across the retail, banking, automotive, rail and airport sectors, as a manufacturing specialist, capable of large scale project roll-outs.

CEO Roddy Angus says: "We are really excited about extending our product range to include LED/LCD displays and associated services. The new company will trade out of our Basildon facility where we have logistics, manufacture and design development resources less than an hour from central London."

inurface media has been providing complete digital signage and audio-visual solutions into the UK since 2008. Delivering creative, end-to-end digital signage solutions for some of the largest global brands, the company has transformed the digital signage in destinations such as Chelsea Football Club alongside retailers including Boots.



Recently the company completed signage schemes at the new Tottenham Hotspur stadium and four of London's Crossrail stations.

Media founder and CEO Josh Bunce says: "This is an important move as it brings together the expertise of one of the UK's fastest growing digital signage players with its largest signage implementer. During a highly successful collaboration we identified key synergies including design, build, fabrication and creating a digital channel for Merson clients."

Merson Digital will offer an integrated end-to-end supply of digital signage and AV solutions at scale and pace. The focus will be on supplying digital screens and key products will be supplied under the Bauer Digital brand to offer quality, bespoke solutions for their customers.

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

## Josero recruits business development managers

Josero has recruited two business development managers. Sarah Winterbottom has worked for organisations including Robert Horne/Paperlinx Group, Signmaster and CMYUK in sales, product development and management roles over the past 25 years

across hardware and software within the wide format market.

"My experience should help me develop the company's profile and increase sales of Mimaki and Agfa products and many others in its portfolio," says Sarah.

printers and workflow software to the sign and display sector.

"I'm keen to develop new client relationships for Josero and believe my extensive industry knowledge and consultative sales approach focused on developing long term relationships will be an asset," says Roger.

Sarah and Roger join Josero at a very exciting time as the company has experienced substantial development over the past three years.

Managing director Loic Delor comments: "Our aim is to grow the business significantly over the next 2-5 years and Sarah and Roger will play an integral role in this growth."

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



Roger Sherratt started his career 40 years ago in a pre-press production environment, followed by value added resellers including MC Imaging, Printing Techniques and Image2Output before moving to Agfa for 15 years. In the past decade he's focused on selling UV direct to substrate wide format

# CLASSIFIED

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<b>Gerber Fastrac 1300 plotter.</b> Cost £3700. Stopped working. Spares or repair. Rochester, Kent	<b>£1</b>
<b>Flatbed Tornado V2 CNC Router</b> Bed size / cutting area: 2,550 x 1,350mm Weymouth, Dorset	<b>£22,500</b>

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### The responsibilities:

- Operating the prints and finishing equipment detailed below.
- Making sure the operator-maintenance is carried out as needed.
- Pre-press setup of print files from studio artwork.
- Print, laminate, plot, & mount various vinyl graphics.
- Contribute to department quality control and improve processes wherever possible.
- Work as part of an overall sign making team.

### The equipment:

- Agfa Anapurna M UV Hybrid running Wasatch.
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- Has knowledge and some experience of pre-press processes, colour consistency, file formats, bleed etc.
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- Has great inter-personal communication skills, along with a flexible and hardworking approach.
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Previous experience is essential as we're looking for someone who can hit the ground running.

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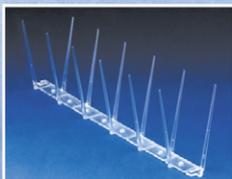
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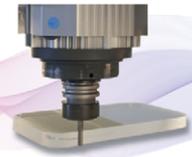
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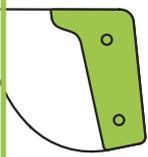
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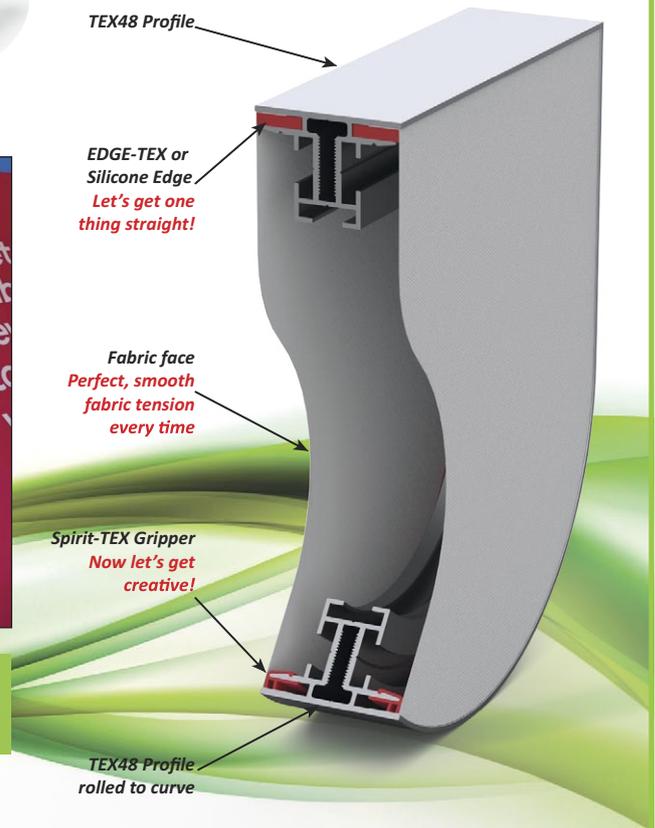
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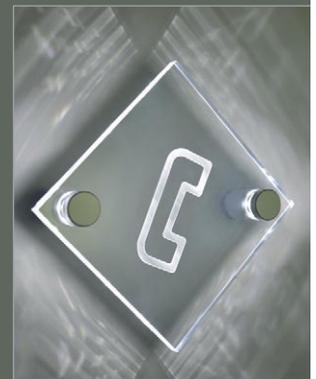
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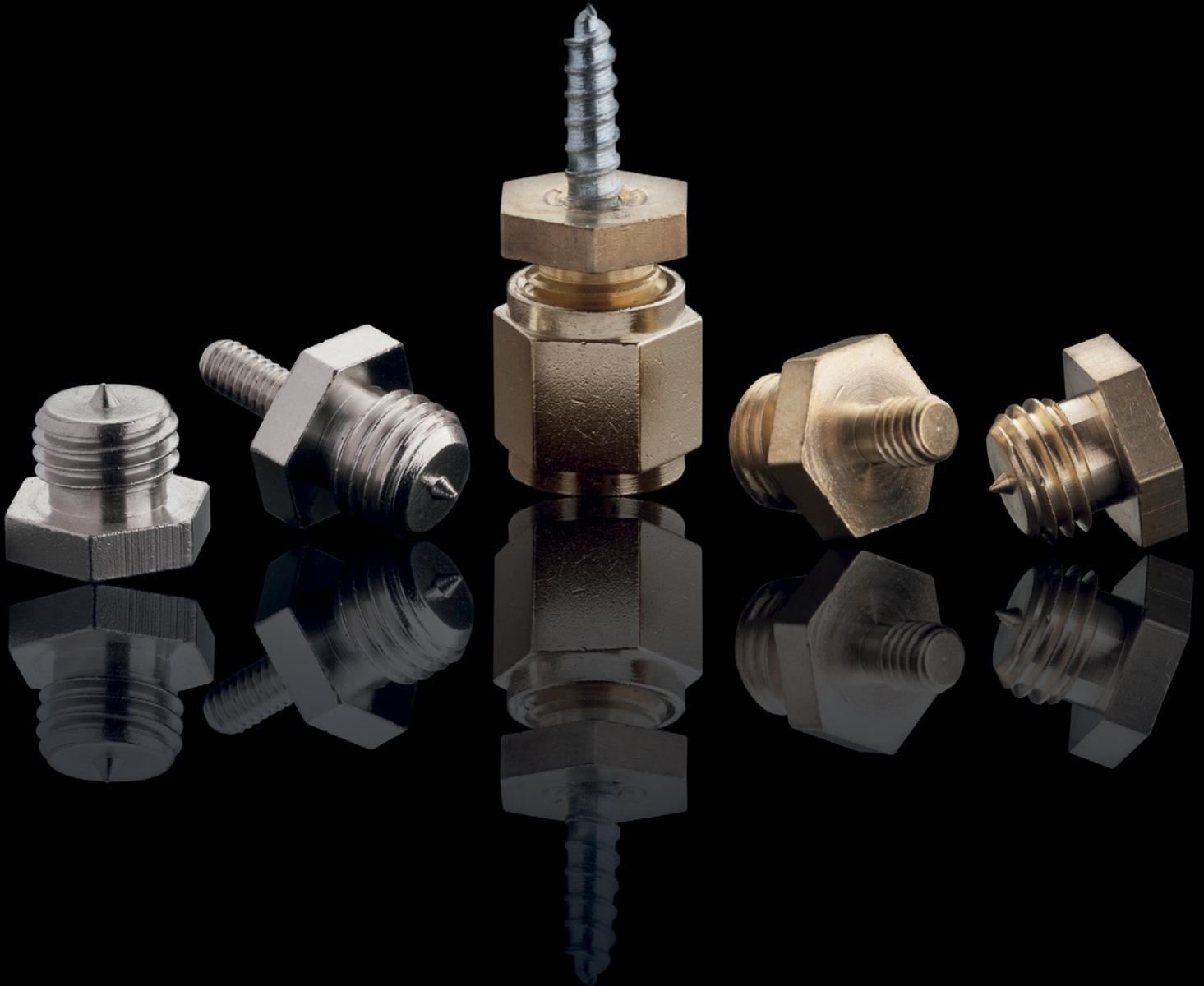
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## A BOARDS

### DES LTD

Knowles Ind Est, Buxton Road, Furness Vale, High Peak SK23 7PH  
Tel: 01663 744824  
[desaboard@gmail.com](mailto:desaboard@gmail.com)  
[www.desltd.co.uk](http://www.desltd.co.uk)  
Manufacturer of the most popular metal Pavement Sign / A Board. Made from 1.2mm zinc coated steel, 11kg. Powder Coated with stainless hinge and heavy duty stays and rubber feet. Prices From £38.04 - std 533 x 864mm, Also available in A1, AO, or as poster, or legged. Available in stock colours or bespoke. Ral Colours. CALL NOW. Orders before 11 for next day delivery.

## ACRYLIC SHEET

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[www.rightonblackburns.co.uk](http://www.rightonblackburns.co.uk)  
UK distributor of Polycasa Crylux Cast & Crylon 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.

## VISIONS IN PLASTICS

Unit 3, Delta Court (Robin Hood Airport), Auckley, Doncaster DN9 3GN

Tel: 01302 775920  
[sales@visionsinplastics.co.uk](mailto:sales@visionsinplastics.co.uk)  
[www.visionsinplastics.co.uk](http://www.visionsinplastics.co.uk)  
Stocks of Mirrored Extruded Acrylic in clear, 19 colours, See-Thru, Two sided, Anti Scratch, Anti Fog. Mirrored Polycarbonate, Petg and Polystyrene. Non mirrored sheet in Acrylic, ABS, Polycarbonate, Polystyrene and PVC Foam.

## ALUMINIUM SIGN BLANKS

### SYGNET SIGNS LTD

129 Humberstone Rd, Leicester, LE5 3AP  
Tel: 0116 262 6288  
[sales@sygnetsigns.com](mailto:sales@sygnetsigns.com)  
[www.sygnetsigns.com](http://www.sygnetsigns.com)

A long-established trade supplier, Sygnet Signs produces high-quality signs. Fabricating aluminium and stainless-steel trays to the exact specifications of our clients, we use lasers or CNC routers. Powder-coated or stove-enamelled finishes are available, and we supply fully illuminated fascia and projecting signage to our designs or yours. All work is undertaken in-house by our specialist team.

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### MULTITECHNIC LTD (EST. 1972) Coopies Lane Industrial Estate, Morpeth, Northumberland NE61 6JQ

Tel: 01670 512090  
sales@multitechnic.co.uk  
www.multitechnic.co.uk

Full colour graphics that are genuinely under the surface of anodised aluminium. Unlike any other process, the highest quality digital print is created inside the anodised layer as part of the anodising process. This means that the signs cannot be defaced by scraping off the image, making digital anoprinting ideal for signs in public buildings such as schools, colleges & student accommodation.

## ARCHITECTURAL LIGHTING & SIGNAGE

### MEGALED LTD 236-242 Alma Road, Enfield EN3 7BB

Tel: +44 (0)208 432 0995  
led@megaled.com  
www.megaled.com

MegaLED offer award winning architectural led lighting solutions & design assistance: Lights, multi-channel led hardware, in-depth product knowledge, integrated service, support and custom LED Lighting. All this makes us the go-to supplier for all types of challenging architectural and signage lighting projects. For quality service and unrivalled product knowledge, call us today: 0208 432 0995.

## BANNER INSTALLATION

### 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  
Installers of any size of banner, from 1off's to nationwide marketing promotions, we supply & install post mounted and wire tension systems with a nationwide maintenance and emergency call out service, call for further details.

## BLADES / SMART KNIVES

### 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.

## BRAILLE AND TACTILE SIGNS

### BESPOKE MANUFACTURING LTD

#### Unit 1B Commerce Way, Walrow Industrial Estate, Highbridge, Somerset TA9 4AG

Tel: 01278 793 800  
sales@bespokemanufacturing.co.uk  
www.bespokemanufacturingltd.co.uk  
Bespoke Manufacturing specialise in a wide range of Braille and Tactile signage. We've been trading for over 18 years and have built up an impeccable reputation in the braille and tactile sector. We use substrates such as acrylics, brass, copper, stainless steel and aluminium including slats style systems providing single signs, to complete directories. All our work is carried out in house.

## BUILT UP LETTERS ACRYLIC

### 3D ACRYLICS & METALS LTD Unit B1, Felling Business Centre, Green Lane, Gateshead, Tyne & Wear, NE10 0QH

Tel: 0191 469 1199  
acrylics3d@hotmail.com  
www.3dacrylics.co.uk  
In house manufacturers of high quality built up and flat cut lettering and logos, we can offer back trays and fixings along with face and/or halo LED illumination. Our prices are very competitive and offer a prompt service.

## ICE SIGNS

### Tannery Works, 12 Whingate, Leeds LS12 3BL

Tel: 0113 2242124  
sales@icesigns.co.uk  
www.icesigns.co.uk  
Manufacturers of built up acrylic letters and logos. We can offer face or halo illumination with the installation of LEDs if required. Please call our staff on the number below if you have any questions.

## 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 3D built up lettering & logos in a variety of materials. 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.

## BUILT UP LETTERS ALTERNATIVE MATERIALS

### LEMON SIGNS LTD.

#### Unit 1 Colemans Yard, Alfreton Road Derby, DE21 4AL

Tel: 01332 987 617  
info@lemonsigns.com  
www.lemonsigns.com/trade  
We are a trade supplier of 3D letters, logos, crests & stage props using alternative materials such as XPS Foam & Signblock which is a more cost effective way of creating a 3D effect than traditional acrylic or metal. We can produce almost any shape in numerous finishes, giving the appearance of other materials such as wood, steel or plastic but without the associated limitations.

## BUILT UP LETTERS METAL

### 3D ACRYLICS & METALS LTD

#### Unit B1, Felling Business Centre, Green Lane, Gateshead, Tyne & Wear, NE10 0QH

Tel: 0191 469 1199  
www.3dacrylics.co.uk  
In house manufacturers of high quality built up and flat cut lettering and logos in aluminium and stainless steel, we also offer a painting or powder coating service & most letters can be fitted with LED modules. Our prices are very competitive and offer a prompt service.

## AES SIGNS LTD (EST. 1972)

### The Old Laundry, 15 Barratt Street, Easton, Bristol BS5 6DE

Tel: 0117 951 0234  
sales@aessigns.co.uk  
www.aessigns.co.uk  
Specialist manufacturers of built-up/flat cut letters, logos in stainless steel, brass, aluminium etc. Very competitive prices, excellent delivery, highest quality, full design service. Prompt response to all enquiries.

## 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 quality 3D built up metal letters and logos. Lettering starts at just 50mm high in materials such as stainless steel, brass, copper, titanium and aluminium with a variety of different finishes. Built up letters are available with halo and / or face lit illumination from our award winning and cost-effective LED range. A free and unbranded product brochure is available on request.

## AVENUE SIGNS LTD

### 216-222 Luton Road, Chatham, Kent ME4 5BS

Tel: 01634 841300  
info@avenuesigns.co.uk  
www.avenuesigns.co.uk  
Specialists in stainless steel letter fabrication sprayed to your specification. Neon and transformers, etc. also made to suit.

## CENTRE SIGNS (UK) LTD

### Alexander House, Iliffe Avenue, Oadby, Leicester LE2 5LH

Tel: 0116 271 4247  
graphics@centresigns.co.uk  
www.centresigns.co.uk  
Specialist metal fabricators to the sign trade only. Built up letters in Stainless Steel, Aluminium, Gold Titanium Stainless, Brass and Copper. LED illumination for all built up letters available. "LUMA" lettering is our speciality. Fabricated Aluminium and Stainless boxes to any shape also the option of LEDS available. Powdercoating and Wet spraying is another option for all our lettering.

## FABRICUT

### Unit 2 Browells Lane, Feltham, Middlesex, TW13 7EQ

Tel: 020 8751 7250  
mailus@fabricut.co.uk  
www.fabricut.co.uk  
Trade suppliers of 3D built up letters and logos. Full LED service available for Halo or Face illumination. Stove enameling available from BS, RAL and Pantone colours. Fast turnaround with competitive prices.

## I & N SIGNS LTD.

### Flat House Farm, Gilmorton, Leicestershire LE17 5NR

Tel: 0116 2478266  
sales@iandnsigns.com  
www.iandnsigns.com  
I & N are a small family business specialising in the manufacture of built-up stainless steel and aluminium lettering for the trade. All font styles catered for in flat face, rim and return, rimless, etc. Over 15 years letter building experience, artwork services and friendly advice. Services from build only, through to completed projects with LED illumination ready for install.

## ICE SIGNS

Tannery Works, 12 Whingate,  
Leeds LS12 3BL

Tel: 0113 2242124

sales@icesigns.co.uk

www.icesigns.co.uk

Manufacturers of Built Up - Flat Cut - Rim and Return Letters and Logos in Stainless Steel, Aluminium, Copper and Brass. We also fit neon tube or LED modules within the Letters for face or halo illumination.

## 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

In our fully equipped metal department we produce high quality built up letters/logos in aluminium, stainless, brass and copper. Supplied to the trade nationwide, at a very competitive price. We also manufacture boxes, post signs, gantry signs, frames and panels, which can be finished to your specifications. We have our own in-house neon department and can supply you with the complete sign service, ready for you to install.

## 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 flat cut lettering & logos in Acrylic Foamex, Dibond, Aluminium, Stainless steel & MDF. 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.

## SYGNET SIGNS LTD

129 Humberstone Rd, Leicester,  
LE5 3AP

Tel: 0116 262 6288

sales@sygnetsigns.com

www.sygnetsigns.com

Since 1974, Sygnet Signs has built-up a reputation for being the best in the business. A trade supplier of 3D Built-Up letters with a brushed, satin, mill or chemically-coloured finish, our aluminium is 1050 grade and we use 304 and 316 stainless steel. We also offer a wide variety of back trays and are LED illumination specialists. All work is undertaken in-house at our headquarters in Leicester.

## WATERJET SIGNS LTD

Continental Approach, Westwood  
Industrial Estate, Ramsgate Road,  
Margate, Kent CT9 4JG

Tel: 01843 225666

waterjetsigns@btconnect.com

www.waterjetsigns.co.uk

Specialise in manufacturing signs to the trade with over 40 years' experience in the signage industry. 3D Built up letters, Flat cut letters, Projecting Signs, Facia Signs, and Illuminated Light Boxes. All work undertaken in house. Competitive prices and prompt service.

## CABLE DISPLAY SYSTEMS

### E-SIGNFITTINGS HOBDAY LTD

57 Aston Brook Street East, Aston,  
Birmingham, B6 4RR

Tel: 0121 608 4431

sales@e-signfittings.co.uk

www.e-signfittings.co.uk

E-Signfittings are one of the largest suppliers of Cable & Rod Display Systems in the UK. We have large stocks available on next day delivery for orders received before 3pm. Other products in our range include Standoffs, Screw Head Covers, Poster Hanging Systems, Sign Hanging Systems, Leaflet Holders and Poster Displays. Visit our web site to check our current stock levels and fantastic prices.

### ISPI TRADE LTD

Unit 3.3 Strathclyde Business Park,  
19 Starling Way, Bellshill ML4 3PU

Tel: 0141 764 1600

sales@ispitrade.com

www.ispitrade.com

Cable display systems are simple yet highly flexible. Available in high quality solid brass with a polished chrome finish or satin finish aluminium. Cable systems can be used for modern retail shelving, displaying signage and LED window displays which are highly effective for shop fronts. We supply all parts individually or as simple to use complete kits. Need help? Use our new online chat.

### SHOPKIT GROUP LTD

Unit B, 100 Cecil Street, Watford,  
Hertfordshire WD24 5AD

Tel: 01923 818282

www.shopkit.com/brochures/

Shopkit manufacture versatile cable & rod display systems to support signage & graphics in our UK FACTORY, offering quality products at COMPETITIVE PRICES in different sizes & metal finishes, with an ONLINE SHOP with next day delivery & quick lead times on CUSTOM ITEMS. Products include sign hanging systems, banner systems, graphic & poster displays, poster & brochure holders & cable fixing kits.

## CAST SIGNS

### SIGNS OF THE TIMES LTD

Wingfield Road Tebworth, Beds,  
LU7 9QG

Tel: 01525 874 185

enquiries@sott.co.uk

www.sott.co.uk

Specialists in the manufacture of quality cast signs - mainly cast in polyurethane but also grp, bronze, brass and aluminium. All patterns are made by our in house pattern maker to your specification. A few millimetres up to several metres in size. Cast signs for town entrances, buildings, way finding fingerpost signs, blue plaques, street signs.

### 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

Plaques, Crests, Lettering. In aluminium and Bronze. From Pattern Making to Finishing in Stove Enamel. 60 Years of Experience.

## CHEMICAL ETCHING

### AES SIGNS LTD (EST. 1972)

The Old Laundry, 15 Barratt Street,  
Easton, Bristol BS5 6DE

Tel: 0117 951 0234

sales@aesigns.co.uk

www.aesigns.co.uk

The complete sign service. Engraved/etched screen printed, signs, nameplates, etc in all materials. Very competitive prices, excellent delivery, highest quality. Full design service. Prompt response to all enquiries.

### COUNTY ENGRAVERS & SIGNS LTD

Unit 5, Trent View Court, Moreland  
Street, Nottingham NG2 3FX

Tel: 0115 985 1171

sales@countyengravers-signs.co.uk

www.countyengravers-signs.co.uk

Fine detail etching of brass and stainless steel. Engraving of all types of plaques, plates, labels and control panels in a wide range of materials. Laser Engraving and Component Marking. Full colour printing from labels to wide format.

## DARTFORD ENGRAVING & SCREENPRINTING LTD

Unit 4 Power Works Industrial  
Estate, Slade green Road, Erith,  
Kent DA8 2HY

Tel: 01322 340 194

mail@desp.co.uk

www.desp.co.uk

DESP has been trading for over 55 years. Chemical Etching, Screen Printing, CNC engraving, Laser Engraving, Heavy Duty Machine engraving (ALL CARRIED OUT INHOUSE), including artwork. So whether its a 1 off or 1,000s off, we can offer a quick competitive turnaround.

## HALLMARK ENGRAVING ETCHING & SIGNS LTD (EST. 1899)

Unit 2, Ashgrove Farm, Piltown,  
Uckfield, East Sussex TN22 3XN

Tel: 020 8686 6649

sales@hallmarksigns.co.uk

www.hallmarksigns.co.uk

SUPERFAST and efficient trade service for ALL commercial and industrial etching, using the latest technology and computerised equipment. One-off urgent specials or long runs no problem. Full graphics and artwork service for logos, crests and designs. Specialists for commemorative plaques, company name plates and awards in all metals and plastics. Professionally designed-drawings supplied free.

### IMPACT ENGRAVING

23-23 Rabans Close, Aylesbury,  
Bucks, HP19 8RS

Tel: 01296 488902

Mob: 07957 870 756

andy@impactengraving.co.uk

www.impactengraving.co.uk

REAL Trade prices for chemical etching, brass and stainless steel a speciality. ULTRA FAST DELIVERY

### MERCURY & PHILLIPS SIGNS

51/59 Waterworks Road, Norwich  
NR2 4DA

Tel: 01603 66 66 99

www.mercuryphillipssigns.co.uk

Manufacturers of all types of plates or plaques, chemically etched (large format) or machine engraved using a variety of materials, brass, stainless steel, aluminium, copper and bronze. For high quality and intricate detail with colour infills to your choice.

### MULTITECHNIC LTD (EST. 1972)

Coopies Lane, Morpeth,  
Northumberland NE61 6JQ

Tel: 01670 512 090

sales@multitechnic.co.uk

www.multitechnic.co.uk

We are established specialists in chemical etching. WE ARE THE ONLY TRADE ONLY SIGN ETCHING SPECIALISTS IN THE UK. We can offer effects that nobody else can do such as complex blended colours. All our stainless steel is 316 marine grade, we don't use inferior grades & our brass is the best too. We want your business so will give you a fast turnaround & excellent service.

## SIGN INDUSTRIES

Unit 3, Roberts Street, Forfar,  
Angus, DD8 3DG

Tel: 01307 463997  
info@signindustries.com  
www.signindustries.com

SIGN INDUSTRIES are specialist TRADE MANUFACTURERS of etched Stainless Steel, Brass, and Bronze. We also Laser Engrave Plastics and Wood as stand alone products as well as moulds for castings. SIGN INDUSTRIES normally work with 3 mm thick material, and can etch bend and weld Stainless Steel up to 3 metres x 1.5 metres, and down to small sequential tags for wiring looms.

## TRADE ETCHING DIRECT LTD

10 Pywell Court, Pywell Road,  
Corby, Northants, NN17 5WA

Tel: 01536 203813  
sales@tradeetching.com  
www.tradeetching.com

Trade Etching Direct Ltd is a well-established chemical etching company specialising in high quality etched signage. Our work is 100% guaranteed. Our etching machines are specially designed for deep etching. We can offer gradient fills, a range of patina finishes and hand filled complex multi colours, on a wide range of metals. We can produce etched signs up to 4m x 2m in size.

## CHROME PLATED LETTERS

### SIGNTRADE LETTERS LTD

225 Long Lane, London N3 2RL

Tel: 08085 456700  
sales@signtrade.co.uk  
www.signtrade.co.uk

ChromaForm; the NEW generation of Chrome effect letters. We now offer a complete range of ChromaForm Letters for a 7 day turnaround not available anywhere else. We can also supply and fit LED lights to the ChromaForm range of letters for an even better effect. Ring Susan or Lesley for details and samples.

## CNC ROUTING & ENGRAVING MACHINES

### ATA ENGINEERING PROCESSES

ATA House, Unit B, Boundry Way,  
Hemel Hempstead, Herts HP2 7SS

Tel: 01442 264411  
sales@ataeng.com  
www.ataeng.com

The Atacama range of CNC routers and Lasers offers a wide variety of options from 3 axis machines and 4 axis Routers and Metal and Non Metal Cutting CNC Lasers.

## COAT OF ARMS

### BRYAN RAWLINGS DESIGN

45 Nunney Close, Keynsham,  
Bristol BS31 1XG

Tel: 0117 986 7894 / 7291  
bryan@bryanrawlings.com  
www.bryanrawlings.com

Designers and makers of coats of arms, emblems and all types of sculptural and decorative signage. GRP, cast resins, metals, detailed hand painting and much more. Large range of royal coats of arms available. Specialist suppliers to the sign trade.

### SIGNS OF THE TIMES LTD

Wingfield Road Tebworth, Beds,  
LU7 9QG

Tel: 01525 874 185  
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.

## 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

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.

## COMMEMORATIVE PLAQUES

### MERCURY & PHILLIPS SIGNS

51/59 Waterworks Rd. Norwich NR2  
4DA

Tel: 01603 666699  
sales@mercuryphillips.co.uk  
www.mercuryphillipssigns.co.uk  
Manufacturers of plaques in stainless steel, brass and aluminium, chemically or machine engraved, colour filled to your choice. Logos and text from artwork supplied.

## SIGN INDUSTRIES

Unit 3, Roberts Street, Forfar,  
Angus, DD8 3DG

Tel: 01307 463997  
info@signindustries.com  
www.signindustries.com

Sign Industries is one of the UK's leading sign making manufacturers, offering a broad range of memorial and commemorative plaques in many varying styles using the finest materials such as bronze, brass, stainless steel and wood. You can now create your own custom plaques and nameplates and order them directly from our website.

## SIGNS OF THE TIMES LTD

Wingfield Road Tebworth, Beds,  
LU7 9QG

Tel: 01525 874 185  
enquiries@sott.co.uk  
www.sott.co.uk

Cast blue plaques with detail in relief. Usually cast in solid rigid polyurethane and painted blue background with white, silver or gold letters. Send us artwork or copy of the text for a quote.

## 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

Wards of Bristol have produced countless cast metal commemorative blue plaques, but also specialise in traditional bronze plaques and custom 3D hand crafted plaques, which are hand painted to depict scenes of historical events, places and figures.

## CUT-OUT LETTERS

### 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 flat cut out letters, logos and intricate laser work. We offer lettering in a variety of materials such as acrylic, foamex, dibond, stainless steel, aluminium and MDF in different finishes, with or without fixings. Please contact our friendly team for more information and to request a free and unbranded product brochure. (3D built up lettering is also available).

## ICE SIGNS

Tannery Works, 12 Whingate,  
Leeds LS12 3BL

Tel: 0113 224 2124  
sales@icesigns.co.uk  
www.icesigns.co.uk

Manufacturers of flat cut letters in ALL materials. Incl. Acrylic, Foamex, MDF, Stainless Steel, Brass, Copper, Corian. Many finishes available- Gilding, painting, powdercoating, lacquering. A special service at a competitive price.

## MERCURY & PHILLIPS SIGNS

51-59 Waterworks Road, Norwich  
NR2 4DA.

Tel: 01603 666699  
sales@mercuryphillips.co.uk  
www.mercuryphillipssigns.co.uk  
A fully comprehensive service to the trade in acrylic, foam PVC, MDF, brass and aluminium. Contact us for price list or quotation.

## 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 flat cut lettering & logos in Acrylic Foamex, Dibond, Aluminium, Stainless steel & MDF. 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.

## SIGNTRADE LETTERS LTD

225 Long Lane, London N3 2RL

Tel: 08085 456700  
sales@signtrade.co.uk  
www.signtrade.co.uk

Plastic is our speciality including Flat Cut lettering in Perspex, foam pvc and aluminium composite. All supplied with locators and template as standard. We also offer a complete range of Moulded letters in Perspex and ChromaForm, offering over 60 years experience.

## SYGNET SIGNS LTD

129 Humberstone Rd, Leicester,  
LE5 3AP

Tel: 0116 262 6288  
sales@sygnetsigns.com  
www.sygnetsigns.com

Sygnel Signs is the sign-maker's sign-maker, having serviced the UK sign trade since 1974. We'll manufacture any type of sign and have a range of over 5000 styles to choose from. We'll also work closely with you if you'd like to supply your own plans or artwork. At our Leicester HQ, we manufacture router or laser-cut signs from acrylic, mdf, foamex, polycarb, dibond, aluminium or stainless steel.

## WATERJET SIGNS LTD

Continental Approach, Westwood  
Industrial Estate, Ramsgate Road,  
Margate, Kent CT9 4JG

Tel: 01843 225666  
www.waterjetsigns.co.uk

Specialise in manufacturing signs to the trade with over 40 years' experience in the signage industry. 3D Built up letters, Flat cut letters, Projecting Signs, Facia Signs, and Illuminated Light Boxes. All work undertaken in house. Competitive prices and prompt service.

## CUTTING MATS

### CUTTINGMATS XXL

Tel: 020 3936 1106  
info@cuttingmatsxxl.co.uk  
www.cuttingmatsxxl.co.uk  
CuttingmatsXXL specialises in transparent and flexible cutting mats to protect your work table. Nr1 table protection for all signage companies. Your blade will cut smoothly through your foil and with the 'self-healing' characteristic the surface will stay smooth. Our mats are also widely used on top of all brands of flatbed applicators like RollsRoller, Roll-X, Lamidesk, CWT and Rollover.

## DIGITAL PRINTED SIGNS

### AVENUE SIGNS LTD

216-222 Luton Road, Chatham,  
Kent ME4 5BS

Tel: 01634 841300  
info@avenuesigns.co.uk  
www.avenuesigns.co.uk  
Trade service for digital printing and laminating up to 1600mm wide. Printing onto vinyl, banner, canvas, paper, etc.

## DIGITAL PRINTER SUPPLIES

### ARTSYSTEMS

Units 10 – 12 Glaisdale Point  
, Glaisdale Parkway, Nottingham  
NG8 4GP

Tel: 0115 9380 380  
marketing@artsystems.co.uk  
www.artsystems.co.uk  
UK Trade Distributor for HP Designjet, HP Latex, HP UV printers, Colortrac scanners, Summa Cutters, and Onyx RIPs. ISO 9001, ISO14001 Certified HP and Canon consumables, Neschen media and our own large format media range called Xativa.

### MACTAC UK LTD

Room 232, Victory House, 400  
Pavilion Drive, Northampton  
Business Park, Northampton NN4  
7PA

Tel: 01604 644697  
www.mactacgraphics.eu  
Mactac is a global manufacturer of self-adhesive materials for wide-format digital printing (solvent, eco-solvent, latex & UV), with ICC profiles for the highest printed quality. Our innovative products help you to express your talents, across applications that include interior decoration, commercial architecture and visual communications – on buildings, windows, points of sale, vehicles & boats.

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### MEGALED LTD

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Specialist led lighting; lights, multi-channel DMX LED light controllers, system design and custom light programming is the norm at MegaLED! We offer a complete service and full range of custom DMX led driver cards, DMX splitters, DMX mains relays, led dimmers and more. If you have any led lighting projects requiring light control or dimming, please call: 0208 432 0995 for a brilliant solution.

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www.projectplastics.co.uk  
Manufacturing and stocking clear acrylic domes and dishes in over 25 sizes and all produced on site at our factory in Colchester. We also stock over 170 different size blowing rings for other shapes and weird and wonderful diameters. Pans, dishes, squares, oblong and ovals are our speciality.

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With 70 years of making Domes & Dishes, our Teedy Domes have set the standard. With our vast range of tooling we can make almost any size – so just ask. We are now the first to offer unbreakable Polycarbonate Domes.

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Sign Trade Supplies has a wide range of double sided tapes and adhesives designed specifically for the sign making industry. The Stykra branded products provide unrivalled performance at an excellent price point. Our range of tapes include Structural bonding tapes, Toffee Tape, Banner Hemming Tape, Single Sided Banner Tape, 1mm Foam Tape, POS tape, Hook & Loop Tape and many more.

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### KINGS PLASTICS LTD

The Signbuild Centre, Kelso House,  
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Edgelits are our speciality, we supply our tracks with integral or separate power supplies. Single colour or fully programmable RGB colour changing all up to 3m long. Panels CNC engraved and laser engraved. We supply three tracks the Reflex, Miniflex & Dualflex. For images and prices please visit our online shop or contact our experienced sales team.

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led@megaled.com  
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MegaLED are pioneers in edge lighting. Providing a professional LED illumination service and the most impressive range of 'designer' edge lit signs available anywhere. Specialist led lighting and display designs. Manufacturers of quality contemporary edge lit signs in both glass and acrylic. For award-winning led lighting, wayfinding, retail and architectural projects, call us on: 0208 432 0995

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The complete sign service Engraved / Etched & Screen Printed signs Nameplates etc. in all materials. Very competitive prices, excellent delivery, highest quality, full design service, prompt response to all enquires

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mail@alanrobertsengravers.co.uk  
www.alanrobertsengravers.co.uk  
Fast Confidential Engraving Service to the trade. We can provide plaques, nameplates, control panels, safety signs, switch plates, commemorative plaques with unveiling unit (on hire basis), bespoke signs and labels etc.

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Engravers of all types of plaques, plates, labels and control panels in a wide range of materials. Fine detail etching in brass and stainless steel. Industrial and Laser Engraving and Component Marking. Full colour printing from labels to wide format.

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www.desp.co.uk  
DESP has been trading for over 55 years. CNC engraving, Laser engraving, Heavy Duty machine engraving, Chemical etching, Screen Printing, (ALL CARRIED OUT INHOUSE), including artwork. So whether its a 1 off or 1,000 off, we can offer a quick competitive turnaround.

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sales@firstsignsandlabels.co.uk  
www.firstsignsandlabels.co.uk  
We manufacture and engrave nameplates, Labels, Tags, Switchplates, Mimics, Brass Plates, Components, Warning labels, Plaques, Logo's and Signs. We also produce printed fire & Safety Signs & Vinyl Graphics.

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Superfast and reliable trade service with 100 years experience for all etching, routing and profiling. Specialists for nameplate and commemorative plaques in bronze, brass, aluminium, stainless and plastics. Logos and crests. High quality graphics - drawings free of charge. Precision industrial engravers of panels, labels and moulds. Keytop specialist. Presentation silverware and glass engraving experts.

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REAL Trade prices for Engraving and chemical etching, rotary, diamond, laser and acid. Control panels, data plates etc. Stainless steel, Traffolyte, special laminates, brass, aluminium etc. ULTRA FAST DELIVERY !

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Manufacturers of all types of plates or plaques, machine engraved or chemically etched using a variety of materials, brass, stainless steel, aluminium, plastics and wood. For high quality and intricate detail with colour infills to your choice.

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Gofaso Software makes quoting fast and easy! Gofaso has been specialised for Sign companies, providing user-friendly calculation templates, workshop management, invoicing and customer relations upkeep. With module E-CRM you can make use of QR-codes on worksheets. Gofaso includes startling new tips and innovative techniques giving your company the strongest advantage.

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**SIGN & DIGITAL UK 2020**  
28-30 April, Birmingham, NEC  
www.signuk.com

With hundreds of exhibitors showcasing the industry's leading brands, products and services, Sign & Digital UK is the only place to see the latest developments from across the signage, print, display, decor and design sectors. Free-to-attend and with a whole host of NEW features, demos and content, SDUK returns in 2020 to its new home in Hall 1.

## FLAT CUT LETTERS

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Units 4, Broadcott Ind. Est., Station  
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Tel: 0121 561 4600  
accsign1@aol.com  
www.accentesignsltd.co.uk

Accent Signs have been supplying the sign trade with quality flat cut letters in Acrylic, ACM, Foam PVC, MDF and other substrates for over 30 years. Our letters are supplied with Plastic Locators, Brass Locators or VHB tape, complete with fixing templates or fixing stencils if required. Fast turnaround and confidentiality assured.

### 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 flat cut out letters, logos and intricate laser work. We offer lettering in a variety of materials such as acrylic, foamex, dibond, stainless steel, aluminium and MDF in different finishes, with or without fixings. Please contact our friendly team for more information and to request a free and unbranded product brochure. (3D built up lettering is also available).

### CENTRE SIGNS (UK) LTD

Alexander House, Liffle Avenue,  
Oadby, Leicester LE2 5LH

Tel: 0116 271 4247  
graphics@centresigns.co.uk  
www.centresigns.co.uk

Trade only supplier for all Flat cut lettering and Logo's. Available in Stainless steel, Aluminium, Alupanel, Dibond, Perspex, Foamex, Polycarbonate, Brass and all composite materials. Laser cutting and Router cutting services as standard. Painted finished are always available. We can supply with or without fixings and always with marked fitting templates. We also supply Builtup Metal lettering.

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Tel: 020 8751 7250  
mailus@fabricut.co.uk  
www.fabricut.co.uk

Trade suppliers of flat cut letters and logos etc with a 24 hr next day service available. Lots of materials to choose from: Foamex, Perspex, Composites, MDF, Ply, Aluminium, Polished/Brushed Stainless. Aluminium Composite trays signs folded, glued ready for you to hang. Plastic, brass & nickel locators, various studs & sleeves, 3M VHB tape, drilling templates also available.

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Tel: 08085 428021  
sales@sign-here.co.uk  
www.sign-here.co.uk  
Trade service for flat cut lettering & logos in Acrylic Foamex, Dibond, Aluminium, Stainless steel & MDF. 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.

## SYGNET SIGNS LTD

129 Humberstone Rd, Leicester,  
LE5 3AP

Tel: 0116 262 6288  
sales@sygnetesigns.com  
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Supplier to the trade since 1974, Sygnet Signs has a huge selection of over 5000 styles to choose from. You're very welcome to supply your own artwork, and we'll be happy to work with you to create the perfect Flat-Cut Lettered sign. Whether it's acrylic, foamex, mdf, polycarb, dibond, stainless steel or aluminium signage you require, we'll do you proud at our factory in city-centre Leicester!

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www.waterjetsigns.co.uk  
Specialise in manufacturing signs to the trade with over 40 years' experience in the signage industry. 3D Built up letters, Flat cut letters, Projecting Signs, Facia Signs, and Illuminated Light Boxes. All work undertaken in house. Competitive prices and prompt service.

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Tel: 01482 380900  
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www.browningsltd.co.uk  
Brownings is one of the largest, TRADE ONLY suppliers of signage products in the UK. The Company manufacture everything from poster frames to flexface signs. We can supply you lengths of extrusions, signs in kit form or make the whole sign for you. We utilise the Signcomp suite including Econoflex, Retroframe and Fascia Frame. All signs are to your individual, specific requirements.

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Welbeck Street South, Ashton-  
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Specialised installers of all flexible faced systems. Nationwide service. Illuminated or non-illuminated. We can supply and install. Call for details.

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For all types of sign. Individual flatcut & built up lettering, illuminated with LED's. Edgelit signs, Illuminated signs, Tray signs, Modular sign systems, Frames & panels, acrylic fabrication. LED's, LED Flexi neon & converters etc. Also material supplies cut to size & laser cutting. A complete service to the trade. For further information, check out our website & online shop.

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Mob: 07700 800 999

paul@blueprintsigns.co.uk

www.blueprintsigns.co.uk

Blueprint Signs & Garments offers a professional signage production and installation service throughout the Channel Islands, fully qualified crews based in Jersey completely cover all of the Channel Islands inclusive of Guernsey, Sark, Herm and Alderney.

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www.gess.uk.com

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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.

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graphics@centresigns.co.uk

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Tel: 08085 428021

sales@sign-here.co.uk

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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

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Tel: 0116 262 6288

sales@sygnetnsigns.com

www.sygnetnsigns.com

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Tel: 01926 884 433

info@gravograph.co.uk

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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!

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Tel: 0121 561 4600

accsign1@aol.com

www.accentssigns.co.uk

Accent signs "SLIMLITE" flat cut letters & logos made from 6mm opal acrylic with imbedded super bright white Led's 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.

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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

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sales@applelec.co.uk  
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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'll support you in choosing the right LEDs for your project whilst our after-sale technical support ensures you receive continued assistance.

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artillusltd@gmail.com  
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Our 12v or 24v Garnet super bright edge lit LED boards produce balanced lighting, shadow and hotspot free and will backlight any type of translucent material you care to imagine, such as thin cut stone, marble sheets, fabrics, vinyl etc. providing pure, unadulterated freedom for your creative mind to produce stunning wow factor lighting features for hotels, leisure centres, restaurants and homes.

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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 advice, 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.

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www.kingsplastics.co.uk  
White, warm white & coloured LED modules in 4 sizes and LED ribbon – Flexi ribbon & RGB ribbon. New our LED Flexi Neon in two different sizes & 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!

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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're 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.

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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.

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DIAMOND 12v and 24v edge lit LED light boxes can be produced in any size up to 3000 x 1500mm. These ultra slim light boxes at 20mm or 16mm deep have a 25mm snap frame front and rounded corners for added safety. Custom sizes in single or multiple units can be made in single colour white LED, Dynamic White or RGB. Frame colours include Polished Silver, Gloss or Matt Black and Silver anodised.

### BROWNING LTD

157 English Street, Hull, HU3 2BT  
Tel: 01482 380900  
sales@browningltd.co.uk  
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Brownings 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.

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www.anchor magnets.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  
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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.

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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, PVC FREE 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.

## 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.

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### ACCENT SIGNS LTD

Units 4, Broadcote Ind. Est., Station Rd., Cradley Heath B64 6NT

Tel: 0121 561 4600

accsign1@aol.com

www.accentssignsltd.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.

## 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

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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

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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

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Units 4, Broadcote Ind. Est., Station Rd., Cradley Heath B64 6NT

Tel: 0121 561 4600

accsign1@aol.com

www.accentssignsltd.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

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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.

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Tel: 0208 581 1067

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.

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### BRETT MARTIN PLASTIC SHEETS

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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 & Crylon 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

### DISPLAY DEVELOPMENTS LIMITED

Unit 4 Fordgate Business Park, Crabtree Manorway, North Belvedere, Kent DA17 6AS

Tel: 01322 444 400

sales@displaydevelopments.co.uk

www.displaydevelopments.co.uk

Display Developments began in 1956 and we have always strived to lead the field in providing first class service and consistently adding new and better products. We manufacture a wide range of display and Point of Sale products including snap frames, leaflet holders notice boards and menu displays etc.

## POSTER HOLDERS / CASES

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157 English Street, Hull, HU3 2BT

Tel: 01482 380900

sales@browningsltd.co.uk

www.browningsltd.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.

## PRINT/POSTER FRAMES

### BROWNINGS LTD

157 English Street, Hull, HU3 2BT  
Tel: 01482 380900  
sales@browningsltd.co.uk  
www.browningsltd.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.

## PROJECTING SIGNS

### IRON DESIGN

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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.

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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

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Tel: 01442 264411  
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www.ataeng.com  
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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

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mail@desp.co.uk  
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DESP has been trading for over 55 years. Screenprinting, anodic printing, correx boards, stickers, overlays, signs, chemical etching, engraving processes also covered (ALL CARRIED OUT INHOUSE), including artwork. So whether its a 1 off or 1,000s off, we can offer a quick competitive turnaround.

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sales@firstsignsandlabels.co.uk  
www.firstsignsandlabels.co.uk  
We specialise in high quality screen printing. We are suited to meet print requirements onto many substrates. We have finishing capabilities with die cutting and CNC routing. We offer a fast and efficient service, should you require 1 off's or larger run's give our team a call.

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Tel: 01383 824522  
info@htscreenprint.co.uk  
www.htscreenprint.co.uk  
Trade screen printing of garments, estate agency boards, pvc, vinyl, acrylics, metals, glass, wood, POS, anything flat. HT Screenprint have been in business for over 20 years, supplying the highest quality screen printing to the trade at very competitive prices. Our experience produces quality quickly!

## MERCURY & PHILLIPS SIGNS

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Tel: 01603 666699  
sales@mercuryphillips.co.uk  
www.mercuryphillipsigns.co.uk  
High quality screen printing to all types of rigid and flexible base materials ie. self-adhesive vinyl, paper, plastic and metal. From single to full colour and small or large runs.

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bryan@bryanrawlings.com  
www.bryanrawlings.com  
Designers and makers of coats of arms, emblems and all types of sculptural and decorative signage. GRP, cast resins, metals, detailed hand painting and much more. Large range of royal coats of arms available. Specialist suppliers to the sign trade.

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www.rightonblackburns.co.uk  
UK distributor of Polycasa Crylux Cast & Crylon 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 803580  
sales@teleganpressedproducts.com  
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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.

## TROTEC

9 Didcot Way, Boldon Business Park, Boldon Colliery, NE35 9PD  
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materials@troteclaser.co.uk  
www.troteclaser.co.uk  
Leading manufacturers of laser cutters and laser engravers, Trotec's broad range of flatbed, large format and galvo laser machines are available for demonstration in six dedicated showrooms across the UK and Ireland. In addition, Trotec's UK warehouse holds stock of thousands of rotary and engraving materials and accessories, available with next day delivery as standard.

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Unit 3, Delta Court (Robin Hood Airport), Auckley, Doncaster, DN9 3GN  
Tel: 01302 775920  
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www.visionsinplastics.co.uk  
Stocks of Mirrored Extruded Acrylic in clear, 19 colours, See-Thru, Two sided, Anti Scratch, Anti Fog, Mirrored Polycarbonate, Petg and Polystyrene. Non mirrored sheet in Acrylic, ABS, Polycarbonate, Polystyrene and PVC Foam.

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www.VeryDisplays.com  
Our aim is to set the benchmark for trade display solutions by providing innovative, high-quality products at the most competitive prices. Trust Very Displays to enhance your brand and exceed expectations, from a personalised service through to same day dispatch. Get in touch today to find out more about our comprehensive range of products.

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Tel: 01843 593 440

enquiries@fkmoore.com

www.fkmoore.com

British manufacturers of screw type Brass Locator Nuts, Wall Fixings and stockists of Nylon Locators for the Sign and Shopfitting Industries. As well as other shopfittings, we also manufacture Coverhead Screws, either Flat, Dome, Conical or Mushroom shape in various finishes, in addition to the famous "Moore's Super Clips" mirror fixings.

## SIGN POSTS & FIXINGS

### 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.

## SIGN SUPPORT SYSTEMS

### E-SIGNFITTINGS HOBDDAY LTD

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Tel: 0121 608 4431

sales@e-signfittings.co.uk

www.e-signfittings.co.uk

E-Signfittings are one of the largest suppliers of Sign Standoffs, Cable & Rod Display Systems in the UK. We have large stocks available on next day delivery for orders received before 3pm and are equipped to supply orders from a few pounds up to thousands of pounds. Products in our range include Screw Head Covers, Poster Hanging Systems, Sign Hanging Systems, Leaflet Holders and Poster Displays.

## ISPI TRADE LTD

Unit 3.3 Strathclyde Business Park, 19 Starling Way, Bellshill ML4 3PU

Tel: 0141 764 1600

sales@ispitrade.com

www.ispitrade.com

I-SPI Trade supplier of sign support systems. Our range includes wall mounts, cable & rod display systems, screw covers, LED lighting and much more all at THE REAL TRADE PRICE. Massive stocks and next day delivery. See our products on our web site or give Stephen or Sean a call for a brochure.

## SHOPKIT GROUP LTD

Unit B, 100 Cecil Street, Watford, Hertfordshire WD24 5AD

Tel: 01923 818282

www.shopkit.com/brochures/

Shopkit manufactures a wide range of sign support systems in our UK FACTORY, offering COMPETITIVE PRICES on quality products, working in different metal finishes with an ONLINE SHOP with next day delivery and quick lead times on CUSTOM ITEMS. Products include project fixings & sign standoffs, banner systems, rod signage supports & cable signage systems all for both interior & exterior use.

## SIGN SURVEYOR

### PB WILLIAMS SIGN SURVEYOR

48 Durley Rd, Aintree L9 9AW

Tel: 07885 486 182

achromesigns@yahoo.co.uk

We specialise in sign surveying to the trade, with 30 years of experience as a sign fitter/manufacturer. I was contracted to large companies in the north west, and country wide. I am based in Merseyside and have PASMA, IPAF/PAL & CSCS qualifications and will travel UK and Europe. For further details please contact the above number or email.

## SIGN TRADE SUPPLIERS

### APPLELEC

Unit 1, Wharfedale Business Park, Shetcliffe Lane, Bradford BD4 9RW

Tel: 01274 774477

sales@applelec.co.uk

www.applelec.co.uk

Highly confidential, trade only supplier to the sign industry. From metal flat cuts and built up letters to fascia, projecting and totem signs along with leading components such as our stocked SloanLED modules. Operating for over 20 years, our manufacturing facilities are constantly advancing to ensure we're always ready to help with your next project. Ask for our free unbranded product brochures.

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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. Any size or quantity, from 1 offs to multiple rollouts. We are happy to supply as lengths of extrusion, in kit form or as made-up signs.

## SIGN TRADE SUPPLIES LTD

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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.

## SYGNET SIGNS LTD

129 Humberstone Rd, Leicester, LE5 3AP

Tel: 0116 262 6288

sales@sygnetsigns.com

www.sygnetsigns.com

At Sygnet Signs, we've been creating bespoke and off-the-shelf signage for the trade since 1974. Whether you require Fascias, Built-Up or Flat-Cut Letters & Logos, Custom LED Illuminated Signs, our specialists will cut them using a laser or CNC router. We use the latest 3D/CAD development in the design and manufacturing processes, and all this happens on-site at our HQ in Leicester city centre.

## SNAP FRAMES

### SNAP-FRAMES.COM

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Snap frames are the clever front opening poster frames for the professional display for your promotional posters, signs, notices etc. Order online from huge stocks, for all sizes and styles including mitred corner, rounded corner, locking, tamper resist, freestanding, water-resist, coloured, wood effect, illuminated etc. Individually boxed and including anti-glare cover sheet, screws, wall plugs.

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### ATC LTD

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Tel: 01706 633043

sales@apptape.co.uk

www.apptape.co.uk

Suppliers of various speciality films including Etch glass, Reflective, Fluorescent, Reflexite daybrite, Reflexite prismatic reflective, Hi intensity reflective, Photoluminescent, Cast metallics, 2yr Fluorescent, Gemstone metallics, Multi lens, Transparent colours, Checker plate, Mirror colours, Prismatic colours, Glitter colours, Brushed aluminium silver and gold.

## MACTAC UK LTD

Room 232, Victory House, 400 Pavilion Drive, Northampton Business Park, Northampton NN4 7PA

Tel: 01604 644697

www.mactacgraphics.eu

Mactac is a global manufacturer of many different PVC, PET, PP and PE self-adhesive films. Specialities include etched films, fluorescents, phosphorescents, mirror films, rear projection films, erasable films and textured laminates – all designed to complement and enhance your creative talent.

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### SIGNS OF THE TIMES LTD

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Tel: 01525 874 185

enquiries@sott.co.uk

www.sott.co.uk

Street signs in a variety of materials. Cast polyurethane, aluminium and bronze. Die pressed street signs for council specification. For a quotation send us the text required on your signs and specify what material is required.

## TEXTILE SIGNAGE

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157 English Street, Hull, HU3 2BT

Tel: 01482 380900

sales@browningstld.co.uk

www.browningstld.co.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. Frames range from a 17mm "retro" extrusion to a 180mm deep double-sided application. The profiles can accept a digitally-printed image by way of a rubber keder attached to the edges of the print and can be changed in seconds.

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Southern England

Tel: 01865 863 669

Mob: 07906 177 276

signs@baileysigns.co.uk

www.baileysigns.co.uk

Bailey's signs is a specialist in the more traditional techniques of sign making such as Traditional Sign-writing & pictorial signs / Honours boards, Gold & silver leaf gilding on signs or glass / Restoration & Conservation area signs / Heraldic shield signs / Coach lining sign-work / Decorative Artwork / Mural / Fresco / Fine art / Portraiture / Picture & Mirror frame gilt work / Pub signs.

## TRANSFER PAPERS/HEAT PRESSES

### THE MAGIC TOUCH

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Boscombe Road, Dunstable LU5  
4SB

Tel: 01582 671 444

sales@themagictouch.co.uk

www.themagictouch.co.uk

Manufacturers of Transfer Papers and Materials used in conjunction with Laser Printers and Copiers (toner based) for full colour image transfer onto T-Shirts, Caps, Polo's, Mugs, Mousemats etc. Plus Magicut® film for use with Plotter/Cutter for heat transfer.

## TROUGH LIGHTING

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157 English Street, Hull, HU3 2BT

Tel: 01482 380900

sales@browningsltd.co.uk

www.browningsltd.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 troughlight comes complete with a high impact, hinged polycarbonate face. We supply in any size, colour or quantity.

## VINYL & GRAPHIC INSTALLATIONS

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Tel: 0161 8 300 600

info@midasignservices.co.uk

www.midasignservices.co.uk

Specialist applicators of all types of vinyl and graphics. Vehicle application, Windows, Wall & Floor graphics etc. Fleet specialists. Nationwide service.

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Berkshire. RG12 8HT

Tel: 01344 858 000

ukcommercialgraphics@mmm.com

www.3M.co.uk/graphicsolutions

3M graphics™ offer a wide range of applications to decorate, advertise or protect your spaces, supported by a choice of warranties for your peace of mind.

### APA (UK) LTD

Unit 10 Capital Ind. Est., Crabtree  
Manorway South, Belvedere, Kent,  
DA17 6BJ

Tel: 020 8311 4400

apauk@apaspa.com

www.apaspa.com

One of Europe's main vinyl manufacturing companies supplying own brand self-adhesive plotter vinyl and Digital Print media. Plotter vinyls from short-term up to 10 years including Truck, Cast, Vehicle Wrapping, Frost-effect, Solar, Reflective and an extensive range of Print material for UV, Solvent and Dye/Pigment inks, all application aids are available.

### ATC LTD

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Estate, 2 Buckley Road, Rochdale,  
Lancashire OL12 9EF

Tel: 01706 633043

sales@apptape.co.uk

www.apptape.co.uk

Distributors of Ritrama UK's full range of signmaking vinyls including their complete portfolio of Digital Films. We also have available a full range of signmaking vinyls manufactured in the UK by KPMF. We stock a range of application tapes from R Tape USA and various Digital Media manufactured by LG Hausys. Discounts available on credit card payments.

### AVERY DENNISON

Nelson Way, Cramlington, NE23  
1JR

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