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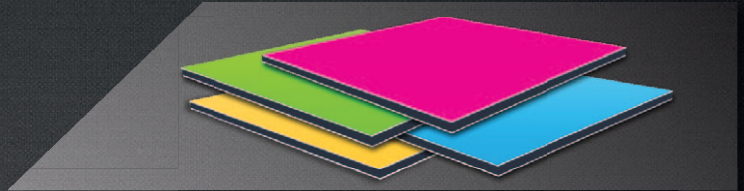
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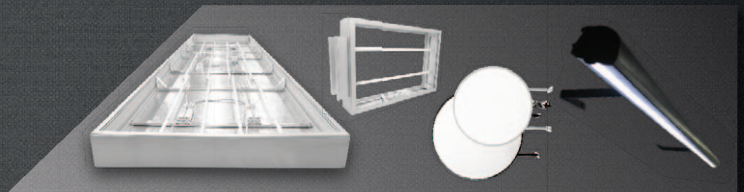
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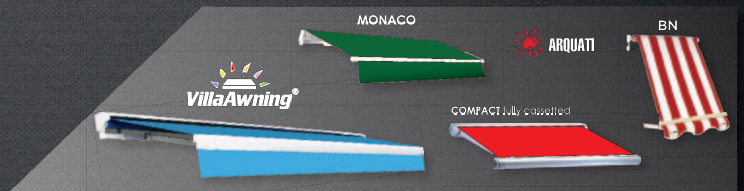
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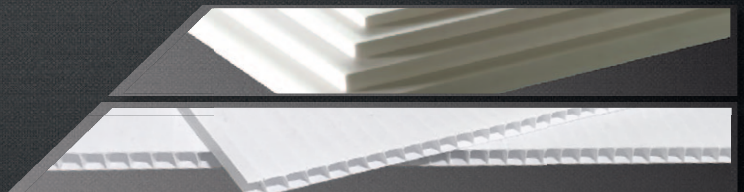
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Advertising Manager - **Martin Hinchliffe**.....Tel: 01784 605 601
email: martin@signupdate.co.uk

Editor - **Sue Deane**.....Tel: 01784 605 602
email: editor@signupdate.co.uk

Graphic Design - **Tony Hinchliffe**.....Tel: 01784 605 601
email: tony@signupdate.co.uk

Accounts - **Linda Hinchliffe**.....Tel: 01784 605 601
email: accounts@signupdate.co.uk

Publisher - **Roger Hinchliffe**.....Tel: 01784 605 601
email: roger@signupdate.co.uk

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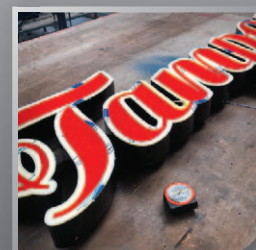
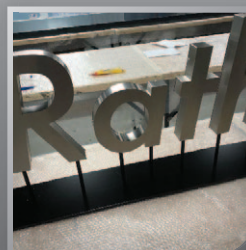
PERSPEX® Highlights is a new range of acrylic in four neon-inspired, vibrant colours with the added benefit of being optimised for LED lighting. Perfect for slim signage, point of sale displays and exhibitions.

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WELCOME Page

Wishing you a sustainable new year

As we brace ourselves for the new year and whatever it may bring, one thing is certain: the need to tackle environmental issues has not gone away with 2019 but rather is accelerating at a faster pace than ever. I mention this because from the industry news I receive on a daily basis it is clearly at the forefront of people's minds, the sign & display sector being a big user of various types of plastics and inks which need to be responsibly recycled and/or disposed of. In this issue a number of leading suppliers announce their Greenguard certification for their UV inks, meeting stringent standards for low emission of VOCs, while Epson reaffirms its targets for decarbonisation by 2025; and I am confident we will hear of many more initiatives.

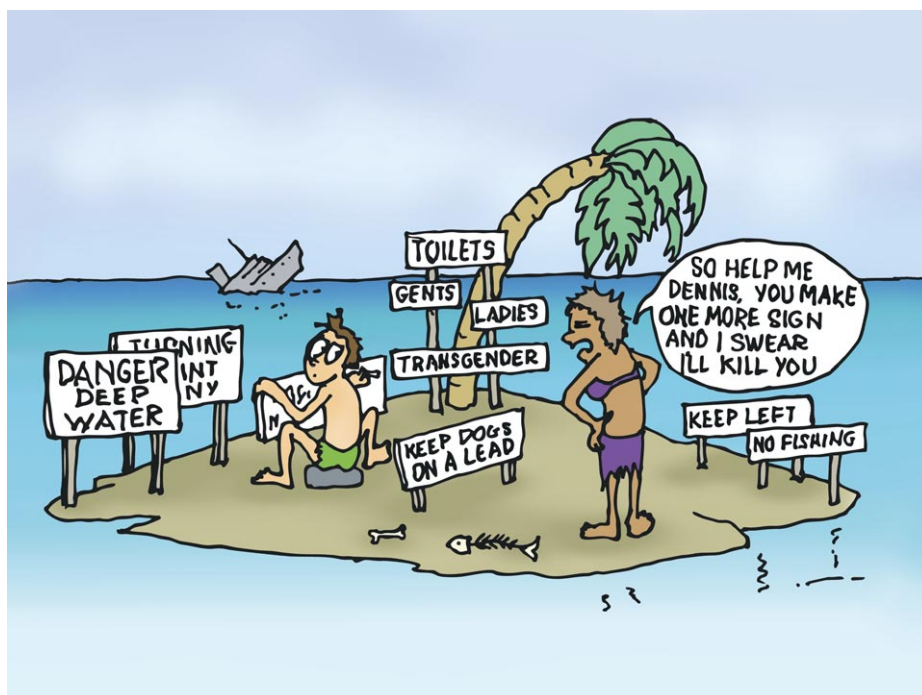
Our industry comment from Mimaki distributor Hybrid is an observation on what the new year will bring and they too are focusing on increasing their sustainable offerings.

This year marks 30 years since Sign Update was launched and we will publish a special feature in July looking back at developments in the industry. If your business has been going since 1990 we would like to hear about technological advances you have benefited from and we will include as many comments as we can.

Special features in this issue consider the wide application of vitreous enamel, chemical etching and anodised aluminium in the production of robust and durable signage, processes which have a long and respected heritage but have been brought bang up to date.

In the next issue we look at wide format printing, specifically on rigid materials (direct to substrate) and wayfinding signage; along with our regular product, applications, project and industry news.

Sue Deane
Editor



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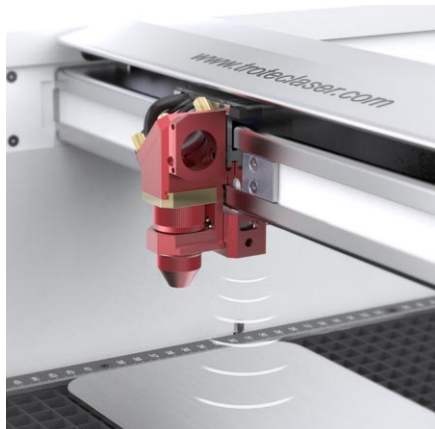
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Laser engraver sets new standards for flexibility

Trotec has introduced the Speedy 400 laser cutter. Designed to maximise productivity, it features optimised performance for quality and speed, easy material loading, maximum operator comfort and efficient processing.



To improve production efficiency, the maximum engraving speed of the Speedy 400 has been increased.

To improve production efficiency, the maximum engraving speed of the Speedy 400 has been increased from 3.55 m/sec to 4.3 m/sec at an acceleration of 5g, which when combined with the motion planning system OptiMotion, make this "the fastest mid-size laser engraver on the market", capable of cutting up to eight times as fast as comparable laser cutters.

OptiMotion calculates cutting speed and acceleration based on the geometries of the graphic in real time, allowing you to easily plan your production time per job.

Even when processing at the maximum working speed, the Speedy 400 is said to easily achieve perfect results thanks to highly intelligent control electronics, precise mechanics, reliable laser sources and the intuitive Trotec JobControl software. To reduce pre-production time, Trotec's patented Sonar Technology is a standard feature. This system automatically detects the focus point at

each position of the worktable and moves to the correct focus position. This ergonomically redesigned machine offers maximum comfort for operators, with the front lid handling design making loading materials easier. The progress of individual jobs can be easily seen at a glance via a dynamic status display. Previously, job times have only been visible in the laser software but this feature gives users an easy way to see at a glance whether the laser is operating, a job is completed or stopped, the laser source and other statuses.

The 400 is available with a CO2 laser source or with Trotec's patented flexx technology, featuring both a CO2 and fiber laser in one machine. Combining both laser sources into a single machine allows multiple materials to be processed in a single job with no requirement for changing the lens, laser source or focus.

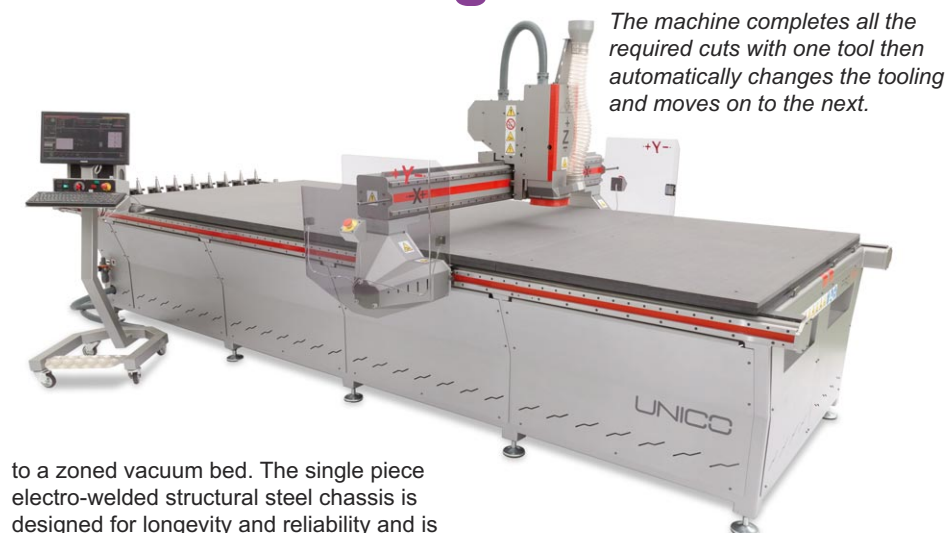
www.troteclaser.com

CNC-controlled milling machines with multi-function tool change

A new range of CNC-controlled milling machines designed around productivity and ease of use looks set to revolutionise the acts of cutting and milling for the sign and graphics industries, says Protek CNC Technology. The Unico range is able to handle plastics, wood, alloys, composites, MDF, Foamex/Corex, acrylics, foam, carpet and Dibond.

"This is a step change into the future with the units featuring a clever multi-function tool changing mechanism allowing users to cut substrates normally requiring multiple tools in one operation," says Protek. The device completes all the required cuts with one tool then automatically changes the tooling and moves on to the next.

This functionality is said to significantly reduce downtime and machine preparation time. The rack and pinion angled cutting head mechanism improves accuracy and reduces noise and the process is extremely clean; the vacuum system for removing swarf is "very efficient" and works just as well for smaller tasks thanks



to a zoned vacuum bed. The single piece electro-welded structural steel chassis is designed for longevity and reliability and is less susceptible to vibration for a high end quality result. The Unico range requires no previous CNC machining experience from the operator; the training process is quick and simple, says Protek.

Developed in-house, the software is "user friendly with a simple, intuitive graphical interface" and the ability to import 2D

The machine completes all the required cuts with one tool then automatically changes the tooling and moves on to the next.

drawings in various formats. Applications include sign making and routing.

Protek equipment is supplied, installed and supported throughout the UK by Dennison Group.

www.protek-cnc.co.uk

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TrueVIS printer/cutter series expanded

Roland DG Corporation has introduced the SG2 wide-format eco-solvent printer/cutters to its TrueVIS series said to deliver the accuracy, cutting performance and print quality of the TrueVIS brand, with a streamlined workflow and the “super-fast, same-day turnaround speeds” busy print service providers (PSPs) need.

Featuring a CMYK ink configuration, it combines “impressive performance with incredible value, for outstanding colour and practically limitless application versatility”. SG2 offers three sizes to match the wide-ranging production requirements of graphics businesses. Prints are ready to laminate and immediately finish in six hours, says Roland. The True Rich Color preset is said to allow vibrant colour to be combined with neutral greys, smooth gradations and natural skin, “unequalled for durable graphics”. An automatic pinch roller system requires minimal operator intervention while highly accurate automated printing and cutting can be



Prints are ready to laminate and immediately finish in six hours, says Roland

done with or without crop marks. An optional take-up unit supporting two modes according to the type of media chosen for increased take-up stability and smooth post-print processing, is available.

An ink delivery system reduces consumption by up to 54% due to automated maintenance sequences, says Roland. TR2 ink offers “unmatched

durability when washed and is certified for safe indoor graphic applications.

“In addition to individuals just entering the sign and display graphics market, we designed it for those expanding graphic product offerings while maximising profitability,” says Roland.

www.rolanddg.co.uk

High-speed dye-sublimation textile printer for mid to high level production

Your Print Specialists (YPS) has announced immediate availability of the Poseidon textile printer from Digital Graphics Inc (DGI). This 1.6 metre wide dye-sublimation transfer printer offers production speeds of 80-120m² per hour.

Sales director Georgia Brown comments: “What’s happening in the textile market is really exciting. The possibilities for end users has never been so extensive and YPS is focused on identifying and supplying a broad range of top quality products. We are working with DGI’s UK distributor Sabur Inks and identified that the quality, reliability and capabilities of their printers are exactly what our customers are looking for. These latest printers further improve the speed and production benefits of the solutions we can offer.”

The DGI Poseidon printer utilises industrial Kyocera printheads that DGI uses in the HSFT III and FH-3204 3.2metre wide sublimation printers. This proven and reliable technology enables the printer to offer up to a 118% speed increase over the previous model, the DGI FT-1608.



The Poseidon textile printer is available from YPS.

“The Poseidon is designed for customers working in a high production environment, often requiring unattended printing,” says Georgia. “It comes with the DGI monitoring app which allows the user to monitor production remotely and keep track of print volumes and costings at the touch of a button on their mobile device.

“This printer is targeted at mid to high level production companies who need a high volume of capacity. It provides the added

reliability our customers always look for together with the flexibility to run multiple printers for different designs.”

A further SE model in the range has an additional printhead to enable customers to install spot colours or fluorescent inks alongside CMYK while maintaining the very high speeds and widening the applications this printer can be used for.

www.yourprintspecialists.co.uk



Premium cast wrapping film offers easy application and superior finish

Metamark has introduced a premium cast wrapping film to its range of MD Class printable digital materials.

"MetaCast MDC is the best performing product that Metamark has ever produced," says sales director Ian Simister. "It redefines performance from print quality through application to ultimate durability in the field. Its handling and application behaviour takes the whole concept of 'ease' to a higher level over a wider range of application conditions."

"Challenging applications are something MetaCast MDC was expressly designed for. We've redefined and elevated the performance of premium cast films. Our technical achievement in developing MetaCast MDC is reflected in its 10-year MetaSure warranty programme which has been designed to be the industry's most flexible, generous and easily managed."

Hands-on signs and graphics producers will welcome MetaCast MDC's tolerance of the extreme elongation needed to achieve the most dramatic results demanded for today's imaginative wrapping work, says



Hands-on signs and graphics producers will welcome MetaCast MDC's tolerance of the extreme elongation needed to achieve the most dramatic results.

Metamark. MetaGlide micro-channelled adhesive is said to make application easier as it gives trapped air nowhere to hide and facilitates effortless repositioning and sliding of the graphic during application. Once applied, it builds to a

powerful ultimate bond and there's no hatch pattern to show through to the MetaCast MDC face-film. Removal is a totally clean exercise.

www.metamark.co.uk

Bold neon colours provides glowing LED illumination

PERSPEX Highlights is the new range of "stunning acrylic colours perfect for the creation of colourful designs, available

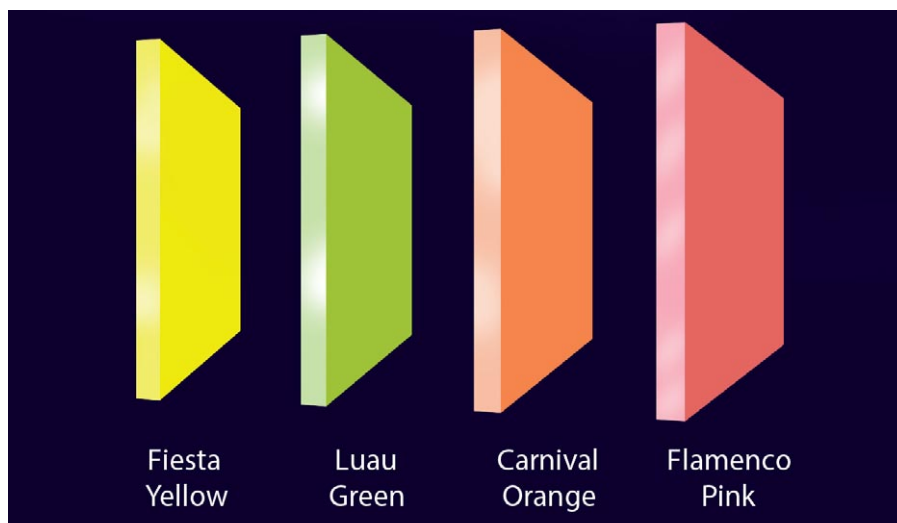
from PERSPEX Distribution. "Experience summer all year long" with a palette set to inspire creative designers by offering four

bold neon colours; they are bright, dazzling and refreshing, says PERSPEX. The eye-catching colours are vibrant under ambient lighting but have been designed to offer glowing LED illumination with the addition of diffuser particles to reduce hotspots from LED modules.

The gloss colours: Fiesta Yellow, Carnival Orange, Flamenco Pink and Luau Green prove right on trend, says PERSPEX. With the combined benefits of opalescence and a striking fluorescence in one product, this "astonishing colour collection will be a real head-turner."

These new PERSPEX acrylic sheets are said to be the ideal material for any interior or exterior project including signage, point of sale, exhibition stands and bespoke design pieces. PERSPEX Highlights is stocked in a 3mm thickness and a sheet size of 3050mm x 2030mm.

www.perspex.co.uk



The eye-catching colours are vibrant under ambient lighting but have been designed to offer glowing LED illumination

Neon/fluorescent design tool plug-in

Color-Logic has released a design tool enabling graphic designers and prepress personnel to prepare artwork files for the neon and fluorescent inks currently being introduced by several digital press and printer manufacturers. The Touch7 Photo NEON plugin enables utilisation of these neon colours in their images.

Brands are already using spot neon and fluorescent inks in packaging and signage but Touch7 Photo NEON is the only separation tool that adds these colours into images in seconds, says Color-Logic.

CTO Richard Ainge explains: "Touch7 Photo NEON allows a designer or prepress operator to create neon/fluorescent separations with a few clicks of the mouse. This helps printers add extended gamut colours into images by printing the neon separation atop the CMYK ink set. By combining neon pink with CMYK, for example, printers can produce an entirely new set of oranges and reds for their brand clients, previously unachievable using CMYK inks alone. Touch7 Photo NEON works intelligently at the pixel level, automatically isolating and



Photo NEON adds neon and fluorescent inks into images in seconds.

separating out only the cyan, magenta and yellow components of the image. The final conversion adds up to three additional neon/fluorescent spot colours to the original image format. For example, an RGB image that is converted will become an RGB image plus up to three neon or

fluorescent spot colours. ICC profiles are not required to extract the desired separations. The proprietary separation algorithms calculate the effect based on the original source pixels."

www.color-logic.com

Wallcovering made from recycled plastic bottles

CMYUK has launched its UFABRIK Wallcover Canvas ECO which is manufactured from recycled plastic bottles (rPET). Beneficial for the display and graphics market, it combines "robust ecological credentials with quality print reproduction at an attractive price point". This material forms part of CMYUK's

growing own brand portfolio for the availability of quality, fit-for-purpose, environmentally responsible products and their disposal.

"This is an excellent material which not only delivers quality results but has an environmental integrity to it," says key

accounts & textile business development specialist Joel Willcock.

UFABRIK Wallcover Canvas ECO is suitable for art reproductions, single piece wallcoverings, display graphics and tension frame systems. It provides the security of a B1 flame retardancy, making it suitable for use in public areas; is compatible with latex, solvent or UV inks and available in roll widths up to 3100mm.



Producing yarn from plastic waste involves the collection of pre and post consumer plastics that are cleaned, chopped and melted into an extruded fibre and then spun into yarn to produce a variety of UFABRIK textiles for the digital print industry up to 5m wide. This canvas is said to be highly suitable for waste-to-energy incineration at one of several energy recovery facilities (ERF) in the UK, where it is transformed through clean and safe processes into renewable power for the National Grid.

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Flexible, upgradeable digital cutting table

Esko has extended its Kongsberg digital cutting table range with the Kongsberg X Edge, a fully upgradeable design said to offer productivity, flexibility and best in class reliability. Delivering speeds of 30m/min with acceleration of 0.3G and able to handle the full spectrum of display and signage materials from kiss cutting vinyl to heavy duty milling, the table means no longer being forced to choose between speed, precision or production power, says Esko.

Product manager Russell Weller explains: "the Kongsberg X Edge has been designed to ensure there is no sacrifice in machine configuration with all the options you would expect from the Series.

As your company grows, the machine can be easily upgraded in terms of both speed and acceleration to ensure it keeps up with your business demands.

"The Kongsberg X Edge delivers this high production speed and outstanding cutting quality at a remarkable price. Moreover, the design avoids the impact of costly reinvestment when a business expands,



As your company grows, the machine can be upgraded in terms of speed and acceleration.

delivering exceptional cutting quality while unlocking future production flexibility and profitability. The extra fast tool loading, auto recognition and calibration features

are ideal for short run jobs, with the added flexibility of an optional conveyor system."

www.esko.com

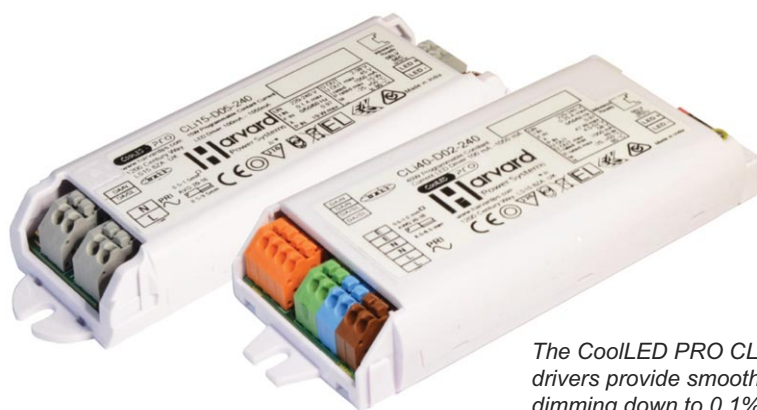
High spec LED drivers for display applications

Harvard Power Systems has introduced a range of high specification LED drivers. The CoolLED PRO CLi Series come in 15W, 25W and 40W versions, providing smooth flicker-free dimming down to 0.1%; 100 to 1400mA programmable, they can drive as low as 2.5Vdc for a single LED; have a touch/push to dim function and a corridor/switch dim function as standard.

These high performance LED drivers are designed for embodiment by luminaire manufacturers and for remote, independent installation for which cable clamp/covers are supplied to click-fit the standard driver body.

Extremely compact, the 15W drivers fit through a 40mm hole in the ceiling and the 25W and 40W drivers fit through a 56mm aperture, making them a fast-fit solution for use with LED downlights, says Harvard.

The series includes 0-10V dimmable types with a fully isolated analogue dimming circuit to comply with the new standards and regulations from March 2020.



The CoolLED PRO CLi Series LED drivers provide smooth flicker-free dimming down to 0.1%.

These LED drivers are future proof, having a connection port for wireless devices to connect such as Bluetooth Mesh and ZigBee.

This new range of drivers come with a five-year warranty, are SELV compliant, have wireless control options and are compatible for emergency applications.

Extended life testing has demonstrated high reliability and they have low audible noise below 20dBA.

Despite their high specification, these new LED drivers are competitively priced to meet market demand, says Harvard.

www.harvardpowersystems.com

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Woodgrain finish gives depth and texture to static graphics

A new ReTac Textures finish from Drytac is now available globally. Woodgrain has been designed to add depth and texture to static, flat graphics, giving them "incredible visual appeal".

The embossed woodgrain effect finish makes images stand out, making it "perfect" for eye-catching interior promotions, wall graphics, custom wall murals, interior décor, retail displays, trade show graphics and signage.

ReTac Textures Woodgrain features the ReTac ultra removable and repositionable adhesive, making it easy to apply and reposition multiple times without leaving residue behind or reducing its adhesion. Simple and clean to remove without damaging the surface, it is fire-rated, making it suitable for public spaces.

ReTac Textures Woodgrain is a 6 mil (150 micron) phthalate-free polymeric PVC film with an embossed wood textured matte finish. Available in widths up to 54 inches (1370mm), this white printable media is compatible with eco-solvent, solvent, latex and UV printing technologies and offers five years' interior and exterior durability and two years' removability outdoors.

"Drytac is delighted to add the new Woodgrain finish to the ReTac Textures



ReTac Textures Woodgrain is "perfect" for eye-catching interior promotions, wall graphics, custom wall murals, interior décor, retail displays, trade show graphics and signage.

range globally," says global product manager Shaun Holdom.

"It's embossed effect surface adds a richness and depth to images, making it perfect for graphics displayed on flat surfaces like walls and exhibition boards.

Every product in the ReTac range is designed for ease of use so we expect to see some exciting applications for it across the globe."

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Software offers expanded colour spectrum

The optimised media library in GMG OpenColor 2.3 makes it easier to organise materials directly in the software. Previous versions already made it possible to save custom media and reuse them. As of GMG OpenColor 2.3, all customised substrates will be shown at one place and changes to the properties of a media are automatically applied to all projects in which the

corresponding media is used. This feature grants consistency in paper tint, even across different jobs, and with this automation ensures the correct output of proofs. In addition, operators do not have to edit each project manually but can rely on considerable time savings. The latest version of the software is accompanied by an expanded media and colour spectrum.

GMG OpenColor 2.3 now supports GMG ProofMedia studio OBA semiMatte 200, a recently released addition to the proof media portfolio.

Thanks to its low weight, flat matte texture and optical brightening agents, the new media is suitable for all applications using OBA substrates. The new PANTONE inks are included in GMG OpenColor 2.3; 294 colours have been added to the PANTONE Solid Coated and Uncoated database and are available to GMG OpenColor users after updating. Murray Davies curves can now be visualised at the same time as Spot Color Tone Value (SCTV) curves with a single click, making it easier and clearer to correct the dot gain curves. If you want to deepen your knowledge on topics such as SCTV, GMG can help. With its in-house Academy, the company offers options for further education in addition to products. According to customs, free webinars and extensive workshops will be part of the Academy program in the coming year.

www.gmgcolor.com

The optimised media library makes it easier to organise materials directly in GMG OpenColor.



Anti-glare glass for digital displays

Guardian Glass has launched a glass solution for digital touchscreen displays. Guardian Sense acid-treated glass diffuses light reflections is said to reduce fingerprint marks and provide a high contrast and colour rendering, allowing the user to focus on what is displayed on the screen. Features include gloss, haze, clarity, anti-sparkling and anti-fingerprint.

Available in 85 and 60 gloss rates in thicknesses from 2mm to 8mm and dimensions up to 2250mm x 1650mm, Guardian Glass offers solutions for indoor and outdoor signage and displays which includes Guardian Clarity anti-reflective glass. Suitable for applications where excessive reflection creates an obstruction, it maximises visibility and minimising light reflection, says Guardian.

Guardian ThermoGuard NRG heat treatable, low emissivity coated glass is designed to help digital signs and displays reduce the impact of large temperature fluctuations while acting as an effective electromagnetic shield. Selecting the right

glass for digital signage, displays and touchscreen applications enhances the effectiveness of displays with glass surfaces. Guardian Glass works closely with manufacturers, systems integrators and designers of digital displays to provide

solutions that achieve the balance between glass performance and appearance and customers helped to specify the right glass for their needs.

www.guardianglass.com



Guardian Glass offers a comprehensive range of solutions for indoor and outdoor signage and displays which includes Guardian Clarity anti-reflective glass.



White PVC sheet yields accurate colour imaging

Perspex Distribution has increased its print substrate range with the launch of Palight Print Plus, a PVC foam promising their whitest print surface ever.

Developed specifically for Perspex Distribution, Palight Print Plus allows print professionals to get the best image quality and colour accuracy from their printers.

This new product is manufactured by Palram in its north of England manufacturing facility.

The lightweight foamed substrate is suitable for a variety of projects including retail point of sale, exhibition stands and general signage.

Its bright white colour yields a wider colour gamut and accurate colour imaging, while the smooth, uniform surface serves as an ideal substrate for ink adhesion and coverage, says Perspex. As with all PVC foam in their Palight range, the resistance to chemicals and humidity makes the product suitable for varied applications.

Perspex Distribution stocks a range of UK produced materials manufactured by



The lightweight foamed substrate is suitable for varied projects including retail POS, exhibition stands and general signage.

Palram including Palsun Polycarbonate and Palboard multi-layered PVC sheet.

www.perspex.co.uk

High performance multi-format cutter

Fotoba has introduced a high performance multi-format cutter offering fully automatic slicer positioning. The XLA 170 has the ability to read a printed barcode and automatically adjust the position of the vertical slicers blades.

Together with all of the advantages of the XLD series, this is said to create the

“ultimate” cutting solution for any size. Barcode can automatically be printed on all types of media using Caldera V12 RIP software. Up to six automatic vertical blades can handle flexible materials including canvas, textiles and banner PVC.

The automatic vertical blade positioning is said to enhance production efficiency and

allow unattended cutting of multiple sizes, minimising media wastage.

Together with the X/Y blades image tracking, Fotoba says it is the world's first fully automatic X/Y cutter, capable of unattended trimming with precision random sizes in the same roll. The cutter can easily set standard sizes, replicating the XLD features with an even more user-friendly operability.

Able to handle most flexible media up to a maximum thickness of 1mm (40ml) including polycarbonate, photo paper, vinyl, self-adhesive vinyl, PVC, film, Duratrans, TDF, canvas, laminated or encapsulated prints; materials with rough surfaces including canvas and textile would need to be tested for barcode printing quality reading.

www.fotoba.com.



The XLA 170 has the ability to read a printed barcode and automatically adjust the position of the vertical slicers blades.



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£18 + VAT minimum charge + carriage

Height	75mm	100mm	125mm	150mm	175mm	200mm	225mm	250mm	275mm	300mm	350mm	400mm	450mm	500mm	550mm	600mm	700mm	800mm	900mm	1200mm
3mm	0.90	1.18	1.28	1.50	1.87	2.41	2.94	3.32	4.01	4.65	5.89	7.49	8.56	9.63	11.77	14.45	18.19	32.10	39.49	48.00
5mm	1.30	1.77	1.93	2.46	3.10	3.75	4.23	5.78	6.90	8.03	9.36	10.70	12.84	15.52	17.91	19.26	25.15	32.10	48.15	62.00
10mm	2.50	3.00	3.96	4.92	6.15	7.86	9.15	12.84	13.91	16.85	19.30	23.01	26.22	30.50	34.24	38.52	53.50	78.11	100.58	130.00

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

£18 + VAT minimum charge + carriage

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

3mm ALUMINIUM COMPOSITE (Dibond, Alupanel)

£18 + VAT minimum charge + carriage

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

MILL FINISH ALUMINIUM (Comes in its raw form ready for coating)

£18 + VAT minimum charge + carriage

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

EXTERIOR MDF

£18 + VAT minimum charge + carriage

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

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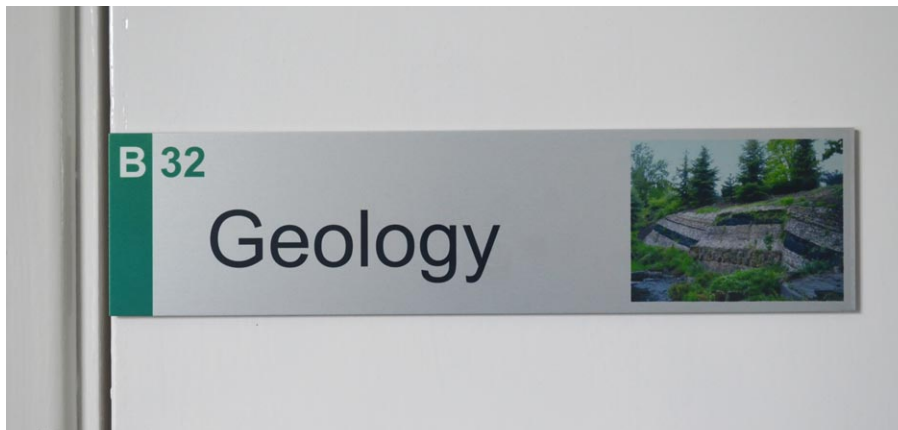


Another tough sign *By Jack Gocher*

Anodic printing into the surface of aluminium has been around for a very long time, but is used surprisingly little for the sign industry. In its bare form, aluminium is a soft and easily corroded metal. However, anodising transforms it into something extremely robust and durable.

To anodise aluminium you build up a layer of aluminium oxide on the surface. Aluminium oxide itself is very hard indeed and is often used as an abrasive. When the oxide layer is first formed, it contains microscopic pores. These pores allow dyes to be introduced into them, which colours the surface of the aluminium. The aluminium oxide surface can then be sealed, a process that is similar to setting of cement. The aluminium oxide swells, trapping the colour inside the hard surface layer making it impervious to acids, sea water, solvents, and even paint stripper.

Colin Edge, Managing Director of Multitechnic Ltd based in Morpeth in Northumberland, explains, "Once fully anodised, pretty much nothing apart from a strong alkali such as caustic soda will harm the surface. You can therefore make signs that are extremely resistant to all sorts of environments, and also to wear and tear, because there is no print on the surface that can be worn away. The



Anoprinting is ideal for areas where wear and tear is likely, such as this school door plate

graphics are trapped securely inside the hard oxide layer."

He continues, "You will be familiar with anodic printing if you ever look under the bonnet of your car. It is used extensively to make labels in this sort of environment. For simple designs, dye is printed into the surface by screen printing, and just like screen printing, additional colours can be added simply by printing another colour. For large runs of identical signs this has the potential to produce very cost-effective

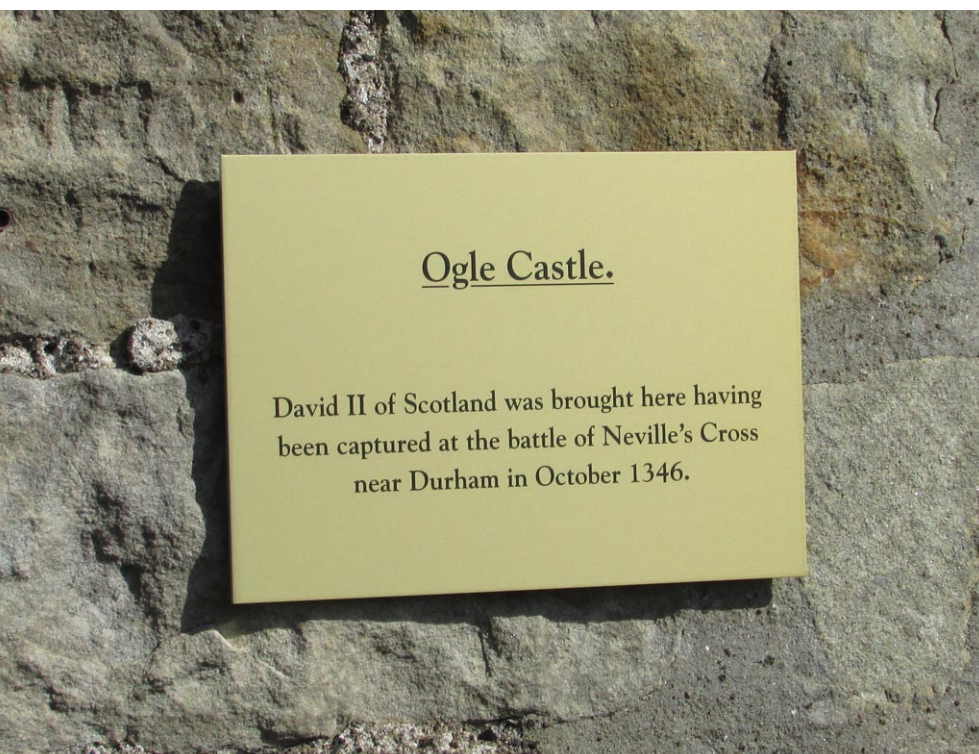
durable signs, and by using the correct palette of colours, these can be good for indoor or outdoor signage."

Despite the potential benefits, this process is used very little and surface printing onto aluminium still dominates this type of aluminium signage. "Surface printing is nothing like as durable because it is only as robust as the ink that is used, and this can often easily be worn away. Digital surface printing onto aluminium is becoming more common, but still has the same limitations of durability as other surface print options," adds Edge.

Digital anoprinting

A fairly recent innovation in aluminium printing is a digital form of anodic printing known as digital anoprinting. This uses a modified flat-bed digital printer to print dyes into the partly-formed oxide surface using CMYK colouring. The surface is then completed in the same way as for other forms of anodic colouring, so the graphics are sealed inside the hard surface layer. This has opened up the sign industry to the possibility of economically viable signage where every sign is different, such as those required for wayfinding.

The full colour process allows creativity, and the extremely robust nature of the product enables use in environments where other signage options would be likely to fail or suffer abuse, such as schools, or in marine and industrial environments. The process does not use white, so designs can blend seamlessly into the surface. If white is required, there are techniques to use the natural matt background colour to make white.



However the graphics are applied, by screen printing or by digital anoprinting, the signs made by sub-surface printing into aluminium have many uses in the sign industry. Colin Edge explains, "Museum displays for example are a particular challenge that more often than not end up looking a mess well before the intended end of life for the display. For any displays that involve people pushing levers or buttons, using the surfaces in any sort of tactile way, or for moving parts, surface printing fails pretty quickly, and even the best laminates and plastics soon scuff, crack, peel and fail."

Anodic printing enables the sign manufacturer to produce panels that will stand up to tremendous amounts of wear. By using digital anoprinting, full-colour graphics can cover entire surfaces, including all those parts where wear and tear has previously been a problem. "This sort of physical endurance makes anodic printing an obvious choice for many applications where surface graphics simply do not last, such as push plates on doors, even kick plates, they even survive being sat on or walked on. Kerb plates in car parks are a typical application where anodic printing onto aluminium will provide simple plates that do not wear away or suffer from the wet environment down at road level. If the right colours are used

they won't ever fade, even in direct sunlight," he adds.

For outdoor signage, anodic printing is more limited in terms of colouring. For strong colours that will not fade there is a very limited colour palette. Only dyes that are completely stable in daylight can be used. Digital anoprinting can be used outdoors, but like any other CMYK process, it will suffer from daylight fade if too exposed. A little thought about sign location and positioning can obviously help, as with any other full-colour process, and colours that are particularly weak can also be avoided. It does depend upon what the customer requires however, and the life-span of the colouring may not be the primary issue.

"Multitechnic Limited offers a trade service for digital anoprinting and have developed a specification that gives a three-year life for signage on the decks of cruise ships,

something that was previously not viable. Three years may not sound particularly impressive, until you think about the implications of this sort of environment. The signs are exposed to plenty of sunshine, live in one of the most challenging environments for signs, and are even washed down with salt water once or twice every day. Apart from costly vitreous enamel, no other signage solution has performed as well in this environment as digital anoprinting to Multitechnic's marine specification," says Colin Edge.

He concludes, "Anodic printing certainly offers more potential than the sign trade is currently making use of, and could be put to good use in many applications where attractive and also durable signage would be a good option to offer to customers."

www.multitechnic.co.uk



A solid, clear door sign produced using anoprinting



Information signs need clear, vibrant colours and high durability



Wayfinding signs ideally suited to anoprinting

UV printer increases profitability and broadens product offering

Scunthorpe-based A Signs invested in the new H1650i LED Agfa Anapurna print engine at the end of 2018 and has since enjoyed increased profitability due to improved efficiencies.

A Signs produces a variety of signage from external building, internal health & safety, vehicle wraps and exhibition display boards to huge pieces of wall art for its client base. Owner Shaun Fisher was looking to invest in a new print engine to speed up production time and reduce costs, enabling him take on more work and increase efficiencies.

Shaun was keen to buy a UV printer and Damian Newsham from Litho Supplies invited him to a demonstration of the Anapurna at the Agfa showroom in Leeds. After reviewing further options Shaun concluded that the Agfa Anapurna H1650i was the best fit to his needs. The "perfect size for the available space" and for the sheet sizes they use, as a hybrid it offered the choice of roll to roll or flat bed with a really quick change over to each option.

"The machine was a sizeable investment for our business but I have no regrets," says Shaun. "Producing signage on my older printer required several processes

but the Anapurna prints in one pass including white; it comes complete with all the latest technology and I am delighted with both the speed and quality. I'm impressed that while my output is up, ink usage has actually reduced and the room doesn't require the same level ventilation.

"When our accountant confirmed profitability is up on a similar level of business to last year, I know that commercially I have made the right decision."

Replacing a Roland DG wide format 1.6m roll to roll, the H1650i LED machine was installed at the end of 2018. At 1.65m wide it is the smallest member of the Anapurna family, designed as an accessible hybrid printer with high quality output. It shares the same features and benefits of high quality imaging, ink-saving thin ink layer technology and perfect white ink printing reliability yet is less expensive and will fit into smaller spaces.

When asked if the Anapurna has allowed the company to bring any new products to market, Shaun proudly presented a number of 'wall art' projects, huge personalised wall papers for commercial clients.

"I'm impressed that while my output is up, the amount of ink usage has actually reduced and the room doesn't require the same level ventilation to be a pleasant place for us all to work"



Damian Newsham from Litho Supplies with A-Signs owner Shaun Fisher and the Agfa Anapurna H1650i LED wide format print engine

"The quality of print from the Anapurna allows me to produce very accurate 'wallpaper' tiles that can be easily lined up", says Shaun. "The 1.65m size is perfect; any larger and it would be difficult for one person to wallpaper/install and line up. Wall art adds a new product to the business that is really suited to our skillset with my past in decorating. It allows clients to be creative and have a full wall decorated with a photograph of their choice. I think it'll be something that we will offer to consumers too as a mix of business that has up-front payment all helps with the cashflow."

www.agfagraphics.co.uk
www.asigns.co.uk

LED hybrid printer offers speeds four times faster than old machine

Family run Platinum HPL decided to invest in a new wide format print machine to replace an Agfa Anapurna purchased three years ago. While a new Anapurna would have provided increased speed and quality, they decided to install the Jeti Tauro H2500 which delivers six colours plus white and primer print. The latter has enabled them to offer in-line mapped priming and the machine gives four times the output yet uses less ink due to the Agfa thin ink layering technology. Driven by the Agfa Asanti workflow, the machine was installed last May.

Platinum HPL expanded into small format digital printing that led to the creation of a mailing department around seven years ago. Around the same time, a large format Canon Océ Arizona flatbed machine was purchased to offer their customers a broader range of printed POS and display material.

"The large format part of our business is growing the most at present," says commercial director Anthony Wyvill. "We were looking for a machine that would offer us a lot more capacity and speed to cope with the increasing number of jobs we have that require a very quick turnaround. We tested a lot of print samples when looking for a new printer and the Agfa machine was in our opinion the best on quality. That's something we are particularly keen on here at Platinum, perhaps due to our litho printing roots so we now have the Jeti Tauro to run alongside an Océ Arizona."

The Jeti Tauro is a hybrid printer with an integrated roll-to-roll system that allows manual, continuous and automated feeding of both rigid and flexible materials. It includes 32 fast-firing Ricoh ink jet print heads, each with 4 nozzle rows offering 2 colours per head.

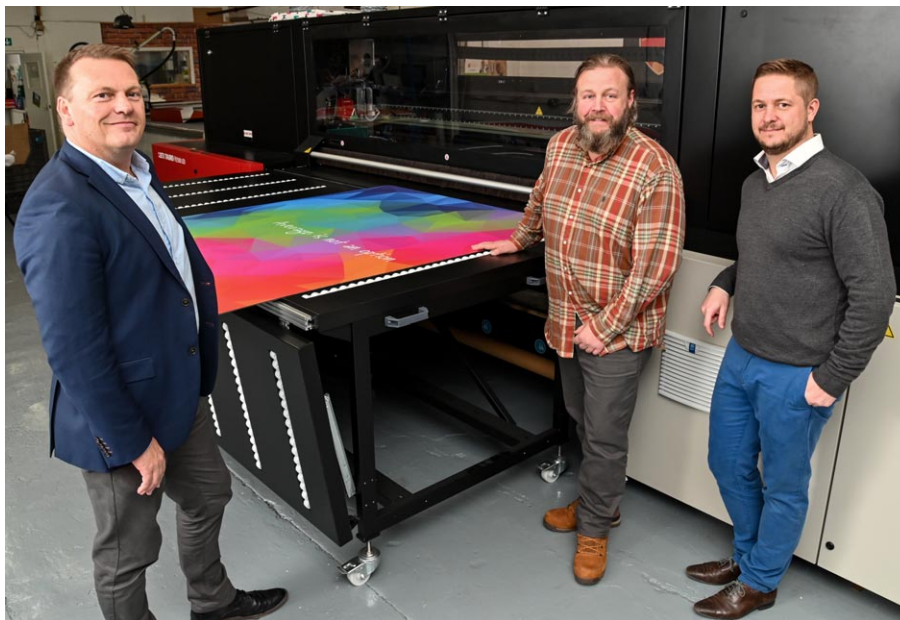
The quality of print is excellent and I really can't fault the service we have received from the Agfa business across all departments

The increasingly busy large format department in the business comprises a team led by Paul Killeen. The products supplied range from one-off window displays; creative printing on acrylic, vinyl and wallpapers to pull up; and outdoor banners, exhibition stands, hoardings and packaging. The Jeti Tauro is not only quicker but allows the business to offer many new products with the quality and technology it offers.

Along with being ISO 9001 and 27001 registered, Platinum HPL is ISO 140001 accredited and this investment adds to their environmental commitment with the Tauro LED lights using 50% less energy and thin ink layer technology leading to a reduction in ink usage. The ink is now GreenGuard gold certified; its low-emission properties make it suitable for environments including schools and healthcare.

"It may be early days but we are very impressed with the results of the Agfa Jeti Tauro to date," concludes Anthony. "The quality of print is excellent and I really can't fault the service we have received from the Agfa business across all departments."

www.agfagraphics.co.uk



From left: Ian Maxfield, Agfa Graphics; Paul Killeen, large format manager and Anthony Wyvill, commercial director, Platinum HPL

High quality substrates perform well on hybrid inkjet printer

Brett Martin provided EFI with its Foamalux White, Foamalux Ultra and Foamalux Xtra substrates at PRINTING United in order to help it promote the efficiency, quality and speed of its VUTEK 32h printer through live on-stand demonstrations.

"We were delighted to be working with a major print brand in EFI," says sales director Duncan Smith. "We provided them with a selection of Foamalux substrates so that they could maximise the performance potential of their VUTEk platform."

Tiffany Bisson, a member of EFI's team at its Customer Experience Center in New Hampshire, says: "Brett Martin has a large and impressively versatile product portfolio that complements EFI's product range very nicely. It was a great pairing for PRINTING United as the substrates demonstrated the capabilities and the potential of our VUTEK 32h extremely well. They hold phenomenal drop quality; there

is no spread, gain or static, which is essential as the 32h runs at such a high speed.

"We initially discovered Brett Martin's Foamalux products at the ISA Sign Expo and were impressed with the feel of the materials and the different colour and thickness options, so decided to test the materials for ourselves to see how they would work with our printers. We found the range held a really nice tight dot, which is key for inkjet products. The adhesion levels were great and material handling easy so we've decided to host the range of substrates in our Customer Experience Center.

"We've been impressed with how well all the Foamalux products have run on a wide variety of our presses which vary from entry level to super high speed, so utilising them for the VUTEK 32h was an easy decision to make and their materials performed extremely well."

"We've been impressed with how well the products have run on a variety of presses from entry level to super high speed; utilising them for the VUTEK 32h was an easy decision to make"



Brett Martin's substrates maximise the performance potential of EFI's VUTEK 32h

"The partnership with EFI demonstrates both companies' commitment to producing advanced and efficient printing equipment and substrates that can allow businesses within signage, display and print to inspire and create the most striking of print work," concludes Duncan.

In the Brett Martin booth and printed on EFI's VUTEK 32h: Foamalux White was a bright white, direct-to-print PVC media that is UV stable and suitable for both digital and screen printing. Foamalux Ultra is a high gloss premium surface in white and six colours while the environmental Foamalux Xtra comprises a black core formed of 80% recycled foam PVC from production and post-consumer signage waste, sandwiched between one or two surfaces of white virgin PVC.

www.brettmartin.com

Digital printer investment facilitates expansion

Northumbria Print & Distribution's investment in digital printing technology has allowed the business to offer large format posters and banners, canvas printing and framing and more recently, personalised gifts and printed textiles.

"Digital printing has transformed our workshop and our business," says founder and owner Graham Johnson. "We are now able to meet many more of the needs of our customers as well as find new ones. Previously we would have outsourced the work, which meant we would make less from each job and made it harder for us to be competitive and grow our customers effectively. We owe a lot of this to the support of YPS."

Your Print Specialists (YPS) is the largest provider of large format digital print solutions in the North East.

"Since the day we first opened our doors here at YPS over 10 years ago, Northumbria Print & Distribution has continued to be a loyal and innovative customer," says managing director Garry Brown. "The big difference now is the type of products we supply to them."

Following a brief trial with a second-hand wide format printer, in 2014 Graham knew his customer base definitely had a

requirement for wide format print and decided to take the plunge with a Mimaki JV33 1.6m solvent inkjet printer.

"We viewed this initial investment as a toe in the water for us and quickly reaped huge rewards through an increase in turnover and profits," says Graham. "We soon made further investments with a Mimaki CJV 150 integrated print and cut solvent printer and a Mimaki UJF 3042 UV direct to object printer. Most recently, we purchased a Mimaki dye sublimation printer to enable textile, garments and larger personalised gifts and beefed up our finishing capabilities with a new laminator and bubble-free applicator.

"Embracing the latest digital technologies has allowed us expand the conversation we have with our existing customers and prospects. Many of these have considerable wide format requirements and being able to supply these has allowed us to increase revenue streams relatively quickly and seamlessly. With the addition of a broad range of digital printing capabilities we are looking forward to developing the opportunities these investments provide."

"Northumbria print is a great example of a commercial print shop taking advantage of a growing sector and developing their



Graham Johnson

"These are exciting times for our business and we are very much looking forward to how we develop our new digital printing capabilities"



The Mimaki investment has resulted in increased turnover and profits

existing customer base," says Garry Brown. "The new technologies allow them to supply signage, POS, labels, posters, banners, T shirts and promotional items. The YPS team are immensely proud to be involved in supplying Northumbria print and watching them evolve into a truly one stop print shop."

Graham Johnson says: "These are exciting times for our business and we are very much looking forward to how we develop our new digital printing capabilities. We couldn't do it with the excellent support and encouragement of YPS. We feel very confident that they are working in partnership with us to help us grow in a controlled and sensible way to positively meet the challenges facing the modern print industry."

www.yourprintspecialists.co.uk

Flatbed printers help safety sign maker keep pace with demand

Protect Safety Signs, a leading UK supplier of temporary traffic management signs to the emergency services, has installed two Océ Colorado 1640 printers.

Operating for more than 20 years, the company is always looking to improve every aspect of the business through investing in new technology to boost turnaround times. The company asked Canon's partner ADAPT (Amari Digital Printing Technologies) to upgrade its current print systems to improve productivity and service quality. Protect Safety Signs opted to install two Canon printers to double the efficiency of its production process and increase print capacity.

General manager Andy Roberts comments: "We are extremely happy with the installation. Before working with Canon we had never been able to reliably print and rewind a whole 50m roll of printed media but the Colorado 1640 has transformed our capabilities and we can now print much faster (114m² per minute) without the level of quality being compromised. This change has been such a positive step for the business and we are extremely impressed with the outcome."

With several contracts that require high volumes of print materials in a short time-frame, the investment in flatbed printing and cutting edge machinery has enabled the company to keep up with demand while streamlining processes.



Combining quality, productivity and profitability, the 1640 produces instant dry highly durable and colourfast prints with excellent aesthetics

The UVgel print technology increases productivity and speed while using less ink and still delivering an improved colour gamut while consistently fast output speeds and rapid job turnaround deliver productivity only previously possible using multiple roll-to-roll engines or a larger flatbed print engine. Combining quality, productivity and profitability, the 1640 produces instant dry highly durable and colourfast prints with excellent aesthetics and is able to handle multiple jobs on one device.

"This printer has transformed our print capabilities and we can now print much faster – 114m² per minute – without the level of quality being compromised"



Duncan Smith, Canon UK's country director for production printing products says: "We are thrilled Protect Safety Signs has decided to install two Océ Colorado 1640 printers with our partner ADAPT. To see the company's print capacity increase while using less physical space is great. We are confident the business will continue to soar following the installation of the printers, enabling them to deliver outstanding results."

www.canon.co.uk

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Dye sublimation printers deliver quality and reliability

Printvision uses EFI VUTEK technology and CMYUK-supplied PONGS textiles to produce its wide format digital print services.

This family-owned business specialises in fabric printing, POS display systems and bespoke products and solutions. A major trade print supplier in its own right, Printvision services a large and growing customer resale base through its website. "We facilitate customers of all sizes and provide a tailored end-to-end print management service," says managing director Krit Patel. "There is no project we will not consider and we can print to more materials than most companies."

Two years ago, the company moved into a purpose built-factory, part of a £3m investment which included the purchase of 2 x EFI VUTEk FabriVu 340s dye sublimation printers, Monti Antonio 901 heat press and an EFI VUTEk LX3 Pro, a hybrid flatbed/roll fed LED printer.

Investment in new equipment allowed the company to open itself directly to retail brands. The establishment of a design department to create original artwork plus an ability to install large retail jobs throughout mainland Europe and the UK, has made this latest endeavour a very attractive proposition.

"We were one of the first companies in the UK to move into digital textiles so we've got a great deal of experience," says Krit. "For the retail industry we do everything you would expect such as lightboxes and TFS but also work with stretch and tubular. We produce counters and bespoke work out of wood and aluminum for example, so we're versatile in what we can do with



Krit Patel with the EFI VUTEk FabriVU 340



Products printed on the EFI VUTEk FabriVU 340

PoS. We manufacture in the UK and elsewhere. We have a sourcing department. Our products are very different and that's why retailers like us.

"We know how to create long-lasting beneficial client relationships and always give the right guidance and advice, brands know they are safe in our hands."

Featuring four-colour printing with "exceptionally wide colour gamut", the FabriVu 340 dye sublimation printers have ultra high resolutions of 2400dpi and print direct to textile or to transfer paper with the ability to changeover from one to the other.

"These are sheer workhorses which are exceptional when it comes to quality, colour richness and production speeds," says Krit. "We're servicing retail, trade and on-demand resale customers and we know that with this dye sublimation duo we have the capacity needed to deliver and should any machine go down, we've got a back-up. They embody what Printvision stands for: excellence, innovation and true dependability."

CMYUK's digital textiles team introduced the PONGS digital textiles to the company, replacing unstable, unreliable non-European materials, updating colour management processes on the two FabriVU 340s to ensure true colour

matching especially with Pantones across the wide spectrum of textile applications and products.

CMYUK's key account manager Damien Clarke says: "The switch to PONGS materials from a company with Printvision's calibre demonstrates both the strength of CMYUK's material offerings and its technical support."

Printvision is now predominantly using three PONGS textiles including PONGS Softimage Elastico FR, a crease-resistant and stretchy knitted textile for pop ups, Tension Frame Systems (TFS), table and chair coverings; PONGS Direct-Tex Softimage Contrast Black Back textile, a high quality polyester material with a total block out black reverse, for expo walls and backdrops; and PONGS Softimage Creaseless Premium FR, a creaseless display textile designed for TFS, banners and tablecloths.

"PONGS materials are a perfect fit for our retail and soft signage offerings," says Krit. "They are quality products with excellent reproduction and image sharpness. Where there is stretch, there is excellent recovery. Our clients have already noticed the considerable benefits from these products."

www.printvision.co.uk
www.cmyuk.com

Laser printers contribute to minimising carbon footprint

Designs Signage Solutions is growing year on year while reducing its carbon footprint, owing to significant investment in the latest technological solutions from HP purchased from preferred supplier Papergraphics.

Founded 26 years ago, the Hull-based business is known for its sports stadium signage and branding, with work spanning vehicle graphics, commercial, retail and education signage and high end interior displays. Over the past decade it has developed its sustainability programme which includes sourcing its electricity from

"The ecological benefits of HP Latex do not in any way compromise performance, quality or price"



on-site solar panels, running three electric vehicles, recycling all its cardboard and plastic waste and using eco-friendlier printing technology.

Over nine years ago Designs invested in its first HP Latex printer and in 2019

installed an HP Latex R2000 Plus printer, a hybrid solution designed to offer high quality printing on an extensive range of rigid and flexible substrates. Designs runs an HP Latex LX1500 3.2m-wide roll-to-roll system and two HP Latex 570 64" roll-to-roll machines alongside other printing and finishing equipment.



Managing director Rob Daysley explains: "The water-based inks used on HP Latex printers are better for the environment, better for people and better for disposal, which are all big ticks for us. People are more interested in their impact on the planet and looking for more sustainable products and services so this is something we've driven in our industry. It gives our business the competitive edge while benefiting the environment. We want our carbon footprint to be as small as possible. The ecological benefits of HP Latex do not in any way compromise performance, quality or price."

Many environmental gains come from HP Latex water-based odourless inks which help businesses run their operations in a sustainable way. HP says this technology addresses the full spectrum of environmental concerns from ink chemistry and indoor air quality for print production and display to lifecycle considerations.

Many environmental gains come from HP Latex water-based odourless inks which help businesses run their operations in a sustainable way

www.designs.uk.net
www.hp.com

Project management software transforms installation process

Service Graphics has renewed its use of Vism's project management software and installer apps, with its production site having reaped the benefits of a more streamlined process for managing its installations.

The business has a number of high profile clients across the events, exhibition, museum, luxury brand, sports and property industries, ranging from the World Duty Free shops in airports across the UK to major sporting teams.

"We've just finished installing outdoor signage for Millwall and now sponsor the team," says production manager Justin. "We carry out trade work including smaller jobs, for example, a couple of A1s through to hanging banners and building wraps. We don't have a team of in-house installers so rely on freelancers, making sure we use the best fitters for each job.

"In addition to production, I look after the building, paperwork including quotes and invoices, meeting targets and everything else. Time is critical in our industry and as we use freelance fitters we had to make up to 10 phone calls just to get someone booked in for a job. Using Vism we can check everyone's availability in a couple of clicks then share the relevant information

with those fitters that will do the job.

"Not only does this save us a lot of time, fitters know that when they get a notification it's just a single tap to let us know they're available."

A key feature for Justin is having all the information and files relating to each job saved in one place so he can easily access it. Every job is put on the app with a job number which brings up all the details.

"Forever chasing proofs of delivery from our drivers, we now have them all on Vism," Justin says. "It gives the drivers all the information they need and the customer simply signs the app to acknowledge receipt."

Vism's managing director Dan Tyler comments: "A lot of clients are very innovative and that's why we enjoy working with them to continuously develop Vism. Being an industry specific solution means a feature requested by one user can often be implemented at little or no cost to them as it benefits others. Justin incorporating deliveries is a great example of how versatile Vism is and how with some minor modifications we've been able to create that delivery functionality properly and make it available to everyone."

One of the most important benefits of using Vism is the ease of sending photos to clients once a job is complete

One of the most important benefits of using Vism is the ease of sending photos to clients once a job is complete.

"Previously, we might have to chase installers for photos confirming completion; now they simply take the pics in the app, get the customer on site to sign on their phone screen and I get a notification," says Justin. "I can choose which photos to share with our customer and in two clicks they get an email and are able to view photos and signature on our online Vism customer portal.

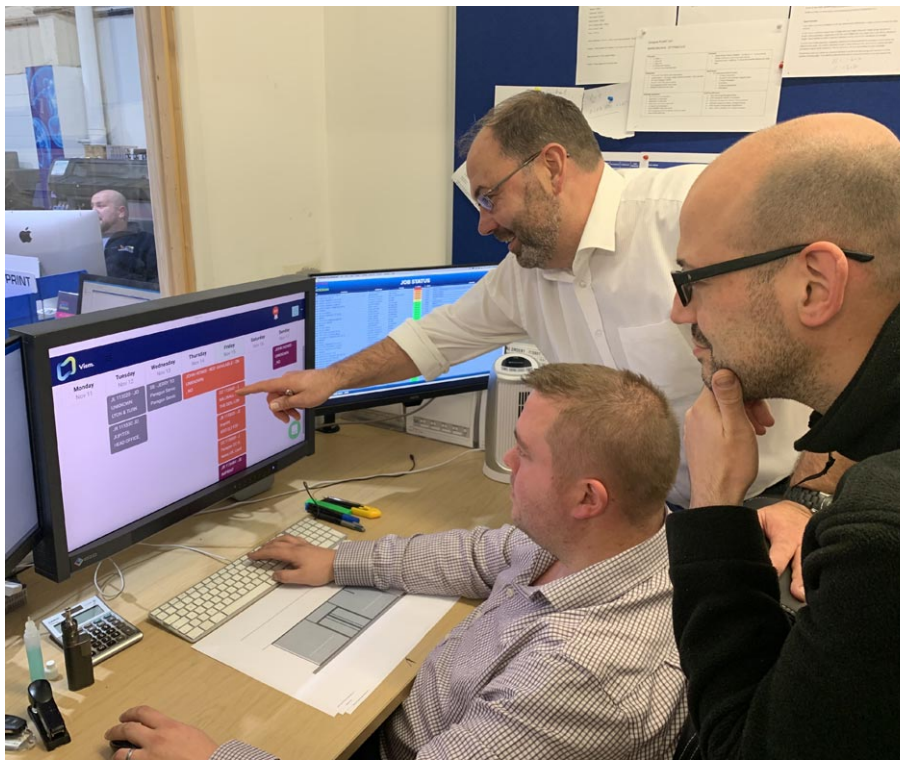
"Vism automatically sends a brief to our installers including site details, travel and contact information and all the documents they need like RAMS and visuals ready for them to access on the go. They only get the full details once you've confirmed them to do that job which adds a layer of security.

"Fitters like it because when they're on site and you ask them to do a job, they can easily forget which days you've asked for. Now it's on the Vism app they just have to look at their phone."

Throughout each day, Justin receives colour-coded, real-time job status updates and instant sign-off notifications, complete with signature and photos.

"All clients are stored there with their address, previous installation addresses, phone numbers and so on and you can save documents that need to be sent to the client like certificates of insurance.

"Any time saved by apps like this we can spend getting new work in and upping our figures. At first I was quite reserved on whether using Vism would benefit us but as soon as I started working with it I realised how much it would do."



A key feature is having all the information and files relating to each job saved in one place

www.vismapp.com

Polymeric vinyl film offers seven-year unprinted durability

Founded in 1958 as a manufacturer of flexible materials, Arlon Graphics is a global leader in graphic films and provides easy solutions for real world applications.



Brilliant and reliable, the polymeric face stock of DPF 4550 ensures a high quality print and exceptional graphics.

In 2019, the company launched the DPF 4550 range - a multi-purpose film for all types of surfaces for vehicles and commercial graphics. Brilliant and reliable, the polymeric face stock ensures a high quality print and exceptional graphics at a competitive price point. This film enables easy installation and a long-term bond.

Designed for indoor and outdoor intermediate signage, it is user-friendly and delivers graphics for real estate and retail signage as well as flat-sided vehicle applications. It features a superior quality on a wide variety of print systems.

The DPF 4550 range provides different solutions to ensure your best application; a white polymeric film, 4550G is available in a gloss finish with a clear, permanent pressure-sensitive, solvent-based adhesive. The range comprises GT/MT and GTX/MTX with innovative, low profile, bubble releasing X-Scape technology and light grey adhesive to allow for added opacity to cover existing graphics or darker substrates. Committed to delivering high quality and long durability of its products, Arlon Graphics now offers a seven-year unprinted durability on the DPF 4550 range for the UK and Ireland only.

Want to learn how to install DPF 4550? WrapItRight.com powered by Arlon will help by giving you knowledge and showing the right techniques.

www.arlon.com

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Premium signage with chemical etching

By Jack Gocher

When people think of chemical etching for signs, they usually think of traditional opening plaques, or nameplates outside the doors of professionals such as solicitors or accountants, although in reality this is just a very small use of the product for signage.

Chemical etching is very similar to traditional engraving. It creates holes in the surface of metal sheet, and those holes are usually filled with paint. Mechanical engraving cuts designs into metal using a rotating cutter, one letter at a time. Chemical etching cuts holes into the metal using acids that gently eat away the metal. The very best quality chemical etching uses a photographic stencil to create high definition images into the metal, the etched parts being smooth and even, unlike engraved plates which have scores and tracking marks left behind by the cutter.

If done well, the definition is astonishing, perfectly capable of defining text less than 1mm high. It is rarely necessary to reproduce text that is so small that it cannot be seen without a magnifying glass, but this sharpness of detail allows perfect reproduction of intricate text, graphic shapes, or even photographs by the use of tiny dots.



High quality etched signage ideal for long lasting signs such as opening plaques

It is this high quality of appearance, and the unique glint of designs that are recessed into the surface of the metal, that makes chemical etching such a popular choice for special opening plaques, or prestigious nameplates.

entire wet room to the process, you will find that everything in your workshop will start to rust at an alarming rate, and a whole manner of electronic equipment on nearby machines will start to fail."

The biggest use for chemical etching in the sign industry is not this sort of nameplate however. By far the biggest use is for wayfinding. Stainless steel makes superb wayfinding signage for projects such as apartment developments. The same high quality appearance that makes such good opening plaques, also conveys an air of quality as part of upmarket apartment interiors. Etched brass is also popular for wayfinding in traditional hotels, and for apartment developments in grand buildings.

Colin Edge of Multitechnic Limited, explains, "Chemical etching is not a process that is easy to install in your workshop, so most sign companies use a trade supplier. Buying an etching machine may seem fairly inexpensive compared to a digital printer, but there are a lot of hidden costs. The chemicals need to be stored and disposed of responsibly. The etching equipment gives off acidic vapours, and unless you can dedicate an



Etched Stainless including clear, vibrant graphics



This hotel signage requires polished and satin brass

This acidic environment is equally as good at destroying its own equipment too, and maintenance costs for etching machines are therefore very high, with frequent and prolonged periods of downtime. "You also need to think about how you will get paint into the etched parts to the right quality so that it stays there, not as easy as you might think," adds Edge.

Because of this, very few people attempt to do their own etching. Even if you use a lot of etched signage, it is still likely to be cheaper and quicker to use a trade supplier. This has other advantages too, because people who deal with the product every day have the experience to help you with options on materials and finishes, and to avoid you making expensive mistakes by using inappropriate materials or specifications.

Colin Edge says, "Multitechnic Limited have been a trade supplier to the sign industry for a very long time, and are the only dedicated trade-only manufacturers for the sign trade in the UK. Over almost half a century we have developed processes and finishes that open up a huge range of possibilities for designing superb wayfinding signage. We have unique processes that can produce hotel signs that have all the beauty of expensive cast bronze, but in exquisite fine detail that no casting could ever reproduce. We can even etch fine detail to a depth of 1mm or more for use as brass rubbing plates, as popular for trails and heritage sites as ever."

Because they are a dedicated trade supplier, Multitechnic say they understand the needs of sign companies. "We have set up to supply the sort of requests we receive from sign companies every day and can produce an astonishing amount of signs in a very short time. If your customer has left it a bit late to order the signs for a large hotel that will be opening soon, it is no use to be told that it will take six weeks to make the signs. A few days may be all you get. So we have designed all our manufacturing to cope with this sort of situation. We turn most smaller jobs around in less than 48 hours to keep the benches as clear as possible, so that we can deal with larger jobs immediately."



Polished and satin stainless steel finish with highlighted detail

Industrial labels

Another use for chemical etching in the sign trade that is often overlooked is labels. Labels are just small signs after all, and a lot of industrial labels are stainless steel. If a huge industrial company wants thousands of cheap labels they will go to a cheap label manufacturer directly, but there is a profitable market for small runs of higher quality labels that many sign companies ignore.

"If you think about it, as a sign professional you have all the skills and knowledge to set up the artwork and have labels manufactured for your customer," says Edge. "The large label manufacturers don't like smaller enquiries, and often the customer who needs a small run of high quality labels for his project will not know where to go to get the job done quickly and to a high standard. It is perhaps something worth exploring and adding to

your marketing, so that when these people go looking for a supplier, they will find you."

Colin concludes, "The final word on chemical etching is laser. You will often find metal plates being referred to as laser etched, but in reality, such a thing does not exist. You can laser etch into pretty much anything that burns such as plastics and wood. The heat of the laser burns away the material, etching a hole into it. Laser etching does not work into metals however, because metals will melt, they won't burn. It is possible to make a mark on metal with a laser, but it isn't pretty, and by no means would it qualify as being etched. So when your customer requests laser etching into metal, what he actually wants is chemical etching."

www.multitechnic.com



Etched stainless plate with a complex fill

The etching process

Chemical etching is a multistage photolithographic process. The metal is first cleaned and then laminated with a UV sensitive photoresist film. A photo tool containing the desired artwork is placed on top of the laminated material. It is then exposed to UV light. The UV light passes through the clear areas of the photo tool hardening the laminated film. The sheet is then chemically developed to wash away the unexposed photoresist, leaving a very precise mask of hardened photoresist behind.

The material is then placed in an etching machine where it is sprayed with a high pressure temperature regulated chemical spray (most commonly ferric chloride). The solution etches away the unprotected portions of the material to reproduce the desired image. In the final stage the photoresist is stripped away, leaving the material ready for any post etching processes required such as infilling or patination.

Chemical etching has many benefits over other metal engraving techniques. There is no heat distortion as associated with laser processing, and no tool wear, as associated with mechanical engraving methods. In the etching process the material is dissolved atom by atom for a smooth burr free finish that leaves the

material grain structure and magnetic properties unchanged. Another key benefit of chemical etching is that the complexity of the design has little bearing on the process time

From humble beginnings in 2012, Trade Etching Direct (TED) says it has rapidly grown into one of the UK's leading chemical etching companies. Managing Director, Anthony Dullaghan, says, "One of our main goals when we started the business was to really streamline the working relationship between ourselves and our customers. We want our customers to feel that working with us is like having their own etching department."

He continues, "In 2017 we moved into our new 4,000sq ft premises to meet the UK sign industry's growing demand for high quality etched metal signage. As a trade supplier, our success has been built by developing long term relationships with sign companies by providing them with a consistently high quality product that they can trust and a service they can depend on."

Trade Etching offers customers a fast turnaround including same and next day deliveries.

"We take great pride in the quality of our work and we understand that our



Etched CNC cut 3mm Brass with top ribbon and text nickel plated

customer's success is our success," says Dullaghan, "By partnering with TED, sign companies are able to offer their customers a first class etching service. We work hard to deliver the best possible margin, allowing them to increase their revenue without any capital investment in equipment."

A typical day of production can see Trade Etching produce anything from stainless steel industrial nameplates for oil rigs, to large patinated brass signage for a high end property development. Other common applications for etching include memorial plaques, wayfinding signage, corporate awards and safety signs.

"We work with a wide variety of materials including stainless steel, brass, copper, zinc and aluminium. We've also developed techniques to allow us to etch coated materials such as the Rimex T22 range," he adds.

"We've continued to invest in equipment to make our processes more efficient and provide our customers with the best possible service and we have recently installed a 3rd 'Masteretch' etching line to further increase production capacity. This move allows us to now handle orders running to many thousands of pieces."

Trade Etching can handle panels in-house up to a maximum size of 4m x 2m. "We have a number of additional supporting



Highly detailed chemically etched brass

services in house including CNC routing, metal patination and UV printing. UV printing provides our customers with a great low-cost option for back of house signage and also offers designers the ability to incorporate full colour and UV printed braille elements into their designs. We have developed a strong reputation in the industry for the quality of our patina work and this has been a significant area of growth for TED working with our customers on some great architectural projects."

Anthony Dullaghan concludes, "We are seeing some exciting developments coming through and over the last 12 months we've helped our customers with projects that have incorporated augmented reality and near-field communication elements. In essence what we do is a marriage between the best of today's cutting edge technology and a chemical process that is largely the same as it was during the time of Rembrandt. Blending those two disciplines together and seeing how far we can push them is something we are very passionate about at TED."

www.tradeetching.com



Etched lasercut brushed stainless steel and etched lasercut brass



Etched large stainless steel plaque

Trade Etching Direct provides a winner for British Sign Awards

"Trade Etching has, as part of its ongoing sponsorship of the Craftsman Award at the British Sign Awards, produced the trophies presented to the award winners and have always done a superb job for us," says Ray Hirst, Director at the British Sign Awards.

He adds, "However, this year they surpassed themselves by designing and producing a series of unique trophies that not only looked fabulous but also demonstrated the creative and manufacturing skills we seek to highlight in the Awards."

Under extremely pressured conditions, Trade Etching combined 10 different elements including etched and printed brushed stainless steel, reverse etched patinated brass, laser cut neon acrylic in red, blue and clear and then, to top it all, they then incorporated internal LED illumination.

Ray Hirst concludes, "The trophies are a demonstration of skill and commitment and were a highlight of what proved to be the most successful awards to date. We can't thank Trade Etching enough for their contribution."

Chemical etching continues to create the greatest impact

The process of chemical etching continues to surpass later procedures for finer detailing and cost efficiency. The sheet metal machining process continues to be used to create complex and intricate designs, with high levels of accuracy via precision craftsmanship. The result provides a high quality, robust and long-term metal solution.

Impact Sign Solutions Ltd based in Aylesbury, Buckinghamshire began specialising in chemical etching over 15 years ago. Owner and Managing Director, Andy Borrow says, "Chemical etching is a niche technique that only a handful of businesses specialise in within the UK. We wanted to be one of the first to provide our customers with a quality in-house product that excelled all others."

"It is an old method," continues Andy, "But one that beats newer processes, in my opinion, when it comes to a deeper and more quality etch and finish."

The process

1. The customer's artwork is prepared, and the film with design is printed
2. The metal is chemically cleaned to remove any grease, debris etc and the film and laminate film is applied
4. The metal is exposed under UV light to transfer the design onto it
5. The metal is fed through a series of chemicals - primer, developer, etchant and water for cleaning
6. The metal is thoroughly inspected
7. The design is finished with a colour infill (if required)

The etching stage itself takes approximately 8-10 minutes. For one A4 commemorative plaque, no matter the



design intricacy, the entire process takes roughly two hours.

"Our aim at Impact is to provide our customers with the best possible service, product and outcome," says Andy. "Chemical etching works on most metal, however the results are amplified when using stainless steel. The metal is more durable, it does not tarnish, and no maintenance is required - all of which are key factors to many businesses. We advise our customers to use stainless steel each time to get the best results."

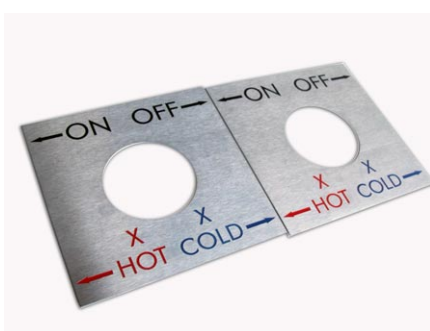
Chemically etched products for Impact range from the core items including data plates and control panels, to prestigious items and commemorative plaques. The main bulk of work comes from the manufacturing, marine and food industry

which requires high volumes of quality products and a fast turnaround.

Impact does produce a range of other chemically etched items. Past work includes a plaque for a time capsule which now sits underground in Leicestershire! Plus, an impressive and highly detailed information sign for a Parish Council in Aylesbury. As this particular sign was infilled, some of the colour had come away due to it being outdoors and open to the elements. Therefore, the infill was recently restored - around 15 years after it was first installed.

Andy has put a great deal of time and investment into setting up this process in-house. He says: "for anyone thinking of starting up in chemical etching, be prepared to invest heavily. There are a range of machines and tools you need such as the chemical dip tanks, etching machine, hydraulic guillotine and hydraulic punch and corner rounder. This all adds up."

"Also, don't forget about your employee training. Investment here is vital," says Andy. "I am proud to say that from our small team, three members are skilled in this precision craft. Impact Sign Solutions are masters of all types of sign-making, large format printing, vehicle graphics, engraving and more. We celebrated our 25th year of business this year (2019) and the



Stainless steel control panels with holes and showing addition of colour

success of the company continues to grow. I put this down to the in-house expertise, the high-quality materials and processes, plus our reputation as a knowledgeable and customer-focused company."

He concludes, "As an ISO 9001:2015 accredited business we take our work extremely seriously and deliver only the best outcomes. Investing early in chemical etching has not only improved our offering and skillset but also increased our client prospects. I don't see an alternative to this process that matches the results, coming along any time soon."

www.impactsignsolutions.co.uk

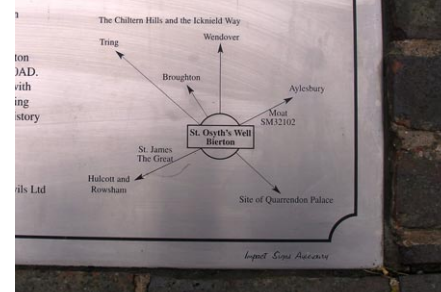


Reception area at Impact Sign Solutions



Acid etched stainless steel signs installed for Aylesbury Parish Council

2015 the main route between Aylesbury and Broughton is a small piece of common land. Today, part of this route is 'Bierton Circular Walk'. There are remains of a Saxon village Great Church which itself dates from the 13th century or there, there is an ancient moat which is a scheduled monument. s of parliamentary Aylesbury fought the Cavaliers of Charles I it is said that the Church and the Red Lion were used by sels have stood close to St. Oystin's Well which was also stown Well' — latterly with 'Uptown Pump' alongside.



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Graphics printed on optically clear film for maximum visual impact

Lintec's E-2200ZC optically clear film played a key role in the realisation of an interior décor project by Signbox. The installation involved several environmental graphics within the London office of a leading global management consultant and professional services firm.

"Our team comprises some of the industry's finest designers, project managers and installation professionals," says managing director Mark Bartlett. "We like to apply a conceptual, holistic approach to signage and we're consistently recognised for our achievements on world class projects."

Mark saw an opportunity to grow his company's corporate signage portfolio further when the customer enlisted Signbox's services for a decorative makeover. Serving clients in more than 120 countries across 40 industries, the firm's London office occupies three floors of the Plantation Place office development in the City of London.

"This was an active, largely open-plan workspace so floor level directories, secondary wayfinding, room numerals and glass manifestations were all key to enhancing the office environment," explains Mark. "Of note were three sports-themed meeting room suites, where glazed walls and stunning digitally printed super graphics would be incorporated into the décor scheme."

For delivering these standout graphics and manifestations, Signbox decided to employ Lintec's E-2200ZC optically clear film. A highly transparent polyester film designed for UV curable inkjet printers, E-2200ZC was particularly suited for the window decorations, ensuring that the highest quality images could be reproduced on the substrate.

With a thickness of 50 micron, E-2200ZC's scratch-resistant properties proved to be a draw for Signbox. In an environment where knocks and abrasions would likely be sustained over long periods of time, the

"This project is a superb example of how a compelling design scheme and innovative materials and technologies can transform a tired and overfamiliar space into a highly motivational working environment"



The substrate needed to guarantee a level of durability that other films might not be able to match while preserving print quality and maintaining perfect see-through vision in the unprinted areas

substrate needed to guarantee a level of durability that other films might not be able to match while preserving print quality and maintaining perfect see-through vision in the unprinted areas.

"We have a long-standing working relationship with Lintec that goes back 10 years and utilised the same film for a number of projects so we had no doubt that the product would deliver," comments Mark. "We ordered approximately 200 m² of material, which allowed us to produce 120 linear metres of graphics across 20 meeting rooms. Thanks to Lintec's film we were able to produce a range of graphics that conveyed maximum visual impact and helped enhance the office location.

"This project is a superb example of how a compelling design scheme and innovative materials and technologies can transform a tired and overfamiliar space into a highly motivational working environment. The role that Lintec's film played in achieving this result is invaluable."

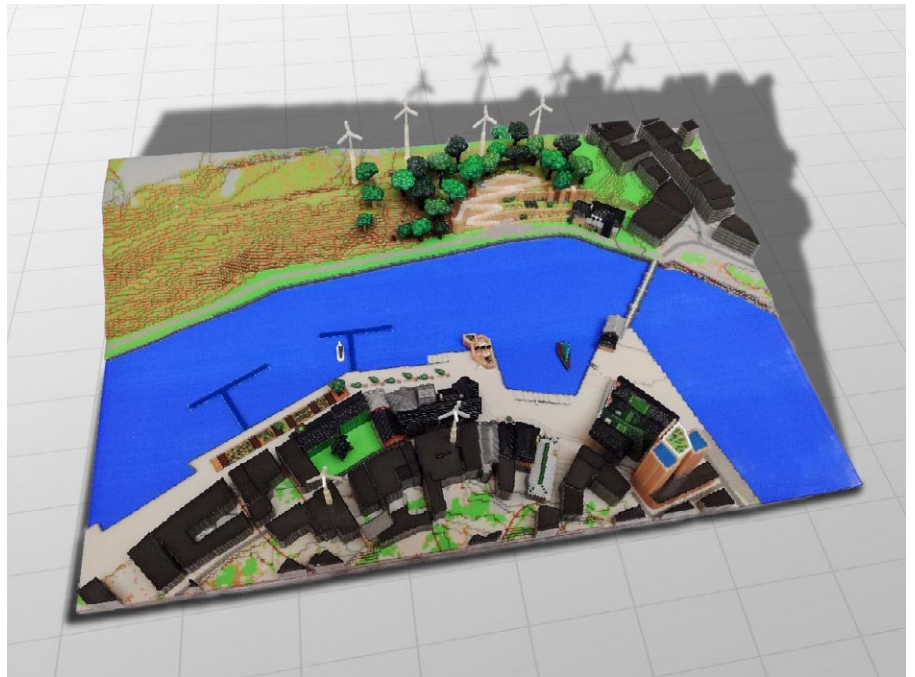
www.lintec-europe.com



Video game project showcases capability of 3D printer

Mimaki Europe has partnered with video game giant Minecraft along with a French government administration to deliver a nationwide competition aiming to raise awareness of social and environmental issues among young people. Having seen over 1,200 entrants vying to create the ultimate sustainable town using Minecraft's video game platform, Mimaki's 3DUJ-553 full-colour 3D printer enabled the winning design to be brought to life in vivid detail in an intricate 3D printed model gifted to the victor last October, marking a year since the competition originally began.

With a full 3D printed model of the winning virtual map set to be delivered as part of the grand prize, a painstaking process ensued following the competition to translate the detailed design from a virtual video game format to a workable print model – a process which took over 19 hours. Mimaki's 3DUJ-553 full-colour 3D printer, capable of faithfully replicating



Every detail of the winner's original design was able to be reproduced in vivid detail and colour thanks to Mimaki's full-colour 3D printing technology

Mimaki is exclusively distributed in the UK and Ireland by Hybrid Services and the company has a wide range of 3D printed full colour samples available to view at its Cheshire showroom

more than 10 million colours, enabled every intricacy of the design to be 3D printed in full-colour and accurate detail, due to the print quality and water-soluble support material, which prevents small detailed parts from breaking during the finishing process. Even the most fragile design elements comprised in the virtual town, such as wind turbines, were able to be 3D printed, enabling Mimaki to create a final model which was entirely true to the creator's original designs.

"As a company which has long been committed to preserving the environment and finding solutions for greener products, this competition was an absolute honour to be a part of," explains Thierry Lim, area sales manager, Mimaki. "It has been very inspiring to see so many conscientious and visionary young people engaging with technology to explore environmental

solutions and imagine living spaces with sustainability at the core. To be able to push technology even further and actually bring the participants' designs to life in front of their eyes is a real privilege and that is entirely down to the capabilities of the 3DUJ-553. With these young people already imagining the kinds of innovations which might shape their futures, it is exciting to be able to share with them the cutting-edge advances in 3D printing technology and provide an insight into the immeasurable possibilities that it might hold for them in years to come."

Mimaki is exclusively distributed in the UK and Ireland by Hybrid Services and the company has a wide range of 3D printed full colour samples available to view at its Cheshire showroom.

www.hybridservices.co.uk

Poster projects benefit from easy application printable vinyl

Panopus Printing created two poster projects for The Garage in London but in the fast-moving music world, the colourful ads were only on show for a few days. To meet this demand the local print specialist relied on Drytac SpotOn, a printable media designed specifically for easy removal after short-term installations.

In 2010 the company decided to meet increasing customer demand and diversify into large-format vinyl printing using its HP Latex 315 printer to produce vinyl signs, stickers and lettering. It provides very high resolution reproduction services to fine art, fashion, graphic design, interior design and architecture students at London institutions including Central Saint Martins.

Last year Panopus completed the projects for live music venue The Garage, advertising new material from Dylan and Dorian Electra and its sister pub The Grace in Highbury, north London.

"We received a request for vinyl posters that could be removed after two to three days," explains managing director Rayvin Portelli. "We had previously experimented with Drytac SpotOn using samples supplied by Antalis and found them ideal for the job; the material was put up and taken down easily."

SpotOn printable vinyl film features Drytac's 'dot pattern' adhesive that enables easy bubble-free application onto a wide variety of smooth surfaces, even by non-professionals and clean removal at the end of use. It can be repositioned and reused if stored correctly. The 100µ (4 mil) film, available in clear matte, white matte and white gloss versions, is compatible with solvent, eco-solvent, latex and UV inkjet printing technologies.

"We received a request for vinyl posters that could be removed after two to three days. Having previously experimented with Drytac SpotOn we found it ideal for the job; the material was put up and taken down easily"



Panopus recently completed two projects advertising new material from Dylan and Dorian Electra using Drytac SpotOn



SpotOn printable vinyl enables bubble-free application and clean removal

Panopus also used the media for a sound and art installation at Lloyds Banking Group's London Wall building. Caribbean Takeaway Takeover: Identities and Stories commemorates and celebrates the lives of 12 pioneers from the Windrush generation and features a life-size replica of a shopfront created by Panopus on Drytac SpotOn.

"I'm looking forward to using ReTac Textures for more projects," says Rayvin. "It's beautiful stuff to apply, remove and reuse, which makes it great for POS."

www.drytac.com

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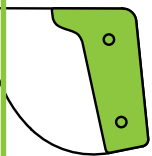


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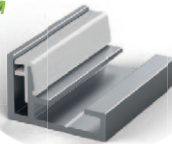


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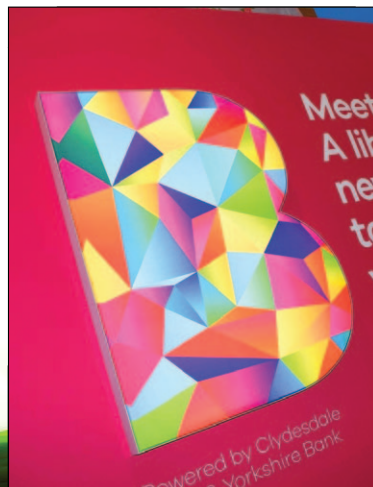
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Hyde Park transformed with flat-board and 3D displays and banners

A sackful of sign and display work produced by Leek Signs transformed London's Hyde Park in December.

Leek Signs & Graphics celebrated its 20th anniversary last year, having evolved from a sign maker relying on vinyl-cut lettering to investing in the latest digital printing equipment. While the company offers signage, printing and design services to a wide range of customers, it does a great deal of work in the theme park and public events sector.

This includes the Hyde Park Winter Wonderland event for which Leek Signs has produced bespoke flat-board and 3D displays and banners for the past three years. Much of the Christmas array was printed on a Roland TrueVIS VG-640

wide-format inkjet printer/cutter set up in seven-colour ink configuration running Nazdar 204 series inks, supplied by Quality Print Services (QPS).

"The new printer replaced a Roland SOLJET Pro III XC-540 printer/cutter installed in 2011," comments director Mat Burrows. "It was still a good machine but Chris Bailey at QPS proposed a great offer for an ex-demo TrueVIS VG-640 with Nazdar inks so it was the right time to upgrade. We are really impressed with the printer; the quality of print is superb and the colours are vibrant."

Nazdar 204 Series digital imaging inks have been developed specifically for use in Roland TrueVIS SG and VG series systems using OEM inks. As a plug-and-

We are really impressed with the printer; the quality of print is superb and the colours are vibrant"

play formulation with exceptional chemical and colour compatibility, 204 Series ink cartridges can replace OEM inks as they run out with no need to flush. This saves on consumables costs and downtime, with no loss of quality.

Leek Signs has been using Nazdar bulk ink systems on its Roland printers for several years on the recommendation of Chris Bailey.

"We are happy with Nazdar inks; they are economical and produce great colours," says Mat. "We've never had any problems using these alternative inks."

This combination of Roland printer/cutter and Nazdar 204 inks will help Leek Signs continue to meet demand in its current fields with potential to expand.

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Eco materials help zoo meet conservation targets

Signs Express Chester provides signage for Chester Zoo for whom wayfinding and signage plays a critical role in visitor satisfaction. A key material used throughout is Terra Banner, distributed in the UK by Soyang Europe. In 2018, the zoo signed up to a plastic reduction scheme which had a big impact on its print requirement.

"As a conservation education charity we're always looking for ways to reduce our footprint on the planet by ensuring the zoo is as sustainable as possible," says senior exhibitions and interpretation officer Fred Howat. "This includes the signage, exhibition and marketing material we provide across site. We'd been using PVC banners for some time as they were durable and met our budget requirements but environmentally didn't meet our needs so we began searching for a recyclable

option. Terra Banner is lightweight, has great colour and clarity and simple to install. It has since become our standard product for any banner requirements we have, with PVC-based signage being gradually phased out."

Terra Banner is a PVC-free, 220gsm polyester banner with a special resin coating, providing excellent whiteness and colourimetry.

"Not only does it have the eco benefits required but it's a signmaker's dream, being easy to print and finish and simple to install," says Signs Express Chester's production manager Tom Lloyd. "Cutting, fitting and manipulating is straightforward and it holds its colour brilliantly, even outdoors which is where much of the print for the zoo is situated. Terra Banner's longevity outdoors has exceeded anything

else we've used. We not only use it for signage but as a print substrate for the games the rangers use when they work with young people to educate them about the importance of animal conservation." EcoStick has been used for an ongoing project whereby the optically clear, PVC-free window film is installed outside of and sometimes, within animal habitats that have glass frontage. "We recently installed it inside the tortoise habitat glass," explains Tom. "The only thing we have to worry about is how the printed window film will hold up to scratches from their feet but it lasts very well and gives a great finish. It is so easy to apply, which has its benefits when you're applying it to the glass exterior of the lion habitat."

www.soyang.co.uk
www.signsexpress.co.uk/branch/chester



Terra Banner has aligned well with Chester Zoo's sustainability requirements



EcoStick applied to the inside of the glass in the tortoise habitat



Terra Banner signage is widely used throughout

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Solid sign technology *By Jack Gocher*

Vitreous enamel is an extremely durable finish produced by fusing specialist glasses onto metal, usually steel or copper, at high temperatures. The process ensures that there is full chemical adhesion between the finish and the substrate, unlike paint finishes which rely on mechanical adhesion. The glass-like nature of the finish gives it very high durability, weather resistance and colour stability.

Vitreous enamel is part of everyday life and found all around us. You will find it on many kitchen surfaces including cookers, saucepans and barbecues. You will find enamelled cast iron or steel baths and clock and watch faces. Out of doors, we use enamel for street signs, Underground station signs, architectural panels, storage and treatment tanks and many other places. It is selected because it is

weatherproof, vandal resistant, fireproof and because it lasts and lasts and lasts. The Titanic's Captain Smith's enamelled bathtub has survived very well under the sea for more than 100 years.

Vitreous enamel signs can come in a variety of sizes and designs are used in an increasing number of sites, both urban and rural. Chris Taylor of the Vitreous Enamel Association speaks of a particular example, "One of the benefits of using vitreous enamel signs can be seen in the picture taken immediately after a fire some years ago at Waterloo station. When everything else was black and charred the vitreous enamel sign was still hanging and readable from the blackened roof."

Signage in vitreous enamel remains popular due to the multiple benefits of durability colourfastness and graffiti



Archive image shows aftermath of fire at Waterloo station. Vitreous enamel sign was still hanging and readable from the blackened roof



London Underground signage is a classic application for vitreous enamel

resistance. No other finish can offer such high standards and the images on this page show what can be achieved.

Taylor continues, "There are some criticisms levelled at vitreous enamel signs, the main one being cost. However, the rising price of alternatives has made this much less of a factor. Secondly, the finish is thought to be prone to chipping, although any sign that is attacked with the force required to damage modern vitreous enamel is sure to be chipped or seriously damaged regardless of the finish used. Thirdly, there are limitations in the reproduction of complex artwork. However, modern processes allow the addition of a full range of solid colours and the reproduction of full colour photographic or art images within a sign."

He concludes, "The ability to be easily cleaned is one of the important benefits of vitreous signs because solvent cleaners do not have any detrimental effect on the finish. This allows cleaning to remove spray paint on site at very little cost. Once cleaned, the sign will be as good as when it was first installed every time it is cleaned."

www.vea.org.uk

Signs that last for centuries

According to A. J. Wells and Sons, a British manufacturer of signage and architectural cladding, when it comes to signs, there are not many that hold their appeal in the same way that those made from vitreous enamel do. Operations Director, Guy Wells, explains, "Maybe it is because they maintain their legibility and vibrancy so well or that they capture the style and essence of their era in a way that history books just can't quite achieve but there are few materials that will outlast the company that they were produced to promote or the station that they were made to decorate. These signs can date back well over a hundred years and help give a snapshot of a bygone age."

Famed for its durability, vitreous enamel has been used as a finish for over 3000 years. It is fundamentally a glass-based coating that is fused to a metal substrate using temperatures of over 800°C that vitrify the glass, fusing it with the base metal material. From its beginnings as a decorative surface on gold, silver and copper jewellery, it was the application to ferrous metals that opened up opportunities for use in more functional applications such as baths, bakeware and signage.

Today the applications are even more wide ranging. Its heat and fire, chemical and abrasion resistance makes it the coating of choice for many more products including



Putting on the finishing touches

range cookers, storage vessels, cladding, furniture and whiteboards.

A.J. Wells & Sons Ltd first started using vitreous enamel as a coating for their Charnwood range of wood burning stoves over 40 years ago. A family business set up by Alfred Wells and his two sons in 1972, they required a coating to their domestic heaters that could cope with the high temperatures needed. Vitreous enamel was the obvious choice, but after

several years of struggling to find a reliable supply chain they invested in a plant of their own. "We soon realised that there was surplus capacity in the plant so set out to find work in different market sectors. We managed to secure some work for cladding and signage at the Barbican in London and also for a supplier to London Underground," says Guy Wells.

Continued on page 46



Coating is applied by spraying



Heating creates the hard coating

VITREOUS ENAMEL Feature

Continued from page 45

The use of vitreous enamel for signage on London Underground has been widespread for decades due to its durability and resistance to graffiti (and the chemicals used to clean it off). It was, however, the tragic events of the King's Cross fire in 1987 that brought into focus the use of various materials in sub-surface environments. Flammable material was responsible for the fire spreading so violently so following the tragedy, stations were upgraded and refurbished to replace these materials with non-flammable alternatives. The use of vitreous enamel grew because of its fire retardant properties and is now used in wayfinding and door signage and cladding extensively across the network.

The product is commonly used in transport environments but is also used in locations where signage may be more exposed to the elements. The surface does not suffer from UV degradation, so signs do not fade or become brittle over time. Another advantage is that due to the surface being non-porous, any moss or algae cannot take root meaning it can be wiped clean to restore it to its original vibrancy. Vitreous enamel is also suitable in coastal environments with the surface being resistant to the salt in the atmosphere and the hard-wearing surface resilient against abrasion from salt and sand.

Elements of the process of enamelling remain fairly traditional and manual. The base material is glass frit that is produced in large furnaces that produce a fine sheet glass that is crushed down into what can best be



Fine precision work done by hand

described as 'glass cornflakes'. The frit is then combined with various clays and oxides to create a mix that will bond to the steel substrate and match the thermal expansion of the metal. The ingredients are mixed with water in large rotary ball mills that crush and combine the components to create a ceramic slip ready for application.

Metal panels are cut and formed on CNC lasers and press brakes in numerous sizes and shapes. The application of the coating is achieved via spraying on the coating. The coating is relatively thick when compared to paint and powder coating systems but obtaining the correct thickness is critical to achieve the correct balance of adhesion and coverage. The process is therefore heavily reliant on the skill of the operator.

A two-coat enamel system is used in the production of signage using a ground coat

and a finish coat. This topcoat can be various colours and gloss levels. Between each coat the panel is fired at over 800°C. The result is a coating that chemically bonds to the metal panel to form a composite material and gives rich colours.

After spraying, panels are screen printed with enamel inks using traditional hand bench screen printing. These inks are again fired to deliver a vibrant finish that gives a beautiful depth of colour and a relief to the printed areas. It is even possible to print metallic inks (gold and platinum based) to add a touch of lasting quality.

Although traditionally most enamel signs comprised of block colour images, developments in transfer production technology has seen the quality of photographic and fine detail images improve greatly in the use on enamel signage. This has led to increased use of vitreous enamel for interpretation signage for sites of historic interest, nature reserves and scenic lookouts.

"For over 30 years A J Wells & Sons have seen the market for enamel signage change. These developments included the incorporation of illuminated glass patches within the panels and the incorporation of the signs into various framing systems and diverse materials including aluminium, stainless steel and wood," says Wells.

He concludes, "Today we are the largest supplier of vitreous enamel signage and cladding in the UK and are confident that with the product's longevity and its ability to be recycled at end of life (if it doesn't end up on a collector's wall!) it offers an environmentally advantageous and cost effective option to deliver a lasting desirable impact for the next 100 years."

www.ajwells.com



Screen printing methods used as part of production

FASTSIGNS relocates UK office

The UK support centre of international signage franchisor FASTSIGNS relocated within the county town of Staffordshire on 1 October 2019. This move to the Greyfriars Business Park facilitates planned growth for the FASTSIGNS UK network and creates a centralised location for the franchisor to successfully support its signage-focused business that continues to prolifically open new franchises across the UK, with plans to expand into all areas where available markets permit. The new office facility which includes extensive meeting space, will provide an office environment that is conducive to the franchisor's operations. It is intended that the meeting rooms will create a centralised hub for franchisees and centre employees to attend meetings and training sessions including events hosted by visiting signage specialists from the head office in Dallas, Texas.

Managing director John Davies comments: "The relocation of the FASTSIGNS UK support office has been a priority for the business since it became clear that we had outgrown our previous location. This



This move creates a centralised location for the franchisor to support its signage-focused business that continues to prolifically open new franchises across the UK.

move enables the UK franchise corporate support team to provide enhanced capabilities to our 23 franchisees located across the UK. We are excited for our support operation to be located in Stafford. The central location within the UK and the office's proximity to motorway and rail links will be a real benefit to our network.

Stafford is also an area that has and is continuing to benefit from investment and with Stafford serving as an important junction on the first phase of the HS2, we expect an influx of activity and regeneration in the area".

www.fastsigns.co.uk

Signage project nominated for British Sign Awards

HNS Signs was shortlisted for last year's ISA British Sign Awards which recognise and reward outstanding work completed by UK-based sign makers. The company transformed FESPA's atrium and other areas at their head office in Dorking. The project was challenging since HNS had to portray its far-ranging disciplines including textiles printers, garment decorators, POS

printers, screen-print, signage companies and industrial printers.

Highlights included creating built-up stainless-steel letters for the logo at the entrance using FESPA's colours in the relief and making individual mobile sculptures where there were restrictions to the application of graphics to the glass

facades. To reflect the global nature of the body, HNS designed and printed a wallpaper where all the member countries could be listed and since depth had been a motif throughout, the company chose to make them appear cut-out.

"It's fantastic to have had our work that we did for one printing and graphics body to be recognised by another that operates in a similar visual branding space", says managing director Michelle Henry. "It shows a really non-partisan approach to acknowledging exemplary work wherever it's executed and we applaud the ISA's inclusive approach."

The British Sign Awards has become an important forum that showcases for UK creative talent, technological skills, engineering abilities and craftsmanship that contribute to making UK sign making the envy of the world. Following the affiliation of the BSGA (formerly the British Sign and Graphics Association) with the USA-based International Sign Association (ISA) the Awards in 2019 were organised by ISA-UK.

www.hnssigns.co.uk





XYZ assists future growth for customers

The latest open house day event organised by XYZ Automation Group attracted a large number of existing and potential new customers from a wide cross-section of industry including the sign manufacturing sector.

Visitors were able to evaluate the new Infinite CNC router and the latest A-0612 addition to the XYZ waterjet cutting machine range.

Senior XYZ management personnel and technical application specialists explained the capabilities of both machines and how they could help future business growth and greater market diversification for customers. The XYZ Infinite multi-purpose CNC router is based on previous machines in terms of outstanding build quality, reliability and increased productivity. With a fresh design concept and standard and optional machine enhancements, it can be supplied with the latest VCarve Pro and/or Aspire design



Senior XYZ management personnel and technical application specialists explained the capabilities of both machines and how they could help future growth.

and production software to enable 2D and more complex 3D routing/cutting applications. The A-0612 waterjet cutting machine is a smaller version of the larger X-Series, offering similar performance

capabilities at a lower cost to meet a market requirement for which hitherto there were limited options

www.xyz.co.uk

Astley celebrates decade of growth

Astley celebrated a decade of growth in its custom-built Gateshead headquarters in November 2019. The company's workforce spans the UK with three sites including a creative facility in Kettering, Northamptonshire, where a further 36 staff are based. Designing, manufacturing and installing brand graphics for household

names including Sainsbury's, BP, The Co-operative, Esso, CRUK, Sky and Hilton; Astley has taken on several young people as apprentices in production, design and marketing.

Commercial director Gavin Redhead says: "When we moved into our facility it was

with a clear strategic ambition – to grow and establish Astley as a leading manufacturer within the signage industry. As we reflect on the decade since our relocation, there's no doubt we've achieved that. We're proud to say our workforce has increased by around 30% at this site, which includes the recruitment of apprentices who we've been able to support with bespoke training and we've expanded our footprint geographically with sites in Glasgow, Leeds and Northampton. It's worthwhile looking back over this past decade and evaluating how much the company has developed, thanks to the superb staff who work across all of our sites."

Astley, whose three company directors celebrate 30 years since a management buyout last year, has enjoyed highlights including securing the ISO 14001 accreditation, which now sits alongside the ISO 9001 and BS EN 1090 standards. Being awarded the CE Marking and BS EN 1090 Marking for Structural Steel stamp of excellence makes the manufacturer one of the first within the signage industry to be awarded the industry certificate and reassured clients that their brands are in safe hands.

www.astley-uk.com



Astley's workforce has increased by around 30% at this site, which includes the recruitment of apprentices.

Suppliers take green credentials seriously

Canon's flexible UVgel 460 ink launched with the Colorado 1650 roll-to-roll printer in May 2019 has achieved the highest level of UL GREENGUARD Gold certification from UL Environment, a leading safety and certification company.

This accreditation confirms that prints from the printer meet the world's most stringent standards for low volatile organic compounds (VOC) emissions without restrictions. As such, applications printed with Canon UVgel 460 ink are "perfectly safe for use in indoor spaces such as schools and healthcare facilities" where people, particularly children and sensitive adults, spend extended periods of time.

The Canon UVgel 356 ink for the Colorado 1640 model achieved the GREENGUARD Gold accreditation in 2017 so both products now have the same independent endorsements for environmental performance. UVgel technology carries trusted certifications from AgBB, ASTM Type II, Certificat A+ and Centexbel.

Michele Tuscano, vice president, large format graphics, Canon EMEA, comments: "With this new certification our customers and partners can confidently promote the Colorado 1650's capabilities, knowing that the prints are safe for all indoor spaces."

www.canon.co.uk



Canon UVgel 460 ink has achieved the highest level of GREENGUARD Gold certification.

Mutoh has obtained GREENGUARD Gold Certification for its MS41 Eco Solvent inks. The certification was obtained for the top category Wallpaper, allowing the highest surface load of prints per classroom, office or healthcare environment.

With this certification, Mutoh MS41 inks meet the UL 2818-2013 Gold Standard for chemical emissions for building materials, finishes and furnishings. The certification provides assurance that Mutoh MS41 inks

meet some of the world's most stringent and comprehensive standards for low emissions of volatile organic compounds (VOCs) into indoor air. As such, prints made with MS41 inks are "perfectly suited for indoor applications including office, classroom and healthcare environments".

GREENGUARD Gold Certification is a voluntary certification issued by UL with worldwide recognition offering stricter criteria; it helps print buyers to identify and integrate certified, healthier and more sustainable products into their buildings.

"We are very pleased to receive a GREENGUARD Gold certification for our MS41 inks for the XpertJet 64" wide sign and display printers," says managing director Kenji Yasuhara. "The certification demonstrates Mutoh's continuous commitment in offering digital printers and inks which are safe and environmentally responsible and which contribute to healthier indoor environments."

www.mutoh.eu



Mutoh has obtained GREENGUARD Gold Certification for its MS41 Eco Solvent inks.

swissQprint's current range of UV inkjet inks is Greenguard and Greenguard Gold certified. Printed products made with them are therefore safe for use in areas such as schools and hospitals.

swissQprint offers various ink sets for its large format UV printers, depending on the application. All the current swissQprint standard inks are now both Greenguard and Greenguard Gold certified.

This widens the scope for users, with printed products that are safe for use in critical environments.

This is a potential competitive advantage for digital print providers in addition to the inherent versatility of the Swiss precision printers, which are efficient and low maintenance with long service lifetimes that "guarantee high profitability".

Greenguard certification essentially ensures that products for indoor use comply with strict upper limits to chemical emissions for a healthier room atmosphere. Greenguard Gold sets even stricter certification criteria with added emphasis on the safety of at-risk groups such as children and the elderly.

This ensures products that are suitable for use in places such as schools and healthcare facilities. Both the Collaborative for High Performance Schools (CHPS) and the Leadership in Energy and Environmental Design building rating system (LEED) reference the Greenguard programme.

www.swissprint.com



Global competition showcases artwork created with CorelDRAW

Corel has announced the winners of the 2019 CorelDRAW International Design Contest. Reflecting the range of design projects users create every day, the contest celebrates the talent, skill, and techniques of CorelDRAW designers worldwide. Winning designs were selected from countless stunning submissions created in CorelDRAW Graphics Suite 2019 or CorelDRAW Technical Suite 2019. Rogelio Hernandez (Roy Monster) was named as the grand prize winner for his illustration 'Angel of Fire.'

"On behalf of the entire Corel team, I'd like to congratulate our winners and thank everyone who participated in the contest," says John Falsetto, senior director of products, CorelDRAW & productivity. "We were truly inspired by this year's outstanding entries and selecting the winners certainly wasn't easy. This contest has once again given us a global platform to shine a spotlight on our users' incredible talents."

The 2019 CorelDRAW International Design Contest recognises work created with CorelDRAW, Corel DESIGNER, and Corel PHOTO-PAINT across a range of industries and design disciplines. Winners are as follows:



Art by Rogelio Hernandez (Roy Monster), Mexico.

Grand prize winner & first place for Graphics and illustration: Rogelio Hernandez (Roy Monster), Mexico.
Branding and marketing: Irfan Taufik, Indonesia.

Signage and vehicle wraps: Joseph Diaz, United States.

Apparel and textiles: Marthin Anthony Millado, Philippines.

Student: Ahmad Zahratuffiq, Indonesia.

Technical drawing and design: Rogelio Hernandez (Roy Monster), Mexico.
Speed drawing video: Rogelio Hernandez (Roy Monster), Mexico.

Visit the website to view all winning entries and for more information about the 2019 CorelDRAW International Design Contest.

www.coreldraw.com/design-contest

Wrapping up outdoor installations in winter

Dennis Leblanc, Drytac's territory manager for Eastern Canada and the Greater Toronto Area, has something to say about wrapping up for winter:

"It's that time of year again: here in the northern hemisphere the leaves have fallen from the trees and temperatures are dropping. While many of us would like to stay indoors with a warm drink, work goes on and that means installing graphics in cold conditions.

"It's important to keep in mind install temperatures when applying graphics outdoors in order to avoid failures.

Typical install temperatures for pressure-sensitive materials rate at 5°C (41°F) but it's essential that your chosen media and its adhesive can handle temperatures far below that. Drytac has several solutions that are cold weather install rated down to



-20°C (-4°F) including the Polar range. This comprises a full selection of media for almost any graphics project need.

"Polar Transit is even used for NHL rink board advertising across the US and

Canada, demonstrating its durability in low temperatures during ice hockey games just as much as for bus graphics. However, as much as winter may seem to drag on, it's crucial to bear in mind the highest temperatures your graphics may have to endure.

Drytac has tested its Polar products for warm weather performance including an unofficial experiment carried out on Polar Chrome by Jerry Hill, vice president of business development. In 2019 he rode from Richmond VA to Las Vegas NV on a motorcycle adorned with specially printed decals on this new reflective film in temperatures of -2°C (28.5°F) and 44°C (112°F) and all survived. The success of an application project lies in the ideal combination of film, laminate if necessary and adhesive.

www.drytac.com

Three-year warranty on wide format Mimaki Plus models for limited period

Hybrid Services has announced a 3-year Gold warranty on Mimaki's super-fast, wide format JV300-160plus solvent printer and CJV300-160plus integrated printer/cutter for a limited period. Cover includes unlimited parts and print heads, giving a substantial saving. Available at 1.6m wide, both the CJV300plus and JV300plus feature the latest Mimaki core technologies including MAPS4 to ensure seamless functionality and consistently high quality prints.

"The Mimaki JV300plus printer and CJV300plus printer/cutter have received tremendous interest since their launch at The Print Show," comments chief operations manager Brett Newman. "High print speeds and low running costs, now with the further incentive of 3-year Gold Warranty cover, means this is a great opportunity to invest in Mimaki's award-winning technology with all the added benefits of the new Plus models to increase productivity."

Further new features include "dramatically reduced running costs" with the introduction of 600ml ink bags that are simply placed within a reusable eco cartridge, which will significantly reduce waste. The Mimaki CJV300plus Series



Hybrid Services has announced a 3-year Gold warranty on Mimaki's JV300-160plus solvent printer and CJV300-160plus integrated printer/cutter for a limited period.

printer/cutter features a new ID Cut function to make printing and cutting easier and faster, increasing productivity. The Mimaki JV300-160plus and CJV300-160plus are available for demonstration at

Hybrid's Cheshire showroom and at their Authorised Reseller Partners' premises across the UK and Ireland.

www.hybridservices.co.uk

Dedicated UK facility speeds delivery times

Esko has opened a new UK warehouse to bring faster direct shipping to its customers at reduced prices. The facility at Solihull's Rhodium Blythe Valley Park is dedicated to the company's UK customer base, housing consumables for online

sales, parts, engineers and servicing for Esko's Kongsberg digital finishing tables and CDI platemaking machines. As well as ensuring a consistent service across the country, the move will see the introduction of faster delivery and free delivery.

"This significant move has been months in the planning and we're all thrilled to have been able to complete the set-up and get all the systems live in such good time," says Varun Mehta, e-commerce business development manager. "This is a 24/7 facility to support our UK customers and improve access to our experts."

"Customers can now place their orders through the online store and receive parts either next or same day, with free shipping through our voucher scheme."

"While having a fully-stocked warehouse in the UK has allowed us to speed-up shipping times, it has also enabled us to reduce our prices on consumables. The new facility assures quality and consistency of service, with faster and free shipping at reduced prices."

www.esko.com





isGroup wins BSA Construction Award

isGroup received The Construction Award at the 2019 Annual British Sign Awards for IM Group's regional HQ External Signage. The company was awarded a further three certificates of merit and shortlisted for the Sign of the Year for the IM Group project. This project made the final four for the Sign of the Year Award and was highly commended in the Craftsmanship category. Hatton Garden was highly commended in the Craftsmanship and Architectural categories. isGroup worked with design consultants f.r.a. on Metquarter which won Wayfinding Sign of the Year.

The IM Group signage scheme used a variety of materials and techniques. The cast iron logo was cast from black sand casting in one piece and weighed in at circa 450 kilos meaning it required a bespoke frame for health and safety handling. The logo had to be held rigid in the frame while the casting was transported and while Halo Sloan LED lights were fitted to a recess in the rear of the casting to provide illumination. isGroup designed the frame to ensure further uses in the installation phase which allowed for



the logo to be suspended by a crane while fixing to the huge precast concrete panels during installation and removed when mounted thus reducing the risk of problems at installation. Following a major refurbishment of the former Victorian Post Office sitting within Liverpool's main retail district Met Quarter delivers classic

wayfinding in stylish modern finishes in keeping with the sophisticated luxury shopping centre. f.r.a.'s wayfinding and signage scheme used two contrasting materials to reflect the two-sided nature of the building.

www.is-group.co.uk

OKI Europe celebrates 30 years of LED technology

Three decades on from the release of its first LED printers, OKI Europe is celebrating its history as a founder and champion of LED printer technology, which it continues to refine and use in its award-winning devices.

From easy maintenance to superior speed, accuracy, unrivalled media handling



OKI Europe is celebrating its history as a founder and champion of LED printer technology, which it continues to refine.

capabilities and print quality, OKI Europe is passionate about the benefits its LED printer technology delivers. As part of its 30-year celebration of LED innovation, OKI is inviting its customers and partners to share their experiences with OKI's LED technology through a series of fun customer-generated videos.

In addition, the company is challenging customers to test the accuracy and precision of OKI LED printers and multifunction printers (MFPs) by printing Daniel Defoe's Robinson Crusoe on a single-page PDF and viewing the printout with a magnifying glass to see just how clear the tiny text appears.

"At OKI Europe, we are incredibly proud of our heritage in LED and pioneering use of it as a printer technology," says Pamela Ghosal, general manager marketing communications EMEA.

"Over the past three decades we have championed LED over alternative printer technologies. It has been used in millions of OKI products and remains an important part of our pipeline of product innovation."

Today, OKI is building on the benefits of LED technology, particularly the unrivalled media handling capabilities which can help businesses print more in-house without having to rely on lengthy and costly print processes. From shelf signage including price-tags, labels and almost any pre-cut media formats to self-adhesive floor stickers, eye-catching posters, promotional displays, gondolas, double-sided banners, and waterproof media application, all this and more can be done using OKI's compact LED devices.

"OKI Europe strongly believes in the incredible capabilities of LED printing and the many advantages it offers compared to laser printing," says Lee Webster, general manager, product and propositions.

"Looking to the future, we will continue to improve, develop and pioneer LED as part of our ongoing drive to deliver choice, reliability and superior quality on an unrivalled range of media for our customers in the office and beyond."

www.okieurope.com/LED

IPIA offers benefits to non-trade businesses

The IPIA has created a Lite membership category which opens a key segment of the trade association's benefits up to a much wider spectrum of the commercial print industry. Originally formed to represent the interests of, and support the relationship between print management and trade printers, the IPIA has recognised changes in the industry and evolved its activity accordingly. In order to remain current, the decision was taken to develop a new membership category which opens a specific tailored suite of benefits to companies that do not offer trade services.

General manager Brendan Perring comments: "Allowing non-trade companies to join us opens a core of our benefits up to so many more businesses that have never been part of an association the ability to engage and understand the immense value being part of such a network can bring. The Association is fiercely committed to supporting its membership and championing the print industry and print out to the wider market."

"This activity is as relevant to a printer serving local businesses as it is to the trade suppliers who may offer that company an outsourcing service."



Businesses joining under the Lite membership category pay just £25 + VAT per month for access to services including a legal helpline and support, credit checking and debt recovery and discounted rates on the IPIA's training portfolio and its events.

"The industry has changed dramatically and it is our job to respect and keep up with them," says Brendan. "Our rebrand in 2019 gave us the opportunity to look at our core objectives and develop a strategy."

www.ipia.org.uk

Victory Design adds Ritrama vinyls to portfolio

Victory Design has added two Ritrama vinyl ranges to its portfolio of products for the sign making, digital printing and garment marking industries. Customers looking for quality sign vinyl at highly

competitive prices now have more choice than ever before, says the company, offering quality, durability and conformability and keenly priced. Victory Design constantly looks for ways to

enhance and enrich their customer's experience and choice of quality product is at the forefront of their business ethos. With sign making products at their core, adding Ritrama vinyl ranges was the natural choice when looking to further broaden their portfolio. In such a competitive market, helping to increase their customer's margins was a concern and the keen pricing that Ritrama vinyl allows enables them to do that.

Sales director Justin Hines explains: "We're ecstatic about the addition of Ritrama vinyl to our company product ranges. The L100 and Premium vinyls offer our customers quality products at price points that make them a sustainable choice for their business. The fact that Ritrama has a manufacturing plant in the UK was a huge positive for Victory Design, making it quicker and easier for us to keep stock at levels to suit demand and we were keen to do more business in the UK."

www.victorydesign.co.uk



With sign making products at their core, adding Ritrama vinyl ranges was the natural choice when looking to further broaden their portfolio.



Spandex appointed exclusive distributor for STEK automotive light protection films

Spandex has been appointed the exclusive distributor of STEK paint protection and light protection films in the UK, extending its extensive portfolio of vehicle wrapping films. Targeted primarily at specialist vehicle wrappers, STEK's DYN0 range of paint protection and light protection films are designed for easy application while delivering a premium level of protection to the underlying paintwork against chips and abrasion from environmental contaminants.

Unlike conventional paint protection films, the DYN0 range gives wrappers a choice of products with specific performance characteristics. For example, the hydrophobic film incorporates a coating that repels water and mud, while the anti-acid film protects against daily 'acids' such as rain and insects.

The self-healing film is coated to naturally close up small surface abrasions. Further products offer carbon fibre and 'metallic' finishes for added aesthetic value. STEK films do not require aftercare products including car wax and polish.



The hydrophobic film incorporates a coating that repels water and mud, while the anti-acid film protects against daily 'acids' such as rain and insects.

General manager Leon Watson says: "Paint protection is a rapidly growing business for many technical vehicle wrappers but demands high performance products to meet customer expectations. Combining best-in-class clarity and durability, the DYN0 range is one of the

most advanced products of its kind so we're proud to be the exclusive supplier. We look forward to supplying training and support to our wrap customers who are keen to expand their services."

www.spandex.com

Signs Express wins industry innovation award

Signs Express (Central Lancashire) won a top prize at the ISA UK British Sign Awards 2019 which celebrated sign businesses from across the UK and their contributions

to the industry. The team were winners of The Innovation Award following their work at White Bull Mews which was completed in July 2019.

When one of the two fiberglass bull figurines were stolen from outside the historic pub, Signs Express (Central Lancashire) used "cutting edge" techniques including 3D scanning and printing to create new ones.

By using the innovative technology, the team improved the accuracy of the model and were able to complete the project in just four weeks. Alongside the creation of the bulls, the exterior signs were fully refurbished with the existing worn and rusted elements replaced.

Ben Hall, centre owner as Signs Express (Central Lancashire) says: "Getting recognition at national industry awards is such a huge achievement for us.

"Our top priority is providing innovative and quality signage that helps local businesses and the community; we're very proud of the team and what they have achieved."

www.signsexpress.co.uk



Alongside the creation of the bulls, the exterior signs were fully refurbished with the existing worn and rusted elements replaced

Upgrade programme for TrueVIS VG owners in EMEA region

Roland DG has launched its TrueVIS VG Upgrade Programme in EMEA. It is offering current owners of VG-640 and VG-540 wide format printer/cutters the opportunity to enjoy many of the latest, most advanced functions of the VG2 series on their current devices, via a simple conversion process.

The upgrade enables TrueVIS VG owners to make their printer/cutters compatible with the latest TR2 inks, the latest version of VersaWorks 6 RIP software, enhanced print and cut functionalities, additional firmware upgrades and a hardware option which together deliver "enhanced productivity and efficiency".

By converting their current devices, VG owners will gain access to VG2 advantages including GREENGUARD Gold-certified TR2 ink compatibility, with the ability to laminate and then "immediately finish prints in just six hours for true same day installation".

TR2 ink is certified for long-lasting results by the 3M MCS Warranty. The VG series with TR2 ink has earned the Avery Dennison ICS Performance Guarantee certification which provides "outdoor durability protection for up to four years and indoor durability protection for up to seven". VG owners who convert their devices to TR2 ink will enjoy "impressive ink savings of up to 20% and find the ink delivers outstanding results in demanding situations where adhesion and rub resistance are crucial.

With up to 200% stretch, TR2 ink is suitable for applications such as vehicle wraps and offers "excellent wash resistance for customised apparel. The



Roland is offering VG owners the opportunity to enjoy many of the latest, most advanced functions of the VG2 series on their current devices.

richness and colour accuracy of their prints will reach even higher levels, thanks to the combination of TR2 inks and the True Rich Color colour management preset."

In addition, VG owners will enjoy features that optimise print and cut accuracy and usability plus streamlined sequences to help speed up production. Compatibility

"This is a great opportunity for current VG owners to quickly and easily boost the performance of their existing printer/cutters with many of the latest VG2 innovations"

with the advanced Roland DG Mobile Panel 2 app allows operators to "perform even more functions from a smartphone or tablet, giving them greater flexibility and freedom". After conversion, VG devices will be compatible with the TUC-4 optional media take-up system which supports two modes for improved take-up accuracy.

Paul Willems, head of business development and product management, comments: "This is a great opportunity for current VG owners to quickly and easily boost the performance of their existing printer/cutters with many of the latest VG2 innovations, helping to give them the competitive edge and provide the very best service for their customers. The latest VG2 series is bringing great advantages to our customers so we are delighted to offer VG users the opportunity to upgrade to so many of its exceptional functions."

www.rolanddg.co.uk



Sandra McAuley

Indasaol increases tech support

Sandra McAuley has joined the Indasol Group as technical sales for Scotland, bringing a wealth of experience in the sign industry where she started her career supplying consumable sign makers' products from leading manufacturers.

"We see Sandra as a key member of the Indasol family, offering our high performance sign makers products and technical support to our customers in Scotland," comments sales director Paul

Robinson. "Sandra has the relevant experience and knowledge to promote and support the brand perfectly."

Sandra says she is pleased to join Indasol and "while having represented their products in my former role, I feel I am now in a position to develop the brand and help support both existing and new customers in Scotland.

www.indasol.co.uk



Contribute, don't criticise, says outgoing chair of ISA-UK technical committee

As he prepared to retire at the end of December 2019, Mike Hall, chair of the ISA-UK technical committee and member of the ISA-UK council, urged more sign professionals to get involved.

"In many ways, I'm sad to be stepping down because this is such an exciting time for the sign and graphics industry," said Mike. "Since partnering with the International Sign Association to become ISA-UK, the British Sign & Graphics Association has gained a new lease of life and the relationship has the potential to make our Association more powerful and productive than ever before."

Mike graduated from university with a degree in chemistry and worked as an industrial chemist for a few years, joining PJ Mason in 1984 as a physicist.

"The company, which later became MasonLite, manufactured raw materials for neon signs and cold cathode lighting and because of the technical nature of the industry, was looking for a scientist rather than an engineer," explains Mike. "I helped them develop neon technology until 2006, traveling all over the world to meet with professional colleagues."

Mike then launched his own business, providing consultancy services to the neon sector and more recently, the general sign industry.

"Travelling to countries such as China has been a real privilege and very educational," says Mike. "The Chinese scientists and engineers I worked with have a genuine excitement for the work they do and the technology they are developing, which is extremely refreshing."



Mike Hall urges all sign companies and suppliers to find out more about ISA-UK and how they can engage, share their expertise and have a say in the future of the industry.

Mike first became involved with the British Sign & Graphics Association (now ISA-UK) in the early 1990s, with his technical skills and experience making him a huge asset to the technical committee and wider council. He represents ISA-UK on a technical level in the European Sign Federation (ESF) council and its relevant standards committees.

"The Association has always supported and challenged the UK sign and graphics industry but over the past year, under its new name of ISA-UK and with renewed vigour, I've seen it become braver and more ambitious," continues Mike. "Everything the organisation does is about reinforcing the need for quality, professionalism and standards within our sector and helping members to be the best

they can. It is currently working on a new British Standard (BS559) for the manufacture of signage and with the ESF on European Standards.

"Sadly, there are still too many people working within our industry who are quick to criticise but slow to get involved and influence real change. While definitely moving forward and setting higher benchmarks, the industry still needs pulling up by its bootstraps in order to really excel, raise standards and become a truly authoritative and trusted voice. I urge all sign companies and suppliers to find out more about ISA-UK and how they can engage, share their expertise and have a say in the future of the industry."

www.uksigns.org

PFI Group acquires acrylic display specialist

Manchester based PFI Group has acquired Mardan Products of Rochdale, specialists in the design and manufacture of bespoke acrylic displays and fabrication; and acrylic point of sale and product display systems utilising all the latest cutting edge thermoforming plastics.

PFI Group now comprises PFI Signs, GB Sign Solutions, Sign Plus (including HT Screenprint), Lofthus Signs, In2 Signs & Graphics, Shades Graphics and Mardan

Products. PFI says further acquisitions are planned in line with its current growth strategy.

Group CEO Darren McMurray says: "The



PFI Group are delighted to welcome Mardan Products and its employees. The acquisition of Mardan Products complements the Group's specialist manufacturing capabilities, strengthening our leadership position in the UK print and signage marketplace with the ability to provide a truly nationwide full-service sign, graphics and display offering."

www.pfisignsolutions.co.uk

British Sign Awards celebrates industry achievements and innovation

Last November the UK sign and graphics community came together to celebrate the outstanding achievements of the industry over the preceding 12 months. Joint headline sponsors for the event were Make It Happen, SignFab (UK) and FirstLiteLED.

David Catanach, director of ISA-UK (formerly known as the British Sign & Graphics Association) said: "The 2019 ISA-UK British Sign Awards received more entries than in any other year and almost 400 people attended the glittering gala event, which was hosted by actor, comedian and TV presenter Shaun Williamson.

"However, the real stars of the event were our award-winners and shortlisted companies. We had a host of inspiring entries, all demonstrating the outstanding technical skills, innovation and creativity that make the UK sign industry world class."

The judging procedure for the awards is rigorous, with the identities of entrants carefully redacted so that judges are unaware of the entrant's name until a decision has been reached. Working to strict criteria, each judge awards up to 10 marks to each submission and the outcome isn't known until the scores are added up.

"We are fortunate to have a fantastic range of expert judges who give their time for free to support us with the awards," says David. "The scoring was very close; in one category only half a point stood between the winner and runner up. The judging revealed some fabulous winners, representing the full spectrum of the industry."

The prestigious award for Sign of the Year was won by Goodwin and Goodwin for their work at Dorset House, an art deco building in London.



The winning project included the primary building sign plus a curved and stepped canopy in polished stainless steel.



Last November the UK sign and graphics community came together to celebrate the outstanding achievements of the industry over the preceding 12 months.

The winning project included the primary building sign plus a curved and stepped canopy in polished stainless steel and stainless steel and glass door surrounds, all intricately produced in the art deco style.

The trophy was presented by Mike Smith, operations director at SignFab (UK) on behalf of joint corporate sponsors SignFab, Make it Happen and FirstliteLED. Shortlisted projects in the category were IM External Signage by isGroup, One Bartholomew by Signbox and McDonalds by Butterfield Signs.

Winner of the Young Signmaker award sponsored by Antalis was Daniel Garrett of Graffiti Design International; Ethan Davies from Elite Signs and Kieran Wealleans from Interplan Sign Systems were shortlisted.

Winners by category

Retail Sign of the Year (sponsored by shopVOX): Butterfield Signs for McDonalds.
Illuminated Sign of the Year (sponsored by SloanLED): Signbox for One Bartholomew.
Vehicle Graphics Award (sponsored by Pyramid Display Materials): Print Sauce for Sam's Van.
Architectural Sign of the Year (sponsored by Righton Blackburns): Goodwin and Goodwin for Dorset House.
Craftsman Award (sponsored by Trade Etching Direct): Morgan Signs and Design for Restaurant Narrowboat.
Leisure Sector Award (sponsored by RMC Digital): Castleton Signs for Hop Vietnamese.
Innovation Award (sponsored by Nationwide Platforms): Signs Express (Central Lancs) for White Bull Mews.
Décor Award (sponsored by Drytac Adhesives): Sign of the Times for Telford Mann.
Wayfinding Scheme of the Year (sponsored by The Sign Show and supported by The Sign Design Society): f.r.a. for Metquarter, Liverpool.
Roll-out Award (sponsored by VISM): Beyond Signage for Applegreen.
Construction Award (sponsored by Eurobond Adhesives): isGroup for IM Group External Signage.
Wide Format Project of the Year (sponsored by Epson): Lavastar Signs for Tenerife Pearl.
Product of the Year (sponsored by Sign Directions Online): Silver Bullet Large Format Pro Primer (developed in association with Digital Tyger). Full listings online.

www.britishsignawards.org

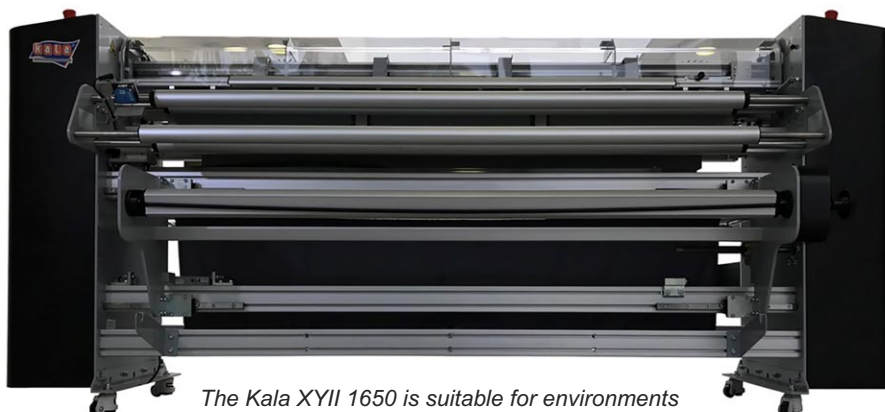


Graphtec stocks Kala automatic media trimming machine

Following its appointment as an authorised UK and Ireland distributor for print finishing solutions specialist Kala, Graphtec GB is now stocking and supplying the latest Kala XYII 1650 automatic media trimming machine. It will supplement and support the range of digital cutters developed by Graphtec for the sign and graphics, digital printing and finishing and print wear and promotional products sectors.

At 262cm wide, 120cm high and 73cm deep, the Kala XYII 1650 is suitable for production environments where space availability and cost-effectiveness are prime considerations.

Key performance-enhancing features include a working width capability of 165cm, operating speeds of up to 18 metres/minute and an LCD intuitive touchscreen control panel. The trimmer is supplied as standard with an aluminium feeding shaft used on Kala's laminating systems, providing the same seamless



The Kala XYII 1650 is suitable for environments where space and cost-effectiveness are important.

and "hassle-free" integration. It operates directly from the LCD control panel to provide a wide choice of trimming modes without needing to connect to a computer and with the ability to read pre-programmed media registration marks created in most popular RIP software.

The Kala XYII 1650 will handle a range of materials in a maximum thickness of one millimetre including paper (photo and encapsulated variants), vinyl, laminates, thermal films and banner-grade media.

www.graphtecgb.co.uk

Epson reaffirms commitment to sustainable development goals

Epson reaffirmed its commitment to decarbonisation (reducing greenhouse gas emissions) in advance of the 25th Conference of the Parties to the United Nations Framework Convention on Climate Change (COP25) held in December 2019. The company believes that its innovations can play a major role in achieving the Sustainable Development Goals (SDGs) of the UN.

Global president Minoru Usui comments: "Political and economic uncertainties are increasing and the world is facing challenging times. I strongly believe that Epson's role is to help achieve global sustainability and to make the world a better place.

"In addition to our eco-conscious products and heat-free inkjet technology, we are combating climate change by reducing greenhouse gas emissions in production and across our value chain to help drive a transformation toward a decarbonised future. Climate change is a serious issue facing our planet and Epson is doing its

utmost to address this issue. We have set targets for reducing GHG emissions in our own business activities and across the value chain to achieve the Paris agreement. These have been approved by the Science Based Targets initiative (SBTi)



Henning Ohlsson says we all must commit, encourage others; lead change by example and drive climate action.

as being consistent with climate change science. I am happy to report that Epson is well on its way to achieving these targets."

Henning Ohlsson, director of CSR, Epson Europe, adds: "It is no longer responsible or acceptable to wait and see or treat climate change as a normal issue. We all must commit, encourage others, friends and families; lead change by example and drive climate action, in business as well as in private life."

Epson set targets for reducing, by 2025, its scope 1 and scope 2 greenhouse gas (GHG) emissions by 19% compared to FY2017. In the 2018 fiscal year ended March 2019, Epson made strides toward achieving the target with a 15% reduction in its GHG emissions.

Going forward, the company plans to achieve its target through energy-saving initiatives focused primarily on production innovations and the use of renewable electricity.

www.epson.eu

New year, new products, more choice

What can we look forward to this year? Brett Newman, chief operations manager at Hybrid, Mimaki's exclusive distributor for the UK and Ireland is excited about offering the manufacturer's ever extending range of solutions designed to help signmakers to be both productive and profitable.

We're excited about the new year and new decade at Hybrid. Mimaki has an enviable reputation for innovation and we expect this year to be no different to previous ones where new products come to market, extending the substantial range and offering exciting, more efficient solutions for signmakers across the world.

'Choice' is going to be a real buzzword for Hybrid and Mimaki in 2020. The current line-up offers an unrivalled choice of hardware, inks and processes which all enable signmakers to offer their customers a choice of products. With that comes more opportunity to retain business, attract new customers and make more profit.

We talk a lot about creating opportunity to diversify and that remains a central message: the ability to offer new products brings excitement, within the business and among customers. Whether that be a new application you're able to create with your existing equipment or ideas that come about on the back of new investment in hardware, the end result can be the same: an engaged and invigorated customer base, keen to put your services to the test with more business.

With the raft of new products that Mimaki launched throughout 2019, we're building 2020 up to be a year where the sign making industry can now really offer an incredible breadth of output. Products such as the UCJV Series of LED UV printer/



Mimaki printers enable companies to expand into many different new areas such as décor and textile printing.

cutters deliver new and creative print techniques such as the ability to include a clear ink on self-adhesive decals and Mimaki's latest grand format printer, the SWJ-320EA, massively reduces the barriers to entry for high quality, competitively priced 3m+ banner printing.

If you're printing self-adhesive stickers for a client's promotional use, could you supply their event branding, banners and signage? Are you responsible for the livery on a fleet of vehicles? If so, could the company benefit from décor, floor graphics or garment decoration? The opportunities are huge and sometimes just require a little investigation. Equally, investment in new and more diverse hardware can extend the choice of solutions you can offer your customers.

Adding in this sort of extra capability can help boost product ranges and provide more opportunities for sign making businesses to expand their offering. Getting the most from your printing and cutting hardware is always going to be crucial so whether looking at what you currently have or if you're planning to invest in new, we suggest standing back

and asking: what else can I do with it? and see where it takes you.

In addition, we're seeing an ongoing drive to increase more sustainable offerings. Mimaki's JV300 Plus and CJV300 Plus printers and integrated printer/cutters incorporate reusable Eco cases that contain the larger 600ml ink sacks, reducing packaging and minimising plastic usage. Mimaki has introduced further technologies that assist in reducing waste such as its proprietary new ID Cut function found on the UCJV300 and Plus series models. A bar code that includes cutting and rotational data is incorporated within the print data that ensures that when the file is cut, it's correctly orientated to the digital file, reducing the potential impact on waste ink, material and time.

This focus on innovation results in productivity, sustainability and diversification opportunities for signmakers to reap the benefits, enhancing their business with new ideas, better and more environmentally aware products and improved workflows.

www.hybridservices.co.uk



*Hybrid's chief operations manager
Brett Newman.*

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Job Vacancies

Graphic Designer/Digital Print Operator Wigan, Greater Manchester

We are looking to recruit an experienced, organised and committed graphic designer. The candidate must be able to organize workflow and be adaptable to the ever changing demands of customers and work schedules

Proven experience with Adobe Illustrator is a necessity.

Excellent communication skills with fluent written and spoken English is a must. Past experience of using Mimaki printers and vinyl plotters is a necessity for this role.

A knowledge of sign making, graphic fitting and different media types would prove a distinct advantage.

Hours are Monday-Friday 8am – 5pm, with the position based at our Wigan branch office. Salary dependent on experience.

Email your CV, in confidence, to info@ukinsignia.co.uk for further details.



Business Development Manager

Signs, Screens and Print are a Signs, Designs, Print and Graphics company based in Bolton offering a wide range of bespoke solutions, from Traditional Signage and Vinyl Graphics through to Digital Screens.

We are looking for a Business Development Manager to join our growing business.

The ideal candidate will have good all-round sign & print experience in a fast-paced, customer-orientated environment and strong management/supervisory experience.

Experience of Signlab, Graphic Design (Adobe Suite inc Illustrator & Photoshop), CMS or Digital Signage is advantageous, but not essential as training will be provided.

This is an amazing opportunity to join and manage a dynamic team, where no two days will be the same. As a flexible and multi-skilled Signs & Graphics Installer, you will have a keen eye for detail where one day you'll be Designing and Weeding, the next installing Vehicle Graphics or Digital Signage Screens.

Based in Bolton, the role will be mainly local with some UK wide travel and occasional out of hours /overnight work.

Competitive Salary (subject to experience), bonus, overtime and excellent career progression opportunities.

General areas of responsibility include:

- Maintaining relationships with suppliers
- Generating new and repeat business opportunities and promoting brand awareness
- On-site installation
- Providing creative technical input into quotes
- Coach and mentor team members
- Managing the team and making sure they hit their KPIs
- Championing best practice & continuous improvement
- Reporting to the Director

The individual must:

- Have a proven background in industrial signage
- Have strong communication skills, both written and verbal
- Be articulate and well presented
- Possess strong leadership skills and have managerial/supervisory experience
- Hold a full driving licence
- Be extremely driven to succeed

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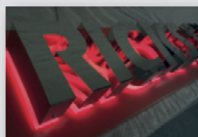
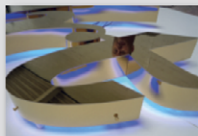
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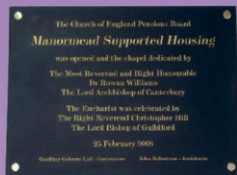


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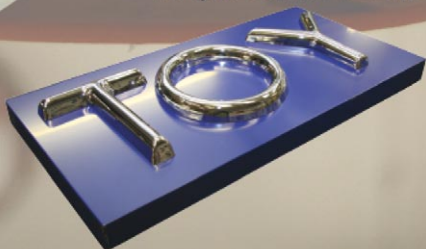
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WATERJET SIGNS LTD

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

Tel: 01843 225666

waterjetsigns@btconnect.com

www.waterjetsigns.co.uk

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

CABLE DISPLAY SYSTEMS

E-SIGNFITTINGS HOBDAI LTD

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

Tel: 0121 608 4431

sales@e-signfittings.co.uk

www.e-signfittings.co.uk

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

ISPI TRADE LTD

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

Tel: 0141 764 1600

sales@ispitrade.com

www.ispitrade.com

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

SHOPKIT GROUP LTD

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

Tel: 01923 818282

www.shopkit.com/brochures/

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

CAST SIGNS

SIGNS OF THE TIMES LTD

Wingfield Road Tebworth, Beds,
LU7 9QG

Tel: 01525 874 185

enquiries@sott.co.uk

www.sott.co.uk

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

WARD SIGNS

Maze House, Maze Street, Barton
Hill, Bristol BS5 9TE

Tel: 0117 955 3385

info@ward-signs.co.uk

www.ward-signs.co.uk

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

CHEMICAL ETCHING

AES SIGNS LTD (EST. 1972)

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

Tel: 0117 951 0234

sales@aesigns.co.uk

www.aesigns.co.uk

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

DARTFORD ENGRAVING & SCREENPRINTING LTD

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

Tel: 01322 340 194

mail@desp.co.uk

www.desp.co.uk

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

HALLMARK ENGRAVING

ETCHING & SIGNS LTD (EST. 1899)

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

Tel: 020 8686 6649

sales@hallmarksigns.co.uk

www.hallmarksigns.co.uk

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

IMPACT ENGRAVING

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

Tel: 01296 488902

Mob: 07957 870 756

andy@impactengraving.co.uk

www.impactengraving.co.uk

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

MERCURY & PHILLIPS SIGNS

51/59 Waterworks Road, Norwich
NR2 4DA

Tel: 01603 66 66 99

www.mercuryphillipssigns.co.uk

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

MULTITECHNIC LTD (EST. 1972)

Coopies Lane, Morpeth,
Northumberland NE61 6JQ

Tel: 01670 512 090

sales@multitechnic.co.uk

www.multitechnic.co.uk

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

SIGN INDUSTRIES

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

Tel: 01307 463997

info@signindustries.com

www.signindustries.com

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

TRADE ETCHING DIRECT LTD

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

Tel: 01536 203813

sales@tradeetching.com

www.tradeetching.com

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

CHROME PLATED LETTERS

SIGNTRADE LETTERS LTD

225 Long Lane, London N3 2RL

Tel: 08085 456700

sales@signtrade.co.uk

www.signtrade.co.uk

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

CNC ROUTING & ENGRAVING MACHINES

ATA ENGINEERING PROCESSES

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

Tel: 01442 264411

sales@ataeng.com

www.ataeng.com

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

COAT OF ARMS

BRYAN RAWLINGS DESIGN

45 Nunney Close, Keynsham,
Bristol BS31 1XG

Tel: 0117 986 7894 / 7291

bryan@bryanrawlings.com

www.bryanrawlings.com

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

SIGNS OF THE TIMES LTD

Wingfield Road Tebworth, Beds,
LU7 9QG

Tel: 01525 874 185

enquiries@sott.co.uk

www.sott.co.uk

Cast in polyurethane with detail in relief and hand painted full colours. May be cast on their own or as part of an entrance sign, blue plaque or street sign etc. We also cast coats of arms in aluminium, grp or bronze. Please send details for a quotation.

WARD SIGNS

Maze House, Maze Street, Barton
Hill, Bristol BS5 9TE

Tel: 0117 955 3385

info@ward-signs.co.uk

www.ward-signs.co.uk

Wards of Bristol Specialise in manufacture, restoration and accurate reproduction of historic and modern coats of arms. We are able to produce from originals, information from heraldic associations, or even from a photograph. Check our website for recent projects.

COMMEMORATIVE PLAQUES

MERCURY & PHILLIPS SIGNS

51/59 Waterworks Rd. Norwich NR2
4DA

Tel: 01603 666699

sales@mercuryphillips.co.uk

www.mercuryphillipssigns.co.uk

Manufacturers of plaques in stainless steel, brass and aluminium, chemically or machine engraved, colour filled to your choice. Logos and text from artwork supplied.

SIGN INDUSTRIES

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

Tel: 01307 463997

info@signindustries.com

www.signindustries.com

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

SIGNS OF THE TIMES LTD

Wingfield Road Tebworth, Beds,
LU7 9QG

Tel: 01525 874 185

enquiries@sott.co.uk

www.sott.co.uk

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

WARD SIGNS

Maze House, Maze Street, Barton
Hill, Bristol BS5 9TE

Tel: 0117 955 3385

info@ward-signs.co.uk

www.ward-signs.co.uk

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

CUT-OUT LETTERS

APPLELEC

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

Tel: 01274 774477

sales@applelec.co.uk

www.applelec.co.uk

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

ICE SIGNS

Tannery Works, 12 Whingate,
Leeds LS12 3BL

Tel: 0113 224 2124

sales@icesigns.co.uk

www.icesigns.co.uk

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

MERCURY & PHILLIPS SIGNS

51-59 Waterworks Road, Norwich
NR2 4DA.

Tel: 01603 666699

sales@mercuryphillips.co.uk

www.mercuryphillipssigns.co.uk

A fully comprehensive service to the trade in acrylic, foam PVC, MDF, brass and aluminium. Contact us for price list or quotation.

SIGN HERE

179 Fosse Road North, Leicester,
LE3 5EZ

Tel: 08085 428021

sales@sign-here.co.uk

www.sign-here.co.uk

Trade service for flat cut lettering & logos in Acrylic Foamex, Dibond, Aluminum, Stainless steel & MDF. We will give you a professional reliable & efficient service at a competitive price. From a single letter to a fully illuminated sign ready for installation. For a quote or just friendly advice contact us. We are here to help.

SIGNTRADE LETTERS LTD

225 Long Lane, London N3 2RL

Tel: 08085 456700

sales@signtrade.co.uk

www.signtrade.co.uk

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

SYGNET GROUP

129 Humberstone Rd, Leicester,
LE5 3AP

Tel: 0116 262 6288

sales@sygnetsigns.com

www.sygnetsigns.com

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

WATERJET SIGNS LTD

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

Tel: 01843 225666

www.waterjetsigns.co.uk

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

CUTTING MATS

CUTTINGMATS XXL

Tel: 020 3936 1106

info@cuttingmatsxxl.co.uk

www.cuttingmatsxxl.co.uk

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

RHINO CUTTING MATS

Brackley, Oxfordshire

Tel: 01280 840 493

sales@rhinocuttingmat.co.uk

www.rhinocuttingmat.co.uk

The UK's No.1 trusted brand and original Rhino Cutting Mats. The Rhino Heavy Duty is a perfect heard wearing choice for cutting and workbench protection. Sizes up to 4880 x 1220mm and 3657 x 1828mm. The Rhino SupaSeal is the ultimate self-healing choice for finer knives and scalpels, and designed to work on all brands of flatbed applicators. Sizes from 1000-2200mm wide up to 20m long.

DIGITAL POSTERS

SCREENSPACE DIGITAL SIGNAGE

107 Brighton Junction, 1a Isetta Square, 35 New England Street Brighton BN1 4GQ

Tel: 01932 769 962

hello@screenspace.live

www.screenspace.live

Screenspace is built around a small low-cost device that when plugged into any screen or TV, can in 5 minutes, turn that screen into a smart digital sign, capable of displaying your customers own adverts that can contain text, images or videos. When the device is connected to Wi-Fi these adverts can be scheduled, edited or updated instantly and sent to a screen, anywhere in the world.

DIGITAL PRINTED SIGNS

AVENUE SIGNS LTD

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

Tel: 01634 841300

info@avenuesigns.co.uk

www.avenuesigns.co.uk

Trade service for digital printing and laminating up to 1600mm wide. Printing onto vinyl, banner, canvas, paper, etc.

DIGITAL PRINTER SUPPLIES

ARTSYSTEMS

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

Tel: 0115 9380 380

marketing@artsystems.co.uk

www.artsystems.co.uk

UK Trade Distributor for HP Designjet, HP Latex, HP UV printers, Colortrac scanners, Summa Cutters, and Onyx RIPs. ISO 9001, ISO14001 Certified HP and Canon consumables, Neschen media and our own large format media range called Xativa.

MACTAC UK LTD

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

Tel: 01604 644697

www.mactacgraphics.eu

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

DIGITAL SIGNAGE

SCREENSPACE DIGITAL SIGNAGE

107 Brighton Junction, 1a Isetta Square, 35 New England Street Brighton BN1 4GQ

Tel: 01932 769 962

hello@screenspace.live

www.screenspace.live

Screenspace is built around a small low-cost device that when plugged into any screen or TV, can in 5 minutes, turn that screen into a smart digital sign, capable of displaying your customers own adverts that can contain text, images or videos. When the device is connected to Wi-Fi these adverts can be scheduled, edited or updated instantly and sent to a screen, anywhere in the world.

DOMES & DISHES

PROJECT PLASTICS LTD

Unit 7 Grange Way Business Park, Whitehill Industrial Estate, Colchester, Essex CO2 8HF

Tel: 01206 868 696

project.plastics@btinternet.com

www.projectplastics.co.uk

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

TALBOT DESIGNS LTD

225 Long Lane, Finchley London N3 2RL

Tel: 020 8346 8515

sales@talbotdesigns.co.uk

www.talbotdesigns.co.uk

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

DOUBLE SIDED TAPES & ADHESIVES

SIGN TRADE SUPPLIES LTD

Britannia House, Granville Road, Maidstone, Kent ME14 2BJ

Tel: 01622 689 410

orders@signtradesupplies.co.uk

www.signtradesupplies.co.uk

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

EDGE LIT SIGNS

KINGS PLASTICS LTD

The Signbuild Centre, Kelso House, Waterloo Street, St Philips, Bristol, BS2 0PH

Tel: 0117 9411 411

www.kingsplastics.co.uk

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

ENGRAVING

AES SIGNS LTD (EST. 1972)

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

Tel: 0117 951 0234

sales@aessigns.co.uk

www.aessigns.co.uk

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

ALAN ROBERTS ENGRAVERS

27 Thingwall Drive, Irby Village, Wirral, CH61 3XN

Tel: 07739 800 501

mail@alanrobertsengravers.co.uk

www.alanrobertsengravers.co.uk

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

DARTFORD ENGRAVING & SCREENPRINTING LTD

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

Tel: 01322 340 194

mail@desp.co.uk

www.desp.co.uk

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

FIRST SIGNS & LABELS LTD

Unit 1, Raynham Close, Raynham Rd Ind Estate, Raynham Road, Bishops Stortford, Herts, CM23 5JP

Tel: 01279 467999

sales@firstsignsandlabels.co.uk

www.firstsignsandlabels.co.uk

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

HALLMARK ENGRAVING

ETCHING & SIGNS LTD (EST. 1899)

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

Tel: 020 8686 6649

sales@hallmarksigns.co.uk

www.hallmarksigns.co.uk

Superfast and reliable trade service with 100 years experience for all etching, routing and profiling. Specialists for nameplate and commemorative plaques in bronze, brass, aluminium, stainless and plastics. Logos and crests. High quality graphics - drawings free of charge.

Precision industrial engravers of panels, labels and moulds. Keytop specialist. Presentation silverware and glass engraving experts.

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22-23 Rabans Close, Aylesbury,
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Tel: 01296 488902

Mob: 07957 870 756

www.impactengraving.co.uk

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

MERCURY & PHILLIPS SIGNS

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4DA

Tel: 01603 666699

sales@mercuryphillips.co.uk

www.mercuryphillipssigns.co.uk

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

ESTIMATING SOFTWARE

GOFASO BUSINESS SOFTWARE

129 Devizes Road, Hilperton,
Trowbridge, Wiltshire, BA14 7SZ

www.gofaso.com

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

EXHIBITIONS

SIGN & DIGITAL UK 2020

28-30 April, Birmingham, NEC

www.signuk.com

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

FLAT CUT LETTERS

ACCENT SIGNS LTD

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

Tel: 0121 561 4600

accsign1@aol.com

www.accent-signs.co.uk

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

APPLELEC

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

Tel: 01274 774477

sales@applelec.co.uk

www.applelec.co.uk

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

CENTRE SIGNS (UK) LTD

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

Tel: 0116 271 4247

graphics@centresigns.co.uk

www.centresigns.co.uk

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

FABRICUT

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

Tel: 020 8751 7250

mailus@fabricut.co.uk

www.fabricut.co.uk

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

SIGN HERE

179 Fosse Road North, Leicester,
LE3 5EZ

Tel: 08085 428021

sales@sign-here.co.uk

www.sign-here.co.uk

Trade service for flat cut lettering & logos in Acrylic Foamex, Dibond, Aluminum, Stainless steel & MDF. We will give you a professional reliable & efficient service at a competitive price. From a single letter to a fully illuminated sign ready for installation. For a quote or just friendly advice contact us. We are here to help.

SYGNET GROUP

129 Humberstone Rd, Leicester,
LE5 3AP

Tel: 0116 262 6288

sales@sygnetsigns.com

www.sygnetsigns.com

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

WATERJET SIGNS LTD

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

Tel: 01843 225666

www.waterjetsigns.co.uk

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

FLEXIBLE FACE SIGNAGE

BROWNING'S LTD

157 English Street, Hull, HU3 2BT

Tel: 01482 380900

sales@browningstld.co.uk

www.browningstld.co.uk

Brownings offer Flex face signage to the TRADE ONLY. We utilise the Signcomp suite of flex face products and we are their biggest Converter here in the UK. Which demonstrates the knowledge we have of the product. The range includes: Econoflex, Retro and Fascia Frame. All signs are produced to your specific needs and can be supplied; fully complete, in kit form or as full bar lengths.

MIDA SIGN SERVICES UK LTD

Welbeck Street South, Ashton-
Under-Lyne OL6 7QZ

Tel: 0161 8 300 600

info@midasignservices.co.uk

www.midasignservices.co.uk

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

GENERAL SIGN SUPPLIERS

BROWNING'S LTD

157 English Street, Hull, HU3 2BT

Tel: 01482 380900

sales@browningstld.co.uk

www.browningstld.co.uk

Brownings is one of the largest, TRADE ONLY suppliers of signage products within the UK. With in-house production we can cater for all your bespoke signage needs, our range includes everything from Flex and textile faced signage, poster displays, troughlights and much more. We can cater for one offs or roll out programs. Please visit our website to see our full range of products.

KINGS PLASTICS LTD

The Signbuild Centre, Kelso House,
Waterloo Street, St Philips, Bristol,
BS2 0PH

Tel: 0117 9411 411

www.kingsplastics.co.uk

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

SIGN SUPPLIER

Unit 15 Dale Industrial Estate,
Radcliffe, Manchester, M26 1AD

Tel: 0800 133 7555

info@signsupplier.co.uk

www.signsupplier.co.uk

Sign Supplier is a leading designer, manufacturer and installation specialist of business signage including signage boards, projecting, illuminated and neon signs, sign trays, sign posts, sign lettering, sign lighting and digital signage.

WHITE VILLA LTD

London (SE14) and Chichester
(PO20)

Tel: 020 7237 8000

sales@whitevilla.co.uk

www.whitevilla.co.uk

Here at Whitevilla we have been supplying the sign trade with quality Acrylic, ACM, Foam PVC and other substrates for over 20 years. We stock over 30 different colours and finishes in our Villabond/ACM range. We fabricate trays using Lasers/CNC routers and we supply fully illuminated fascias to our clients. All work is undertaken in-house by our specialist team and can offer a next day service.

GOLD LEAF SUPPLIERS

GOLD LEAF SUPPLIES

Unit C, Ogmor Court, Abergarw
Ind. Est. Brynmenyn, CF32 9LW

Tel: 01656 720 566

info@goldleafsupplies.co.uk

www.goldleafsupplies.co.uk

Highest quality products and a prompt reliable service. For all your Gold leaf, Gilding and Traditional Signwriting materials. All qualities of Gold leaf from 6ct to 24ct. Extensive range of products and full product support.

INSTALLATION CONTRACTORS

ANDY MAC SIGN SERVICES (EST. 1992)

4 Central Close, Hadleigh, Essex
SS7 2NU

Mob: 07850 060 840

Our highly experienced sign installation crews based in Essex offer you the quality of service you deserve. All aspects of signage covered across the U.K. including neon, flex face and vinyl. CSCS, IPAF, PASMA certified.

BIRCH SIGN SERVICES

Unit 3, Wickham Business Park,
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Mob: 07967 190089

lou@birchsigns.com

www.birchsigns.com

"The largest independent sign installation and maintenance company in the UK." Specialists in all sign work, large or small, neon, LED, all Flexface systems, illuminated, non illuminated and vinyl. Corporate change over specialists.

CHANNEL ISLANDS

BluePrint Signs & Garments, 20
Apsley Road, St Helier, Jersey,
Channel Islands, JE2 4LR

Tel: 01534 857633

Mob: 07700 800 999

paul@blueprintsigs.co.uk

www.blueprintsigs.co.uk

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

GLOBAL ERECTING SIGN SERVICES LTD (EST. 1996)

Ascension House, Phoenix
Business Park, St Neots,
Cambridgeshire, PE19 8EP

Tel: 01480 211948

info@gessltd.co.uk

www.gess.co.uk

The complete package. We offer an exemplary installation service for all types of signage, from street level to extreme high level, specialising in abseiling. We have full Public and Company Liability Insurance. For each installation we provide a full project management service, from site survey to sign off and provide a full Risk and Method Statement prior to any works being undertaken.

MEDIA ABSEILING

69 Soulbury Road, Leighton
Buzzard, Beds, LU7 2RW

Tel: 0845 345 7712

Mob: 07702 950 218

info@mediaabseiling.com

www.mediaabseiling.com

Rope access company specialising in the installation and maintenance of all types of signage, banners and lighting. We operate nationwide and throughout Europe and provide advice, site visits, fast turnaround and most importantly award-winning results.

MIDA SIGN SERVICES UK LTD

Welbeck Street South, Ashton-
Under-Lyne OL6 7QZ

Tel: 0161 8 300 600

info@midasignservices.co.uk

www.midasignservices.co.uk

Professional installation and maintenance of all types of signage, graphics and banners. Including, Site surveys, Illuminated signs, Flexface signage, LED etc. Nationwide service. Established 1984.

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Matrix House, Norman Court,
Ivanhoe Business Park, Ashby de
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Tel: 0345 1 30 40 50

sales@vivid-online.com

www.vivid-online.com

Vivid supply a wide range of laminating products including the award-winning Easymount range of wide format laminators, available in cold, heat assist and hot models. Vivid also supply the Boss range Pressure Sensitive Over Laminates, Self Wound Mount Films & Printable Vinyl Roll fed and the Trimfast range of wide format Board Cutters and Multi Substrate Cutters.

LASER CUTTING/ENGRAVING

CENTRE SIGNS (UK) LTD

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

Tel: 0116 271 4247

graphics@centresigns.co.uk

www.centresigns.co.uk

Trade only service for quality Acrylic Laser Cutting, 3mm, 5mm -10mm. Our 10mm clear laser cut acrylic is ideal for POS and specialist projects. Professional cutting bed area 1400 x 900mm. Cutting services for MDF and Ply is also available.

SIGN HERE

179 Fosse Road North, Leicester,
LE3 5EZ

Tel: 08085 428021

sales@sign-here.co.uk

www.sign-here.co.uk

Trade service for Laser flat cut & built up lettering & logos in Acrylic, Aluminum & Stainless steel. We will give you a professional reliable & efficient service at a competitive price. From a single letter to a fully illuminated sign ready for installation. For a quote or just friendly advice contact us. We are here to help. Work with us.... work with experience

SYGNET GROUP

129 Humberstone Rd, Leicester,
LE5 3AP

Tel: 0116 262 6288

sales@sygnetesigns.com

www.sygnetesigns.com

Sygnest Signs offers a laser-cutting service and stocks a wide variety of materials in various thicknesses to suit you. We can also fabricate signage from free issue materials, using our lasers to cut stainless steel up to 4mm and mild steel up to 12mm in thickness. We can also cut very small acrylic detail with pre-applied double-sided tape, and all work is carried out on-site at our Leicester HQ.

LASER CUTTING/ENGRAVING MACHINES

BOXFORD

Dewsbury Road, Elland, West
Yorkshire, HX5 9BG

Tel: 01422 324 810

www.boxford.co.uk

Our range of cost effect Laser Co2 Cutters and Engravers have bed sizes from 500 x 300mm to 1300 x 900mm and feature integrated chiller cooling systems, auto focus system, air assist c/w integrated compressor, red dot pointers and honeycomb cutting tables. Metal Cutting and Marking Lasers also available including fibre based systems. Supplying lasers since 2003, we have a wealth of expertise.

GRAVOGRAPH

Unit 3 Trojan Business Centre,
Tachbrook Park Drive, Leamington
Spa, Warwickshire CV34 6RH

Tel: 01926 884 433

info@gravograph.co.uk

Gravograph have continued to pioneer engraving technologies since 1938. Our mechanical and laser systems are manufactured in Europe. Engrave and cut any material including acrylic, wood, metal and more. Our team of inhouse trouble-shooters and field engineers ensure all our customers benefit from our expert advice. Meet us at one of our regional showrooms across the UK for a free demonstration.

HPC LASER LTD

Castle Mills, Saddleworth Road,
Elland, West Yorkshire, HX5 0RY

Tel: 01422 310 800

www.hpclaser.co.uk

Specialist suppliers of LASERSCRIPT CO2 laser engravers and cutters. Our lasers are capable of cutting, engraving and marking a wide range of materials including laminate, metal, glass, acrylic, textiles, wood, paper, card and leather. Optional 1 to 3 year ONSITE warranty available and unlimited technical support. Established in 2006, over 4500 machines supplied!

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9 Didcot Way, Boldon Business
Park, Boldon Colliery, NE35 9PD

Tel: 0191 580 1184

sales@troteclaser.co.uk

www.troteclaser.co.uk

Leading manufacturers of laser cutters and laser engravers, Trotec's broad range of flatbed, large format and galvo laser machines are available for demonstration in six dedicated showrooms across the UK and Ireland. In addition, Trotec's UK warehouse holds stock of thousands of rotary and engraving materials and accessories, available with next day delivery as standard.

LED ILLUMINATED LETTERS

ACCENT SIGNS LTD

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

Tel: 0121 561 4600

accsign1@aol.com

www.accent-signs.co.uk

Accent signs "SLIMLITE" flat cut letters & logos made from 6mm opal acrylic with imbedded super bright white LED's to create a unique edge and halo illumination. Available with ACM, Acrylic or vinyl faces. Suitable for internal & external use. Supplied with standard locator fixings for ease of fitting.

LED ILLUMINATION

3D SIGN SYSTEMS LTD T/A CITI LED

Unit 1, 411 Pollokshaws Rd, Glasgow, G41 1QZ

Tel: 0141 422 2500

sales@citi-led.co.uk

www.citi-led.co.uk

We are a trade only supplier of LED Modules for all types of channel letters, light boxes and solid acrylic "Neon" effect type letters. We have some very unique specialist LEDs, visit our website for product information and installation tutorials. We offer premium grade reliable products at highly competitive prices. Our unrivalled pre-sales guidance and after sales support will ensure your projects are executed with maximum effect.

APPLELEC

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

Tel: 01274 774477

sales@applelec.co.uk

www.applelec.co.uk

Sole UK distributor of SloanLED LED systems. Trade suppliers of LED lighting solutions and manufacturers of the flat light unit, LED Light Sheet. We supply energy efficient, award winning LED modules in a variety of colours including RGB (colour changing). We'll support you in choosing the right LEDs for your project whilst our after-sale technical support ensures you receive continued assistance.

ARTILLUS LTD

Britannia House, 29 Station Road, Kettering, Northants NN15 7HJ

Tel: 0333 123 0345

artillusltd@gmail.com

www.artillus.com

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

FOCUS LED UK LTD.

Unit 38 Cariocca Business Park, 2 Hellidon Close, Ardwick, Manchester, M12 4AH

Tel: 0161 27 27 778

www.focusled.co.uk

Specialise in LED Lighting for Signs & Shop fitting, Kitchens, Restaurants, Commercial & Domestic Lighting. Quality & Professional Lighting to get your job done by giving you our best advice, there is no job too small. You only pay for quality products at Focus LED. Check out our gallery to see how we helped others to achieve their projects.

KINGS PLASTICS LTD

The Signbuild Centre, Kelso House, St Philips, Bristol, BS2 0PH

Tel: 0117 9411 411

www.kingsplastics.co.uk

White, warm white & coloured LED modules in 4 sizes and LED ribbon - Flexi ribbon & RGB ribbon. New our LED Flexi Neon in two different sizes & LED Cabochon bulbs. 12v power converters, RGB controllers, together with a range of connectors. LEDS ideal for lettering & lightboxes. For full details on our range, prices and for images, check out our website & online shop. Competitive prices guaranteed!

LED SOLUTIONS

129 Humberstone Road, Leicester LE5 3AP

Tel: 0116 262 5933

sales@ledsolutions.co.uk

www.ledsolutions.co.uk

Since 2005, LED Solutions has supplied energy-efficient LED products, power supplies and control gear for use in the sign trade. We're UK distributors for Hitechled, specialising in ultra-reliable modules for signage illumination and offering a 5-year warranty on all products. We supply RGB modules, DMX systems, Flexible LED and IP-Rated Power Supplies and Enclosures from our HQ in Leicester city.

SIGNTRADE LETTERS LTD

225 Long Lane, London N3 2RL

Tel: 08085 456700

sales@signtrade.co.uk

www.signtrade.co.uk

Chromasign launched at Sign UK. We offer a complete range of ChromaForm Letters with Halo Lighting not available anywhere else. Ring Susan or Lesley for details and samples.

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Tel: 0141 764 1600

sales@ispitrade.com

www.isptrade.com

iSpi Trade is the UK's premier supplier of LED window display solutions. With A4, A3 and A2 size options in portrait or landscape, we can supply fully configured kits which are designed to match your windows specifications, plus we provide single panels, accessories and replacement parts, all at low trade prices.

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sales@applelec.co.uk

www.applelec.co.uk

Trade suppliers of fabricated and extruded light boxes, custom made to client design requirements. From flat faced and curved styles, to LED illumination and colour changing modules, a definitive range of light box products is available. Applelec's flat light unit LED Light Sheet is regularly used to create ultra slim light boxes with bright, even illumination at a depth of just 25mm.

ARTILLUS LTD

Britannia House, 29 Station Road, Kettering, Northants NN15 7HJ

Tel: 0333 123 0345

artillusltd@gmail.com

www.artillus.com

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

BROWNING'S LTD

157 English Street, Hull, HU3 2BT

Tel: 01482 380900

sales@browning-sltd.co.uk

www.browning-sltd.co.uk

Brownings manufacture acrylic-faced light boxes to the TRADE ONLY. With in-house production and utilising our own UK Produced extrusions for both single and double-sided boxes. We can cater to all you individual, specific requirements. Boxes can be supplied; fully complete, in kit form or as full bar lengths. Please visit our website for more details and to see our full range of products.

MAGNETIC MATERIAL

ANCHOR MAGNETS LTD

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Tel: 0114 244 1171

www.anchor-magnets.com

UK's largest stockist of magnetic & ferro material including universally printable & wide format digifilm® ferrous media (1600mm) supaferr® ferro sheet (1260mm) & supamag® magnetic sheet (1270mm) with the UK's highest pull force & anti-mark UV coating, in white, plain, self-adhesive & dry-wipe. For graphics, retail POS, signage, holding & hanging products use the UK's leading magnetic innovators.

BISBELL MAGNETIC PRODUCTS LTD.

Hillfield Lane, Stretton, Burton on Trent, Staffs DE13 0BN

Tel: 01283 531000

sales@bisbellmagnets.com

www.bisbellmagnets.com

The UK's widest range of digitally printable wide format magnetic and ferro sheet (both over 1200mm wide). Maxmag vehicle grade magnetic materials available in white, plain or adhesive backed - by roll or cut to your specific requirements. Also available neo magnets, vehicle roof magnets, sign grippers and a full range of high tape to suit every budget and application.

MAGNETIC SOLUTIONS LTD

Brooklands Business Park, Leigh Street, Sheffield S9 2PR

Tel: 0114 2422211

sales@magnetic-solutions-ltd.co.uk

www.magnetic-solutions-ltd.co.uk

Part of the Sanders Group, Europe's largest combined supplier of magnetic & ferro sheet materials including wide format, PVC FREE magnetic (1370mm) and ferrous media (1600mm). Also available, retail POS graphic materials, magnetic flooring, neo magnets, sign grippers and magnetic tape with a range of adhesive finishes to suit your requirements. We can provide the solutions.

MOULDED & FABRICATED PLASTICS

MERCURY & PHILLIPS SIGNS

51-59 Waterworks Road, Norwich NR2 4DA

Tel: 01603 666699

sales@mercuryphillips.co.uk

www.mercuryphillips-signs.co.uk

Suppliers of moulded acrylic pans and logos up to 2800mm x 1500mm and other types of press and vacuum forming in PVC and HIPS. Specialists in fabricated plastics for POS displays with full screen print, graphics and CNC routing capabilities.

PROJECT PLASTICS LTD

7 Grange Way Business Park,
Whitehill Industrial Estate,
Colchester CO2 8HF

Tel: 01206 868696

project.plastics@btinternet.com
www.projectplastics.co.uk

Manufacturers of acrylic domes and shapes, tubes, point of sale displays and showcases. Bespoke plastic fabrication. CNC routing, diamond edge polishing, 3m x 2m moulding oven for oven forming, vacuum forming and screen printing. Plastic cut to size service.

MOULDED LETTERS

ACCENT SIGNS LTD

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

Tel: 0121 561 4600

accsign1@aol.com

www.accent-signs.co.uk

Largest range of moulded acrylic letters in the UK. Mirror effect moulded letters, LED illumination, logos, panels, complete fascia panels, blow moulding, aluminium, composite trays and more! Samples on request.

MERCURY & PHILLIPS SIGNS

51/59 Waterworks Rd. Norwich NR2 4DA

Tel: 01603 666699

sales@mercuryphillips.co.uk

www.mercuryphillips.co.uk

Moulded letters and logos in all standard Perspex colours and UV stabilised gold and silver acrylics, in 8 standard sizes, bespoke sizes available on application. Press, vacuum and blow moulded pans, in acrylic and petg also available.

SIGNTRADE LETTERS LTD

225 Long Lane, Finchley London N3 2RL

Tel: 08085 456700

sales@signtrade.co.uk

www.signtrade.co.uk

Moulded letters are our speciality with stock of 20 fonts 8 letter heights in coloured Perspex and 1000's of flat cut letters as well. Your own font or logo is made by our own toolmakers. With over 60 years of experience to call on.

WARD SIGNS

Maze House, Maze Street, Barton Hill, Bristol BS5 9TE

Tel: 0117 955 3385

info@ward-signs.co.uk

www.ward-signs.co.uk

Having patented the original method of making cast resin letters, Wards of Bristol can manufacture and supply resin lettering to the highest standard. Our stock patterns for resin letters are a cost effective method of achieving the same styles as traditional bronze and aluminium (which we also cast in house) but we can also make custom designed patterns for letters and logos for all your needs.

NEON MANUFACTURERS (TRADE)

A1DESIGNS

4 Sandy Lane North, Wallington, Surrey SM6 8JX

Tel: 020 8646 9886

enquiry@a1designs.co.uk

www.a1designs.co.uk

Neon & Cold Cathode Manufacturers to the Trade. Fast turnaround & Delivery, Quick repair service. Installation, Fault diagnosis, Repairs & Maintenance. Confidential Service. All neon accessories, Transformers, Cable, Tube supports etc.

AVENUE SIGNS LTD

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

Tel: 01634 841300

info@avenuesigns.co.uk

www.avenuesigns.co.uk

Full computerised design service neon and cold cathode lighting. Fully qualified installation engineers, fault diagnosis, fast repair service. Complete sign service from vinyl through to acrylic to polished stainless steel to transformer and neon accessory supplies.

LOGOTECH DISPLAY SOLUTIONS LTD

Unit 6, Atley Business Pk, North Nelson Ind Est, Cramlington, Newcastle Upon Tyne NE23 1WP

Tel: 01670 737 225

sales@logotech-ltd.co.uk

www.logo-tech.co.uk

Specialists in neon manufacture to the trade, all types of neon work undertaken. Quick repair service. Very competitive prices. Over 25 years experience in the sign trade.

NEON REPLACEMENT LETTERS

ACCENT SIGNS LTD

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

Tel: 0121 561 4600

accsign1@aol.com

www.accent-signs.co.uk

Accent Signs "LITEFORM" letters & logos with a moulded half round acrylic profile of only 15mm to look like Neon glass. Illuminated with super bright Led's. Available in a wide range of colours. Suitable for internal & external use. Supplied with standard locator fixings for ease of fitting.

APPLELEC

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

Tel: 01274 774477

sales@applelec.co.uk

www.applelec.co.uk

Trade suppliers of NeonLux, a faux neon letter system suitable for interior and exterior applications according to specification. Available in a range of colours and embedded with high quality LEDs to deliver bright, clear illumination. Don't forget, any shape or logo can be created, not just letters! Contact our friendly team for more information and request a free and unbranded product brochure.

NOTICE BOARDS - LOCKABLE/EXTERIOR

NOTICE ME

2 Glenister House, Avondale Drive, Hayes, Middx UB3 3PP

Tel: 0208 581 1067

www.noticeme.org.uk

Sign companies come to us for a truly extensive range of standard and made to measure, indoor & outdoor notice boards and whiteboards. Standard internal pin boards are available in over 100 felt colours and our cut to size service is available on many products. We supply some extremely competitive outdoor notice boards to compliment your sign work. See our complete range of display products.

PLASTIC SHEETS

BRETT MARTIN PLASTIC SHEETS

24 Roughfort Road, Mallusk, Co Antrim BT36 4RB

Tel: 028 9084 9999

semifinished@brettmartin.com

www.brettmartin.com

Brett Martin is a leading manufacturer of plastic sheet products for signage, interior design, shop outfitting, POS displays and fabrication. Products include Foamalux, the extensive foam PVC range in bright White, Satin and Gloss colours and an environmentally friendly Recycled material in addition to Polycarbonate, PVC, Acrylic, aPET, PETg and Styrene sheet.

RIGHTON BLACKBURNS LTD

Building 38, Second Avenue, The Pensnett Estate, Kingswinford, West Midlands DY6 7UE

Tel: 0121 356 1141

sales@rblimited.co.uk

www.rightonblackburns.co.uk

UK distributor of Polycasa Crylux Cast & Crylon extruded sheet acrylic. Available in a wide range of clear, opals, colours and special finishes. Also stocked: Alucobest aluminium composite sheet, Marlon solid polycarbonate, PET-G, SAN, polystyrene, hygienic cladding, rigid PVC and fixing accessories, sign post systems, aluminium sheet and extrusions.

TELEGAN PRESSED PRODUCTS LTD.

South Strand, Lawford, Manningtree, Essex CO11 1UP

Tel: 01206 803 580

sales@teleganpressedproducts.com

www.teleganpressedproducts.com

Leading manufacturer of plate pressed PVC sheet offering equivalents to Darvic, Pacton and Cobex under our trade name TELBEX. We also manufacture VYNALAST™ engraving laminate. A comprehensive range of photoluminescent boards and self adhesive vinyl is available in PSPA class B and Class C to order.

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

Tel: 01322 444 400

sales@displaydevelopments.co.uk

www.displaydevelopments.co.uk

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

POSTER HOLDERS / CASES

BROWNING'S LTD

157 English Street, Hull, HU3 2BT

Tel: 01482 380900

sales@browningst.co.uk

www.browningst.co.uk

Brownings manufacture Poster displays for the TRADE ONLY. With in-house production and utilising our own UK Produced extrusions. We can cater to all you individual, specific requirements. 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 with the option to illuminate.

PRINT/POSTER FRAMES

BROWNINGSLTD

157 English Street, Hull, HU3 2BT

Tel: 01482 380900

sales@browningsltd.co.uk

www.browningsltd.co.uk

Brownings manufacture poster frames to the TRADE ONLY. Bespoke sizes and colours are our specialty. With in-house production using our own U.K produced extrusions, we can cater for all your individual, specific requirements. Whether it may be a one off or a roll out program. Frames can be supplied complete, in kit form or as full lengths of extrusion for yourselves to cut and build.

PROJECTING SIGNS

IRON DESIGN

37A Douglas Rd., Poole, BH12 2AU

Tel: 01202 463573

enquiries@ironsigns.com

www.ironsigns.com

Leading trade suppliers of high quality traditional and contemporary projecting signs and brackets, offering a large range of brackets, panels and lights off the shelf, as well as a comprehensive bespoke service. Competitive prices and next day service. Please visit our website or phone for a brochure.

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ATC LTD

Unit 3C Buckley Road Industrial Estate, 2 Buckley Road, Rochdale, Lancashire OL12 9EF

Tel: 01706 633043

sales@apptape.co.uk

www.apptape.co.uk

Suppliers of Micro prismatic reflective tapes (3m, Avery, Reflexite) and glass bead reflective vinyl for use on emergency vehicles (police cars & chapter 8 legislation etc) also HGV markings as per EC 104. We stock Conspicuity tape manufactured by Reflexite and Avery which are some of the most reflective materials available on the market. Chapter 8 chevron kits also available.

SIGN TRADE SUPPLIES LTD

Britannia House, Granville Road, Maidstone, Kent ME14 2BJ

Tel: 01622 689 410

orders@signtradesupplies.co.uk

www.signtradesupplies.co.uk

Supplying a variety of sign making supplies nationwide including aluminium signs posts, post clips, fixings, vinyl and tools. We have a large UK stock of Image Perfect vinyl, sign fixings and aluminium extrusions ready for same day despatch. We also provide trade manufacturing service including diamond edge polished acrylic, flat cut acrylic lettering, sign trays and more.

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ATA ENGINEERING PROCESSES

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

Tel: 01442 264411

sales@ataeng.com

www.ataeng.com

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

EDWARD MATHIAS & CO

PO BOX 121, Frodsham, Cheshire, WA6 1AA

Tel: 01928 739 799

info@edwardmathias.com

www.edwardmathias.com

Specialist manufacturers/suppliers of tungsten carbide plotter blades and router cutters. We don't just sell blades, we are the UK's leading manufacturer. Note - we have no connection with any other company who sell or re-sharpen blades.

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DARTFORD ENGRAVING & SCREENPRINTING LTD

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

Tel: 01322 340 194

mail@desp.co.uk

www.desp.co.uk

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

FIRST SIGNS & LABELS LTD

Unit 1, Raynham Close, Raynham Rd Ind Estate, Raynham Road, Bishops Stortford, Herts, CM23 5JP

Tel: 01279 467999

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.

HT SCREEN PRINT

15 Ridge Way, Hillend Industrial

Estate, Dalgety Bay, Fife, KY11 9JH

Tel: 01383 824522

info@htscreenprint.co.uk

www.htscreenprint.co.uk

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

MERCURY & PHILLIPS SIGNS

51/59 Waterworks Rd. Norwich NR2 4DA

Tel: 01603 666699

sales@mercuryphillips.co.uk

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.

SCULPTORS

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45 Nunney Close, Keynsham, Bristol BS31 1XG

Tel: 0117 986 7894 / 7291

bryan@bryanrawlings.com

www.bryanrawlings.com

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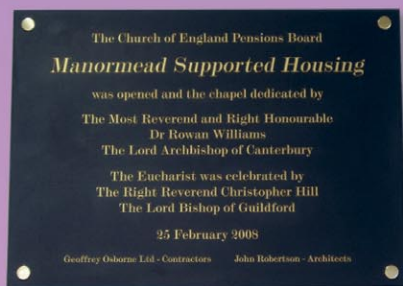
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