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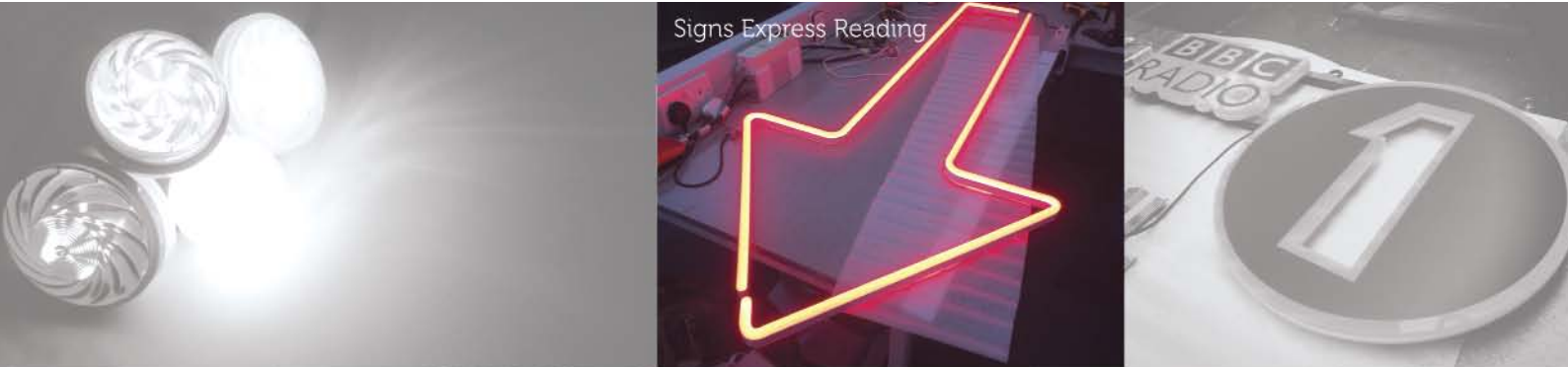
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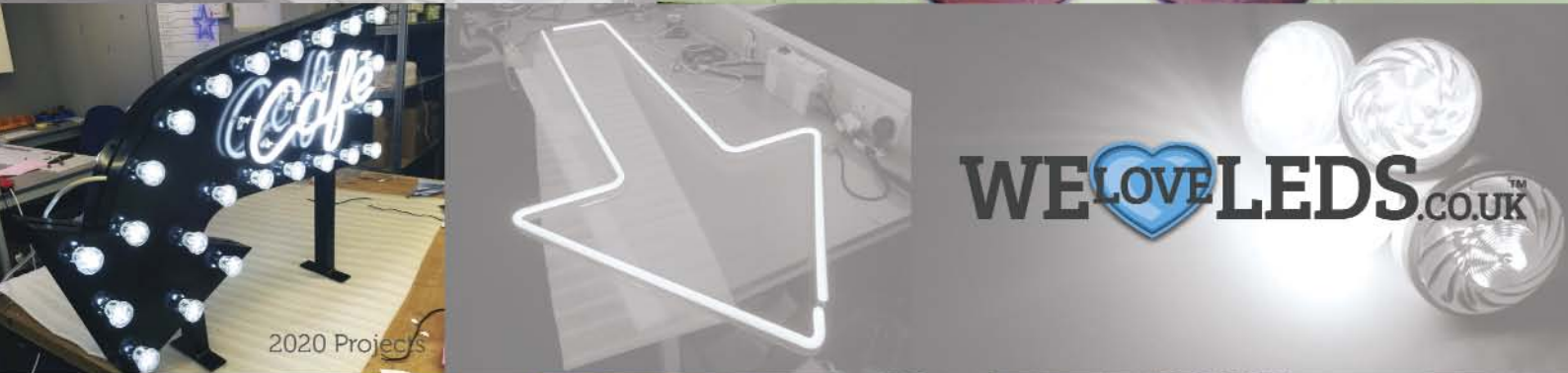
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Looking ahead

You're in for a treat with this issue, which is bursting with practical advice, troubleshooting, inspiration and loads of new products. If you have a CNC router, or are considering investing in one, don't miss the Routing and Engraving feature. It highlights what to look for when choosing a CNC machine, and how to look after it to get the most out of it.

And speaking of getting the most out of anything, our Education and Training feature looks at what courses are available to give you the edge in your work and with your business. Competition is fierce out there, and with so many new products coming out, it's worthwhile developing and enhancing your skills and knowledge.

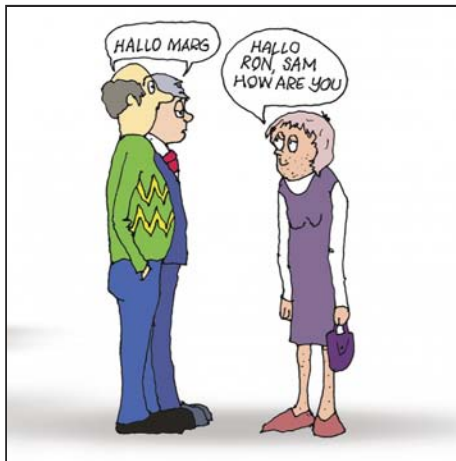
Something else to learn about, is how one business became trade only and 10 years on, Multitechnic explain why it was the best decision for them. In Project News we feature a story unlike we've seen before, where a van was covered in rust effect vinyl to make it look as though the paint had rusted. The results are amazing, and it goes to show what can be done creatively with wrapping, which has become a bit of an art form.

We always like hearing about the charitable work some companies take part in, and Xaar is no exception. As they celebrate 25 years, these 'world leaders' in inkjet printheads tell us about the three charities they are committed to helping with various fundraising activities.

As always we'd love to hear from you about your projects and opinions on the industry, so get in touch either by email, or on social media. We're on Twitter, Pinterest and Facebook, which can be a great source of stimulation and humour (sometimes!)

Till the next time...

Kathryn



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New LED edge lighting system for projecting signs and lightboxes

The new system from Bright Green Technology is a development of the existing Bright Green Beam edge lighting system. It comes as a fully encapsulated, IP65 rated module, making it more robust and suitable for outdoor use. This new LED system complements Bright Green's existing range of lighting solutions for signage.

Based on a state of the art design Bright Green Beam™ ensures uniform lighting without the stripes associated with fluorescent tubes. This is made possible by the specially designed lensed LEDs that redirect otherwise wasted light towards the lit surface, ensuring maximum brightness.

Bright Green Beam™ is ideal for illuminating single and double sided projecting signs and lightboxes with depths greater

than 50mm. Using LEDs specified and optimised for close binning, high lumen efficiency and lumen maintenance; it's the most effective, energy efficient way to light mid-sized boxes, according to the company.

Bright Green Beam™ is available as either a one or three LED module to allow design flexibility and as an option of constant current or constant voltage. Available in Cool White (5700, 6500K), Neutral White (4000K) and Warm White (3100K) Bright Green Beam™ is a "no maintenance, low power system that delivers energy savings of up to 88 per cent compared with fluorescent tubes".



Bright Green Beam™ LED system.

New wall covering solutions from ADS

Amari Digital Supplies (ADS) who stock and distribute signage and graphics materials from MACTac, has added three new self-adhesive wall covering films to the IMAGin series; and two new films to the Decart series.

Additions to the IMAGin series comprise the WW100/101, WW200 and WW300 films that can be printed using the most popular ink technologies, and have Class 0 FR fire-resistant ratings.

WW100 is a highly conformable gloss white three-year interior/exterior laminated PVC film. It can be applied without lifting at the edges direct to brick walls and similar concrete surfaces. The film can also benefit from additional surface protection through use of a choice of compatible over-laminates. The WW101 version of the film allows the natural colours of the underlying substrate to be seen.

The semi-rigid 150-micron one-year WW200 film has a removable adhesive that enables it to be easily applied to, and purposely removed from, smooth flat surfaces. Designed for application to more difficult surfaces (such as Latex-painted walls), WW300 is a four-year white matte film that is "ideal" for medium-term interior/exterior décor applications. When used with the anti-slip PF600 over-laminate, the film can be effectively used for commercial-grade floor/carpet graphics applications.

Additions to the MACTac Decart range include the vinyl-based DecoMural and the canvas-based DecoCanvas options. Both films can be used for a wide range of interior commercial applications, such as hotels, retail outlets, conference suites and building reception areas. DecoCanvas also being ideal for fine art reproductions in addition to professional décor applications, according to the company.



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- Easy application thanks to the "FTX System" adhesive featuring micro-channels



CMA ColorCloud delivers precision accuracy and drives down costs

Simplifying print performance and cost savings are being addressed successfully with CMA ColorCloud, designed to be a cloud-based colour management solution for production businesses of all sizes. This "cost-saving and easy-to-use" tool enables users to deliver precision accuracy across all output devices and materials. This ensures stability and consistency; and generating correct results across all digital platforms, computer monitors and, even, smartphones and tablets says the company.

Developed by colour specialist CMA Imaging it's designed to be used with a measurement device via a standard web browser. Requiring no hardware or software, nor any maintenance downtime or costs, it utilises a set of patented management algorithms. These ensure accuracy of colour throughout both proofing and printing, with calculations that ensure the right relationship within the CMYK model; correct grey balance; and a resulting reduction in ink or toner usage.

"The colour related problems encountered by users reliant on consistency and accuracy are becoming more prominent now that short turnaround times are essential to maintain machine uptime and optimise margins," says Gerardo Cerros, Chief Technology Officer at CMA Imaging.

"With CMA ColorCloud it's easy to print identical colours across a series of different materials and surface types. This is essential with today's brand colour matching requirements as well as being desirable in everyday use because of the ink savings that are generated."

CMA Imaging has based its ColorCloud concept on the challenges that have resulted from the growth in precision colour throughout digital job generation, proofing and printing. And by understanding the needs of today's print service providers and display specialists.

www.cmaimaging.com



Spandex launches new Avery Dennison MPI 1104 Wrap Films Series

Spandex has announced the availability of the new Avery Dennison MPI 1104 Cast Series. The launch is accompanied by a Spandex industry bundle offer.

The new Avery Dennison MPI 1104 films deliver "outstanding printability" and image quality with up to seven years' durability. As part of the new generation cast films they cope easily with 3D challenges, making them "ideal" for vehicle wrapping, vehicle graphics and other interior and exterior applications.



The range is compatible with latex, UV, solvent and eco-solvent inkjet printers and offers gloss and matt options with grey adhesive system for improved opacity. Its conformability means customers don't need any additional installation techniques such as primer or incisions. The Easy Apply feature allows for "fast application and premium end" results across a wide range of indoor and outdoor application.

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Trotec Laser launch new engraving materials range

Trotec Laser have acquired ILC, the "expert" for laminated plastics, and say they now offer a full range of consumables. Trotec has worked with ILC, who have a lot of experience producing plastics and laminates, for a number of years.

Following extensive independent trials, customer feedback showed a need for reduced residue (produced during engraving), non-sticky edging when laser-cut, and the necessity for fewer passes when engraving. This significant reduction to the finishing process provides "fast, superior engraving, requiring fewer labour costs, saving customers valuable time and money".

In order to provide a next day delivery service for customers in the UK, the range is housed in an extensive warehouse, located in Washington Tyne and Wear supported by a central European warehouse in Austria.

With ILC part of the Trotec group, they can focus on offering a "complete solution to meet the needs of laser users around the globe". From laser systems to an extensive range of engraving materials, complemented by a full cut to size service, as well as expert

after sales service and support.

The new materials catalogue can be downloaded via:
www.engraving-supplies.co.uk
www.troteclaser.co.uk.



Dye-sublimation printing on a range of substrates

Epson is unveiling two new dye-sublimation printers to help users "reliably and cost-effectively" produce superior-quality textiles and promotional goods. Part of a complete Epson package, the SC-F7200 and SC-F6200 printers are backed up with warranty and service support. This they say allows textile producers, photographic studios and promotional product companies to benefit from Epson's high-quality output with peace of mind.

Both models include a number of ways to help customers keep their costs low.

These new models enhance Epson's dye-sublimation line-up by offering customers the chance to expand their production capabilities. Both the SC-F7200 and SC-F6200 are capable of producing high-quality printed textiles, such as clothing, sportswear and home textiles. And also offer the flexibility needed to sublimate onto a range of hard substrates. Ideal for companies producing promotional goods, the printer can be used to sublimate onto tailored goods, including mugs and phone and tablet covers.



The Epson SureColor SC-F7200.

Martin Johns, product manager, Epson UK said: "With these two models, we have utilised the latest Epson engineering advancements to deliver two new dye-sublimation printers to our customers. With its new and enhanced capabilities, the SC-F6200 opens up many new possibilities in the photographic market for printing photos on to substrates such as metal and wood. Alongside this, the SC-F7200 has been exclusively created and developed to help the roll-to-roll textile market create outstanding results."

Both printers utilise Epson's Precision-Core TFP printhead to produce "outstanding, accurate prints with superb colours and clarity". These work in tandem with the

UltraChrome DS ink-set to help users achieve the best-possible results. A new HDK Black ink has been created primarily for textile printing, to help produce deep, neutral blacks and dense shadows. Users printing on rigid substrates will benefit from the standard black ink, as it produces smooth gradations, which is perfect for the creation of promotional goods, according to Epson.

Dye-sublimation customers purchasing these products will benefit from a complete printing package. The hardware, software, printhead, ink and sublimation papers have been made and supported by one manufacturer to make sure everything works together "seamlessly". The printers also come bundled with Wasatch software, meaning users are ready to start printing straight away.

Both products come with a one-year warranty as standard. If customers wish to extend their cover, Epson CoverPlus warranty options are also available, including their rolling one-year warranty that allows customers to pay for a year at a time, rather than paying for a long term upfront.

Both models include a number of ways to help customers keep their costs low. High-capacity ink systems mean a low printing cost per square metre. While the use of Epson's genuine inks ensures less cleaning and fewer printhead replacements are needed to help reduce possible downtime. Disposing of waste ink is easier and more cost-effective as both printers include a two-litre bottle to collect wastage. Both products are also available with Epson's managed print service programme, which allows tighter budget control and helps reduce overstocking.



The Epson SureColor SC-F6200.

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Show me the way

Directory and wayfinding signs make it easy to direct people around large premises, but can be difficult and expensive for the end-user to manage. Display Signs in Uxbridge thinks it has the answer.

The company has developed a "highly systemised" approach to design, manufacture and deploying directory and wayfinding signs, which the company believes will greatly simplify life for the end-users. They have called it Indicia.



The Indicia system was piloted in the care and assisted living sector, where high standards of legibility and consistency are crucial.

They initially piloted the system at the care and assisted living sector. This market requires high standards of legibility and consistency across every element in the signing programme. Deployment, updates and repairs need to be easy to manage too.

The Indicia system delivers all these objectives, says Display Signs. Rather than rely on a heavily engineered sign system of extruded aluminium profiles, plates, inserts and other parts contributing to a high component count, cost and complexity; Indicia is centred on single plates of attractive, rigid materials, typically secured to the wall, door or other surface with simple stand-off mountings. Other fixing systems are easily accommodated.

Each plate used can feature a single message element or a design comprising several visual elements. Layout is determined as a consequence of the needs of the overall design and the messages it needs to communicate. It's not dictated by the rigid requirements of a component-based system's construction, says the company.

They say that Indicia is simple enough for anyone to install. Plates can be secured by simple stand-off mounts as easily as hanging a picture on a wall. The result is secure and permanent to the extent it resists casual efforts to remove it.

Everything that ever is or will be printed or designed for the Indicia system is archived at Display Signs. Repeat orders, or orders involving new data are easily



The system is easy to install.

referenced to original designs. Rather than replace a single message element, the whole single plate is inexpensively replaced so keeping the colour fidelity and overall feel of the design intact. Signs are made using a Tekcel router and an industrial Hewlett Packard printer.

Display Signs supplies the Indicia system direct to end users but is also interested in trade enquiries.

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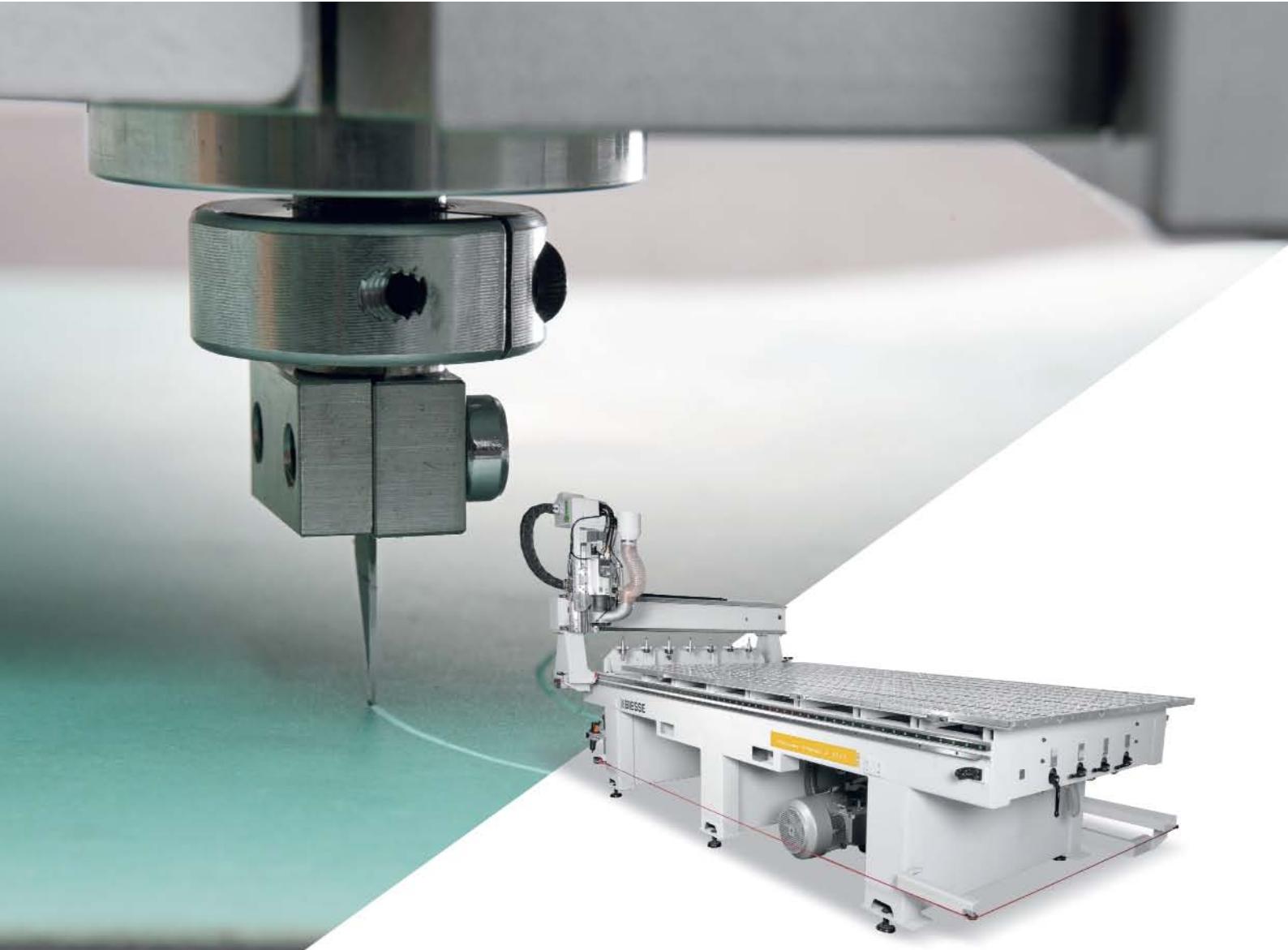
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 **BIESSE**

Innotech unveils new TEXstyle range for wide format printers

Innotech continues to go from strength to strength, says the company, after the successful launch of their new visual identity. The latest addition to their already extensive inkjet media range is a new selection of textile materials for the wide format print market.

An Innotech spokesperson said: "The demand for these fabrics is constantly increasing as more and more of our customers are diversifying into soft signage. They are looking for more options in terms of stockists and access to these products on the shelf in the UK for immediate delivery, and we saw ourselves as completely suited to fulfil these demands."

The Innotech TEXstyle range is split into two categories; the TEXstyle Classic range, and the TEXstyle Premium range. The Classic series is a core range of popular textiles for everyday use. While the Premium series is more suited to the "demanding" buyer who is looking for textiles that meet the



TEXstyle Classic Series.

most exacting standards in terms of print quality, specification and longevity. There are solutions available for both direct print and dye sublimation up to 5m wide. Each media in the TEXstyle range comes with the

added benefits of being PVC free, lightweight, crease free, and easy to transport and store.

sales@innotechdigital.com

PROPUTTY

MULTIFIX PROPUTTY from Eurobond Adhesives Ltd is a "fast curing, hard wearing" repair putty that can be used to fill and repair holes, cracks or dents in most materials such as metals, plastics, fibreglass, Dibond, wood, concrete and stone in just a few minutes.

If you've drilled a hole in the wrong place, you can fill it with PROPUTTY, says the company. If you've damaged the edge of a sign, fill with PROPUTTY and sand it smooth. It is simple to use and is a great "get out of jail card" tool to have in your toolbox or store for those unexpected situations. To use you cut off a piece of putty to suit your application, then roll or knead the material in the palm of your hand until the material is an even dark grey colour. Then press it into place, smooth off the edges with a blade or finger and wait for 10 minutes before sanding. PROPUTTY can be drilled or tapped after one hour. It can even be used in wet condition or underwater.



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WoW 7.8 Transfer Paper

TheMagicTouch have launched the new 7.8 version of the award winning WoW transfer paper. It offers improved processing and increased printable product options. Used with the TMT/Oki C711WT LED printer, WoW7.8 creates a "real marketing opportunity" for those involved in garment and promotional product decoration.



The papers, used with the TMT/Oki C711WT LED printer, creates a "real marketing opportunity".

This unique product offers the user the ability to print full colour to almost any fabric or garment regardless of colour or textile composition. This includes cotton, polyester, denim, nylon, soft-shell, polypongee and most performance fabrics. The process eliminates any "cutting or weeding" requirements and produces detailed designs quickly and economically, says the company. Each printer is installed with the new Space-Control V3 RIP that enables full management and control on colours.

The new version is available in both the A4 and A4XL sizes offering single designs up to 420mm in length, with the ability to also produce full colour multiple logos per sheet for as little as 20p per transfer, subject to size.

This affordable white-toner innovation also produces great opacity and a very high "white" factor for non-fabric hard surface applications using the existing CPM transfer paper. These include dark colour mugs, diaries, leather, wood, glass, board, PU surfaces and metals.

With over three years' experience using white-toner technology, and over 6000 users in Europe, TheMagicTouch has "proved the best no risk option at less than £2000 for those looking to decorate dark garments and promotional products".

"We supply the printer with an added value beyond the factory standard" says Jim Nicol Managing Director of TheMagicTouch in the UK.



WoW 7.8 transfer paper makes it possible to print on almost any fabric or garment.

"This year we celebrate 25 years of TheMagicTouch and continue to focus on image transfer innovations that are affordable, user friendly and offer the widest printable product range possible. Our continual commitment to R&D enables us to plan the next 25 years with even more vigor and determination."

www.themagictouch.co.uk

Drytac launches versatile SureTac mounting adhesive for external applications

Drytac Europe, who make self-adhesive materials for the print, label and industrial markets, has announced a versatile new mounting adhesive for outdoor applications, branded SureTac.

SureTac is a 23µ clear polyester mounting film coated on both sides with a pressure-sensitive solvent acrylic adhesive. SureTac is incredibly versatile and bonds extremely well to a wide variety of substrates, says the company.

Steve Broad, Sales Director for Drytac Europe, said: "SureTac has been developed as a double-sided mount film for external use. It has a high tack, high peel-strength ad-

hesive that is UV stable, water resistant and will adhere to most common surfaces used in the graphics industry.

"Drytac is renowned within the industry for making a stable water-based mount film for the indoor photographic market. We have now built on this expertise and developed a solution for the outdoor graphics market, to offer our customers a great option for the often more challenging external graphics applications."

www.antaldis.co.uk
www.drytac.co.uk



SureTac mounting film is coated on both sides.

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New wallpaper and surface design collection

PressOn has launched a new creative partnership with the South African designer and photographer, Robin Sprong. PressOn will manufacture and distribute the Robin Sprong Wallpaper and Surface Design collection in the UK.

The collaboration with Robin Sprong Wallpapers will combine "highly innovative" designs for wallpaper, wall murals and surface design with "cutting edge" digital print solutions provided by PressOn.

The collection will include commercial wallpapers, fabric prints and surface design concepts for the interior decoration market. The UK collection will target interior designers, architects and retail designers, working in residential, commercial and retail settings.

After much research, PressOn sees the interiors market as having huge growth potential for large format printers and began dis-

We have been printing wallpaper for clients for many years from their own artwork

cussions with Robin Sprong after meeting at the Heimtextil show in Germany, 2015.

Design input for the new wallpaper collections includes work from a variety of designers, photographers, artists and illustrators from all over the world. The collection also includes reproductions of the works of renowned artist Vladimir Tretchikoff, who is recognised as one of the world's most commercially successful artists of all time.



PressOn has worked with Robin Sprong to create their new range of wallpapers.

For customers in the UK, this partnership means that in addition to the designer's collections at RSW, producing custom photographic wall murals and installation for clients is possible. Elements of some of the wallpaper designs can be customised to suit individual requirements, adding a further dimension to the range. Through PressOn these designs can also be continued onto flooring, glass, metal, wood and fabrics.

Nigel Webster, MD of PressOn, said: "We have been printing wallpaper for clients for many years from their own artwork. Working with Robin Sprong we can offer new clients in the UK something different; fantastic designs that are beautifully printed. We think the interior market has huge potential for PressOn over the next few years and we're thrilled to have struck this deal with Robin Sprong."

presson.co.uk



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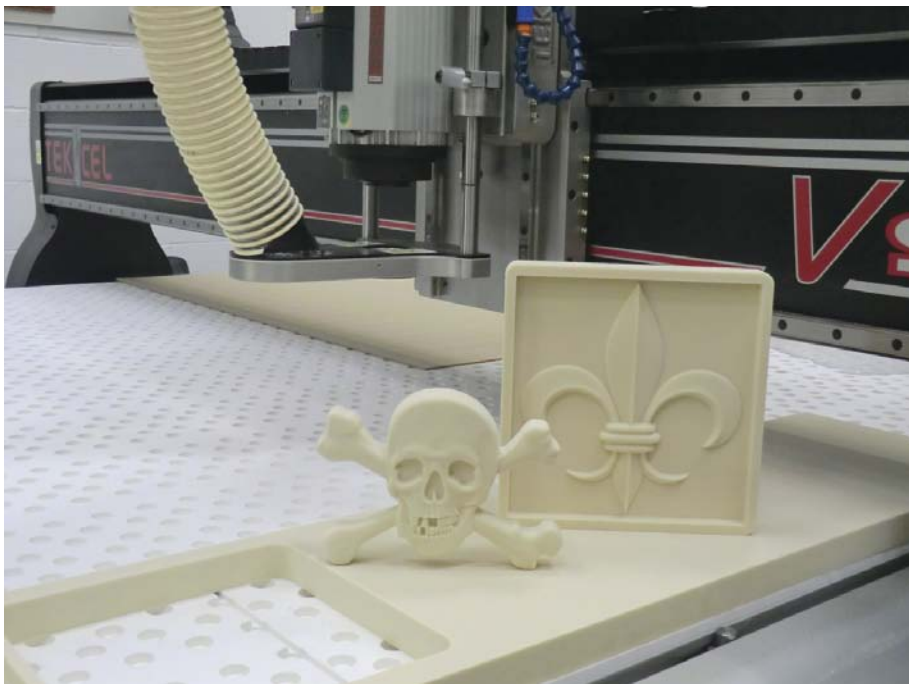
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SIGNBLOCK for built up letters

When producing built up letters, there are many different materials available such as wood, metal, plastic and foam. All of these have their place, but according to Indasol, they all come with limitations. These could be cost, weight, exterior durability or shape design. Indasol claim that with their SIGNBLOCK, the "skies the limit"!

SIGNBLOCK is a solid, lightweight yet durable Heavy duty Urethane Foam (HDU). It has a consistent structure throughout unlike other foams. It is light weight unlike wood/metal and once coated to your desired finish, it is extremely durable and resilient to the external elements.

SIGNBLOCK really is a revolutionary product and INDASOL offer all bonding, fixing and sealing products to help you create that striking image



With it you can create 3D images and shapes using CAD and CNC technology or sand blasting or even hand carving. Your customers can have unique designs and shapes that they "actually want".

SIGNBLOCK can be front face and back lit offering a near neon appearance. And once painted SIGN-BLOCK can be made to look like metal, wood, stone or plastic. It has the added benefit of being easily repeatable on a CNC programme; as well as its key feature of being "extremely" lightweight which offers a health and safety benefit on larger installations.

Supplied in 1M x 2M sheets, they can offer a range of thickness from as thin as 5mm through to any thickness up to 1M. Densities range from very low right through to almost granite hardness. "SIGNBLOCK really is a revolutionary product and INDASOL offer all bonding, fixing and sealing products to help you create that striking image," says the company.

enquiry@indasol.co.uk



The Window Film Company seals deal for use of MissPrint designs

An exclusive partnership between The Window Film Company and the design house MissPrint, brings six of the company's iconic designs onto window film for the first time. The designs; Ditto, Little Trees, Muscat, Saplings, Ditsy Dandelion and Figs are printed and cut to order at The Window Film Company's in-house print and design studio.

The Window Film Company's Managing Director, Micky Calcott, says: "We've been aware of MissPrint for some time and are delighted to be able to offer six of their stylish designs on our window film. By making the range available in white print or cut from frost, we're offering our clients a choice of finishes.

In turn allowing them to meet the specific aesthetic need of their premises or project. The contemporary nature of the designs means they lend themselves to use in residential and retail environments. In addition to a great take up from our DIY customers, they are also proving popular with architects and trade clients."

The first six designs are available to order from The Window Film Company's website. They have already attracted so much attention that a new set of designs are already being developed.

MissPrint specialise in developing contemporary designs for interior products. Its work is heavily influenced by nature and also



All our designs are hand drawn and if you look carefully you will see that all the elements in the design block are different



carries themes and ideas from mid-century and Scandinavian design that are simple, clean and lean heavily on organic forms. MissPrint's designs are popular with interior designers and they have developed a series of exclusive designs for bed linen, floor coverings and kitchen ware for John Lewis.

Founder Yvonne Drury said; "We were initially approached by The Window Film Company because they liked our designs

and felt that they would work well on film. The transition of the designs from fabrics and wall coverings to this new medium has actually been quite easy, we just had to concentrate very carefully on scale and layout.

"All our designs are hand drawn and if you look carefully you will see that all the elements in the design block are different. I think it is this illustrative quality and the attention to detail that makes them so special."

www.windowfilmcompany.co.uk

Caldera continues commitment to V10 in latest update

Version 10 of Caldera's flagship printer control suite has been upgraded for all current licence-holders. It features productivity markers; speed improvements; and improved language support for international users. Drivers have also been developed for a number of new printers and cutters, building on Caldera's reputation as the "go-to" software internationally for the imaging of wide-format graphics. The V10.1 update is available for free to all current Version 10 holders.

Users can now add extra print-to-cut marks from within VisualRIP and GrandRIP at the stage of finalising the job, carrying these indicators over between repeated or nested documents. Not only does this pro-

vide improved accuracy, especially for textile and digital signage work, but it also optimises media space by eliminating the need for cut markers on borders. This option is fully supported by many industry standard cutters, such as the Zünd, Protek and Summa brands.

Popular features also receive improvements, with support for the Kala XY trimmer newly available to Trim-O-Matik licence holders. Nest-O-Matik allows users to change the automated naming of files. This is reflected in Nexio, Caldera's JDF-JMF connector module, which sees a 'GangName' field added for clustered jobs and is fully compatible with these amendments.

"Our landmark Version 10 is establishing itself firmly as the product to beat worldwide and we continue to receive feedback from our various customer contact channels," says Frédéric Soulier, Chief Technology Officer.

"We will continue to augment Caldera across the board with incremental upgrades as we find new ways to improve speed, functionality and performance for our users."



SPECIAL report

10 years of trade only

In 2005 Multitechnic Ltd took the final steps towards being trade-only suppliers to the sign trade.

It was a "bold" move as non-trade work was still nearly a third of their turnover. But having supplied the sign trade for a long time, they realised that to give the level of service the sign trade required they would have to focus on nothing else.

The company has been around since the early 1970s and mainly been about chemical etching. Originally manufacturing framed copper pictures, which were popular across the UK, they diversified into a wider range such as business gifts to brass beer pump badges. In the eighties, the etched copper pictures passed into history and the company turned towards ever more technical and creative etching. Alongside cutting-edge deep etching research for other etching companies, Multitechnic also developed their decorative skills for higher contrast images, colours that blended. And surface finishing techniques to combine satin and polished designs on the same surface.

Signs had been a very small part of the business almost since the beginning but became more so with digital desktop technology in the late 1980s. Multitechnic were quick to realise the future potential of digital

artwork creation, and introduced an Apple Macintosh II into their design department at an early stage. This machine, upgraded to a mighty 40mb of memory was the forerunner to all of the desktop design we see today.

Professional graphic designers were quick to make use of the new creative techniques and this is what ultimately led to Multitechnic becoming a key supplier to the sign trade. Company logos started to become more complex; and with the introduction of digital printing, designers could make use of colour in a much more creative way. Before, chemical etching had just been an expensive way to make plain signs that could be made more cheaply by engraving into aluminium or plastics. With new complex typefaces and designs, old fashioned engraving was left behind and chemical etching was recognised as the way to translate these designs onto high quality metal signs.

As the century drew to a close, everything was coming together for Multitechnic to make sign manufacture the main focus of the company. The creative techniques they had developed allowed sign companies to offer colour blends; and bimetallic effects such as logos containing both satin and polished detail on a flat plate.

Supplying the sign trade was seen as

the way forward, and Multitechnic was already hosting training weekends for sign-trade customers to learn about the new creative products that they could offer. The decision was taken to scale down other production; not just to make room for more sign work, but also to allow it to take priority in the production schedules.

By 2004 sign trade work constituted the bulk of production, and it was the other work that was getting in the way of sign manufacture, rather than the other way round. To offer the sort of rapid service that the sign-trade demands, they decided to become trade-only sign manufacturers.

10 years later it certainly looks like the right decision was made, according to the company. Multitechnic have an "enviable reputation" for customer service, and have reduced their average turnaround time to less than two days. And that they say includes larger projects as well as the easier one-off signs. To provide that level of service requires "total dedication" to sign trade customers, and a production team who are finely tuned to the needs of the sign trade. Mixing in other products or competing with their own core customers by supplying end-users directly is totally incompatible with Multitechnic's values, says the company.



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ROUTING & ENGRAVING

Making your mark

Kathryn Johnson speaks to the industry leaders in routing and engraving about choosing the right machine; looking after them; tooling; and how to get the best from your investment.

Complete CNC Solutions offers some practical advice for choosing the right computerised router; and has the experience to back it up, says the company's Mark Godden:

Computerised routing hardware has developed at a remarkable pace in recent years but would still be regarded as "stable" when compared to wide-format printers. To install a routing system usually means the start of a business relationship with both hardware and its supplier. A router is not something that's replaced every 18 months or so. Getting it right is important.

Our team can collectively draw on at least 60 years of experience selling, installing and supporting advanced routing systems. And the company has a complete product line; from entry-level systems, to what many regard as the industry's most advanced routing, knife-cutting and print production hardware. The company also understands tooling and the technical dimension required to get marketable results efficiently.

Most companies considering the installation of a computerised routing system start from a needs basis; there's a need to cut something that can't be cut accurately or fast enough by manual means. It's a good place to start, but it shouldn't be the sole focus.

Once installed, a computerised router can soon cut many machinable materials, or at least some do. A system that's very narrowly qualified and only cuts light materials reasonably well, means its owners can't access markets where different materials are

needed. A machine chosen to perform a print finishing operation on foam boards, may struggle with plastics such as Perspex; wood; metals; and engineered materials such as Di-bond.

Look to the future

Our advice is to look beyond present day needs to the point where your business is headed. Inevitably, that means considering a system that's able to deal with many more materials and capable of large workloads. Every system we sell and support is qualified to deal with the most demanding machinable materials available.

Size matters

The next issue is size. Computerised routing hardware takes up space and have ancillary components that may fit under it, or may need to be sited nearby. Access is needed, preferably from all four sides of the system, whether for operation or maintenance. There also needs to be sufficient space to move what might be large sheets of complete materials on and off the bed from where they are bought into the premises and stored.

Noise

Computerised routers produce noise, so they need to be isolated from offices and other places where a quiet environment is needed. We have installed hundreds of ma-



chines and offer a support package called CompleteCare. This programme covers all of the system's installation needs and finds the most practical location available.

We cover all machine sizes and our latest system to be introduced is the Tekcel 8X4. This system is an 8 by 4 foot machine able to handle this industry standard sheet size. It's slightly oversized so it can completely cover the sheet in terms of cutting and comfortably accommodate the metric equivalent too. From a popularity standpoint, the next "sweet-spot" is 3 metres by 2. Here we offer products from Protek (in a variety of sizes) and the highly rated Tekcel.

With practical matters like future-proofing and size dealt with, something looking like the "right system" should be on your shopping list. Next, it's time to talk about "bells and whistles" but not before considering routing and cutting as a physical process.

The right engineering

All routers push a rotating cutter through a rigid material, but what distinguishes them? It's subtle, but engineering has a huge impact on productivity and quality.

When pushing the cutter through the material that's being cut, the only components of motion needed are the rotation of the tool and its physical movement from A-to-B. Unwanted movements can and do sneak in and result in inferior output on systems that are less than well engineered. Backlash in the drive system can result in "sloppy" tool-paths and this can be seen in marred cut edges. Work that's less than well secured can easily move while it's being cut; that work will have to be scrapped. Lots of other errors including tool deflection, material chatter and tooling induced "eccentricities" will also yield poor output.

We refer to the stiff nature of the Protek and Tekcel chassis. This together with over-



The Protek Unico TT, available from Complete CNC Solutions.

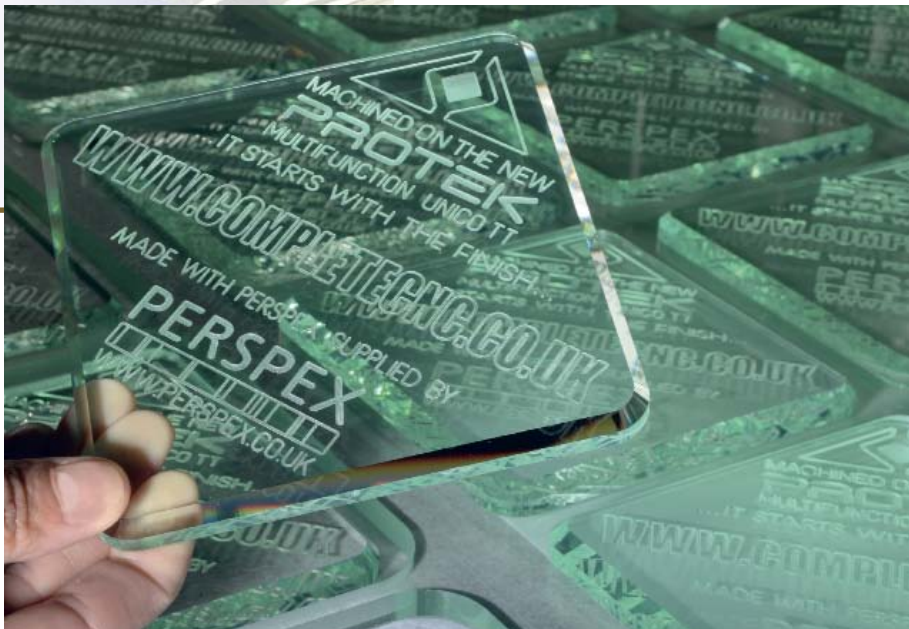
sized drive components and optimised tooling, work-holding and cutting waste removal, yields remarkable results. We have samples available for examination that are straight off the bed of our Protek systems for example. This sample presents a cut edge that looks like the product of flame polishing or laser cutting. It's the product of superior engineering and this saves hours of manual finishing.

What to consider when specifying the feature set that ideally suits your business

Unless yours is a trade supply company or a production house that's totally unconcerned with digital print, it's unlikely that your needs in either the short or long term will be met by a basic router. You're more likely need a routing, knife-cutting and print finishing system.

The first thing to consider is cutting printed output. Print in the raw state, just as it issues from the printer, is inevitably subject to further finishing operations. A properly equipped routing and finishing system is capable of taking that printed output and cutting it in substantially exact registration. This is whether it's applied to a rigid material or in the film state, not applied to anything other than its own liner.

To perform this exacting operation would be almost impossible using a manual process. Instead, cameras and some very smart machine logic and software are used. Typically, registration marks are imaged within the output to be cut. These marks are subject to the very same print-induced distortions that would confound a manual cutting process. Next, the routing system using



The results of their new Protek on Perspex.

its camera system generates a cutting path that's displaced or distorted in exact registration with the printed matter. The system can then route, or if it's so equipped, knife cut the printed output.

For cutting printed output, laser orientated alignment and registration cameras result in perfectly managed routed and knife cut tool paths. As for the components that actually get the cutting done, it's here that our portfolio starts throwing some more "hard-hitting punches".



They are equipped typically with high frequency spindles producing much more power than the 1kW usually encountered. And they can also have both reciprocating and drag-knives, tangentially located in tool bays provided for the purpose. This means there's not a machinable or knife cut-able material available that these versatile systems from Protek and Tekcel can't effortlessly turn into profitable output for the companies that operate them. They really are "future proof".

Complete CNC also offer knife cutting and creasing tools and anyone needing guidance with these should speak to their tooling support specialist, Gillian Allen.

Getting a computerised routing and knife cutting production system is as straightforward as buying a printer, but hopefully with the right advice, mistakes that limit long term options and cost more too can be avoided. As Complete CNC say: "Start with the quality of the finish, and don't look just to immediate needs, look beyond too."

www.completecnc.co.uk



JCT invested in a DYSS X7 from AG/CAD to fix a production bottleneck.

One business that is testament to this process is JCT, who specialise in large format digital advertising, retail print production, and PoS signage. Their clients include Pizza Hut, Halfords, Hobby Craft, M&S and Thornton's. To support their growth the company has just invested in a DYSS X7 1630C digital cutting table from AG/CAD. JCT Managing Director, Mr Julian Turner said: "We have a series of flatbed digital printers that includes two Truepress W3200UV and a Jetrix KX7, plus four Mimaki roll-to-roll upright printers. Whilst our print capability is outstanding, our flat bed and vinyl cutting machines were manually operated and this caused a production bottleneck."

Three issues

JCT had three key issues. Firstly, its staff operating the existing board and vinyl cutters couldn't keep pace with the fast throughput from the printing machines, which caused a bottleneck and extended project lead-times.

ROUTING & ENGRAVING

Secondly, the existing cutting tables couldn't cut precision profiles and forms. This resulted in either the highly skilled staff taking more time to cut simple profiles, or the company just having to turn work away or subcontract it out. Finally, JCT was limited by the materials it could cut. For example, E-Flute Board, Foamex and Corex beyond 5mm thick were impossible to cut by hand whilst retaining edge quality. And materials such as Di-Bond, acrylic, wood and PVC were a non-starter.

The company was fully aware of its limitations and the bottlenecks being created on the shop floor, so they investigated the market. Julian said: "We knew what we were looking for and after extensive investigation,

the DYSS X7 ticked all the boxes for our business. As soon as we installed the machine, the benefits just kept stacking up."

New markets

With the DYSS they can cut Di-Bond, Acrylic, PVC, E-Flute corrugated board, Foamex, Corex and even wood in thickness beyond 15mm. This wasn't previously possible and work above 5mm in most materials would have been subbed out.

Specifics

JCT specified the 'SuperHead' machine with three tooling stations that can accommodate kiss-cut tools, routing, knife, creasing and pen tools. For JCT, the DYSS delivers the

ability to cut through thick or rigid materials with the powerful routing tool. Or alternately use the high speed oscillating and static knives to carve through corrugated and Foamex boards. The kiss-cut, pen and creasing tools are precisely directed around the work area for marking, folding and cutting complex designs and shapes.

Julian said: "Our customers are delighted with our print and finish quality and our ability to complete projects in-house with the DYSS. We are now taking on more diverse work from existing customers and it is down to us to sell the benefits of the DYSS to existing and new customers."

www.agcad.co.uk

When it comes to choosing the right CNC router it can be a mine field of miss information and bad choices, says Maxicam UK, who design and make CNC routers.

When choosing the right CNC there are a few main elements vital to succeed: build quality; components; and after sales support. Most machine manufacturers look similar, and have good salesmen, so it's down to the buyer to decide on the pros and cons of each model.

Goals

The key, says the company, is to understand what you want from your machine and to put a realistic budget in place to achieve these goals. Bill Powell, Maxicam UK, said: "You wouldn't buy an entry level model if you wished to achieve glass like finishes on acrylic straight off the machine. If you wanted to bring outsourcing of flat cut letters in house, and you didn't mind flame polishing



When choosing a CNC router, Maxicam advise you need to understand what you want from your machine.

occasional edges on clear acrylics, then an entry level model might be the right choice.

Again if you manufactured large quantities of sign trays, has the benefit of Automatic Tool Change been considered? Adding this functionality can have a significant effect on the total investment required."

Getting technical

Ultimately the role of a CNC router is to cut parts from flat sheets of material and to avoid any hand finishing as fast as possible. So how do we choose? Bill says: "To cut parts in either 2D or 3D I always tell customers to pay attention to the whole structure of the CNC. To get extremely high quality parts it's essential to avoid vibration at the cutter. But this is not as simple as it may seem. Starting with the machine frame and gantry it must be of solid construction. The drive system is a very important element. Stepper motors tend to be used on more entry level models, which are cheaper. But as the name suggests the rotation of the shaft is by steps; and this step can translate as cutter marks on the edge of parts. Digital servo motors are the better option as they have good torque at both low and high speed. These offer a quick change in direction and high positioning and cutting speeds. The controller is the brain of the machine and a dedicated NC (numerical code) controller with true analogue control of the closed loop servo motors offer high speeds and accuracy. Transmission of the drive system is another important



A close up of the spindle tool in action.

cog in the mechanism. A machine could have a fantastic controller, powerful servo motors and rigid machine frame; but if the transmission was poor than the whole machine would fall over."

All Maxicam machines utilise helical rack and pinion and ballscrew transmission to achieve a quiet and smooth motion. Helical rack and pinions offer "superior" performance over a straight cut rack or an extremely long ballscrew, as they have virtually zero backlash. Back lash is the slack that's taken up when an axis changes direction.

With all these elements in place a machine can still fail to impress if a quality spindle is not on board, says Bill. A quality spindle with HSK tool clamping and ceramic bearings tend to be the best choice. The aim is for the tool to be spinning totally concentrically with minimum run out, other-

wise vibration will prevent achieving high quality parts.

Bill said: "Having invested properly in the correct CNC it still baffles me that customers don't have a proper schedule to replace tooling and collets. To achieve high edge finish, correct tooling is essential if you wish to take finished parts requiring no secondary finishing straight off the table." They offer tooling and accessories from their on-line shop www.powell-shop.com.

Last but not least

The final element when choosing the right CNC Router and supplier, how will they look after you have made your investment? Maxicam machines are supplied with CAD/CAM software ArtCAM Express and all their engineers are proficient in this product as well as their machine controllers.

"Once the investment has been made it's paramount it doesn't sit in the corner and remain unused due to lack of knowledge of operation," says Bill.

"With every installation, machine and software training are covered thoroughly so a company can feel confident they'll be able to start making money as soon as the engineers have left site. Where companies are new to CNC does the supplier have the knowledge necessary to integrate the machine in to the company's existing production workflow? What happens if the machines breaks down; how quickly can you respond; can we get support on the phone or remotely when needed? These are all questions where the answer should sit well with the purchaser," he says.

www.maxicamuk.com

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ROUTING & ENGRAVING

HPC Laser Ltd are experts in laser technology and explain why their competitive price makes them ideal for smaller businesses.

Laser technology is constantly evolving, mainly due to its variety of applications. This development has impacted the sign industry in many ways. The main and most obvious change has been the reduced price of laser cutters. As the price of laser cutters and engravers has fallen, they have become more accessible to smaller businesses. This allows them to offer fast delivery, which until recently has been restricted to large established companies.

A laser cutter is a versatile piece of equipment that is easy to use. They have allowed sign makers to develop and expand into a range of products such as: metal marking, point of sale and engraving. This helps to exploit another great advantage of the laser cutter software, which is the repeatability of jobs.

There is significant change to laser marking coming in the near future as HPC Laser are soon to offer a range of Galvo marking lasers. Galvo marking lasers allow the user to create decorative signs in minutes, which previously would have taken hours. They can engrave designs 10 times faster than a standard laser cutter. They are the only company in the UK to offer one of these machines for under £10,000 and can mark onto metal and non-metallic items.

HPC Laser are also the first in the UK to



The HPC Laser Cutter, which have become more accessible to smaller businesses, due to their lower price.

offer 220 Watt laser tubes for under £4000. This high powered tube brings the benefit of greater cutting speed and power to the sign making businesses especially on thicker products, and would also help to keep the price of lower wattage Co2 laser tubes. This makes an 80Watt laser tube similar in price to a set of ink cartridges.

Software

A commonly overlooked aspect of laser cutter development is the software. HPC Laser have kept their software adaptable so that it will be able to accept files from most drawing

packages such as Corel, Illustrator and AutoCAD. This they say allows sign makers to invest in a machine long term and use a variety of drawing packages, without the worries of compatibility issues and software updates.

"With development in laser technology not slowing it's safe to say that there will be many more innovations to help your business expand in the future," says Chris Jacobs, Managing Director.

www.hpclaser.co.uk



ITC Engineer programming a high end CNC tool grinding machine.

As important as understanding the hardware, functionality and what to look for, is the tools. Industrial Tooling Corporation (ITC) know their tools and give some advice about looking after them.

The UK sign industry is increasingly facing diminishing tool life and fluctuating productivity levels with its routing and engraving operations. But according to Sally Hunt, ITC has an innovative solution; as well as the capability and capacity to limit the impact and cost implications for customers.

If you are a manufacturer using routing and engraving tools on materials such as Aluminium Composite Material (ACM) or Di-Bond and you are witnessing poor tool life, this could be caused by the materials used. Sally said: "The UK signmaking industry is being flooded with low cost and low quality material from Asia, which is increasingly wreaking havoc with engraving tools and routing bits. In a business environment, it's natural to look for cheaper material and cutting tool suppliers, but this is a false economy. Especially if your low cost material is burning through cutting tools, generating poor surface finishes and resulting in secondary hand finishing operations.

"The arrival of low cost aluminium composite materials from foreign shores tend to be full of impurities. They can instantly burn out or chip the cutting edges and flutes of a cutting tool. So, if you are suddenly witnessing increased tool consumption, poor surface finishes, increased

stress on your routing machine and its spindle, it is likely that the quality of your material."

It is here that ITC has developed a unique solution. Sally says: "Tool burn-out effectively only impacts the bottom 2-3mm of the tool. As a UK manufacturer, our engineers and extremely precise CNC machines can cut the damaged edge from the tool and re-grind to an 'as new' condition at a fraction of the price of a new tool. More of our customers are stocking up their burnt out tools and supplying us with a box of worn-out tools. Our Tamworth manufacturing site will



CNC machines producing tools at ITC next picture, ITC's extensive stores for off the shelf UK manufactured tooling



then cut and re-grind these tools in a matter of days; giving the end user a box of 'as-new' tools for a minimal outlay."

ITC are considered industry leaders due to their technical excellence and their research and development. They have built this reputation by developing tooling solutions for high tech sectors such as the aerospace and F1 industries. By working with leading names in these sectors, ITC has an established history of developing solutions for cutting some of the most difficult materials known to industry. It is this industry know-

how that enables ITC to provide this "fast-turnaround, cost effective tool servicing solution that is beyond the capabilities of other cutting tool vendors".

They have over 21 CNC controlled machines at their headquarters to produce tools to the highest possible standards. The innovative tools from ITC are supported by a team of technical engineers that are on hand to answer your queries and solve your problems, at no extra cost.

www.itc-ltd.co.uk

CNC Router trends

The CNC router is fast becoming one of the essential pieces of equipment used in sign making. As a supplier of high quality router tools for the sign making industry, **Regal Tools** has seen the increase use of CNC routers, and noticed the following trends:

- The increased use of high grade cutting machines, such as Zund and Esko, for light/medium precision routing.

New customers are buying these machines and then making the natural progression to identify an independent supplier of the best professional grade routing tools at the best possible pricing. This is where our Crown Norge tools are targeted, by matching or exceeding the performance of machine-supplier provided tools but at much lower prices.

- The increased use of smaller diameter tools. Many customers are cutting relatively light materials and they are finding that high quality smaller diameter tools, sometimes from 3 to 4mm diameter, but sometimes even smaller 1 - 2 mm tools are able to provide the required results. This saves on material wastage and significantly lower costs.

- With CNC machines more than capable of spindle speeds in excess of 60,000rpm, we have noticed an increased use of balanced tools for diameters 5mm and higher. With larger



High quality router tools from Regal Tools.

diameter tools we are seeing the surface finish benefits of using fully balanced tools, are offsetting the small additional tool price premium involved. So less vibration; less noise; better surface finish; longer tool life; and reduced surface finishing, lead to reduced total job costs.

- The ever increasing demand for V-grooving, particularly with aluminium composite material bending and folding. We are seeing more and more of our customers moving into the V-grooving market and the Crown Norge ACM tool range with 90°, 120° and 135° angles and up to 30m/min feed speeds is proving to be a very popular choice.



Regal Tools have noticed an increase use of CNC routers in the industry.

ROUTING & ENGRAVING

- The continued difference between customers on their CNC router tools strategy. We find there are two relatively different tooling strategies. Some customers choose to use only a limited number of different tools, which provides them with a certain set of efficiencies. And then allow them to concentrate on optimising all the other factors for machining with just those tools; such as feeds, speeds, hold-down and cooling. Other customers choose to operate with a much wider variety of different tools and they consider that specifically identifying the optimum tool for each job, even if it is one that they are not using currently, is all part of the process. We can see that either strategy can be equally successful for a customer depending on many other company or market factors.

www.regaltools.co.uk



Selecting the correct tooling for any CNC router is equally important to that of choosing the right machine in the first place, says **XYZ International**. A division of theirs, CN-

CRoutershop, has for over 15 years been supplying a large range of tools, accessories, spare parts and consumables to owners of XYZ and Pacer routers. This range has gradually expanded through sourcing the best products from leading European suppliers; to the extent that the division offers a total support facility. Not only to XYZ and Pacer router owners but also owners of virtually any other make of machine regardless of type or country of origin, says the company.

Available 24/7 with same-day turnaround on orders, the online ordering facility is an easy-to-navigate system through which customers can place orders, says the company. The facility is clearly segmented to cover a wide choice of routing, engraving and cutting

tools; accessories; spare parts; consumables and software. These range from the highest quality router bits; collets and cones to accommodate various spindle types; oscillating and tangential knife blades for multiple material processing requirements; and special-purpose tooling.

There is a range of technical support facilities that includes breakdown cover and standard or bespoke training courses conducted at either the customer's own facility or the XYZ International Training Centres in Nottingham and Telford. The CNC Router-shop also offer continuously updated information downloads and access to a team of technical engineers for advice on tailored routing, engraving, cutting and finishing solutions.

A range of attractively-priced used routing machines are available too.

www.cncroutershop.com



Spotlight on a router: the Biesse Klever 1530 CNC Router

The Grain Sandblasted Sign Company make three dimensional wooden sign systems. The exclusive signs they manufacture are produced from the "finest quality" materials available and are made to "stand the test of time".

Wooden signs convey a strong sense of environmental awareness, but most importantly a quality image that is sensitive to the aesthetic of every business. All wood used comes from sustainable forests. Co-directors Peter and Sam Ratcliffe, a father and son team, are passionate about their heritage in sign manufacture. They work with some of the top names in the leisure, retail and entertainment industries.

"We already had a CNC router but needed something more heavy duty with a larger bed in order to transfer our creative designs into the finished products which our customers deserved," says Peter.

"The very nature of our business means that we need to produce bespoke items very quickly, using bigger and thicker substrates. The guys at Delcam recom-

mended the Klever, which we went to see in action at Biesse's Daventry Tech Centre and it ticked all the boxes.

"We also had severe space constraints as the machine needed to be installed under a mezzanine floor with just 2.35M of headroom. The Klever was one of the few machines which could accommodate this with the required extraction."

The visit to Daventry also reinforced their decision to buy Biesse. "We were impressed by Biesse's investment and commitment to the UK. It was also great to meet the spares and front line support teams, which really filled us with confidence," says John.

"The machine's reliability is excellent and on the one occasion when we experienced downtime, which was only a trip, we had an engineer on site the next morning. Being based in Cornwall, we can't fault the service."

The major benefit is that The Grain can achieve 3D milling. "It's

opened up new markets for us. We can now 3D mill MDF and HDU which has definitely contributed to winning additional business.

"The Klever has been well worth the investment. The machine has paid for itself just in terms of reliability and speed," says John.

www.biesse.com



With their Biesse Klever, which "ticked all the boxes".



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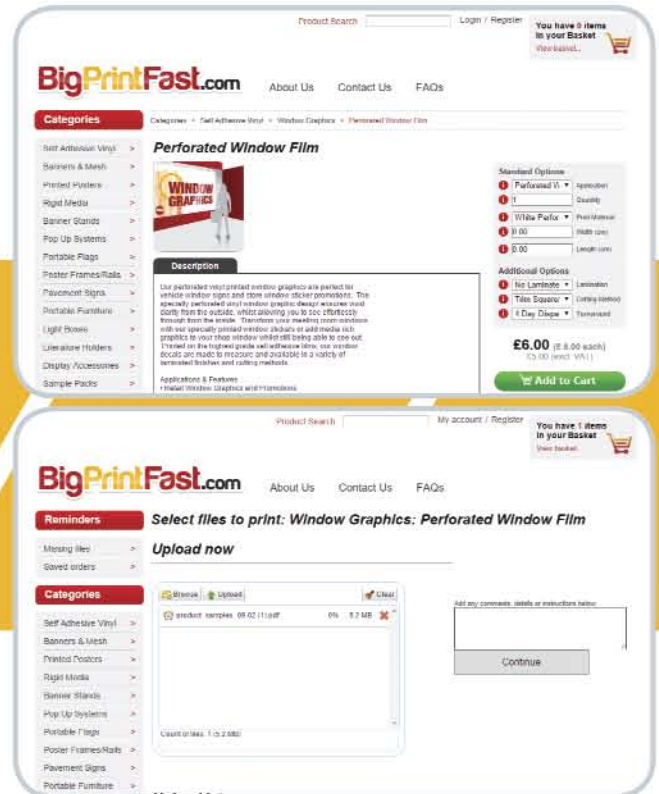
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PRODUCT Choice

Barkston Plastics choose Schelling

Barkston Plastics Engineering Ltd (The Plastic People) are plastic stockists and plastic fabricators of materials such as Polycarbonate, Perspex, and engineering plastic. With a rich heritage dating back to 1969, Barkstons has established themselves as "one of the premier plastic brands" within the supply and fabrication market place. An important part of Barkstons growth has been to choose highly reliable production and fabrication machinery, such as their purchase; a Schelling fk6 cut-to-size saw.

While they possesses a dedication to craftsmanship, company is also deeply committed to 21st century technology and innovation. Marketing Manager, Joanne Dell, said: "We're very lucky that we have such loyal and long serving team of employees. And it is this marriage of inspired design work; the hand skills of the craftsman; and the latest Schelling technology which keeps us at the forefront of the plastics market."

Barkstons recognised they needed a saw that delivered "something for everyone". Due to their range of customers, they wanted the best possible solution of both fast throughput of larger orders while at the same time retaining the option of small batch production; both with the highest dimensional cutting accuracy.

Assisted by automatic cutting speed, which is adjustable according to the book

height; and a saw blade diameter of 460mm delivering a saw blade projection of up to 135mm, the fk6 delivered on all fronts. Joanne said: "The ultimate test of the Schelling fk6 for us was its repeatable product performance. A company like Barkston trades on the reputation of its brand, this makes consistent accurate, repeatable cutting a critical component of manufacturing and the fk6 delivered; it delivered everything we asked."

Barkston cut a variety of high value double-sided material with a finished surface, which has to be "handled with care" and protected during the cutting phase. The first and vital stage of fabrication is cutting plastic where a flawless finish is essential. This is why they chose the air flotation machine table bed option. The finely crafted air flotation machine table bed has multiple brass air jets, which cushion the material and protect the surface during cutting and material movement. Joanne said: "This option eliminates the possibility of scratches and marks thus reducing the wastage and any downstream fabrication remedial action which is good for the business."

A Schelling machine option which Paul Dickinson, the machine operator, is "very happy with" is the Clean-Up cut function. Paul said: "It's goodbye to a messy work area which has in turn improved precision and cut quality".

Assisted by automatic cutting speed, which is adjustable according to the book height; and a saw blade diameter of 460mm delivering a saw blade projection of up to 135mm, the fk6 delivered on all fronts.

The Clean-Up cut function patented by Schelling works by eliminating 99.5 per cent of all waste chips, which results in more precision and less risk of any plastic surface material being scratched by waste chippings. This degree of clean working is achieved by numerous automatic machine improvements. The modified solid pressure beam design and additional hold down beam makes the disposal of chips better. And the positioning of three automatic suction dampers; one on the pressure beam; one on the saw unit; and one on the hold down beam, improves the removal of chips.

It was important to us that our customer orders weren't affected by the machine installation and the subsequent factory re-organisation. Through good planning the old Schelling saw was dismantled and removed by Schelling after the new fk6 was commissioned. Markus Freuis, Schelling UK Ltd, Managing Director, said: "The fk6 machine installation went smoothly, notwithstanding some challenges. But due to the long service length of the Schelling technicians, they had the experience to overcome these challenges and it was installed and commissioned on time, with no interruption to Barkstons production."

www.schelling.co.uk
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Barkston Plastics Engineering new Schelling fk6 cut-to-size saw.

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PRODUCT Choice

Kili Arts brings high-definition photos to life on metal with Epson

Kili Arts has installed an Epson SureColor SC-F6000 44-inch digital dye sublimation printer to produce its new range of high quality ChromaLuxe photographic prints. The company has owned an Epson Stylus Pro 9890 44-inch large format printer for two years, which it uses to print its fine art, photographic, canvasses and Giclee prints. This latest SureColor investment has enabled Kili Arts to expand its product range into metal HD prints, resulting in an increase in production and overall profit of 60 per cent since they installed it earlier this year.

Specialising in bespoke large format printing and framing, Kili Arts produces products such as acrylic and canvas prints, Giclee Fine Art prints and metal HD prints.

Photographer and Director, Jagdeep Panesar said: "We used external suppliers for all our photography printing needs for a number of years but were often disappointed with the inconsistent results. We are extremely passionate about delivering the highest quality service to our clients so we

reviewed our options and that's where the idea of starting up our own printing side of the business came from."

The company purchased its first large format printer, an Epson Stylus Pro 9890, in 2013 to print its clients' photographs onto fine art paper and canvasses. It was a visit to Photokina in 2014, where they saw the Epson SureColor SC-F6000 dye sublimation roll-fed printer demonstrated. It printing onto ChromaLuxe metal panels persuaded them to look at further investment in the print business. Jagdeep said: "Epson were printing images on the SureColor SC-F6000 dye sub printer that were then infused directly into the ChromaLuxe specially coated sheets of metal to create the most vibrant and stunning photographic prints. The detail and resolution was exceptional and we could see that our images would be perfect for such an application. We were convinced it was something that our customers would be enthusiastic about."

Kili Arts bought its SureColor SC-F6000 from large format print solutions specialists and approved Epson reseller Perfect Colours in January 2015. "Perfect Colours were great," says Jagdeep.

Quality, performance and reliability are all optimised for maximum productive uptime and profit

"They gave us a lot of advice and support and handled everything before, during and after installation. Their training, support and after care is invaluable."

The SureColor SC-F6000 is "ideal" for low-to-medium volume work and has been developed to support an extensive range of applications such as soft signage, interior décor, textile and garment printing. It offers a low total cost of ownership and, with every component designed and manufactured by Epson, "quality, performance and reliability are all optimised for maximum productive uptime and profit".

The company also invested in a Sefa 1510 heat press to print onto ChromaLuxe metal panels. Jagdeep said: "We started off printing small 6 x 4-inch prints at first and sent them out to our clients as gifts. They loved them and were blown away by the colour quality and detail." Shortly after, the orders started coming in for larger sizes and the business "took off".

Jagdeep said: "The printer installation went very smoothly. The SureColor SC-F6000 is exceptionally easy to use, with fast media loading and easy set-up and has proved to be an extremely reliable piece of kit. We can't fault it."

Kili Arts has recently been commissioned by local schools to produce new imagery for its healthy eating campaign; images have been printed onto 60 x 40-inch metal panels using the SureColor SC-F6000.

With an eye to the future, Kili Arts is looking to expand its service to offer customised textile printing with items such as t-shirts, bags, promotional products and interior décor items, to the consumer and commercial markets.



Jagdeep Singh Panesar, Kili Arts, with his Epson SureColor SC-F6000 dye sublimation printer.

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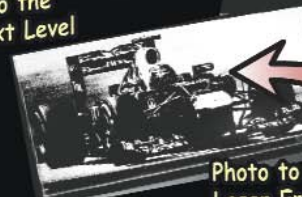


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PRODUCT Choice

All aboard for Sign & Graphics Services with new Mimaki JV150

In the rapidly growing vehicle wrapping sector, customers are demanding ever more creative solutions to make a real statement, says one small family-run business who have investment in a Mimaki JV150-160 solvent printer from Mimaki reseller, CMYUK.

Sign & Graphics Services offers a full range of wide format print services to the retail, exhibition and sign and graphics industries. In the process has established themselves as "something of a specialist" in out-of-the-ordinary vehicle wraps. Owner Mike Bolton said: "I set up SGS just over three years ago after many years working in the digital print industry. Whilst we may be relatively small we've carved ourselves a nice little niche in large scale vehicle wraps for the mobile exhibition sector. We've completed a number of complete double-decker bus wraps for promotional purposes which present some unique challenges."

He said: "Our real skill lies in having the knowledge and experience to turn a designers dream and vision into reality. It's a huge undertaking and preparation and adaptation of design concepts is all part of the process. Experience has taught us little tricks such as where to use Contravision media and where not to and how best to format such large scale graphics."

"We reckon that two of us can complete a full double-decker bus wrap in around four days. Good teamwork and detailed preparation has made us pretty good at what we do," he says.

Reliable, high quality print is also at the heart of any great vehicle wrap job and SGS



The double decker bus promoting an Irish Whiskey brand.

Reliable, high quality print is also at the heart of any great vehicle wrap job and SGS has continually invested in the best wide format kit available.

has continually invested in the best wide format kit available. Mike said: "I've spent a lot of time working with Mimaki kit over the years in different companies and always found it to be reliable and capable of delivering spectacular quality and durable results even when under pressure. I was a big fan of the JV33 and when the new JV150 series was launched I just knew it was worth checking out. The colour gamut and resolution even in 4-colour mode is simply stunning and a really critical part of any high impact vehicle wrap; especially when it's as big as a bus!"

Mike and his team are doing more specialist work for the trade and marketing promotions industry, and have become so adept at these large scale wraps that they're getting increasingly involved in complete re-fits and builds. "Using specialist tradesmen such as carpenters and auto-electricians we're now regularly managing the whole project for clients," says Mike.

"A double-decker bus promo unit for Tullamore Dew Irish Whiskey was a particularly challenging project but as the pictures prove, the results were amazing. Equally, the conversion of a flat bed truck for Continental Tyres used as a promotional vehicle in the run-up to the 2014 World Cup, involved adaptation of original designs, fabrication and a well-executed combination of cut vinyl graphics and digital print."



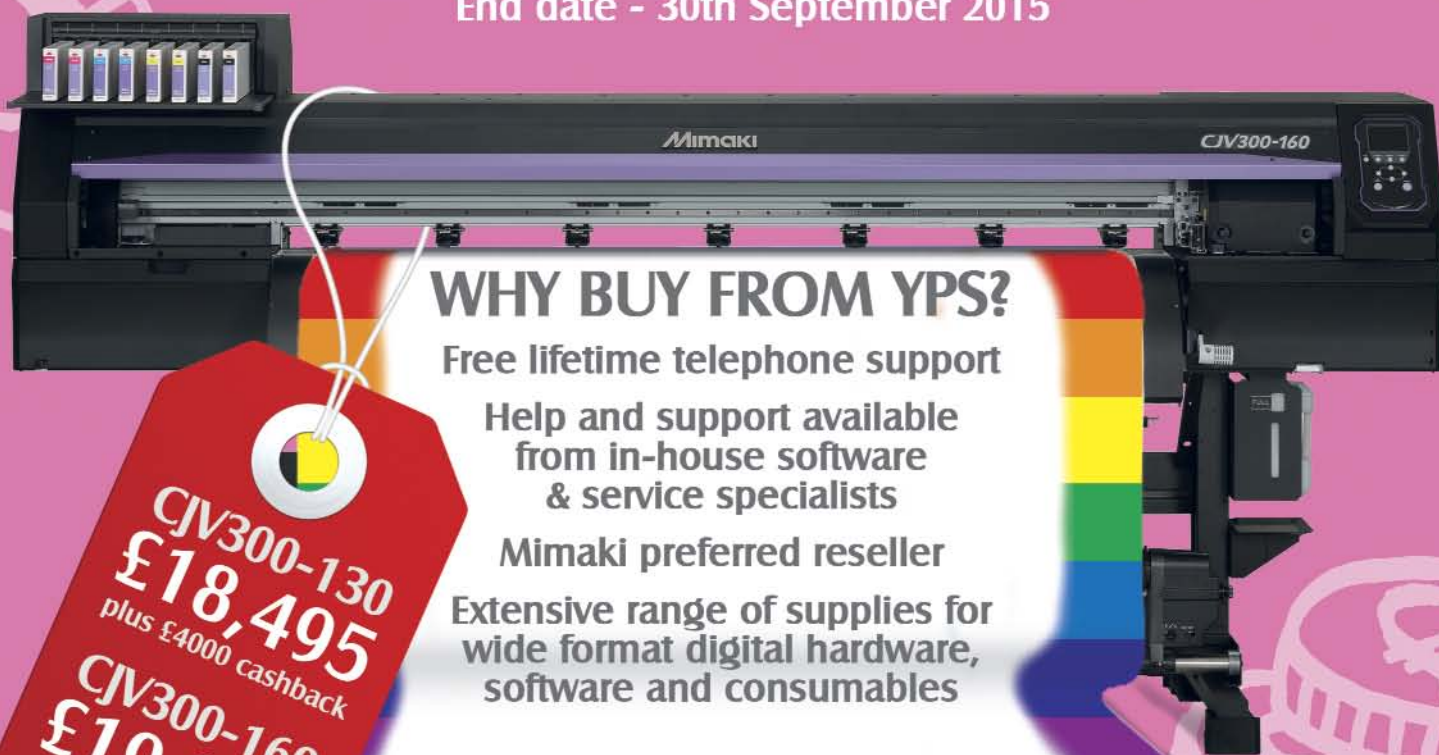
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PRODUCT Choice

hi-rezz makes it game, set and match with Lightbar!

Tennis fans travelling to Wimbledon this year were treated to striking images of tennis star Maria Sharapova, promoting Evian – an official supplier to The Championships. The back-lit posters brightening up bus shelters all around London were produced by the print and project management company, hi-rezz, using its new Lightbar RF-640 wide format printer.

A division of Kinetic Worldwide and part of the global advertising and marketing group – WPP, hi-rezz specialises in print production and distribution for the OOH (Out Of Home) advertising industry, both in the UK and world wide. They use their in-depth knowledge of print technologies and production experience to deliver everything from interactive poster campaigns to 3D billboards.

They operate their own in-house wide format print facilities, to retain control over key projects and provide fast turnaround times for its clients. Studio and Print Manager, Simon Powell, recently introduced the new Lightbar RF-640 printer to the business following research at an exhibition and subsequent demonstrations. He said: "We were looking to replace one of our older printers with a more efficient and cost effect way to print our 6 sheet (1200mm x 1800mm) and 4 sheet (1016mm x 1524mm) posters. We regularly print 100m rolls of white or blue back paper non-stop and our old printer needed 36 hours to get through a full roll. Whereas, the new Lightbar system gets the same job done in less than half that time."

The Lightbar RF-640 combines the latest UV Light ink chemistry with the performance of Roland DG print technology to produce output that's "instantly dry, immediately durable and ready to use" the moment it leaves the printer. The inks are odour free and there's no need to allow any additional time for drying or out gassing.

Simon said: "We're always being asked to turn around jobs the same day. Now we can trim, roll and tube up posters straight from the printer without worrying about the ink smudging or scratching. If we get an urgent request for a dozen six sheet posters at lunchtime, with the Lightbar printer, we can have them printed, finished and shipped out a couple of hours later."

Ink consumption was another important consideration for hi-rezz. Even though the old printer had a litre per colour bulk ink system, it could run out of one or more colours when printing a 100m roll. Not a problem that hi-rezz has experienced with the new Lightbar printer, which is configured with dual CMYK ink sets, 8 x 440ml cartridges in total.

"The UV Light inks are producing far more metres of print. In fact, we're only using around 440ml of each colour to print 100m of colour rich, back-lit posters. So, we can confidently leave the Lightbar printer to run through an entire 100m roll completely unattended," says Simon.

The ink is a solvent-UV hybrid formulation that has just enough solvent carrier to ensure a strong, initial bond between the colour pigments and the media. The print then passes through the UV light which fixes the ink permanently.



The backlit posters of Maria Sharapova in bus shelters during Wimbledon.

"We're always being asked to turn around jobs the same day. Now we can trim, roll and tube up posters straight from the printer without worrying about the ink smudging or scratching."



The Lightbar RF-640 wide format printer.

The fact that UV Light inks contain more colour pigment and less carrier in the cartridge means that they offer far greater print coverage than alternatives like latex ink.

Simon said: "As soon as I saw output from the Lightbar printer, I knew it was a great solution for our business. The OOH advertising industry is very demanding and speed to market is critical to us, but so is the quality of the work we produce for our clients. We can't afford to sacrifice one for the other. Now we have the Lightbar printer, we can meet tight deadlines, produce great looking posters and provide a same day service whenever needed."

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PRODUCT Choice

Focus on fabric for new investment at Colour Graphics

Colour Graphics is expanding its long-standing relationship with textiles and interior design, with an investment in a new MTEX 5032Pro direct-to-textile printer.

Colour Graphics was first a copyshop after owners Steve and Vicki Birch realised the potential of the new colour copiers coming onto the market in the 90s.

They decided to diversify and invested in a Canon copier and a heat press, to offer colour copies and transfer printing onto T-shirts from their interior furnishings shop. The printing facility developed from there to include poster and banner printing, plus flatbed UV solvent.

Digital textile printing is the most recent addition, with the purchase of the new MTEX 5032Pro. James Birch, Colour Graphics director, said: "We've added extra space onto our unit to house the new MTEX in an area that will be dedicated to fabric and finishing.

"We wanted to make the move into textiles as we always try to be ahead of the wave, and the market is clearly changing and getting much bigger.

"As well as allowing us to expand the offering for our existing sign and display cus-

tomers, we'll also now be able to look at expanding into new areas."

Steve and Vicki have had 35 years' experience in textiles, and the new printer will be an "excellent" addition to its resources, allowing custom printing of bespoke fabrics for truly personalised interior design. Colour Graphics will also be providing commercial customers with products such as POS interiors, wall and window coverings and light-boxes.

The company also recently bought a 10ft by 5ft Multicam CNC router.

Jame said "Our existing customer base is 80 per cent trade, and they'll be able to offer this great new technology to their customers without having to make an investment themselves. With the support of MTEX, we're also looking at moving into areas outside of sign, display and interiors, into markets such as fashion.

"The capabilities of the MTEX printers and the supporting workflow, plus the introduction of new inks for printing onto a wider range fabric outside of polyester makes this a very exciting time."

The MTEX 5032Pro is a 3.2m wide, high-

quality direct sublimation printer that delivers "brilliant and vivid" colours. It has integrated fixation, and runs at 58sqm per hour. The Pro is the second-generation version of the 3.2m wide MTEX 5032, which has a proven track record in the industry as the market leading direct-to-textile printer in Europe.

There is a new integrated platform on this Pro model as well as a new feeding and take up system, which uses compressed air. There is also a new continuous ink feeding system.

MTEX Technologies Managing Director, Stewart Bell, said: "We are delighted that Colour Graphics have chosen MTEX as their partner for Digital Textile Production. We manufacture quality production printers that produce stunning results for textile in the exhibition, sign and display markets; but which also allow customers to diversify into other business areas. Our printers have inbuilt fixation which means a single pass process, simplifying the whole process whilst saving production costs and generating excellent profit opportunities."

www.colourgraphics.com
www.mtex.eu



Colour Graphics director Steve Birch with the company's new MTEX 5032Pro direct-to-textile printer.



Printdesigns orders second Zünd G3 after first investment "revolutionises" business

Large-format digital print company Printdesigns Limited has ordered its second Zünd G3 digital cutter to cope with increasing demand for its expanding range of portable fabric-based display stands.

Printdesigns launched its TEXStyle display range in 2013 following the installation of a 3.2m-wide Mimaki JV-5 DS printer and a rotary Monti Antonio heat press.

"Our main area of business is the production of quality, portable display solutions for the self-build exhibitor," says Mark Thompson, Director of Printdesigns.

"For many years, the market has been dominated with traditional products that employ heavy, roll-able graphics printed onto PVC or polyester films.

"Our customers are always looking for new products that can provide easier assembly, increased portability and, most importantly, a higher level of aesthetic finish. The introduction of fabric graphics along with lightweight supporting frameworks have allowed us to offer newer, more innovative solutions to our customers."

However, the success of the line created a bottleneck in production as the seamstress team was hand-cutting the fabric; a process that took longer than the actual printing. So Printdesigns decided it was time to invest in digital cutting equipment.

"We considered both Zünd and another digital cutting brand but were definitely more

impressed by Zünd's professionalism," says Mark.

"While the other manufacturer allowed us to see its equipment in situ at the print room of an existing end user, it was a little awkward and difficult to see it up close. Zünd's dedicated demonstration centre in St Albans, gave us time to sit down, ask questions and really consider the machine in a comfortable environment. It's a big investment so that level of professionalism and sense of security is very important. You feel you're buying into a more supported product."

Since that time, Zünd's demonstration suite has been renovated and upgraded, providing an even better experience for current and future users.

Printdesigns has been running the Zünd G3 2m-wide cutting table for almost three years. "It revolutionised what we did," says Mark.

"We went from struggling to finish at the end of the day to having time to spare. It's worth every penny that we paid for it and more."

The company is now awaiting the arrival of a second Zünd G3, configured specifically to meet their needs, in September. "Soft signage graphics are generally produced on one big piece of fabric measuring 3.2m wide, which is great for the customer as there are no panels to line up, but harder for us with our existing 2m-wide cutting table," says Mark.

The new Zünd G3 cutter has a 3.2m-wide bed to allow full-width rolls of fabric to be trimmed quickly and with "perfect precision" every time. The new cutter will also feature a specially developed fabric tensioning system, for the effective transport of the high elastane-content polyester fabrics used for Printdesigns's graphics.

Mark admits that he didn't actually see the wider Zünd in person before submitting the order, basing the decision on the success of the 2m table and the high-quality support of Zünd engineers. Zünd will ensure that both the new and older cutting machines are located in the most ergonomic way possible in Printdesigns's warehouse in Stone, Staffordshire.

"For print businesses who traditionally cut materials manually, the addition of a Zünd digital cutting table, configured for their unique requirements, can absolutely transform production, as Printdesigns discovered," says Nick Reed, Product Manager at Zünd Plotting Systems (UK) Ltd.

"Since so few UK graphics companies can handle very wide fabrics, this 3.2m machine gives Printdesigns an even greater competitive edge in the marketplace. The demand for lightweight exhibition graphics is set to grow and grow, and Printdesigns is ideally placed to grow with it."

sales@zund.co.uk



Printdesigns has been running its Zünd G3 2m-wide cutting table for almost three years.

PRODUCT Choice

ProTrade Printing chooses Canon

ProTrade Printing, who produce wide format canvases and prints for professional photographers and artists, do so using a single Canon imagePROGRAF iPF8400S 44" wide-format printer.

The printer was recommended to the founder Andy Wright by Stuart Bilsland from plot-IT, an online sales business that offers a range of wide format printers, media and inks.

Andy said: "I was looking at a number of different options available and the Canon printer stood out for its speed and ink efficiency. I was told by the guys at plot-IT that if I purchased the Canon machine I'd never look back; and that has certainly proved to be the case."

"I was looking at a number of different options available and the Canon printer stood out for its speed and ink efficiency."

"Whilst I looked at a number of other wide format printers available on the market, the Canon proved to be the most efficient solution and the one that best met the needs of my business. I truly believe that it wipes the floor with other solutions at a comparable price-point."

Incorporating high capacity ink tanks for "greater productivity and reduced downtime", the Canon iPF8400S printer has a 250GB HDD for efficient printing of complex jobs. Canon's LUCIA EX 8-colour 'hot-swap' inks provide a broad colour gamut, and an inbuilt colour sensor ensures consistent and accurate colour reproduction. Businesses can further manage their print costs courtesy of the iPF8400S's in-built accounting tool, says the company.

ProTrade Printing makes further efficiencies within its business, which they say they pass onto customers, by using plot-IT's high quality own-brand of matte cotton canvas. ProTrade also uses Xerox-branded satin photo paper sourced from plot-IT for its output to "meet the exacting needs of its customers".

These media are complemented by stretcher bars, which Plot-IT sources from a UK manufacturer. Plot-IT also supplies its own-brand of giclée liquid laminate for finishing. These add-on products and services make plot-IT an "ideal business partner for the likes of ProTrade Printing".

Andy said: "I came across Stuart Bilsland and his team at plot-IT through personal recommendation and they have proved to be the best partner for us. Plot-IT are experts in the wide format area and always have time to talk me through and queries I may have."

www.plot-it.co.uk



ProTrade Printing's reliable Canon imagePROGRAF iPF8400S 44" wide-format printer.

Core Motorsport choose 3M

Core Motorsport Services, who provide design, development and trackside support services to both individual teams and series organisers, are a "firm advocate" of 3M materials.

"We find that 3M materials go on well and are quick to apply, which is important for us as we regularly re-wrap vehicles throughout the year when bodywork is repaired," says Core Motorsport's Martyn Kane.

Core Motorsport flew to Shanghai to wrap two World Touring Car Championship (WTCC) Chevrolets. Using material that was easy to apply was imperative, as getting replacement print would have been impossible working remotely, and in their timescale.

"Although a short term application, we chose 3M IJ40 because we wanted a material that would be easy to apply, reliable and would print well. Fully printed wraps are rare for us but we were impressed by the quality of the material and the speed of turnaround

William Smith was able to achieve," says Martyn.

The vast majority of jobs by Core Motorsport are colour-change wraps. Typical examples are an Audi wrapped in 3M 1080 Series Metallic Blue for the British Touring Car Championship. Oreca LMP2 car wrapped in 3M 1080 Series Silver for the World Endurance Championship. And four aerobatic stunt planes wrapped in 3M 80 Series Red and Black in Penang, Malaysia.

"We purchase our materials from William Smith as we have a good working relationship with them, and have never had any issues with materials supplied as they only supply quality brands, of which 3M is one," adds Mr. Kane.

www.vehiclewrapfilms.co.uk
www.williamsmith.co.uk



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PRODUCT Choice

WAE Group installs UK's first Longier flatbed printer

WAE Group has installed the UK's first Longier Hunter FP-3750 LED flatbed printer at its Leeds print room, supplied by Quality Print Services Ltd (QPS).

QPS announced its appointment as a distributor for the brand earlier this year and delivered the Longier Hunter to WAE Group in late May, where it is already "showing its stripes as a fast, high-quality and user-friendly machine".

A specialist in signage, WAE Group produces work such as hoardings, health and safety signs and commercial estate boards for the construction sector; medical panels for hospitals; POS; and a range of other graphics. Managing Director Paul Austin said that the business was looking to upgrade its existing printing line-up; an Agfa Anapurna and an Inca Spyder V; and its ink supplier QPS recommended the Longier range.

"We needed extra capacity; we couldn't keep up with demand and were getting stuck with orders," he says.

"After QPS's Chris Bailey recommended Longier we went to see the FR-3750 flatbed with roll-to-roll demonstrator in action and were impressed by the fine print. It's very clear all the way down to a very small point, which is what is needed for POS."

He said: "The LED curing interested us straight away as well. The water-cooled LED lamps used to cure the ink are significantly cheaper than conventional mercury vapour



The Longier Hunter was installed at the end of May.

lamps and don't have to be replaced nearly as often. While the power consumption is considerably lower than conventional UV too."

Once installed, WAE Group also found the Longier, running Nazdar digital inks from QPS, prints faster than its existing machines and reduced its consumables costs.

"When testing the inks we found no need for a liquid primer on composite materials, which cuts costs further," says Paul.

"The print quality is fantastic and the white ink particularly goes down very well. We've reverse printed with white onto 8mm clear acrylic and it looks great. Colours are vibrant with less ink coverage and there's even a program on the machine telling you the cost of the ink you've used.

"It's also very user-friendly and quicker to set up in the morning and shut down at night than our other machines. We're really happy with it."

Chris Bailey, Managing Director of QPS, said: "The combination of the Longier Hunter and Nazdar inks is an excellent solution for a range of sign applications. Thanks to its speed, ease of use and the ink's adhesion to a wide range of substrates including composite boards and fluted polypropylene.

"Water-cooled LED lamps do not need to be replaced every 500 hours like mercury vapour lamps. There is no ozone generated into the atmosphere and the substrates are not subject to the heat damage often associated with hot mercury vapour lamps, which increases the range of substrates than can be printed. It's an all-round workhorse for a busy sign business and we're delighted to install the first FP-3750 machine in the UK at WAE's Leeds HQ."



www.qualityprintservices.com
www.wae-group.co.uk



Hollywood Monster and CMYUK "ring in the summer" with EFI VUTEk printers

The recently installed epic graphics at two Westfield sites in London saw Hollywood Monster director Simon McKenzie announce that summer had finally arrived! The Shepherd's Bush and Olympic Park shopping centres have had a complete facelift, with 2,000 square meters of printed graphics across a façade made up of concrete and stonework.

The job was printed on an EFI VUTEK GS3200 and the EFI VUTEK GS2000, which was recently supplied to them by UK distributor CMYUK. It took four nights to install the graphics using three access ladder crane machines and over 400 man-hours in total for the "monster makeover". The graphics officially launch Westfield's summer campaign.

Simon said: "The artwork was agreed within 24 hours and the following day we were printing and shipping the graphics to London. We had 60, 13 metre drops at one and a half metres wide for the façade. It was crucial that the overall appearance of the summer creative design remained the same on both glass and stonework. The Vutek printers performed brilliantly and from experience, we know that the graphics will be as vibrant throughout the whole summer campaign as it was on the day it went up."

rience, we know that the graphics will be as vibrant throughout the whole summer campaign as it was on the day it went up."

Hollywood Monster is one of the largest graphics solutions businesses in the Midlands region and produce high quality graphics to clients all over the UK. Their range of high-tech printing equipment and installation expertise is key to their positioning in the market and is the reason why high they count companies like Westfield, M&S and Virgin amongst their clients.

Hollywood Monster is a great example of how with focus, drive and the right equipment and skills, you can really grow your print business to be a driving force in the industry



The entire job was printed using Hollywood Monster's new EFI VUTEk printers.



The 2000 square metres of the facade being transformed is made of concrete and stone.

Hollywood Monster was established in August 2009 with the coming together of sister companies Hollywood Signs and Monster Digital. Two years later, the company increased turnover to £6m after winning major contracts with commercial and residential property developers, Premier League football clubs, major retailers and shopping centres. Today the company turns over in excess of £7m and has a history of winning very complex and creative wide and super-wide print jobs from around the UK.

Robin East, director at CMYUK said: "Hollywood Monster is a great example of how with focus, drive and the right equipment and skills, you can really grow your print business to be a driving force in the industry. They have always invested in the best equipment for the job and their fleet of EFI Vutek printers is testament to this. We were thrilled to see the Westfield summer project in situ and congratulate the creative team and print operators at Hollywood Monster for delivering such a brilliant and complex job."

www.cmyuk.com

PRODUCT Choice

Frost Signs & Graphics takes colour seriously with Barbieri

Frost Signs & Graphics has invested in a Barbieri SpectroPad Series 2 from City and West End Solutions, aimed at guaranteeing colour consistency for its clients.

The company, who specialise in vehicle wrapping, had found that on occasion reprints were coming out at a different shade to the original. And that the problem wasn't evident until they were on site for installation.

"Any mismatches in colour were only seen when we were on site installing the new vinyl alongside the original, which was increasing our lead times, wastage and labour costs. And annoying the customers affected," said Director, James Frost.

"We knew we needed a colour checking solution to give us confidence in an accurate consistent output without the original on site; you can't get a full sized bus into the studio to check it!

"We spoke to CWE Solutions about Barbieri, and the SpectroPad seemed perfect for us."

Media, ink, temperature, humidity, workflow, and printer interventions are some of the many factors that influence the colour appearance in large format digital printing. To maintain an advanced level of accuracy, given the number of potential variables, you need a high end calibration device. The Barbieri SpectroPad 2 is this solution and allows users to recalibrate "quickly and easily with confidence".

The SpectroPad Series 2 is a "revolutionary" portable, professional spectropho-



James Frost, Director of Frost Signs.

tometer which can measure a wide variety of different reflective media. Thanks to its independence from a computer, it can be also be used directly on the printer. Its integrated touch display enables interaction with the device and provides instant measurement results and assurance the output is correct.

"The fact that the Spectropad is portable as well as wireless further allows us to take spot readings directly from the vehicle when trying to match output without hav-

ing to run cables and so on," said James.

CWE Commercial Director Graham De Kock said: "At 6mm, the measurement aperture is the biggest available in a portable device, which offers a more accurate colour reading across a wider range of samples and will seriously help the team when evaluating their large media graphics."

www.cwesolutions.co.uk

www.frostsigns.co.uk

Resource Digital Graphics buy HP Latex 360 Printer to produce finished wide format print 'within the hour'

Resource Digital Graphics is a specialist display graphics and large format print business. Founded by brothers Darren and Lance Britnell in 2011, and backed up by a small team, they are "ideally suited to produce some of the most demanding and complex print jobs for its long list of customers".

The company has built a reputation of being able to resolve the "most tricky of printing needs". Lance Britnell said: "You name it, we can print on it! We've built up expertise in resolving printing issues and if there's anything out of the norm, customers will come to us for a solution. A lot of our business is through recommendation from existing clients."

Their output includes banners, pop-up displays, posters, display boards and stick-

ers. In order to deliver these products to end-user customers, Resource Digital Graphics has continually invested in the latest printing equipment.

The latest addition to its portfolio, which includes an Océ Arizona 360 GT flatbed, an Epson printer and a Kongsberg XN24 flatbed cutter, is the HP Latex 360 wide format printer. They bought from specialist graphics industry reseller Granthams.

Lance said: "We bought the HP printer to replace a machine that wasn't meeting our requirements. We needed a printer that was able to turn around print in a very quick fashion, maybe even within an hour, which was dry and didn't need de-gassing. The HP machine more than meets these requirements."

The high-performance 64-in HP Latex 360 Printer prints at speeds of up to 91 m²/hr (978 ft²/hr) Resource Digital Graphics uses its HP Latex 360 Printer for a number of applications including roller banners, vinyls, decal vinyls, posters, PVC banners and more.

Lance said: "I like to do all my own colour profiling and Granthams supports the ColorGate RIP, which I prefer to use, so that's a real bonus. We do a lot of cross-printer platform printing and – for us – the ColorGate RIP is crucial to matching colour across various printers and substrates."

He said: "We choose to work with Granthams because they are knowledgeable, offer good solid advice and are not overly pushy. They know what they are talking about."

Island life in the city

HNS Signs were "over the moon" to work with Bitters n Twisted on their Island Bar in Birmingham City Centre. Michelle Henry, director and signwriter, said: "They wanted something to reflect island life but really didn't know where to begin. We had free reign to do as we pleased with regards to the designs.

"During our weekly creative meeting, we came up with the idea of a hand painted surfboard onto a reclaimed wood background and halo illuminated letters. We then pitched this idea to the client who loved it. Raph (our graphic designer) spent a total of eight hours getting the design just right. Once this was signed off, we had a meeting with the client so that he could choose the colours for the wood panelling and lettering. Unfortunately, due to the sheer amount required, it was not possible to use reclaimed wood. So we went to a local timber merchants who recommended the wood we eventually used. They even cut this to size, which saved us a few hours."

They spent 10 hours treating and staining 25m x 1m of wood panelling. To make it look rustic they used four different shades of grey and distressed it using grey and black spray paint on a third of the panels.



The surfboard, cut from marine ply and painted using traditional signwriting techniques.

The 4880mm surfboard was cut from marine ply using a jigsaw. It was then treated and the edges sealed before priming. They

had to leave 75mm edge primer free for the wood effect. It was painted using traditional signwriting techniques and one shot paints. The edges were stained using a mixture of three wood stains to give the aged effect before applying an external satin varnish.

To make the halo illuminated letters, they cut 20mm white foam on the CNC and built up three layers. The third layer was hollowed to allow for the LEDs. There were bonded together, sanded, primed and spray painted. "They didn't want them to look too perfect, so we left the edges a little rough," said Michelle.

"This helped us get the desired effect when dry brushing the returns."

They used spray paint to distress the face, fixed the LEDs, and laser cut the acrylic for the backs of the letters. Translucent blue cast vinyl was applied to these to give the blue glow which symbolises the water.

They spent two days on site. The first was spent fixing the timbers that the panels were to be secured to. Then they attached the panels in a "random" way to make sure that the greys were mixed up. They took a saw on site so that we could cut the panels around other remaining fixtures such as awnings and alarm boxes. On the second day they installed the surfboard and covered the projecting illuminated sign with an aluminium composite wrap so that it matched the new sign. They also stencilled and spray painted their tag line onto the sign over a 10m area.

www.hnssigns.co.uk
www.luminastudios.co.uk



A before and after shot of the Island Bar.

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PROJECT News

Zeta Specialist Lighting helps council go "green" with solar LED lighting

Zeta Specialist Lighting's LED solar powered lighting has been installed at Nottingham City Council's Queen's Drive Park and Ride, to enhance visitor comfort and safety.

The site has 10 Zeta SolisPOST lights, strategically placed either side of the bus stop shelters to illuminate drop kerb areas, which assist wheelchair users when using the facility at night.

Requiring no on-grid connection, this unique system is specifically designed to capture and store solar power via its integrated PV panel. The SolisPOST runs at a low lighting level continuously and when a pedestrian approaches, its integrated Passive Infra-Red Sensor (PIR) automatically increases the lighting level, saving energy and reducing light pollution.

Signage to communicate opening times and other visitor information is also illuminated thanks to Zeta's new ECOLUX SOLAR. The ECOLUX SOLAR is the first LED trough lighting system for signage, that is entirely powered by solar. Virtually maintenance free and with minimal install costs, the ECOLUX SOLAR incorporates discreet and flexible PV panels; long life batteries; and Zeta's Energy Management System.

All of the lighting solutions have been painted in the city's corporate green colour.

As a members of the Nottingham Green Partnership, Nottingham City Council is committed to meeting the environmental priorities identified in the Nottingham Plan, which sets out a vision for the city.

Among its key priorities and targets are a pledge to reduce the city's carbon emissions by 26 per cent of 2005 levels by 2020; and to make sure that 20 per cent of the energy used in the city will be produced within the Greater Nottingham area from renewable or low/zero carbon sources.

Paul Woodgates, Team Leader Bus Facilities Team Public Transport for Nottingham City Council said: "We're delighted with the



The Solisposts are strategically placed at the bus stops to help wheelchair users with drop kerbs.

solution, the lighting levels are fantastic and it was both cost effective and easy to install. We are especially pleased with the SolisPOST, the contemporary design makes this system aesthetically pleasing as well as functional."

www.zetaled.co.uk



Travel information is illuminated using Zeta's new ECOLUX SOLAR, their LED trough lighting system powered by solar.

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Zeta Specialist Lighting and Tara Signs deliver cost saving with innovative LED lighting solution

Zeta Specialist Lighting and Tara Signs have created a cost-effective, LED-lit futuristic feature wall for a newly refurbished office building in Vanwall Business Park, Maidenhead.

One of the key architectural-led design elements specified during the refurbishment, was to include a colour-changing feature wall at the back of the building's reception area; and to create a similar effect on the front desk.

Zeta's and Tara Signs recommended an alternative solution to the client's original plan, a move that reduced the cost by over £10,000. They had wanted to utilise an expensive acrylic substrate featuring an embedded pattern.

Tara Signs created an innovative four metre by two metre fabric covered installation, equipped with a Novatec box fitted with Zeta's RGB Embedded LED Panels.



The front desk and the back wall of the reception area, together creating a striking effect.

The feature wall is equipped with four DMX controllers that provide the client with the ability to access over 2,000 colour options. It is also future-proof, providing the building's tenants with the opportunity to add a company logo or new background to the skin if they wish.

The Embedded LED Panels have been programmed so that the colour changes and effects work together.

The second stage of the project included creating a similar colour changing feature on the front desk. Five metre by one metre opal polycarbonate panels with a digital print pattern were treated with UV laminate, and back-lit by Zeta's RGB Embedded LED Panels. This was controlled via three DMX controllers to work with the feature wall, delivering an "impactful, versatile and customisable feature".

www.zetaled.co.uk

ACRYLIC (perspex - including gold & silver) (10mm: white black & clear)

no minimum order

Height	100mm	150mm	200mm	250mm	300mm	350mm	400mm	450mm	500mm	550mm	600mm	700mm	750mm	800mm	900mm	1200mm
3mm	0.70	1.10	2.03	2.74	4.00	5.50	6.31	7.25	8.02	9.19	10.66	14.76	21.63	30.34	38.32	42.28
5mm	1.19	1.80	3.00	4.77	6.79	7.88	9.13	11.02	12.40	13.65	15.03	20.95	25.24	33.32	45.85	58.43
10mm	2.34	2.92	5.84	9.30	11.69	14.95	17.55	20.87	23.45	25.73	29.28	40.50	49.44	54.56	84.98	107.82

FOAM PVC (all available colours - 10mm & 19mm available in white only)

no minimum order

Height	100mm	150mm	200mm	250mm	300mm	350mm	400mm	450mm	500mm	550mm	600mm	700mm	750mm	800mm	900mm	1200mm
3mm	0.72	1.00	1.39	2.13	2.70	3.48	3.83	4.81	5.09	6.14	7.06	9.02	12.88	15.45	17.51	19.00
5mm	1.06	1.74	2.34	3.14	4.52	5.12	5.75	6.53	7.10	8.62	9.38	12.68	17.00	21.12	25.24	26.50
10mm	1.47	3.07	4.38	6.40	8.10	9.11	10.79	12.90	14.84	17.20	19.62	25.69	35.02	41.42	47.38	49.95
19mm	3.20	4.22	7.45	9.70	13.65	14.26	16.68	18.42	20.71	22.94	24.98	30.20	47.38	55.11	61.80	67.90

3mm ALUMINIUM COMPOSITE (Dibond, Alupanel)

no minimum order

Height	100mm	150mm	200mm	250mm	300mm	350mm	400mm	450mm	500mm	550mm	600mm	700mm	750mm	800mm	900mm	1200mm
Colours	1.69	2.34	4.02	5.57	7.00	7.83	9.25	11.26	13.80	15.47	17.00	20.98	24.10	28.10	36.00	50.59
Mirror	2.38	4.86	6.79	9.32	13.77	14.83	17.31	19.70	23.13	25.00	28.12	34.94	36.10	41.50	51.00	82.21
Brushed	1.96	3.28	4.39	6.12	8.83	9.85	11.15	13.16	15.28	16.77	19.08	23.61	26.10	31.50	39.00	56.92

MILL FINISH ALUMINIUM (Comes in its raw form ready for coating) no minimum order

Height	50mm	75mm	100mm	125mm	150mm	175mm	200mm	225mm	250mm	275mm	300mm	375mm	425mm	500mm	600mm	700mm
2mm	2.88	3.68	4.38	5.56	6.18	6.95	7.73	9.01	10.04	11.07	12.10	15.19	18.28	23.43	30.64	41.97
3mm	2.85	3.56	4.40	5.46	6.07	6.96	7.86	9.10	10.27	11.72	13.26	17.34	20.77	26.40	35.06	56.65
5mm	3.36	4.20	5.20	6.44	7.17	8.22	9.26	10.74	12.40	14.25	16.00	21.00	24.64	31.23	41.36	63.86

EXTERIOR MDF

Height	50mm	75mm	100mm	125mm	150mm	175mm	200mm	225mm	250mm	275mm	300mm	375mm	425mm	500mm	600mm	1200mm
6mm	0.36	0.82	1.18	1.60	2.40	2.55	2.95	3.70	4.27	5.09	6.60	9.30	10.70	12.10	14.20	43.16
12mm	0.88	1.52	1.88	2.76	3.85	4.52	5.30	6.12	7.29	9.12	10.00	11.60	13.70	16.80	18.82	57.23
18mm	1.55	2.40	2.91	4.00	4.95	6.05	7.50	8.40	10.60	12.10	14.50	16.60	20.21	21.80	28.50	85.36

Options Add 15% for locators and layout Add 30% for Cladded fascia drawing

MOULDED ACRYLIC LETTERING (Including locators and paper template) * including gold and silver

Height	152mm	203mm	254mm	305mm	380mm	457mm	610mm
Colours*	4.45	6.98	10.92	12.40	16.40	20.80	34.90

Stock Styles: HELVETICA BOLD, TIMES BOLD, & CLARENDON MEDIUM

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All signs lead to Tattershall Castle

Signmaking specialist Allen Signs has joined forces with Lincoln-based printing company Elpeeko Ltd on a project commissioned by the National Trust.

The free audio guides and signage around Tattershall Castle, near Horncastle, has a new look thanks to the two Lincoln-based creative companies.

Sara Blair Manning, General Manager at The National Trust, said: "Tattershall Castle is a unique heritage site that attracts a vast number of visitors every year.

"We decided to freshen up the castle and install new signs to help guide people around the site, as they had not been replaced in over 20 years!"

Elpeeko Ltd developed the design concepts while Allen Signs managed the manufacture and installation process. They created 12 audio boards, made from acrylic panels mounted onto bespoke ash timber plinths.

Our main focus is on design and print but sometimes we get asked to work on projects which require other capabilities such as producing signage



The new signs replaced one's that were 20 years old.



The boards were made from acrylic panels mounted into ash timber plinths.

"Our free audio guides are a great feature which help our customers imagine the castle in its medieval prime," says Sara.

"I am very pleased with the quality of work Allen Signs has produced. The team have done an excellent job to enhance the visitor experience at Tattershall Castle."

Glen Merryweather, Sales and Marketing Manager at Allen Signs, said: "It's been a pleasure to work on the Tattershall Castle project. It is a beautiful building which is of great importance to the county."

Clare Griffiths, Art Director at Elpeeko Ltd, said she decided to get Allen Signs involved after working with them in the past: "Our main focus is on design and print but sometimes we get asked to work on projects which require other capabilities such as producing signage. This is why we often team up with businesses such as Allen Signs who can provide the necessary expertise, and we look forward to working with them again in the future."

www.allen-signs.co.uk

New wayfinding signage for Dubai Airport

Dubai Airport has chosen Bright Green Beam™ for new and refurbished signage throughout the airport. So far the project has seen the Bright Green LED system installed into thousands of signs in Terminal 3, the exclusive Emirates terminal. Bright Green will have supplied lighting for all of the wayfinding in every terminal throughout the airport, once they've finished the work.

Bright Green Beam™ has been designed to be energy efficient; easy to install; and 'no maintenance' compared to traditional fluorescent tube lighting, reflecting the needs of the busy, round-the-clock airport terminal, says the company.

Dubai Airport, already the world's busiest airport in terms of passenger numbers, is undergoing significant development



At the end of the project Bright Green Technology will have supplied the lighting for all the wayfinding signs in every terminal in the airport.

to deliver their 2020 expansion plans. Specifying Bright Green Beam demonstrates the company's "commitment to quality"; the modules provide bright, even, illumination and the controlled LED binning ensure the signs look consistent throughout the terminal.

www.brightgreentechnology.com

Unusual vehicle wrap gets police attention

Police pulled over what looked like a van covered in rust, to find out it was a new Volkswagen Transporter covered in a vinyl!

Windmill Graphic Design created the bespoke design, whilst Clyde Wraps produced and wrapped the van.

Michael Dunbar, from Windmill, said: "We were delighted when a customer came in and asked our in house designer to create one-off rust artwork that made his new Volkswagen T5 Transporter Sportline look like

the paint had rust all over. What Clyde Wraps (Vehicle Graphics) produced was, in ours and the customer's mind, one of the best wraps yet.

"Judging by the response from everyone who sees it, and understands it, the majority of people agree. So thanks from Clyde Wraps."

They took exact measurements of the entire van over and above the blueprints they already held, to make sure the rust had run from door frames, handles, badges and mirrors. As well as add extra fake metal panels that look like they are riveted onto the smooth new van. "The more distressed we made it look, the better the end result of the rust," says Michael.

He said: "Once we had completed the artwork, which is not mirror imaged for either side, we printed in full colour digital vinyl and finished in a matt laminate to further dull the colours used. The van certainly stands out in a crowd, and our cus-

tomers said it only took three days for the police to pull him over to ask about all the rust. There is nothing illegal about going to town with graphics on your vehicle but it may confuse others!"

The rust van has had a lot of attention on social media, having gained lots of interest on news websites, high profile blogs and by celebrities. To read more about the project visit the blog: www.clydewraps.com/unique-rust-look-vw-t5-sportline



Epson supports emerging young artists

Several of the contemporary works on display in this year's Royal Academy Schools Show have been inspired and created using Epson's large format printers and projectors. Housed alongside the schools' historic studio spaces, the on-site Epson Digital Suite provides students with the opportunity to "experiment and create their unique pieces with the very latest Epson digital imaging technology available".

All 17 students have worked with Epson technology at some time during their three years course and it features strongly in several students' work at the show this year:

Caroline Abbotts combines and collects materials from both the chemical and the natural world to create her installations. She used an Epson large format inkjet printer to produce her Faders series of blue-toned silver gelatin prints imaged by the moon.

Epson is very proud to
continue its support of the
Royal Academy Schools
and its new generation
of emerging artists

Josie Cockram works with photographic print, moving images, sculpture and sound. Works on show include her Wanting series of inkjet prints on plywood, produced on an Epson printer.

Maria de Lima works across a range of media, spanning painting, video, print and sculpture, pivoted on explorations of colour and perception. Her Triumphal Arch inkjet print was produced on an Epson printer.

The only free three-year postgraduate art course in the UK, the RA Schools programme is tailor-made to the individual; "affording each artist the space and flexibility to develop their work across a wide range of media". It receives no government funding and relies on the generous support of its patrons and sponsors such as Epson.

Situated at the heart of the Royal Academy, the exhibition is held in the RA Schools' rarely-seen working studios. They provide



A blue-toned silver gelatin print created by Caroline Abbotts using an Epson large format inkjet printer.

visitors with the opportunity to view "exceptional" pieces from a new generation of artists. The finished artwork spans a range of media from painting to photography, sculpture, digital print and film.

Mark Hamson, Head of Materials Processes, Royal Academy Schools, said: "The standard of work produced by the students for their final show is, as always, exceptional and demonstrates the wonderful creative outcomes of the collaboration between the RA Schools and Epson. The purpose-built Epson Digital Suite allows students to experiment with and draw inspiration from the latest digital imaging tech-

nologies, often in unexpected and alternative ways, and supports their works across a vast range of media."

Nick White, business manager, Pro-Graphics at Epson UK, said: "Epson is very proud to continue its support of the Royal Academy Schools and its new generation of emerging artists. Through our mutually beneficial partnership we are able to offer the students the opportunity to work with Epson equipment and media to develop their creative ideas and produce some visually stunning works."

www.royalacademy.org.uk



The Cardboard Box Co competes in soapbox race with Zünd-cut car

The Cardboard Box Company raced for superhero glory in July at the Red Bull Soapbox Race, in a Lego Batman-themed car built with two Zünd digital cutting machines.

The team from Accrington-based Cardboard Box Company competed in the event as You Gotham Be Kidding Me. They were one of only 70 teams selected from hundreds of applications to race at the event at London's Alexandra Palace, which was shown on Dave TV.

Normally used in the design of packaging, The Cardboard Box Company's Zünd G3 L3200 and Zünd PNXL3000 have been instrumental in the creation of the soapbox car's shell of cardboard blocks.

"People go crazy on different themes for their cars for the Red Bull Soapbox Race, but we decided on Lego Batman," says Lee Mansfield, IT Manager at The Cardboard Box Company.



Normally used in the design of packaging, The Cardboard Box Company's Zünd G3 L3200 and Zünd PNXL3000 have been instrumental in the creation of the soapbox car's shell of cardboard blocks.

"The design was an exercise in trial and error. Our CAD designer Kris Howson used the Zünd cutting systems to create and cut the pieces to build a replica of the Lego Batman Batmobile, which were then fixed to the metal frame using hot-melt glue.

"For the final version, we printed the pieces on our Inca Spyder wide-format

printer and cut out the pieces with the Zünd's user registration application. On top of that we've got wings, flame-throwers and battery-powered flashing lights, plus the braking and steering mechanism we need to negotiate the downhill race with ramps and jumps."

As well as the car itself, the You Gotham Be Kidding Me members dressed as Lego Batman characters, with costumes also made using the Zünd machines.

"We built cardboard suits, complete with heads and bulky Lego-like legs," says Lee Mansfield, AKA The Joker.

"It was quite tricky as we're all different sizes but they look really good."

He said: "Red Bull checked in now and again to see how we're doing and were impressed by what we've done. They also sent us batches of Red Bull to keep us going over the past couple of months of designing and building the car!"

Nick Reed, Product Manager at Zünd Plotting Systems (UK) Ltd, said: "The Cardboard Box Company uses its Zünd G3 L3200 and Zünd PNXL3000 digital cutting machines for some really innovative packaging designs but we don't often see something like a replica Lego Batman car."



You Gotham Be Kidding Me's car was built as a replica of the Lego Batman Batmobile

www.facebook.com/yougothambekiddingmesoapbox
www.twitter.com/legosoapbox
www.redbullsoapboxrace.com/uk/en/team/you-gotham-be-kidding-me
sales@zund.co.uk

Stonework proves "no problem" for L&S Display's print, cut and wrap skills

When L&S Display had to create a bespoke graphic application to the outside of auction house Christie's, they produced a graphic substrate suitable for application; even though both the surface and the finish were "far from being typical" for digital production print.

L&S Display's task was to wrap part of the Christie's King Street Gallery in central London, working from visuals that demanded a specific type of material. They had to have high levels of adhesion to directly apply onto the stone surface of the walls as well as onto the pavement. They used their many years of experience in the wide-format arena, and with their highly skilled technicians, they provided Christie's with the "ideal solution". Using Asphalt Art non-slip media, which conforms "perfectly" to irregular and rough surfaces, the brief required a product which offered conformability and strength but was easy to remove when required.

The application was printed on their EFI VUTEk GS2000 2m roll-fed and flat-bed wide-format printer. This proved to be the ideal solution for generating the vivid green colour required. Each section was cut to size on their Zünd G3 digital cutter, leaving a clean edge on the finished application. The bold green visual graphic was produced and installed within very tight deadlines, and per-

formed "excellently" for the period required. "Because the building is stone, and we had an extremely tight install time, a conventional brick vinyl was not an option for us as the material would have needed to have been heated in," says Adam Broomfield, Sign and Display Sales Manager at L&S Display.

"We ran some tests on the Asphalt Art material from CMYUK and, because it adhered very well to the stone fascia and the pavement, it was immediately approved by Christie's."

The material was printed using UV-curable inks on the VUTEk GS2000, before being finished on the company's Zünd G3 in a variety of required sizes. Installation of the Asphalt Art media was also straightforward, and simply required a squeegee for it to adhere satisfactorily to the stone surface of the wall and to the pavement.

"This job is a typical example of the sort of challenge where CMYUK thrives on providing innovative solutions, from printer to cutter and to the most suitable materials," says Michael Crook, Commercial Director – Consumables Division at CMYUK.

"Although this was only a six-day project, it was vital that every part of the job was produced to the highest standards, was able to perform as expected, and was easy to remove without leaving a trace of residue."



Christie's King Street Gallery was partly wrapped for a special event by L&S Display using Asphalt Art, an EFI VUTEk GS2000 printer and a Zünd G3 cutter, all supplied by CMYUK.

Asphalt Art has been developed as a non-slip graphics material that is ideal for applications which need a durability of up to 12 months. It requires no over-lamination and is thin enough to conform to untreated and rough surfaces including stone, brick and paved areas. Simple and quick to apply, it is also easy to remove, making it a popular choice for events, wayfinding, street art and retail graphics.

"L&S was created in 1981 and, since then, we've been busy producing the highest quality print products for leading brands, institutions and the creative industries," says Adam.

CMYUK is the UK's long-term partner of EFI and the VUTEk GS2000 numbers among the portfolio of the company's wide- and superwide-format printers, which covers widths from 1.6m up to 5m in combination and roll-to-roll options. The company also is a key distributor for Zünd digital cutting solutions as well as products from Mimaki and Vortex. Its growing range of materials includes Asphalt Art media along with A Berger textiles, plus complementary framing systems from Spirit-Tex.

www.cmyuk.com
www.ls-display.com



PNG Digital helps John Roberts Associates achieve success

Blackpool based printers, PNG Digital, has helped one of the UK's leading clothing suppliers achieve success at the London Marathon Expo.

The Virgin London Marathon Expo is a critical part of the London Marathon, giving participants the opportunity to collect their running numbers, running vests, stock up on energy bars and check out the latest sportswear and gadgets.

With over 70,000 visitors this presented an unmissable opportunity for John Roberts Associates to promote their high performance Max Athlete and Max Velo bespoke clothing.

Once John Roberts Associates had committed to exhibiting they needed to organise their display stand. After initially considering various exhibition display printers, their design agency, RTD Creative, recommended local print specialists PNG Digital who produce everything from exhibition displays to business cards and brochures.

John Roberts Associates were "extremely impressed" with PNG Digital. Caroline Wells, Graphic Designer from John Roberts Associate, said: "It made a real difference dealing with PNG Digital as they are a local company, so we could discuss ideas and options with them face to face instead of just over the phone and by email. We were keen to keep our display simple but create a powerful impact and Mike Rawcliffe from PNG Digital was a great help; providing lots of advice on the best options for our first stand. We were delighted with the Mike's recommendations and the print quality of the stand was fantastic."



PNG Digital created the eye catching stand for their client at the London Marathon Expo.

John Roberts Associates were alongside some major exhibitors such as the NSPCC, ASTHMA, Macmillan and many sportswear manufacturers including Adidas who were the official sponsor.

Caroline said: "It was such a vibrant and exciting event to be involved in. We spoke to people from Ireland, America, Canada and Australia, all of who had come to London to take part

in the marathon. We received such a positive response to our stand that we've no hesitation in exhibiting again next year. With the amazing service we've received from PNG Digital we'll certainly be utilising their print services again for promotional material and any further exhibition display advice."

www.pngdigital.co.uk

Top prize for the ultimate garden hideaway!



Signage and point of sale specialists Floreeda Fabrications were invited by Manchester School of Art to create an invisible exhibit for the RHS Tatton Flower Show. Hand picked by BBC presenter Joe Swift, and featuring heavily on BBC2, the invisible shed scooped the top prize in the 'Shed of the Year' competition at the show.

Using Plaskolite Mirror supplied by Perspex Distribution, they took on the challenge to transform a plain garden shed into an amazing hideaway.

The original design was thought up by Manchester School of Art Outreach Manager, Clare Knox Bentham, and uses

Plaskolite acrylic mirror to reflect its surrounding environment.

Clare said: "It's certainly not the sort of thing you would expect in the middle of a garden show. An invisible shed make it the perfect secret place to escape the world."

Paul Jones, Director of Floreeda said: "We are delighted to win and we really enjoy producing work for Manchester Metropolitan University's School of Art and their students. We are used to being asked to create the weird and wonderful and this project was no exception".

Floreeda Fabrications specialise in bespoke acrylic fabrication and retail projects.

Vista System's LED illuminated signs shine at food chain

Vista System, who provide way-finding signage systems has recently followed another project to a "satisfactory completion" at the SPAR food chain, in the KwaZulu-Natal province, South Africa.

The SPAR was looking for POS, LED illuminated way-finding signs, to direct shoppers through the aisles; while giving an added decorative value to the shop, using appealing graphics. The project was carried out by DCP Signs, based nearby, using Vista Light Profiles with LED technology illumination.

Ian Lentz, the owner of DCP Signs, was satisfied with the easy installation, which had to be done overnight. He said: "As you can see, the pictures look great and I think everyone is suitably impressed. Going forward I think we may be able to offer more of these type of signs to our customers."

Vista Light is true to its name, says the company, providing both illuminating solution and a lightweight profile that can be easily lifted up and installed as a suspended sign for all to see.

www.vistasystem.com



"Appealing" graphics were used to add decorative value to the shop.



Vista Light Profiles were used, with LED technology illumination.

Go team go!

The Sussex Sign Company were "delighted" to be part of the launch for the University of Sussex Mobil 1 Team 2015.

"Pushing the frontiers of technology and design", the students produced a streamlined racing vehicle that challenges any Formula 1 car. The team raced against other universities from around the world at Silverstone in July.

The creative design for the surface of the vehicle was hand painted on the prototype by María Inés Aguirre. The Sussex Sign Company "brought it to life" with their expertise and experience and produced an immaculate full wrap for the final vehicle. It was unveiled to an audience of dignitaries such as Peter Field, the Lord Lieutenant of East Sussex, and Cllr. Lynda Hyde, the

Mayor of Brighton and Hove.

"We are proud to be supporting fresh, creative talent in all areas of design and this exciting project looks to be set for greater things," says a spokesperson

www.sussexsigns.com

Smart way-finding signage leads the way at the Termon Complex

L.E. Graphics, who required easily changeable signage for the newly built Termon Complex found Applelec's I-Sign Flex range was the perfect solution.

The Termon Complex is a sports and entertainment centre in the village of Pettigo, in Northern Ireland. The multi-use complex

provides facilities for the entire community such as a hi-spec gym, sports hall, and meeting and conference rooms.

The project was awarded 8.3million Euros of support through the PEACE III programme, a scheme that promotes reconciliation between communities and contributes to a shared society, through community projects in Northern Ireland and the Border Region of Ireland.

L.E. Graphics were tasked to design and supply signage for both the interior and exterior of the building, including way-finding, fingerpost and wall signage. Due to the uses of the rooms changing frequently, it was crucial that the way-finding signage was easily changeable whilst not looking like temporary signage. For this Applelec's I-Sign Flex range was the "ideal suit". The slim design of the I-Sign Flex frames complemented the architecture of the modern building, providing the look and feel of permanent signage with the ease and functionality of a snap frame. A combination of wall-mounted and



The system is easily changeable but does not look like temporary signage.

hanging I-Sign Flex frames were used throughout the building, each matching with a silver anodized finish and coordinated graphics provided by L.E. Graphics.

www.applelec.co.uk



The slim design of the I-Sign Flex product was found to be ideal for the wayfinding signage.

Digital signage offers Infiniti endless possibilities

W&Co supplied 55" freestanding digital signage screens to the car brand Infiniti, to display advertising videos and media slideshows in car showrooms and shopping malls around the country. Infiniti is the luxury car division of Japanese car manufacturer Nissan.

The client needed high quality digital screens to complement their premium brand image, and for "ease of use whilst also enabling the client to promote their brand in an eye-catching and engaging way".

Infiniti had several key locations around the UK where the digital signage screens

were to be used. These locations ranged from shopping centres such as Intu Newcastle and Bluewater in Kent; through to local town based car dealerships in South Shields, Leeds, and Maidstone.

The concession stands within the shopping centres acted as a pop-up car showroom with three or more cars on the stand. Ad the screens were located in prime visual locations to attract attention to "increase the public awareness of the brand".

They chose the tablet style 55" inch freestanding screens, which are portable and were USB enabled as standard. But also utilised the screen's LAN and WiFi connection to upload media from the client's dedicated advertising login on their signage portal.

Using W&Co's system they can upload their content to one or more screens at the same time. The advertising content management is run through their professional digital signage portal. This is an easy-to-use resource allowing the client to change image transitions quickly; add video and sound; and program RSS feeds directly to each of the supplied screens in all the various locations.

"As the Infiniti brand develops in the UK and new dealerships and concessions are required W&Co look forward to helping them with further digital signage screens," says a spokesperson.



W&Co supplied these freestanding digital signage screen at Infiniti's pop up show in Bluewater shopping centre.

EDUCATION Feature

What's new in education and training for the signage sector

From ever-popular vehicle wrapping courses to new workshops being unveiled later this year, there is plenty available to sign makers in the way of education and training. Jemima Codrington spoke with leading course providers throughout the UK to learn more.

The array of workshops offered by The Antalis Digital Academy has proved popular since launching last September. Aimed at print service providers and sign makers, these small and large format workshops call upon experts in their fields to teach delegates the latest techniques and applications.

The workshops take place both at the Antalis head office in Leicestershire, and throughout the UK during on-site events. Courses include Colour Management, Sign Making, Vehicle Graphics Application and Vinyl Application.

"Our aim is to add value to our customer's businesses, and train them in what is

often new product or application areas," says Giles Bristow, Digital Support Manager, Antalis. "We train attendees in a dedicated learning environment that involves expert trainers in their own fields, so that they can go away with skills to undertake new applications and jobs and therefore expand their business."

Those new to the signage industry can attend an introductory sign makers workshop, while there are more specialist courses available covering the application of different types of vinyl, along with vehicle wrapping. The initial sign makers workshop is proving hugely popular, something Giles attributes to the number of commercial print-

ing ventures that are investing in large format digital equipment, and looking at large format and sign making as ways to develop their businesses. Another popular workshop is aimed at sign makers that use Roland products, called the Roland VersaWorks Advance workshop, and it trains users specifically on these machines.

The courses began running in September 2014, and by the end of July this year, Antalis had run 45 workshops throughout the UK. The team travel anywhere from Devon to Scotland to carry out the workshops, and there are plans in place for a regional academy in Yorkshire in September.

Expanding education for sign makers

In addition to looking at the number of courses offered, Antalis are also examining areas of expansion that could be beneficial to sign makers.

"This year, we are looking at offering courses in things like exhibition graphics, and lamination and finishing," says Giles. Antalis

already run a range of workshops on colour management, an area Giles cites as being of growing importance, but they plan to expand further to provide more in-depth training with specific manufactures of RIP software. "Sign makers need to be able to use printers to provide consistent, repeat-



The facility has dedicated seminar room, complete with electronic white board and product samples.



The Digital Academy is based in the Antalis head office in Leicestershire.

able colour. If they have to make more than one product that features corporate branding for a client, the colour is going to have to match across all those products perfectly."

One of the major benefits of the courses offered at The Antalis Digital Academy is the expertise of the instructors. Rather than have one educator across all courses, an expert in the related skill or product oversees each workshop. For example, experienced sign maker and regular figure at Sign & Digital UK Paul Hughes is one such instructor, overseeing the workshops relating to sign making and vinyl application.

According to Giles, another benefit is the low cost of attendance. "Antalis run these courses and only charge a nominal fee, because for us, it's about improving the relationship with our customer and adding value to their business," he says. "I have lots of positive feedback from clients where they have been able to take on extra work because they now have the skills to be able to do that, simply by taking a workshop with us."

www.digital2business.co.uk



Sign makers can learn in a contemporary environment.

For sign makers interested in vehicle wrapping, there are regular courses held at Grafityp UK Ltd. The courses were launched to accompany the introduction of the GrafiWrap Vehicle Wrap films for printing and their corresponding laminates, produced by Grafityp in Belgium.

One of the original providers of these types of courses, Grafityp has long been committed to furthering the skill sets of sign makers.

"At Grafityp, we wanted to offer people the chance to learn this new and exciting skill to the best of their ability, ensuring that both they and our products maintained a high reputation," says Debbie Astle, Marketing Manager, Grafityp UK. "With vehicle wrapping here to stay, this course remains extremely popular."

Debbie notes that there has been a constant interest in vehicle wrapping courses. "Full colour printed bespoke wraps are a popular choice for commercial fleets, small businesses, buses, and taxis." In addition to learning about wraps for personalis-



A wrapped vehicle sporting GrafiWrap Colourwave.



Attendees at a GrafiWrap Vehicle Wrapping Course.

ing vehicles and advertising, course delegates can discover newer trends as well, such as colour change wraps and special effect films, such as those in the GrafiWrap Auto FX range produced by Grafityp. This collection of films offers vinyls with effects such as textured leather, metallic, brushed metal, carbon fibre, flock and many more in lots of colours. "Partial or full wraps in these materials can look fantastic on small vehicles as well as prestige cars, but wrapping isn't only restricted to vehicles. Many household objects, furniture items and shop fittings can look just as stunning," adds Debbie.

The courses provide practical hands on experience of wrapping a vehicle successfully, covering steps such as applying in recesses, removing and replacing vehicle furniture and cutting neatly, along with selecting which tools to use, and many other tips and tricks. "There is also a classroom aspect to the course dealing with the design and RIP software," says Debbie.

..... Continued on page 68

EDUCATION Feature

As well as offering vehicle wrapping, Grafityp hold Textile Workshop Seminars in conjunction with garment films manufacturer Siser.

Textile printing, garment preparation and décor, along with t-shirt and screen-printing have become more popular offerings from sign makers in recent years. Grafityp stock a comprehensive range of garment transfer materials for both CAD cutting and printing transfers for heat application. This workshop gives delegates the chance to try out the materials, stay up to date on the latest products, and get tips and tricks on applications. They can also speak to the manufacturers directly to become confident in applying transfers to all kinds of materials. These workshops are held a couple of times each year, with the next available dates being 30th September and 1st October.

Grafityp also provide basic training along with machinery installations for the Roland range of printers and print and cut machines, the LaserPro range of engravers, cutters and markers, and cutting plotters.

www.grafityp.co.uk

Offering sign makers a varied range of courses



Grafityp seen on the Audi Team race car.

Roland DG UK's Academy is a facility in which sign makers can find fresh inspiration and skills to develop their businesses. Since its creation in 2006, the academy has consistently provided support not only to seasoned professionals, but also to those new to the industry, or those looking to diversify into lateral markets.

Roland DG Corporation is a leading manufacturer of products designed to help professionals and hobbyists transform their imagination into reality, including SOLJET, VersaCAMM, VersaUV and Texart series large-format inkjet devices. In addition to these product offerings, Roland DG also run a number of courses to inspire imagination and provide hands-on experience for sign makers.



Joe Wigzel, Roland DG Academy and Creative Centre Manager.

The Roland DG Academy is an industry-recognised training facility available to businesses and individuals working within the heart of the creative industry – from sign makers to vehicle wrappers, textile printers to merchandisers. Offered at two central UK locations, Bristol and Walsall, the Academy presents attendees with an ideal, engaging learning environment equipped with modern training technologies in order to stand out and get the most out of their businesses.

"Our Roland Academy presents attendees with clear, practical and inspirational content that opens their eyes to new, profitable possibilities and opportunities in their fields," says Joe Wigzel, Academy and Creative Centre Manager. "Versatility is important in today's signage and print market, and the Academy and Creative Centre help make this transition easy and natural."

The Creative Centre plays a large part in the support of both new and familiar customers. Based in Clevedon, the centre is filled with examples of what sign makers can develop using Roland DG technologies, including signs, packaging, engraved products, textiles and even 3D models. For those unable to attend the Creative Centre physically, there is an online Creative Centre Virtual Tour, in which past attendees can continue to be inspired from their own offices or homes.

Courses offered within the Academy are designed to suit all skill levels, ranging from the basics of software applications to production methods and beneficial technology advancements. There are full-day, half-day and taster sessions provided, alongside

longer industry-specific courses such as the two-day Vehicle Wrap course held at Walsall Academy.

An all-in-one solution

In order to facilitate what Joe calls an "exchange of wisdom and imagination", Roland DG offers Academy courses with the majority of print products that are sold.

For example, the Introduction to Digital Print course is offered alongside the compact VersaSTUDIO BN-20, and the Intermediate Digital Print course is bundled with the advanced SOLJET PRO-4 XR-640, offering support and knowledge to all business levels. Better Business Bootcamps are also provided for those interested in knowing more about a machine they are looking to purchase, such as the successful Texart Dye Sublimation Better Business Bootcamp.

"For those with more specific needs, Roland DG also run courses on Vehicle Wrap and Application based at Walsall College, providing the groundwork for those looking to diversify into a profitable new sector," adds Joe. Lamination courses are also run in conjunction with Vivid Laminating, offering additional skillsets and developed knowledge to many print markets.

www.rolanddg.co.uk





Following the initial success of their G-Floor printable flooring, Soyang recently held a one-day free training session to educate sign makers and printers on the finer points of installation and sales.

The training event took place in the Soyang premises in Lancashire, with about 40 people in attendance.

Given the success of the new product, Sales Director Bill Rothe and Fitter Tony Spratley flew in from the United States to educate the UK market and run the seminar.

"The training day was an opportunity for Soyang's existing G-Floor customer base to come along and participate in a practical workshop on how to fit it," explains Mark Mashiter, MD, Soyang. "G-Floor is a unique product, and there are many creative possibilities, so they (attendees) were given insight into how to increase revenue with G-Floor in their portfolio. It was very beneficial to the sign makers that attended in helping them get the best out of their products."

The day involved a live demonstration, during which the G-Floor was fitted in the Gymnasium. Tony took three pieces of material that needed joining together, and showed attendees how to put the material down with adhesive, and how to finish it on the edges and seal it properly.

G-Floor printable flooring has proven to be successful with printers looking to provide their client base with the latest in rich graphic media. The product is designed for use with both UV and solvent inks, and can be printed onto directly for second surface viewing.



Delegates watch a fitting demonstration at the G-Floor training day.

For any sign makers looking to offer vinyl floor graphics, the product is ideal, and the interest in it can be seen when looking at the turn out for the training event.

While there are no immediate plans for another training day, Mark says the team are looking at other possibilities, such as a road show, for the future. "When you get people

together under one roof, in almost a classroom setting if you will, the focus is much more apparent," he says. "When people are outside their own working environment, they're quite relaxed and very focussed on what they're coming to see."

www.soyang.co.uk

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Push and pull symbols are changed to red and green

The innovative Push Pull signage system has had a makeover to make them even more effective, following a final year study at Oxford Brookes University.

Alastair Cook, who created the Push and Pull symbols, had an offer from Angus Gellatly, Professor of Experimental Psychology at Oxford Brookes University, to run an independent final year study on the signs. The project was supervised by Professor Gellatly and the test design and report was undertaken by Meera Dulabh. Retail chain Carpet Right assisted to provide a live site for sign testing.

The conclusions Alastair drew from the final report were that red and green were

preferred colours and that the signs should be changed to use vertical text for the words Push and Pull.

The colour coding of the push and pull symbols adds a crucial distinction which would be particularly helpful during an emergency. He said about the colour change: "Another reason for the colour changes, is that red is associated with danger and stopping (ie pulling) and green is go, or pushing ahead."

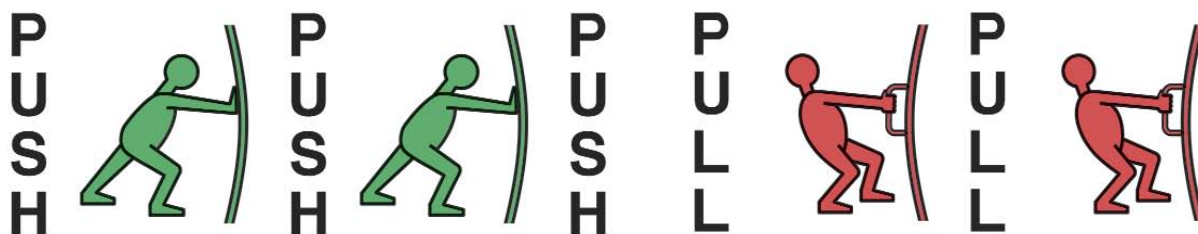
It was concluded that vertical text made it easier to read all the letters as they come into focus at the same time when approaching from the side along a street.

The signs are protected by OHIM Reg-

istered Community Designs in Europe and Design Patents in the USA. A Trademark of "PUSH & PULL MAN" was also registered with the UK Intellectual Property office.

Alastair first had the idea to create universally recognisable symbols for push and pull in 2009. Over the years he has developed and registered a range of different push and pull symbols. The final design is available to buy as a non face adhesive sign through a distributor on Amazon.

For the full story on the development of the signs, visit www.pushandpullman.com. The website also has details of how to buy the signs.



Xaar celebrates 25 years

This year marks 25 years at the "forefront" of global inkjet technology for Xaar, the world-leader in industrial inkjet printheads.

Xaar began in 1990 as four people in a small office on Cambridge Science Park. Their goal was to develop and commercialise the digital inkjet print technology arising out of work done by Cambridge Consultants. Today the company employs over 600 people worldwide, based at three buildings on the Science Park, at manufacturing facilities in Huntingdon and Järfälla, Sweden, and in offices in Hong Kong, India and the US.

Over the last 25 years Xaar has proved itself to be an inkjet innovator many times, says the company. Their 128 printhead "transformed" the wide-format printing industry 20 years ago; even today Xaar technology still drives approximately 75 per cent of the wide-format printers in use.

To mark its 25th anniversary Xaar is organising a programme of events during the summer and autumn. This includes a number of company-wide charity challenges, starting with a 26-strong Xaar team doing a 60-mile London to Cambridge Bike Ride to raise over £2,000 for Breast Cancer Now. Other challenges planned are the Chariots of Fire relay race in September (for East Anglia Children's Hospice) and October's the Byte Night sleep-out in aid of Action for Children. Richard Barham, Xaar's Chief Cus-

tomor Officer, said: "We're immensely proud of what we've achieved over the last 25 years, but we know we couldn't have done it without the advantages that come with being in Cambridge; not only our people but also the superb high-technology support infrastructure that's in place. By linking our anniversary celebration with support for these charities we are giving something back, while also showing that we remain an energetic

company with a strong drive to succeed."

For more information about the charities supported through Xaar's 25th anniversary celebrations see websites:

Breast Cancer Now:

breastcancernow.org

East Anglia's Children's Hospices:

www.each.org.uk

Action for Children:

www.actionforchildren.org.uk



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3M sponsor the 2015 British Sign Awards

3M will again be the headline sponsor of the prestigious BSGA British Sign Awards in 2015, following its inauguration in 2014. The winners of the 14 different awards categories will be announced at a celebratory lunch and awards presentation on 13 October.

This renewed 3M support will be augmented by additional support from the company's two primary UK distributors, William Smith and Spandex. 3M's largest UK stockist and distributor, William Smith, will sponsor two awards in the vehicle wrapping sector: the Commercial Vehicle Graphics Award and the Personal Vehicle Graphics Award.

Spandex will sponsor the 3M DI-NOC Interior Signage Scheme of the Year Award.

3M DI-NOC films are available from Spandex as the 3M Master Distributor for these products; as well as from William Smith as part of this company's vast portfolio of 3M films. The films are among the "latest and most innovative" materials supplied by 3M for architectural interior and exterior décor applications. They replicate the appearance and feel of genuine materials as diverse as solid woods, stainless steel, marble and stone but at a fraction of the cost, according to the company. 3M DI-NOC films are available in



a wide choice of over 700 different finishes, and like all 3M materials are supported by performance warranties.

Over the past 40 years, 3M's Commercial Graphics Division has been providing premium-grade signage and graphics solu-

tions to key markets, such as the commercial fleet and personal vehicle graphics; rail and transportation; corporate ID; and retail/point-of-sale sectors.

www.britishsignawards.org

Arlon announces new industry blog

Arlon has a new blog, Arlon HUB™, which features content on the sign, graphics and automotive industries. The blog will be comprised of content authored by Arlon contributors, "tapping into the many facets of knowledge" from Arlon's Sales Team to the Operations Team.

Arlon HUB will be focused on topics from all areas of the industry, as well as offer a platform where readers can engage with their contributors directly. Many of the blog posts will include visual content such as videos and tips and tricks.

"An industry blog is one of the many ways we are trying to further promote industry education, and find other ways to connect with our end-users," says Holly Curtis, Director of Marketing Communications, Arlon Graphics, LLC.

"Leading our industry in terms of technology is a huge focus for Arlon Marketing. We hope by creating this blog that we are able to create a community hub where people can look to us for advice and expertise."

www.arlon.com/blog





XYZ International relocates to a new facility

XYZ International, who supply CNC routing, engraving and cutting solutions, has relocated. They have moved from their former main facility in Wolverhampton to a much larger and more strategically located site on the Telford T54 Business Park.

President of the parent company in Canada, Alf Zeuner said that the £1M investment demonstrated the confidence that XYZ International had in its expanding UK and Continental Europe operations.

UK Managing Director, Mark Sweeney, said: "Having outgrown the capacity of our premises in Wolverhampton, both in terms of volume of output and the size of the machines being supplied, we recognised the need to relocate to a larger, more technically advanced and strategically located site. Situated next to the M54 motorway with links to other major road networks, the state-of-the-art facility will enable a 100 per cent increase in our assembly, supply and demonstration capabilities. The latter features a continually expanding range of machines within a much larger showroom."

The extended demonstration facility can house up to four of the larger machines in their international portfolio of XYZ (including the recently launched Trident integrated cutting and finishing solution), Pacer and Z machines. A bigger workshop also allows for greater machine building, refurbishment and storage capabilities. While a



dedicated new loading bay will help speed up the transportation machines and accessories.

XYZ International Vice President – Market Development, Robert Marshall, said: "This is a major and seminal stage in the company's ongoing development and one that will greatly enhance our machine assembly and supply capabilities. CNC routing, engraving and cutting solutions under our

primary XYZ and Pacer power brands continue to command a strong presence in the key markets we serve. These include predominantly the sign manufacturing, plastics and metal fabrication, industrial woodworking, furniture production and panel processing sectors."

www.xyz.com

Jet confirm five-year partnership with Astley

Jet, a leading brand in the petroleum arena, has confirmed another five-year agreement with Astley. This takes their working partnership to a 15 year affiliation.

Astley was appointed an approved Jet signage contractor in 2005 and has since worked on each of their 330 sites.



The Astley directors (left to right) David Redhead, Gavin Redhead and David Forrester.

The agreement will see Astley design, manufacture and install the signage for site specific brand refresh projects, as well as new sites and also includes a full maintenance programme.

The new contract comes as the company, which was founded more than 90 years ago and has been owned by the current directors for 25 years this year, looks to increase its offering to clients in the south of the country and grow its portfolio.

Working within the petroleum sector, Astley is fully aware of its health and safety obligations and has numerous accreditations and operating permits.

David Forrester, Sales Director of Astley, said: "We are delighted to have been awarded a further five year contract. This agreement will safeguard the future of our employees and allow us to continue with our strategic growth whilst working with one of the leading petroleum brands. We have worked within the sector for many years and have the skills and expertise to deliver results."

Astley's portfolio of clients comprises many of the UK's leading brands such as Waitrose, Lloyds Pharmacy, BskyB, Hilton Hotel Group and Frankie and Benny's.

Since re-launching in 1990 following the management buyout, the company has seen annual turnover increase year on year. In 2012 they did a major rebrand, which saw the company become Astley to incorporate Astley Signs, Astley Imaging and Astley Maintenance.

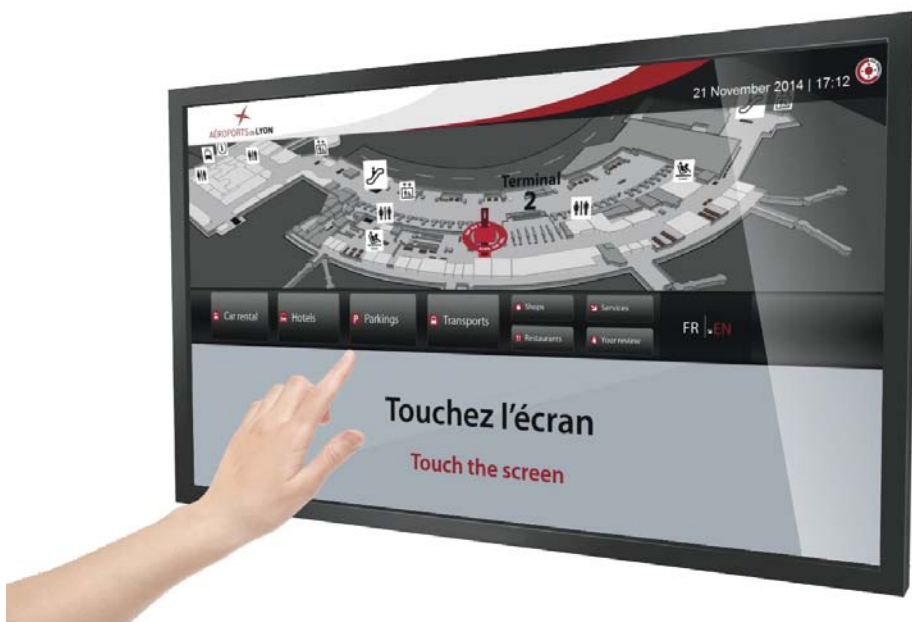
BrightSign and Avnu Digital alliance

BrightSign, LLC® has announced an alliance with Avnu Digital Inc., who make and distribute commercial-grade digital displays. Avnu has selected BrightSign's award-winning media player technology to integrate with key displays from its product line. This turnkey digital signage integration, along with BrightSign's free BrightAuthor software, delivers a "complete solution" to the commercial AV market. Avnu's BrightSign built-in product line includes commercial-grade touch and non-touch displays that are floor standing, table or countertop standing, and wall or shelf mounted.

"We are pleased to join forces with Avnu Digital to provide a versatile line of integrated commercial displays," said Jeff Hastings, CEO of BrightSign.

"We have found a number of businesses that want to adopt digital signage but are apprehensive due to the perceived complexity of integrating displays and media players. Avnu's line of products with our built-in platform solves these problems by offering simple, reliable and affordable solutions."

www.brightsign.biz



Avnu has selected BrightSign's award-winning media player technology to integrate with key displays from its product line.

GPT appointed reseller of HP's new Scitex printers

Graphic Printing Technologies (GPT) has announced that it will be a key reseller for HP's new range of flatbed industrial printers; the HP Scitex FB550 and FB750.

GPT is encouraging customers to book a full demo to learn more about the printer

range and how it can drive revenues and profitability in their business. GPT has also confirmed it will have an HP FB550 in its own showroom in time for the company's PrintoFest event on 7 and 8 October.

Shaun Thompson, General Manager of

GPT, said: "This is a hugely exciting announcement for GPT. We only started focusing on the HP Latex range at the start of this year, and we have already exceeded our sales targets, thanks largely to a very successful Sign & Digital show. Being appointed as one of the key resellers for the new HP flatbed printers further promotes our relationship with HP."

Jane Rixon of HP says, "GPT has shown an excellent understanding of the industry and, more specifically, of the specific requirements that customers are looking for. They are a responsive, professional organisation with a lot of technical, market and application knowledge. We know they are also very strong in the flatbed printers market and we are very much looking forward to growing a solid and successful partnership with them."

HP Scitex FB550 and FB750 Printers provide print and graphics production companies an entrance into rigid printing with one of the most compact printers. It is equipped with an enhanced loading system, which increases workflow for "improved profitability". With high uptime and automatic maintenance, the HP Scitex Printers are proven "robust, easy-to-use workhorses" printing on both rigid and flexible media with a single device.

www.g-p-t.co.uk



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Trophex 2015

Trophex 2015 proved to be yet another successful show for the trophy, awards and personalisation industry. The industry was well represented says the organisers, with all the big companies from the world of trophies, lasers and engraving, sublimation and personalisation, printing and embroidery solutions there.

Trophex gives visitors the chance to see what's new for the season ahead as there is always an exciting array of new products; newly designed trophies and awards; and the chance to pick up the latest catalogues for the new year. Many exhibitors give away exclusive special offers on their stands.

Trophex returns to the NEC Pavilion in Birmingham, UK from 17-18 January 2016. The show is free to attend and there is no charge for parking.

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Next year's exhibitors to the show include HPC Laser who will be bringing a range of laser cutters and engravers, which we will be running throughout the show. This is the perfect chance for everyone to come and see the power and precision of the laser script range and talk with their experienced engineers. They are also offering a 3 per cent discount to anyone seen at the show and will be holding a competition with a grand prize of £1000 off a new laser cutter.

ErayKristal from Turkey return to the show after a four year absence. The company are one of the major suppliers of sublimation transfer materials across Europe and have been serving the industry for many years. At the show they will be presenting their coated aluminium amongst other products; this combines high transfer performance with a competitive price for the European market.

Radecal Machine Sales are new exhibitors to the 2016 show. The company are manufacturers of high quality industrial machinery from CNC routers, laser cutters and engraving machines. They are also resellers of big names such as Roland DG, VIVID, ARISTO and MakerBot 3D. After continuous growth in sales and increase in demand for CNC routers, they have expanded their workforce further.

www.trophex.com



The Magic Touch stand.

Berger Textiles "more popular than ever"

Specialist wide format print technology provider CMYUK said sales of Berger Textiles for digital textile printing are at their highest ever. The trend is set to continue according to the company, which reflects the exponential growth of digital textile printing in the UK.

CMYUK started researching and developing the market for digital textile printing in the UK, when they first identified it as a growth market for the wide format industry, four years ago. And the appointment of CMYUK as exclusive distributor of Berger Textiles at a time when many textile consumables suppliers were ignoring the UK market, is paying dividends according to consumables manager, Michael Crook.

"Because of the flexibility and advances in technology, we knew that textiles would be a growth area for our customers in the sign and display market. So we invested the time and effort in understanding digital textile printing from the very beginning. As a result, we are now in a great position to help customers choose the right fabric media for their printer technology; whether it's UV or dye-sub," says Michael.

Early on, CMYUK launched its Fabric Specifier application on its website, which allows customers to identify the right textiles for their printers in four easy steps. Users can select a media either by printer model or ink type and then select application and finally environment.

"We chose an online specifier because



it allowed us to showcase the full range of textiles and capabilities of the fabrics, once we had conducted our own thorough testing," says Michael.

"One fabric may have several usages, but these applications may not be very obvious to the user. So it was important to us to test each one and work out market usages

for the different medias. In essence, we did the market research on the fabrics so that our print customers would be able to inspire their customers and creative agencies to produce bespoke items, displays and much more using digitally printed textiles."

www.cmyuk.com/berger

A1 Designs recently launched their new website, which serves as an inspiration for some wonderful signs. Specialists in neon and cold cathode, their projects and contact details can be found at www.a1designs.co.uk



Roland DG launches guide to dye-sublimation printing

Following the launch of Roland DG's Texart RT-640 dye-sublimation printer and Texart CS-64 Calender Unit, they have launched a guide to dye-sublimation technology, and the many business opportunities it presents.

Whether a company is new to the print industry, unfamiliar with the technology or is looking for tips to maximise their current investment, Roland DG's Dye Sublimation Guide with Digital Inkjet provides a "succinct and inspirational" overview of this market.

The guide contains:

- Introduction to the dye-sublimation process; the technologies harnessing its capabilities; and what it means for users in specific markets.
- Application possibilities in a host of creative sectors, from soft signage and rigid surfaces to interior décor and fashion
- Software and other complementary technologies driving its development
- Inspiring user stories

"There is a lot of untapped business potential in the dye-sublimation printing market and we want to help our customers to capitalise on the opportunities within it," says Darren Penny, Head of Sales, Roland DG (UK & Ireland).

For those looking to further their knowledge of dye-sublimation, The Roland Academy also offer a hands-on Texart Dye Sublimation Better Business Bootcamp which offers a comprehensive overview of the products, processes and market.

To request a free copy of Roland DG's guide: www.rolanddg.co.uk/dye_sub_guide/





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Perfect Colours "Try and Buy" scheme

HP reseller Perfect Colours will add the HP Latex 360 and 310 series to its "Try and Buy" scheme. This offers printers the opportunity to trial the popular, versatile wide-format machines for two weeks with free delivery and installation. There is no obligation to buy after the demonstration period and Perfect Colours will take the machine away for no charge if required.

"This initiative is great for companies that want to get their hands on a richly-featured printer with no upfront costs," says Jon Telling, sales director at Perfect Colours.

"All service will be carried out free of charge, meaning that there is nothing to lose for users taking part in this scheme; they can see if the machine is right for them

with out any risk. We want to show printers using old or discontinued models how they can grow efficiently and cost-effectively into new markets, such as soft signage or interior décor."

At 1.5m and 1.4m respectively, the HP Latex 360 and 310 are entry-level machines "perfect" for printing onto standard sign and display materials. But also good for some porous media, such as textiles and apparel, with the 360 even producing jobs at full bleed. They create scratch-resistant output that can be left un laminated and displayed outdoors for up to three years, thanks to the use of third-generation Latex inks.

www.perfectcolours.com/contact-us



The Latex 360 has become one of the most popular options in the HP Latex range.

Avery Dennison 2015 'Wrap like a king' challenge opens

Avery Dennison Graphics Solutions has announced the 2015 "Wrap Like a King" Challenge, which runs from 1 July to 30 September. Vehicle wrap installers from 42 countries around the globe can submit commercial or colour-change wrap projects, to be judged by a panel of industry experts.

"After great success with our 2013 and 2014 "Wrap Like a King" Challenges in North America, Avery Dennison is including Europe this year, to make it a challenge of global proportions. We're excited to have a much broader community participating this year, and I cannot wait to see what reative designs our installer base will submit," says Eric Ide, global director, wrapping films, Avery Dennison Graphics Solutions.

"We are encouraging wrap installers to show off their creativity and techniques using commercial and colour change wraps."

Submissions will be evaluated by the judges against peers, and regional winners announced in October. The overall winner will be chosen by the judges as the best in show and crowned the 'King of the Wrap World' at the 2015 SEMA Show, November 3-6, 2015 in Las Vegas.

All regional winners will receive a trip to the 2015 SEMA Show in Las Vegas, where the 'King of the Wrap World' will be crowned. Prize packs also include a 2016 Avery Dennison wrap class; personalized Wrap Like a King swag; a variety of promotional and marketing tools for the winner's wrap shop; and exposure on Avery Dennison's Instagram, Facebook® page and website.

Wrap installers are encouraged to enter a vehicle wrap project using Avery Dennison Supreme Wrapping Film™ or digital cast films via www.wraplikeaking.com, where official rules, judges and prize information are also posted.

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www.wraplikeaking.com

SimpleFIX launch a new website

This month sees the launch of a new and updated website for the simplefix range of fixings. They have a new ordering system and an extensive range of new products such as glues and sign making consumables.

Managing Director Mark Ashcroft said: "This is something our clients have been requesting, and we were only too happy to build the website to enable our customers to purchase their requirements with ease.

"We have seen excellent growth in the demand for our fixings and have taken note of the requests our customers have made to increase our range of products.

"We are therefore extremely happy to accommodate our loyal and growing customer base, allowing them to order all their goods in one place and offering a next day delivery service."

The new website comes only eight weeks after the company was awarded ISO 9001 Quality and ISO 14001 environmental accreditations.

SimpleFIX also comes with UV stabilised and frost resistant cups in Black and White as standard, along with a life time guarantee.

www.simplefix.co.uk



Soyang Europe celebrates 10 years of "outstanding" growth

This summer Soyang Europe is celebrating 10 years in the digital print media industry. There has been tremendous growth for the company over the last decade; with innovative new products, staff expansion and new premises, says the company. This looks set to continue with new additions to its flourishing product portfolio anticipated.

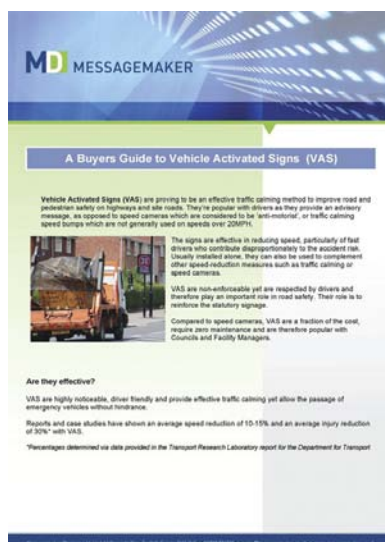
Established by Managing Director Mark Mashiter, and two other founder directors, Soyang Europe's original team of four UK staff initially worked out of industrial premises in Oldham. Mark said: "Our first three containers of material were paid for on credit card. But within 12 months we had to take on extra warehousing space, and shortly after relocated to a 17,000sq ft. warehouse in Bury to deal with the demand."

After making sure its core 'So' product ranges were established in an expanding customer base, they went on to develop partnerships with both Portuguese PVC and acrylic coated media supplier Endutex in 2007. As well as German technical textile specialists Aurich in 2010. "We have always been committed to providing state-of-the-art media," says Mark.

"Our product range has continued to grow over the last 10 years and the breadth of applications now achievable is astounding. We continue to provide a substantial range of quality materials for general print production."

Since 2011, the Soyang Europe team has expanded further, with sales director, Andrew Simmons and sales managers, Tim Egerton and David Hunter coming on board to further the core business. In March 2014 they bought their current site, a 70,000sq ft. premises in Altham, Lancashire

Soyang Europe's capacity for "thinking outside the substrate box" has led to the European launch of a selection of innovative new products. Its vision of having 'Every Surface Covered' for its customers leads its team around the globe with cutting-edge materials for the sign and graphics industry.



Safety in action

Vehicle Activated Signs (VAS) have been proven to make a real difference to the number of accidents, by reducing speeding by up to 15 per cent and encouraging motorists to drive more safely. This is attributed to directly targeting driver behaviour through dynamic feedback.

Reinforcing statutory signage, VAS enables faster drivers in particular, whose road behaviour may contribute disproportionately to accident risk, to be targeted. The signs use a programmable Doppler Radar Detector, which is triggered by oncoming vehicles approaching at above the pre-set speed levels. The signs work on a psychological level, sending a message to the brain which trig-

gers an automatic impulse to decelerate or brake. Consciously, the signs provide a timely reminder to slow down and be more observant on approach to hazards and areas where pedestrians could be at risk. The signs are popular with motorists, providing an advisory message rather than legal enforcement. They are suitable for any type of vehicular access such as emergency services and along bus routes.

LED sign specialists Messagemaker have recently published a guide designed to help highways and transport planning specifiers decide whether VAS is suitable for them; and to choose which VAS is right for their local needs and issues.

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Process Colour with CMYK

Neon inks can be printed not only as "Spot colour", but also as a part of traditional CMYK "Process colour". Mixing the two neon colours with other colours also gives a fluorescent effect to the other colours.



Visible Type Inks

Neon inks print eye catching brilliant colour under normal lighting. Nice for short term POP applications, special events and trade show decorations.



Glows Under Backlight

Neon inks glow under backlighting, so they are perfect for "Night Graphics" - signs and graphics that stand out in dark environments such as arcades, night clubs, casinos, pubs and special events.



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A2B Signs & Graphics

A2B Signs and Graphics required a new wide format printer to sustain their high output demand. After testing several different makes and models the company purchased a Seiko ColorPainter M-64s from Signmaster Systems in June 2014. Managing Director James says "We have always found the service from Signmaster both prompt and reliable and the decision to buy the ColorPainter M-64s was made based on price and performance. I was very impressed with the print speeds at high quality and the colour output is great, we have never had any problems with Pantone matches. Overall the Seiko M-64s performs very reliably and has increased our capabilities enabling us to be more competitive whilst maintaining high end results."

James - A2B Signs&Graphics

A2B Signs and Graphics offer a wide range of services from design and manufacture to installation. Products include signage, LED display signage, labels, vehicle and fleet livery, website design, POS displays, wide format digital print and stationery. The sign and graphics company have worked with some of the UK's leading brands in recent years and pride themselves on their meticulous nature combined with excellent service and product quality. With business booming over the past 8 years,



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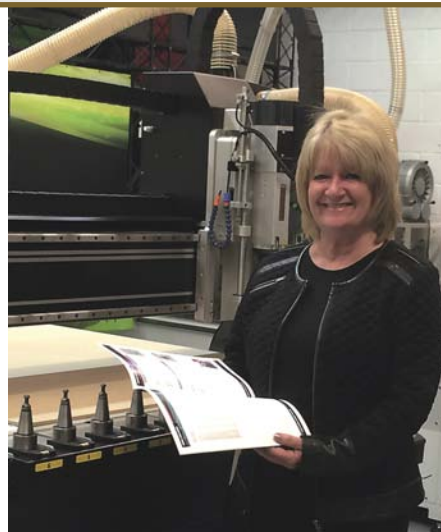
Complete CNC Solutions

Complete CNC Solutions, the UK's exclusive distributor of Tekcel and Protek production routing and print finishing systems, has appointed Gillian Allen to the role of Consumables Sales Account Manager.

Gillian will be based at the company's headquarters and demonstration facilities in the South-West near Bristol. She will also be visiting customers to advise them how and what's needed to extract optimal perform-

ance and quality from the production systems they use.

Gillian has extensive experience in the print, sign and display markets and comes to Complete CNC Solutions with the knowledge needed to make a positive difference to the customers she'll advise. Gillian is an experienced world-traveller and looks forward to adding more miles to her total as she gets to meet her new customers.



Roland DG strengthens UK and European teams

Roland DG has made a series of appointments and promotions within its UK and European teams. This follows Brett Newman's recent promotion to the prestigious position of Managing Director of Roland DG's UK branch in April this year.

Fresh from an FMCG marketing background, and with extensive marketing experience; Sarah Lyons will head up the new marketing team.



Sarah said: "I'm really pleased to be joining such a fantastic company. It is a company that holds a huge amount of prestige in its products and loyalty in its end users. We have some great plans for Roland DG in the year ahead and I'm looking forward to helping the business go from strength to strength."

He appointment comes on the back of Roland DG UK's previous Head of Marketing, Gillian Montanaro's promotion to Head of EMEA Marketing. This involves the development of coordination and strategy Europe-wide. Bringing a wealth of experience

alongside an encyclopedic knowledge of the Roland DG product line, Gillian is a "natural fit" for the newly created role.

Gillian has joined ranks with Jerry Davies; previous Managing Director of Roland DG (UK) who was recently promoted to President of European Sales. Having delivered record sales figures for Roland DG UK over the last decade, this latest move continues his rise through the ranks at Roland DG since he joined the company in 2000. Both Jerry and Gillian will continue to be based in Roland DG UK's HQ in Clevedon.

Continued growth and four new staff members at Radecal

Radecal Machine Sales have reported continued growth for 2015 in all areas of their business along with four new members of staff in key areas.

Radecal have appointed Alex Forsyth, Anthony Wilson, Paul Bailey and Rebecca Greener to their Radecal family.

With such a high demand for CNC Routers, Laser Cutters and printers, both large format and 3D, Radecal have added the new staff to their technical, engineering, warehousing and marketing departments.

Chris Economides, Managing Director, said: "We have had another great growth

year and are continuing to look at areas in which we want to offer better service and more effective best practices.

"We have some exciting new machine launches over the next few months and bringing on new blood to help us support and sell this equipment was an important step for us.

"With this in mind we have recruited four new staff which we feel will add real value to our business both for us and our customers."

Alex Forsyth and Anthony Wilson have started on Level 3 Apprenticeship courses and will bring knowledge and experience from previous roles and qualifications to their new positions in technical support and warehousing.

Paul Bailey is a "great" addition to the Engineering department as a Service Engineer who will work across the UK and Europe on our CNC Routers and Laser machines.

Rebecca Greener manages all marketing, advertising and event organising duties for Radecal Machine Sales; posts daily on all social media platforms; and sends out weekly email marketing newsletters.



Joining the Radecal team!

CLASSIFIED

Check our website for the latest job vacancies or items for sale.

Advertising starts from £30 + VAT.
All job vacancies, businesses and equipment for sale also go on-line at no extra cost.

BUSINESS FOR SALE

Niche printing business for sale

After 30+ years of making decals for bicycles the current owner is wishing to retire and see the business develop further in the hands of an enthusiastic artisan. With a worldwide customer base this well-respected business is easily run from a home-office and is relocatable as all sales are mail order. Whilst highly profitable the new owner will need to have an absolute passion for top quality artwork and print and ideally have an interest in cycling.

- Sale to include:-
- ❑ MIMAKI CJV30 printer and consumables
 - ❑ All current stocks of decals
 - ❑ Massive vector artwork collection from 30 years of detailed work
 - ❑ Specialist equipment and storage
 - ❑ Huge archive of original decals, back to 1920's
 - ❑ Customer base - trade and retail
 - ❑ Website and ebay presence
 - ❑ Goodwill and established brand

- Worldwide mail-order sales to:-
- ❑ Repeat trade customers.
 - ❑ Repeat and one-off retail customers.
 - ❑ New product launch and photoshoot work
 - ❑ One-off and bespoke work.
 - ❑ Design, development and proof work
 - ❑ Branding for artisan small volume frame builders.
 - ❑ Branding for importers of cycle frames and wheels.

OIRO £79K. For more detail visit www.signupupdate.co.uk/bus#s

HP Latex 26500 (61")

Only 16 month's old - immaculate condition. Hardly used due to purchase of a larger printer.

Complete with onyx Postershop 11 Rip, recently replaced new heads, spare head, new cleaning kit and remaining ink cartridges. Manuals, loading accessory.

Total bulk price: **£7,695 + vat**



Buyer to collect from North Yorkshire.
Contact details: info@designsharrogate.co.uk
01423 873555

Mimaki UJV-160 UV LED

Approx 3 years old

Print test available on request but is still in use as seen in the pictures.

Sale due to not being used to full capacity and potential.

York - YO61, collection or delivery. Requires 1 new print head but has been regularly serviced.

Selling for **£19,000 inc VAT** though reasonable offers will be considered.



Mimaki JV33-160 printer AIT



*Plus VAT

Fully refurbished from
£6,500*

Also available:
CG-FX Cutters and Laminators

www.applied-image.com

JOB VACANCIES

Assistant Manager London

Busy sign company is looking for a multi-skilled assistant manager.

The ideal candidate will have some sales experience and background of signage, possess the knowledge to be able to advise customers, and take projects from consultation to completion. Design experience with Adobe CS suite and some knowledge of Roland printers and RIP software preferred. Some experience with WordPress would be a bonus.

Day-to-day tasks include but not limited to:

- Taking customer enquiries (phone and counter)
- Sales / quoting
- Design / layout / print RIP with Adobe Creative Suite, FlexiSign and Roland Versaworks
- General assistance in workshop

What we expect from you:

- Positive attitude and can-do approach
- Ability to connect with our small team of hard workers
- Self-motivated and not afraid of tight deadlines

A competitive salary package is available to the right candidate depending on qualifications and experience.

Enquiries and CV's by email only please.
Send them to info@simplysigns.com



TECHNICAL SIGNS

CAD person

We are looking to employ a CAD person on a full time permanent basis.

Immediate start 37.5 hours per week, Monday to Friday

You will need to have previous experience, ideally with a signage/manufacturing industry background with a working knowledge of AutoCAD and ideally Radan but this is not essential.

Produce CAD drawings and cutting files for manufacture of bespoke signage and creative lighting solutions and produce quick CAD drawings for client approval.

You will occasionally be required to assist with TCP drawings, mainly using AutoCAD for the production of elevation drawings and signage specifications for planning purposes.

Often required to issue urgent jobs for maintenance/fitting purposes and sometimes required to communicate with on site fitters.

Please email your CV to louise_powell@technicalsigns.co.uk with your salary expectation for this role.

Experienced Sign/Vinyl fitter and Vehicle Wrapper Southampton

Duties will involve:

- Vehicle wrapping
- Application of Vinyl to various shop signage
- Fitting interior and exterior signage
- Carryout various print related responsibilities.

The ideal candidate must be well organised, professional, punctual and efficient with good English verbal and written skills.

Full time: 40 hours

Relevant Experience: 2+ years

Salary: based on experience and qualifications.

www.signupupdate.co.uk/esvfws

Vehicle graphics fitter Chelmsford

You will need to be a skilled, experienced vinyl applicator with at least 2 years commercial application experience.

High attention to detail, flexibility and a professional attitude is essential, as is a willingness to support the current applications team. You will need brilliant customer service skills too!

www.signupupdate.co.uk/evgfc

Sign Maker/Installer Sutton, Surrey

Ideally you'll have several years experience and have an all round knowledge of the design, production and installation process.

You will be responsible for the design, manufacture and installation of a wide range of signage installations such as vinyl, lettering, sign trays, lightboxes, vinyl wrapping (not essential).

www.signupupdate.co.uk/smi-s

Display Signs Group

Senior Sales Representative

Uxbridge

We are looking for a results driven, individual, with proven sales success within the sign and digital print industry to join our team and generate new business within the corporate and public sectors as well as servicing new internal enquiries. Ability to plan and implement a successful 'new business' campaign. Good knowledge of materials, sign making/printing equipment, sign manufacturing & installation techniques. Able to accurately survey and schedule client requirements and relay information to designers & production staff

Typical target clients:

- Construction companies
- Facilities management companies
- UK blue chip (offices and plants)
- Healthcare & Education (private and public)
- Local government
- Charities, Event organisers

Product areas:

- Interior and exterior signage schemes
- event signs(correx) and banners
- construction signage,
- digital wall coverings, graphics, manifestations

Opportunities for future advancement for someone who can deliver consistent results
Excellent OTE - Car/Allowance. NO AGENCIES PLEASE

Please email your CV in confidence to alan@displaysigns.net
or telephone 01895 81 21 61

All Rounder / Signs Technician Lancashire

We are seeking a proactive all-rounder with experience of all aspects of signage manufacture/installation; vehicle graphics application/wrap. The individual must have experience in manufacture and application of vinyl, wallpaper, panel graphics, tray signs, acrylic text along with all types of vehicle livery and wrapping.

They must be organised, professional and punctual - as part of the role would be helping to generate new business and surveying clients requirements - relaying the information back to the designers/project managers.

james alpe
SIGN & DESIGN

www.signupdate.co.uk/arstl

'Signs & Graphics' installer

Harrogate, North Yorkshire

Reporting into the MD and working as part of a team, duties will include preparation, installation and assembly of:

- signage and graphics on and off site
- Vehicle graphics from simple to full wraps.
- Shop fascia's, including but not limited to: sign trays, acrylic letters, free-standing signs.
- Exhibition graphics & internal branding.

This is a full time, permanent role working Monday to Friday from 8.00am - 5.00pm

info@designsharrogate.co.uk

www.signupdate.co.uk/sgih

Graphic Installer

REPORTS TO: Installations Manager

SALARY: £18-22k + Overtime + Expenses

Extreme Display Ltd are looking to recruit a Graphic Installer experienced in working with a variety of installation methods such as vinyl application, wallpaper, panel graphics and modular build.

recruitment@extremedisplays.co.uk
www.signupdate.co.uk/giwy

Freelance Vinyl, Graphics & Sign Installers Warwickshire

You will need to have a background in all graphics and vinyl applications, and internal and external signs installation.

The successful candidate will:

- Have good communication skills and a keen eye for detail
- Be able to use own initiative on site and work as part of a team
- Have a polite and professional attitude and be able to deal with clients and site meetings
- Have a full driving licence
- Be willing to travel all around the UK
- Be willing to work evenings and weekends as required
- Be flexible and 'hands on' to ensure all deadlines are met
- Wall and window graphics background is essential!

CSCS minimum requirement.
IPAF and PASMA preferred.



Contact Max Harris on 07940 076 271
Or email CV to max@v2display.com

Vehicle/Fleet Vinyl Applicators Nationwide

GK Signs are a fast growing signage and screen print company based in the South West. Due to our growing client base resulting in increasing demand we are looking for experienced wrappers to join us on a full time basis to fulfil orders across the UK.

You would be based from home and travel to client sites where you would fit the vinyls to vehicles of varying sizes, from small cars through to articulated lorries.

Please get in contact if you feel you have:

- 18+ months wrapping/fitting experience
- A full clean driving licence
- A reliable work ethic and are happy to work flexible hours
- A great eye for detail
- Good customer service skills

Please contact charlie@gksigns.co.uk or call 01392 494044.

Sign Installer / Fitter South West London

We are Archers, an established sign and interior design company in South West London working in the retail, theatre and exhibition markets, and we're looking for a highly experienced, motivated sign installer/fitter to join our team.

The successful candidate will be someone who has experience in sign installation or shop-fitting (ideally both) who can be briefed by our project managers then confidently and capably see a job through to completion.

Key Responsibilities:

- Removal and installation of all forms of internal and external signage
- General maintenance, construction and decorating
- Surveying and measuring sites

www.signupdate.co.uk/sifswl

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Vinyl/Signage Installer

We are currently looking to expand our in-house installation team to work both in the UK and abroad.

The Candidate needs to have at least 2-3 years experience in fitting vinyl graphics, printed wallpaper, frost vinyl, printed manifestation and perspex interior signage.

Experience within a mounting/finishing department is also an advantage as some in-house production work will be necessary.

The candidate also requires a clean UK driving licence and a CSCS Card would be of an advantage.

Salary: £14,000 to £21,000 + Overtime and Benefits

Please email a full C.V to
Robert Hill(Production Director)
info@graphicadisplay.co.uk

Estimator Central London

The successful candidate will have an existing knowledge of the sign industry, experience in producing estimates and liaising with clients as well as familiarity with project management software such as Streamtime, Clarity or similar as well as Microsoft office and Adobe Illustrator.

www.signupdate.co.uk/eclon

Experienced Sign Maker Farnborough, GU14

The suitable candidate will be experienced in all areas of sign making, including vinyl cutting, digital print, general assembly and graphical installation including vehicles (wrapping only an advantage) and manifestation.

A general can-do attitude would be welcomed into this busy and expanding company.

www.signupdate.co.uk/esm-GU14

Digital Print Operator London

Riot of Colour are looking for self-motivated, reliable and enthusiastic print operator to work in their busy Charlton facility.

The role will involve working on a range of large format digital print machinery together with creating and checking print files prior to production.

www.signupdate.co.uk/dpol

Visual art worker / designer Farnborough, GU14

We are looking for a hard working, self motivated & communicative individual to join our team. You will be responsible for creating eye catching signage visuals for our various corporate clients with the ability to work well under pressure at times.

Although preferable, experience within the sign industry is not essential but you must be competent in Adobe Illustrator and InDesign with Photoshop an advantage.

www.signupdate.co.uk/evawd

Signs'R'Us Ltd

Vinyl Fitters

Signs R Us are seeking experienced Vinyl Fitters to join their Production Team.

Must have the ability to apply graphics and work under pressure.

Vehicle Wrapping would be advantageous.

A competitive salary offered dependent on experience.

Over-time available, some evening & week-end work may be required.

Permanent position with uniform & kit provided.

E-mail sales@signsrus.co.uk or telephone 01386 421 777



Borney UK, based in Cambridgeshire are one of the UK's leading manufacturers and suppliers of signage, flags, banners and exhibition displays.

We're recruiting!

Sales Executive

We are seeking an experienced Sales Executive with knowledge in the print industry.

Responsibilities include:

- Managing our existing client database and bringing in new clients.
- Ensuring that targets are hit on a monthly basis.

As this role covers the whole of the UK, a full driving license is essential.

Permanent position, based in Huntingdon.
Monday - Friday 9:00am - 5:30pm

Competitive salary.

For full details please contact Carli Beary with your CV on the details below:

E: carli.beary@borneyuk.co.uk
T: 01480 456689
W: www.borneyuk.co.uk

ADAM BOURN

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Production Role

Computer operator required to prepare graphics for wide-format print production. Adobe Illustrator experience is essential for preparing artwork for digital print and planning cut files.

Role involves manual production of vinyl graphics with a requirement to collate jobs for the installation crew.

We have an occasional requirement for creative works in this role.

Basic ability to read floor plans and use Microsoft Excel would be beneficial.

You should be able to manage your own work flow and prioritise production by installation date. Strong communication skills between departments is vital to this role.

Salary is negotiable based on experience. Please send your CV to:

careers@adambourn.co.uk

Installations Apprentice

Assistant required for our installations team.

Experience not essential, training is available on the job.

Keen interest in graphics, good ability to work with your hands and local location all preferable.

Must be available to work overtime, sometimes at short notice.

Salary is negotiable based on experience. Please send your CV to:

careers@adambourn.co.uk

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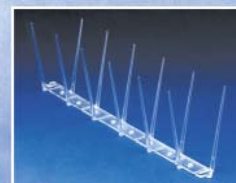
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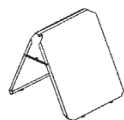


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SIGN INDUSTRIES are specialist TRADE MANUFACTURERS of etched Stainless Steel, Brass, and Bronze. We also Laser Engrave Plastics and Wood as stand alone products as well as moulds for castings. SIGN INDUSTRIES normally work with 3 mm thick material, 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.

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Trade suppliers of flat cut letters and logos. We offer lettering in a variety of materials such as acrylic, foamex, dibond, stainless steel and aluminium which are supplied with or without fixings and templates. We also supply 3D built up lettering in stainless steel or acrylic.

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Tel: 0161 308 2331
Fax: 0161 330 9645
sales@mockridge.com
www.mockridge.com
Specialists in chemically etched nameplates. Brass, Stainless Steel and Anodised Aluminium. Any size up to 2400 x 1200mm (8ft x 4ft). One-offs up to 5000+. Trade work is totally confidential.

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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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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.

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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.

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vince@3d-signs.co.uk
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Ultra Slimline illuminated letters and shapes suitable for interior and exterior applications. Extremely bright with various colour options. Very strong and robust, easy to fit and will outlast other comparable alternatives.

THE SIGN GROUP

Victoria Works, Bruntcliffe Road, Morley, Leeds, West Yorkshire, LS27 0LF
Tel: 0113 25 24 706
Fax: 0113 25 24 797
info@thesigngroup.co.uk
www.thesigngroup.co.uk
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- LOCKABLE/EXTERIOR

SIGNSCAPE AND SIGNCONEX LTD

Pear Tree Works, Bath Road, Upper Langford, Bristol BS40 5DJ
Tel: 01934 852 888
Fax: 01934 852 816
sales@signscape.co.uk
www.signscape.co.uk
Serving the Sign Trade for over 40 years, we are a leading manufacturer of modular sign systems and notice boards. We have the widest range of exterior notice boards of all UK manufacturers, and specialise in tailoring our boards to suit each location. This is achieved through a wide range of options, including; wall, rail, post and stand mountings, mains/solar illumination and custom graphics.

SIGNWAVES

Lefevre Way, Gapton Hall Industrial Estate, Great Yarmouth, Norfolk NR31 0NW
Tel: 01493 419300
Fax: 01493 419301
enquiries@signwaves.co.uk
www.signwaves.co.uk
Signwaves supplies Noticeboards and Poster Displays suitable for both indoor and outdoor use. As the UK's largest manufacturer of point of sale signs and displays, we can provide you with high quality Poster Frames, Snapframes, Menu Cases and lockable Noticeboards.

NUMBER PLATES

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Distributors of quality number plate components and suppliers of the UK's best selling number plate printing package the 'Print Pro' system - Full colour number plate printing being used around the world. Our optimised number plate printer will also print Health & Safety Signs, Business Cards, Banners & more. For prices and a free no-obligation demonstration, please call or visit our website.

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Fax: 028 9083 6666
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, SAN and Styrene sheet.

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One of the largest independent stockholders of semi-finished plastics in the UK, offering a huge range of both branded and own label products including Perspex, Alliance ACP, Foamalite, Lumex and Arla. A next day delivery service on cut to size and polished Perspex is available. We also offer a trade service on CNC Router & Laser cutting, Sign trays and bespoke plastic fabrication.

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Tel: 01245 232800

Fax: 01245 232801

sales.chelmsford@perspex.co.uk
www.perspex.co.uk

Perspex Distribution offer Perspex cast acrylic, extruded acrylic, aluminium composite, PVC foam and other thermoplastic sheets for the sign industry from their 4 distribution centres in Blackburn, Chelmsford, Tamworth and Weybridge. With a comprehensive stock-holding in many colours and finishes and a cut to size service at all branches, Perspex Distribution can deliver your requirements fast..

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Fax: 0121 344 4558

marketing@righton.co.uk
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UK distributors of Polycasa cast & extruded sheet & Policril cast acrylic. Available in a wide range of clear, opals & colours. Also stocked: Marlon solid Polycarbonate, PETG, Foamalux, Komadur, Hygienic Cladding Rigid PVC, Aluminium Composite Sheet, aluminium sheet, Sign Post System, Stainless steel sheets, aluminium extrusions, fasteners, copper, brass & bronze.

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Fax: 0844 846 9574

plastics.tkmuk@thyssenkrupp.com

www.thyssenkruppmaterials.co.uk

ThyssenKrupp Materials are stockists of Plastics and Aluminium for the Sign industry. Experienced staff and an extensive product range give customers the flexibility to cover all requirements. Products include Oroglas Cast Acrylic, Marlon Polycarbonates, Marcryl Extruded Acrylic, Forex Foam PVC, Dibond and Etalbond Aluminium Composite, Bayer Petg and Quinn Products.

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UK Point of Sale leading manufacturers of display products Acrylic & PVC poster holders, Sign Supports, Aluminium Snap Frames, A Boards, Poster cases & Point of sale fittings.

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Herts AL3 4DR

Tel: 01727 832146

Fax: 01727 898828

studio@fonteynesigns.co.uk

www.fonteynesigns.co.uk

Manufacturers of all types of polystyrene cut letters, graphics & 3-dimensional models. Virtually any logo, graphic or shape can be cut in polystyrene. Especially useful for short term exhibition, conference or promotional use (All polystyrene has a fire retardant additive). Polystyrene can be faced with vinyl or inkjet prints. Fitting service nationwide. Established 1976.

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Fax: 01482 380901

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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.

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Fax: 01489 895899

sales@green-magic.co.uk

www.sign-holders.co.uk

Poster Cases and Poster Holders for all commercial and retail applications. Our extensive ex stock range includes snap frames, lockable poster cases, outdoor notice boards. Call our sales team or order online - apply for your Trade Login for reseller pricing.

INSIGHT SIGN SYSTEMS

67 Dykehead Street, Queenslie Industrial Estate, Glasgow G33 4AQ

Tel: 0141 774 5990

Fax: 0141 774 6653

sales@insightsignsystems.com

www.insightsignsystems.com

Insight is a trade only manufacturer, offering a made to measure service, with in-house powder coating. A wide range of options is available for displaying posters and transparencies (panels not included), including back-lit or non-illuminated, wall mounted or free standing etc. Hinged opening front provides access for maintenance. Rubber gaskets and slam locks provide security. Suitable for outdoor use.

SIGNSCAPE AND SIGN-CONEX LTD

Pear Tree Works, Bath Road, Upper Langford, Bristol BS40 5DJ

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Fax: 01934 852 816

sales@signscape.co.uk

www.signscape.co.uk

Serving the Sign Trade for over 40 years, we are a leading manufacturer of modular sign systems, notice boards & information displays. Our Avenue poster case provides high quality yet affordable, external poster display. Sizes from A4-A0, in wall, post, and rail mounted versions, with headers and sign panel options. We also manufacture illuminated menu cases for hotel and restaurant settings.

SIGNWAVES

Lefevre Way, Gapton Hall Industrial Estate, Great Yarmouth, Norfolk NR31 0NW

Tel: 01493 419300

Fax: 01493 419301

enquiries@signwaves.co.uk

www.signwaves.co.uk

Signwaves supplies Poster Displays suitable for both indoor and outdoor use. As the UK's largest manufacturer of point of sale signs and displays, we can provide you with high quality Poster Frames, Snapframes, Menu Cases and lockable Noticeboards.

UK POINT OF SALE GROUP LTD

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PRINT/POSTER FRAMES

Brownings Ltd

5 Williamson Street, Hull, HU9 1ER

Tel: 01482 380900

Fax: 01482 380901

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.

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Waltham Business Park, Brickyard Road, Swanmore, Southampton SO32 2SA

Tel: 01489 896999

Fax: 01489 895899

sales@green-magic.co.uk

www.sign-holders.co.uk

Easy change print and poster frames for all commercial and retail applications. Many styles including a huge range of aluminium snap frames, wood and plastic frames etc., all available in wall-mounted, suspended and free-standing versions. Browse and buy online.

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Tel: 01493 419300

Fax: 01493 419301

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www.led-signs-international.com

Jayex is the UK's largest trade supplier and designer of dynamic moving message LED text and video products. We provide indoor and outdoor LED displays that can be embed into static signs or used as stand-alone item providing an eye catching display of virtually any shape and size. We will design and price LED products for your project, helping to keep your workload to a minimum.

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Fax: 01737 774 091

info@messagemaker.co.uk

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Programmable LED text and video specialists for Electronic Digital Signage, stand-alone or incorporate in your own sign project. Many products are available from stock for Indoor & Outdoor applications, over 15 years experience in the market. Call now for a free quotation or to arrange a visit from a member of our national sales team.

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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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Fax: 01493 419301

enquiries@signwaves.co.uk

www.signwaves.co.uk

Signwaves are a UK based supplier and manufacturer of Projecting Signs, fabric Flags and Flying Banners for internal and external use. Our range also includes Snapframes, Pavement Signs and A-Boards, Internal and External Poster Display and Café and Rope Barriers.

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Fax: 01706 710086

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.

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Basford, Nottingham NG7 7HX
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www.tennantsuk.com

The UK's largest distributor of Orafol and Reflexite reflective vinyl. Our range includes Class Ref.1, Class Ref.2, Micro-Prismatic, commercial grade, engineering grade, construction grade & hi-intensity in many colours. Used for chapter 8 chevron kits, ECE 104 conspicuity tape, permanent & temporary road signs & emergency vehicles. Visit our website for guides, prices & application instructions.

ROAD SIGNS

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Basford, Nottingham NG7 7HX
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Fax: 0115 973 8090
sales@tennantsuk.com
www.tennantsuk.com

Tennants UK is one of the UK's largest manufacturers of temporary road signs and distribute economy grade Zintec road signs through to BS EN 12899-1 specified permanent signs. Many years have been spent working closely with leading Traffic Management and construction companies enabling Tennants UK to cater to their every need, including metal frames, cones, barriers, lamps & sign design software.

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ATA ENGINEERING PROCESSES

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Extensive range of high quality solid carbide, PCD, carbide tipped and HSS cutters manufactured by ONSRUD CUTTER offer routing solutions for most types of material.

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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.

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3S PRINT & DISPLAY

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Shropshire TF1 7EX
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Fax: 01952 677464
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Screenprinters to the sign trade. POS, Estate Agency boards. Full colour up to 8' x 5', vinyl stickers, mark resist, Foamex. Contact us for best trade prices on large or small runs.

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DESP has been trading for over 50 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 turn-round.

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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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Fax: 05603 417857
info@htscreenprint.co.uk
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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!

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Unit 6, Spencer Trading Estate, Denbigh,
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Trade Printers for over 35 Years. Estate agency boards a speciality (price list on our web site) Printing on correx, pvc, vinyls, acrylics, magnetics as well as digital printing. Large and small runs.

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www.mercuryphillipssigns.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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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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One of the largest independent stockholders of semi-finished plastics in the UK, offering a huge range of both branded and own label products including Perspex, Alliance ACP, Foamalite, Lumex and Arla. A next day delivery service on cut to size and polished Perspex is available. We also offer a trade service on CNC Router & Laser cutting. Sign trays and bespoke plastic fabrication.

RIGHTON LTD

Righton House, Elliott Way, Nexus Point,
Holford, Birmingham B6 7AP
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Fax: 0121 344 4558
marketing@righton.co.uk
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UK distributors of Polycasa cast & extruded sheet & Policril cast acrylic. Available in a wide range of clear, opals & colours. Also stocked: Marlon solid Polycarbonate, PETG, Foamalux, Komadur, Hygienic Cladding Rigid PVC, Aluminium Composite Sheet, aluminium sheet, Sign Post System, Stainless steel sheets, aluminium extrusions, fasteners, copper, brass & bronze.

TELEGAN PRESSED PRODUCTS LTD.

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Road, Bathside, Harwich, Essex,
CO12 3HF
Tel: 01255 554141
Fax: 01255 554900
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.

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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, Polycarbonate, Polystyrene and PVC Foam.

SIGN & DISPLAY SYSTEMS

SIGNSCAPE AND SIGNCONEX LTD

Pear Tree Works, Bath Road, Upper
Langford, Bristol BS40 5DJ
Tel: 01934 852 888
Fax: 01934 852 816
sales@signscape.co.uk
www.signscape.co.uk

Serving the Sign Trade for over 40 years, we are a leading manufacturer of modular sign and display systems, notice boards & other information displays. Our 6 major sign systems are used and combined, to create a wide range of sign display solutions, including full signage schemes. With all products made to order, we specialise in tailoring solutions to suit each client, location and application.

SIGNWAVES

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Estate, Great Yarmouth, Norfolk
NR31 0NW
Tel: 01493 419300
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enquiries@signwaves.co.uk
www.signwaves.co.uk

Signwaves are UK manufacturers of signs and display products for internal and external use. Our range includes Snapframes, Pavement Signs and A-boards, Forecourt signs, Poster Displays, Menu and Brochure Displays, Projecting Signs and Flags and Cafe and Rope Barriers.

SIGN CASES

INSIGHT SIGN SYSTEMS

67 Dykehead Street, Queenslie Industrial
Estate, Glasgow G33 4AQ
Tel: 0141 774 5990
Fax: 0141 774 6653
sales@insightsignsystems.com
www.insightsignsystems.com

Insight is a trade only manufacturer, offering a made to measure service, with in-house powder coating. A wide range of aluminium signcases are available, ready to accept acrylic panels, with several trim styles to choose from, and various options including hinged opening fronts, gas strut assisted opening, stand-off brackets etc.

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B10 0HJ
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Fax: 0121 766 5511
info@artcam.com
www.artcam.com

Delcam provides sign-makers worldwide with its ArtCAM range of CAD/CAM software, Express, Insignia and Pro, to create 2D and 3D signs. The entry-level package, ArtCAM Express starts from £99 and can be customised with modules (E.g. nesting and font creation).

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Tel: 0121 608 4431

Fax: 0121 608 2008

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.

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sales@fairfielddisplays.co.uk

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Sign support systems for any internal signage. Wall mounts, directory systems, hanging banner systems, suspended cable/rod systems. Custom made acrylic signs supplied as blanks or printed to your requirements. Best quality components at highly attractive trade terms. See the full range on the website or call for a comprehensive brochure. Showrooms in Fleet & Shrewsbury

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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.

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The Display Centre, Knights Way,
Battlefield Enterprise Park, Shrewsbury
SY1 3AB

Tel: 01743 465531

Fax: 01743 465532

sales@midwestdisplays.co.uk

www.MidWestDisplays.co.uk

Mid West Displays stock a wide range of sign support systems. We also stock wall mounts, snap frames, mirror screws, cable/rod suspended systems, lighting, poster pockets and many more. We are pleased to be working with the highest quality materials at competitive prices.

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SIGN SURVEYOR

PB WILLIAMS SIGN

SURVEYOR

48 Durley Rd, Aintree
L9 9AW

Tel: 07885 486 182

pbwilliams48@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

BROWNINGS LTD

5 Williamson Street, Hull,
HU9 1ER

Tel: 01482 380900

Fax: 01482 380901

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

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Fax: 01934 852816

sales@signscape.co.uk

www.signscape.co.uk

Serving the Sign Trade for over 40 years, we are a leading manufacturer of modular sign systems, notice boards & information displays. Our systems create a wide range of sign solutions including: post and panel, flush panel and curved panel signs; wayfinding signs, wall directories, monolith and fingerpost signs. Other products include exterior notice boards, poster/menu cases, and letter boards.

SIGNWAVES

Lefevre Way, Gapton Hall Industrial
Estate, Great Yarmouth, Norfolk
NR31 0NW

Tel: 01493 419300

Fax: 01493 419301

enquiries@signwaves.co.uk

www.signwaves.co.uk

Signwaves is a UK manufacturer of signs and display products for internal and external use. Our range includes Snapframes, Pavement Signs and A-boards, Forecourt signs, Poster Displays, Menu and Brochure Displays, Projecting Signs and Flags and Cafe and Rope Barriers.

SYGNET SIGNS LTD

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LE5 3AP

Tel: 0116 262 6288

Fax: 0116 262 6061

sales@sygnetsigns.com

www.sygnetsigns.com

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THE SIGN GROUP

Victoria Works, Bruntcliffe Road, Morley,
Leeds, West Yorkshire, LS27 0LF

Tel: 0113 25 24 706

Fax: 0113 25 24 797

info@thesigngroup.co.uk

www.thesigngroup.co.uk

We are a specialist trade manufacturer of bespoke sign systems to the signage, design, shopfitting and display industries throughout Europe. Services Include: Built up letters/logos, sign trays, lightboxes, flat cut letters/logos, laser/cnc cutting, SG LightSheet™, LED Stockists. All inhouse, all in control.

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Fax: 01706 710086

sales@apptape.co.uk

www.apptape.co.uk

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Tel: 01604 644697

Fax: 01604 790495

www.mactac.eu

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enquiries@sott.co.uk

www.sott.co.uk

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Fax: 01482 380901

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www.browningsltd.co.uk

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www.themagictouch.co.uk

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5 Williamson Street, Hull, HU9 1ER

Tel: 01482 380900

Fax: 01482 380901

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.

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Fax: 0141 774 6653

sales@insightsignsystems.com

www.insightsignsystems.com

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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.

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info@mdpsupplies.co.uk

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Fax: +44 (0)1274 774478

sales@applelec.co.uk

www.applelec.co.uk

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Fax: 0113 2242110

sales@icesigns.co.uk

www.icesigns.co.uk

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SIGNSCAPE AND SIGNCONEX LTD

Pear Tree Works, Bath Road, Upper Langford, Bristol BS40 5DJ

Tel: 01934 852 888

Fax: 01934 852 816

sales@signscape.co.uk

www.signscape.co.uk

Serving the Sign Trade for over 40 years, we are a leading manufacturer of modular sign systems & information displays. We have 4 major systems for creating interior and exterior wayfinding sign solutions including: post and panel, flush panel and curved panel signs; desk, door and wall signs, wall directories, monolith and fingerpost signs. We have also offer a full graphics service if required.

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The AmBer Centre, Oldfield Road, Maidenhead, Berkshire SL6 1TH

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Fax: 01628 588744

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Colourgen is the UK's leading specialist distributor of large format digital colour printing solutions, consumables, bespoke software, engineering and technical support services. The Company is the exclusive UK distributor for the Mutoh Sign & Display, Speciality/Industrial, Dye Sublimation and Direct to Textile printers.

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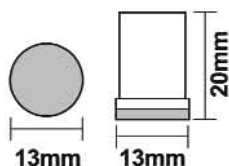
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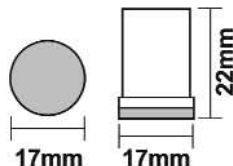


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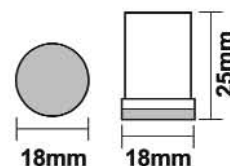


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