

INDUSTRY UPDATE

Tel: **01562 756960** | www.industryupdate.co.uk | February/March 2021 | issue **227**

Inside this Issue



UNISIG

Machining

See them on page..... 3



Kingston Engineering

Engineering

See them on page..... 4



Bradshaw Electrical Vehicles

Handling & Storage

See them on page.....10



RMIG

Metal Products

See them on page.....11

Contents

- 2 Editor Recommends
- 3 Machining Update
- 4 Engineering Update
- 6 Cleaning & Hygiene Update
- 7 Additive Manufacturing Company of the Month
- 9-10 Handling & Storage Update
- 11 Metal Products Update
- 12-13 Electronics Update
- 16 Surface Finishing Update



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wherever you are, whatever you need, whatever you're doing.

Getting more information on the Snickers Workwear jackets range is easy. You can call the Helpline on 01484 854788, check out: www.snickersworkwear.co.uk/products/93 and download a digital catalogue or email: sales@hultaforsgroup.co.uk

Ultimate protection & fully compatible

Compatibility in PPE is not only about products fitting correctly, but also working correctly when worn together. Some products that fit together are not necessarily compatible in terms of performance.

To ensure products are suitable for use in combination, it is best to buy all PPE from the same manufacturer, who have developed the products to work together. JSP PPE is designed to be compatible across the range, offering complete above-the-neck solutions.

The popular EVO VISTA helmet is fully compatible with other JSP PPE, such as the award-winning Force8 PressToCheck respirator and Sonis helmet mounted ear defender range. JSP's Research and Development team were inspired by feedback received from users who regularly wear head and eye protection together. In addition to problems with compatibility, a common theme in the feedback was the amount of eyewear lost or damaged on site after being issued.

EVO VISTA is an innovative, feature-rich helmet



incorporating optical class 1 faceshield or overspectacle. The eyewear is fully integrated, allowing users to retract and deploy as needed, which helps to prevent traditional safety eyewear being lost or damaged, saving companies money, time, and worry, while also allowing prescription spectacles to be worn safely.

EVO VISTA lenses function like a spectacle, offering protection to EN166 2C-1.2 FT, and the EVO VISTA shield conforms to EN166 2C-1.2 with impact rating of grade AT. Both products feature optical class 1 lenses, anti-mist and anti-scratch coatings, plus protection against impact at extremes of temperature, and UV radiation.

www.jspsafety.com

3-Wire Ultra-Small Bridge Amplifier

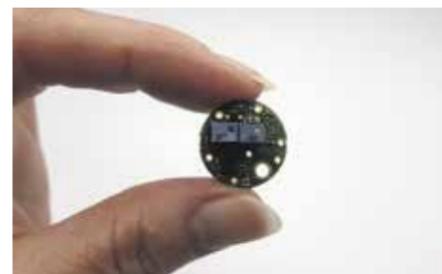
The AS200501 is a very flexible ultra-compact board for 3-wire systems providing a current output (typically 4-20mA, but can be configured to virtually any linear gradient, ie. 0.2mA to 8.2mA, or even with mid-zero of 12mA for compression/tension transducers), designed to be mounted directly with the transducer. The unit has individual multi-turn potentiometers for the precise setting of Zero and Span. The inputs provide EMI-/RF-suppression along with a low-pass filter. Transducer wires can be easily connected to the board by soldering.

Features

- ▼ Wide range power supply 8V-30V
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- ▼ Bridge resistance 350 ohm (or greater)
- ▼ Bridge sensitivity 0.2mV/V-10mV/V
- ▼ Ultra-small 18mm diameter, 7mm height
- ▼ Fast calibration procedure
- ▼ Reverse-polarity protection

Applications

- ▼ Load-Cell Industrial Weighing



- ▼ Strain-gauge Load Testing & Monitoring
- ▼ Overload Protection Systems

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Editor Recommends

For all your drainage needs



Headquartered in Sleaford and serving Lincolnshire, Yorkshire and much of the East Midlands, Allerton is the premier off-mains drainage company covering sales, servicing, commissioning and repairs of all types of septic tanks, sewage treatment plants, sewage pump stations and soakaways.

As well as saving you money, the company will maintain your compliance with regulators, help you protect the environment and extend the life of your system.

Moreover, Allerton also does specialised pump stations for awkward situations. The company can accommodate specific requirements – such as if something very small, very shallow, or narrow is needed.

Although the company is making site visits, it will not enter the house or site, so you can rest assured it is COVID compliant.

To find out more, visit: www.allertonuk.com

IFL increases its warehouse storage facilities in the Midlands



International Forwarding Ltd has added a new and sorely needed 27,000ft² storage facility in the centre of Birmingham, West Midlands, to its portfolio of warehousing space, offering long or short term flexible warehousing and storage solutions. The site has a range of modern handling equipment including 2.5 tonne capacity container spec forklifts. This is in addition to a 2,000m² secure warehouse storage facility which opened in the Midlands last May as part of the company's growth plans and quickly filled up.

The now full unit opened in May 2019 and almost doubled IFL's warehousing space at the time. The storage facility is part of a larger two acre site, which the company took over in April. The site includes 24 hour security and yard space for vehicle parking and trailer storage. It is located next to IFL's existing offices and hub in Coteshill, Birmingham, close to the M1, M5, M6 and M42, and 10 minutes from Birmingham International Airport.

Extra warehouse storage at Birmingham hub
The timing of this major expansion in the company's facilities is particularly opportune as several existing customers require additional warehousing to protect their supply chain against Brexit-related issues. It also gives the sales team the tools to acquire additional forwarding and pallet distribution contracts from new UK and overseas-based customers. The existing management team will control the physical freight handling and the back-office functions for the new site.

30 years of IFL in the Midlands
IFL is a Midlands-based independent freight forwarder specialising in European groupage services, sea and air freight, UK haulage/pallet distribution, and warehousing. The company started trading in 1989 to fill a niche in the West Midlands to provide a personalised bespoke freight forwarding service to local exporters and importers.

For fast, flexible quotes and competitive storage rates, or to discuss your warehousing needs, call us on 01675 434690 or email: enquiries@internationalforwarding.co.uk

Engel high-viz workwear helps save the environment

A brand-new range of high visibility protective safety clothing with 50% of the material made from recycled plastic bottles has been introduced by workwear manufacturer Engel Workwear.

Called 'Safety Light', each item of clothing can be verified to consist of regenerated polyester fibres ultimately spun from a specific number of plastic bottles to make up 50% of its content. This is combined with 40% cotton and 10% standard polyester (245g/m²) to produce

a cool-to-wear, durable fabric. By using regenerated polyester which is equally as efficient as new, there are also significant consumption savings on energy, water and CO₂.

The Danish firm has worked closely with Unifi, one of the world's most advanced recycling centres which transforms the recycled bottles into a polyester yarn called 'REPREVE®'.

The smart, mix-and-match range includes boiler suits (containing 37 plastic bottles), work-jackets

(20 bottles), trousers (19 bottles) with Cordura kneepad pockets and elasticated waistband, bib-overalls (23 bottles) and shorts (14 bottles). All have many practical pockets and comfort-design features. There is also a specific selection especially for women called 'Ladies Light', all with the same benefits.

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Leading UK manufacturer of bespoke power screws



Kingston Engineering is one of the UK's leading manufacturers of bespoke power screws. Based in Hull, the company offers a vast selection of materials and specifications designed to suit their clients' requirements. "We produce power transmission equipment used in a variety of industries, including aerospace, nuclear, medical, water, rail, and many more," explained Paul Bielby, Director.

With a history dating back to 1919, Kingston Engineering celebrated its 100-year anniversary last year, an admirable feat which proves the company's



outstanding reputation in the industry. For over 60 years, Kingston Engineering has specialised in manufacturing right hand/left hand, single/multi-start, cut thread power transmission screws and nuts, all of which are adaptable for mechanical power transmission. These products also conform to the standards of British, European and American requirements and meet ISO 9001-2015 accreditation, as well as being thoroughly examined during the manufacturing process.

Working closely with both suppliers and end users to provide the best purpose-built screws possible, Kingston Engineering has customers throughout the UK and the US, offering one off prototypes to full batch manufacture. Kingston Engineering specialises in offering bespoke manufacturing services, addressing its customers' specifications to ensure their needs are always met. These services are informed by over 100 years combined experience between the company's directors, all of whom are committed to investing in Kingston Engineering's skilled workers, facilities and technologies to ensure continued success.

Certainly, Kingston Engineering is always engaging in plans to help the company become global leaders in screw/nut manufacturing. One recent investment was in a new Mitutoyo Euro M544 Measuring Machine, which has become invaluable in the company's inspection department. This allows Kingston Engineering to measure the physical geometrical characteristics of an object. The machine creates printed inspection reports and is controlled by an operator, with measurements designed by a probe attached to the third moving axis of the machine.

Additionally, Kingston Engineering invested in a Hi-Tech 450 AMC Turning Centre, the latest addition to its CNC Turning capacity. This one piece heavy duty cast iron construction is a major contribution to the company's turning capacity. All details are available on the website or why not give us a call for a chat about your requirements over a virtual coffee.



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"We're very much looking forward to what the next 100 years will bring, as we focus on continued investment in our machinery and our people," Paul explained. "Engineering in general has been hit by the COVID-19 pandemic, but our work in the medical, water and machine refurbishment fields has enabled us to maintain a high level of production while adhering to social distancing guidelines. We'd like to thank our customers and suppliers for their continued support through these challenging times, and now we're focusing on seeing the company continue through the next generations while upholding the strong name we

have within the industry."

If you would like to find out more information on everything Kingston Engineering has to offer, head to the website or get in touch using the contact details below.

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Hydroscand: Dedicated to the flow

Industry Update is proud to announce that Hydroscand has been selected as our **Hose & Fittings Company of the Month**, for its outstanding range of affordable, high-quality hydraulic and industrial hoses and fluid connectors.

Established in the UK since 2002, Hydroscand was founded in 1969 in Sweden by Björn Holmström. Since then, the company has grown into a global family-owned business with operations in 20 countries worldwide.

Hydroscand offers solutions and services for hoses, fittings and related products through a customer driven business. In the UK, Hydroscand offers while-you-wait hose repair at its trade counters, and operates the HoseExpress mobile hose repair service. The company also supports manufacturers and distributors, delivering hoses, hose assemblies and hose kits to their businesses across the country. Hydroscand can also provide hose assembly machines manufactured by Hydroscand Machine AB, part of the company's wider group.

"We support a lot of customers in a range of industries," explained Rebecca Galley, Managing Director UK. "Some



examples are plant hire, construction, demolition, waste management, recycling, transport, offshore, marine, agriculture, materials handling, quarrying, and even hot air balloon and hovercraft manufacturers."

To back up this wide customer base, Hydroscand has a comprehensive product range. Thanks to the company's over 50 years' experience in the industry, it has an extensive portfolio and a number of different ways to work with its customers. "Our local branches are small enough that the teams really care and provide a personal



service," Rebecca continued. "At the same time, we are part of a large international group, which means we are well supported, can offer high quality products, and have access to a wide range of products at competitive prices."

Although 2020 was a difficult year for everyone, Hydroscand managed to remain operational throughout thanks to supporting key industries, and continued with some important developments.

Hydroscand released a new range of lightweight hose assembly machines in 2020. These are ideal for keeping demanding production lines running efficiently, and are 42-50% lighter than previous models, an important factor for weight-critical service vans doing multiple call-outs at peak times. What's more, Hydroscand UK made an



acquisition at the end of 2020, Southampton-based JC Mobile Hydraulics. This is a key addition to Hydroscand's core offering and will help to further its mobile hose repair service across the UK.

And, despite the challenges of the last year continuing into 2021, Hydroscand is working hard to maintain its customer service and planning for the upturn in activity it expects when restrictions are lifted.

To find out more information, head to the website or get in touch using the details below.

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The future of AM post-processing



Industry Update is proud to announce that PULVERMEISTER GmbH has been selected as our Additive Manufacturing Company of the Month, for its innovative, fully automatic machine for the post-processing of 3D printed parts.

Established in 2018, PULVERMEISTER was born out of a need for a fully automatic method of post-processing 3D printed parts from plastic powder. As the first and most advanced machine of its kind, the PULVERMEISTER Typ3 can process a batch of parts in one to two hours, depending on the material, volume & shape of the parts.



The two-ton piece of equipment features two stainless steel hexagon shaped drums inside. The top drum removes the powder from the parts, before the powder is sucked down a pipe into a container ready to be recycled. The lower drum finishes the surface of the parts. Upon leaving the machine, parts printed in PA11 Black are ready to use while maintaining their black colour. Of course, this is just a real life example, PULVERMEISTER Typ3 can process any powder fit for 3D printing.

Another crucial reason why PULVERMEISTER has automated this post-processing process is that it creates a dust-free environment. "The dust particle size is about 50 microns, which corresponds to the size of coal dust particles," explained Luigi Monaco, a Managing Partner at PULVERMEISTER. "This means that apart from the monotony of the work process, a potential health hazard is also excluded.

"It can easily process 10 machines in an eight-hour shift and means you can have a fully automated production chain. We invented it to address real life problems, challenges that I was having to face. I searched for a solution and couldn't find one, so I solved the problem myself."

Indeed, the story of how and why PULVERMEISTER came about is intriguing, as Luigi goes on to explain.



"I purchased a 3D printing machine to support the production processes in my other company Badass eBikes. This was in May 2017, and soon after buying the machine I discovered the dirty little secret of the 3D printing industry.

"I was new to AM, and didn't realise the work involved for post-processing PA11. The powder sticks to the sintered surfaces, and because our parts were quite intricate, I had to use a screwdriver to get the powder out of the casings and then sandblast them. This resulted in about 3-4 hours of manual post-processing work three times a week. With 1 day production, 1 day cooling down.

"I believe that as soon as you have to touch a product yourself and do something manually, it's no longer a complete industrial process. So, we set about developing a machine that could do this post-processing automatically."

After a few years of research and development, PULVERMEISTER has created the Typ3, which was exhibited for the first time at Formnext 2019. "This is a result of all the experience and knowledge we've accrued over the last few years, learning from our initial prototype, Typ1, and our second model Typ2.

"We're now in the final stages of securing international patents and we're ready to sell the Typ3 machine to



customers. We have tested the machine extensively and have been producing using this method for just under three years. It offers significant cost savings (40%-60% for the finished part) in real production. And, although there are now a few companies that have produced solutions similar to this, we believe we are better."

For informative videos and to see the PULVERMEISTER Typ3 in action, head to PULVERMEISTER's YouTube page. And, if you would like to establish a fully automated production chain using PULVERMEISTER's innovative technology, get in touch using the details below.

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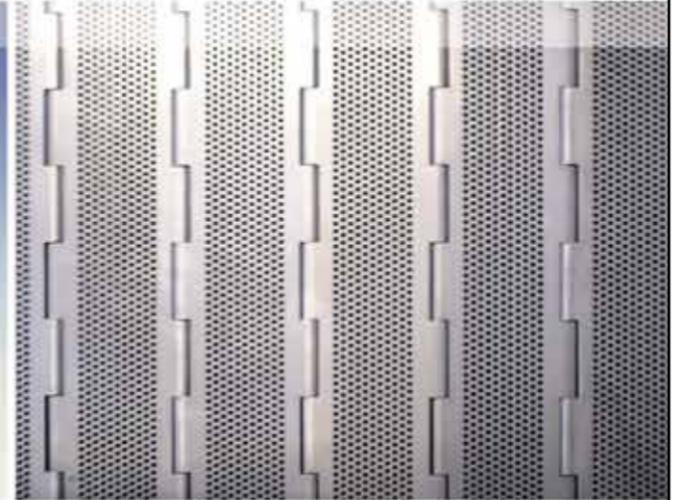
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Are you ready to ship under ISPM15 regulations?



For any UK business shipping goods within the EU, the latest changes to regulations will be a vital consideration. Wooden packaging, including pallets, must now meet ISPM15 standards when being shipped.

This regulation ensures pallets have been treated to eradicate pests and are then stamped to reinforce this action has been carried out. While demand and prices for these types of compliant pallets will be on the rise, there are alternatives to consider. The best alternative to Wooden Pallets, is Plastic Pallets. Plastic Pallets completely avoid the ISPM15 regulations, are more hygienic and reliable, and making the switch now will minimise any potential disruption to your supply chain now that these regulations have come into effect. While switching to Plastic will keep you compliant, Plastic Pallets also offer a whole host of other benefits such as being lightweight & easy to handle, space saving, environmentally friendly, consistent in size and strength, easy to clean and they provide an improved return on investment over time.

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Bradshaw Electrical Vehicles is a leading UK manufacturer and supplier of electric vehicles. As a family-run business since 1960, Bradshaw first began trading as a plant hire company. Since 1976 the company has been supplying industrial electric vehicles to the UK and worldwide markets. Providing solutions for moving materials, products and people Bradshaw Electric Vehicles are robust, reliable, and a safe, efficient and economical mode of transport for a range of industries.



Bradshaw has gained an extensive amount of experience in manufacturing and supplying electric vehicles and is a leading supplier within the industry as well as being the sole UK distributor of Goupil and Club Car, the world's largest manufacturer of golf carts and utility vehicles.

Providing its broad spectrum of electric vehicle solutions for a wide range of different industries, Bradshaw maintains a diverse and loyal customer base. Ramsy Labassi, Marketing Manager at Bradshaw, explained: "We have a broad customer base, since our vehicles can move materials, products, waste, and people, our vehicles span across almost every sector you can think of." Ramsy expanded, "We supply airports, NHS, Manufacturing, line feed, warehouse, logistics waste collection, waste movement, leisure and hospitality, landscape & maintenance, last-mile delivery."



In terms of the company's extensive range of vehicles, Bradshaw's range consists of Tow Tractors and Load Carriers both ride on and pedestrian. "Our extensive range of tow tractors includes narrow width, mid-range, and high capacity tractors, offering load capacities between 1 and 25 tonnes. The load carrier range has a payload up to 3 tonnes, and 6,000kg tow capacity witch quickly and efficiently transports larger loads around sites." Ramsy



continued, "The pedestrian-controlled tow and load carriers are an ideal alternative to areas restricted to conventional vehicles, confined spaces and areas with heavy footfall all offering high-quality performance in a safe and compact design."

Bradshaw is proud to be the sole UK supplier of Goupil Electric Road Vehicles. Adaptive and versatile, the Goupil range is extremely popular for providing vehicles to local authorities, landscape and maintenance, last-

mile and campuses.

"The Goupil G4 has been a popular vehicle with the ability to carry up to 1.2 tonnes. The G2 is the more recent addition to the family, a compact all-electric road vehicle, ideal for sites connected by public highway," Ramsy said.

Looking ahead to the future, Bradshaw plans to continue to expand upon its impressive services and continue

to develop new innovative products for its customer. Ramsy told us that, "We are continuously developing, increasing and improving our product range which is why customer's always come back to us."

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Industry Update is proud to feature RMIG as our Editor's Perforating Company.

As the largest perforating company in the world, RMIG has over a century's experience in the perforation industry. This impressive size and experience means RMIG has a local presence in a range of markets, providing accessible contacts for customers no matter what their query. From RMIG's multiple manufacturing sites, your contact person can make use of an exceptional level of experience in manufacturing and application knowledge.

Given that RMIG's high quality perforated products are supplied to demanding industries, providing quality assurance is of vital importance to the company. Its drive for total quality throughout the business is fundamental to providing continuous satisfaction for its customers, and RMIG ensures it offers effective operational systems implemented in a consistent manner to reflect the needs of both the customer and the business.

With the vision to be 'The Best Choice' for its customers, shareholders and employees, RMIG is dedicated to being an innovative and reliable solution provider in the perforation industry, as well as being recognised as a benchmark for customer service and optimised logistics. This commitment to quality in both manufacture and service has helped RMIG's continued growth for over 100 years, with more successes most definitely on the horizon for the company.

RMIG's perforated sheets can be used effectively within a number of areas, and RMIG has six dedicated market sectors including Industrial Processing, Food Processing, and Buildings and Interiors.

Industrial Processing

Industrial Processing includes a vast range of potential applications for perforated products. RMIG has extensive experience in the chemical, pharmaceutical, paper, and offshore industries, to name a few. From small, high precision perforation in thin materials to large holes in thick sheets used in the mining industry, RMIG has the knowledge, versatility, and tooling to deliver products according to customers' requirements.

One particular area of Industrial Processing is dealing with waste water. The water industry presents a number of unique challenges in the use of perforated products. A key consideration here is the aggressive nature of the water towards the materials being used. RMIG has vast experience in servicing the waste water industry, and produces high flow, burr-free perforated waste water screens, offering accurate screen tolerances and effective separation.

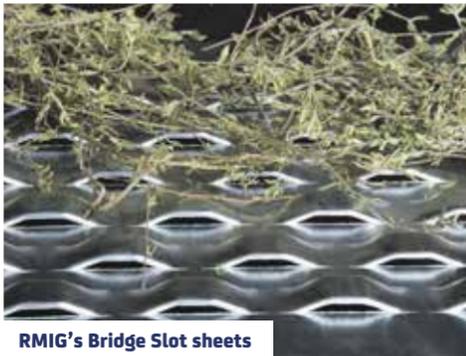
Another area of Industrial Processing is medical and pharmaceutical, where RMIG's perforated materials are able to give firm tolerances during their manufacture, and are well suited for use in sterile environments. RMIG's perforated products also have numerous uses in the petrochemical sector, from industry specific applications such as filtration, to oil and gas exploration, as well as more general applications such as walkways in processing plants.

Additionally, RMIG works with biomass drying applications. The demand for alternative sources of



Skansevejens School

sustainable and renewable energy is always growing. RMIG's Bridge Slot sheets are the most effective way of drying woodchip to an optimum moisture content, ensuring boilers operate efficiently to benefit farming and agriculture.



RMIG's Bridge Slot sheets

The RMIG Bridge Slot sheets play an essential role when it comes to the design and manufacture of biomass drying floors. The combination of sheet thickness and opening size allows RMIG's sheets to be used either as a suspended floor in wood chip drying containers and trailers, or as drive-on drying floors in outdoor buildings. The bridge slot opening size determines the products that can be dried, which range from fine oilseed rape through to larger grains and cereals, as well as logs and wood chip drying.

Food Processing

RMIG's Food Processing market sector meets the high levels of hygiene demanded by the food processing industry. Perforated screens are also strong with important thermal capabilities, making them useful for a wide range of food processing applications. RMIG's tailor made perforated solutions are ideal for cleaning, heating and steaming in food production environments. Whether it's baking trays, cereal cleaning or ingredient conveyors, all of RMIG's perforated materials can be customised for each application.



Screening

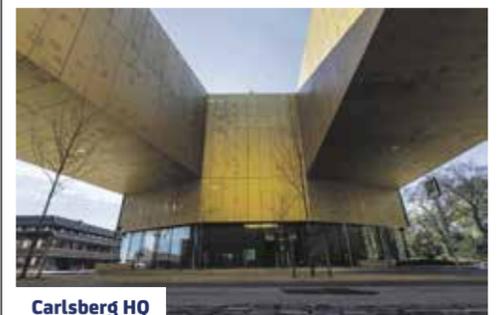


Balcony Panels

Buildings and Interiors

One of RMIG's most exciting market sectors is Building and Interiors, where new perforated materials can stimulate intriguing urban designs across lighting, facades, balustrades, sun screens and ceilings. RMIG's perforated products can create highly innovative lighting designs, and with the company's experience in combining design and functionality, it can easily manufacture solutions to meet your needs.

RMIG can also help create visually stunning facades. Its innovative technologies and materials can capture the passion for creative urban design and realise even the most ambitious architectural projects. Whether it's a perforated, embossed or indented facade or a combination of these, RMIG can guide customers in the benefits and practicality of producing the design. As well as perforating, RMIG can also cut, bend, shape and take responsibility for the finish, including powder coating, galvanising and more.



Carlsberg HQ

So, no matter what your requirement, RMIG has the knowledge, experience, and manufacturing expertise to ensure you get the perforating solution that you need. To find out more information on RMIG and everything it offers, head to the website or get in touch using the details below.

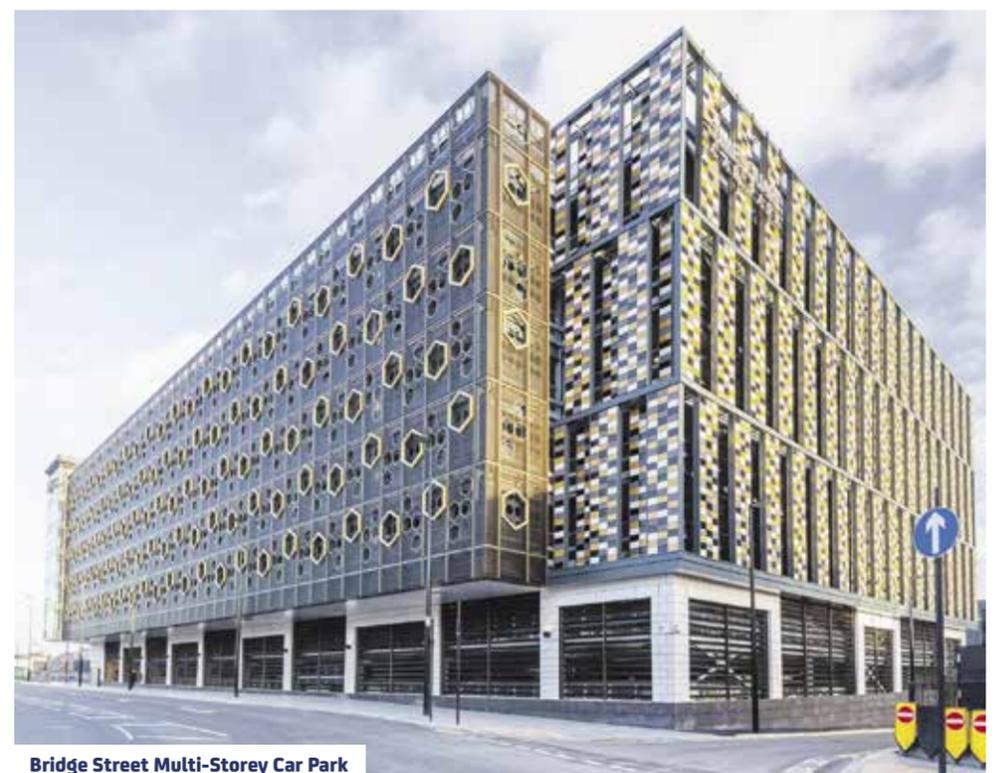
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Lincoln Multi-Storey Car Park



Water treatment



Bridge Street Multi-Storey Car Park

Addressing real challenges in the electrical testing market



Metrel is one of very few companies that develops and manufactures its products at a single location in Slovenia, starting with design and ending with final assembly, quality control and calibration. From its UK office in Epsom, Surrey, Metrel UK supplies its leading range of measuring and testing equipment to customers across the country, as well as providing repair, adjustment and calibration services.

Metrel's extensive range of instruments offer innovative solutions for testing and measuring, ensuring its equipment is easy to use, intuitive and future proof. Many of Metrel's products are software based and use touchscreen technology, addressing the real needs and challenges of end users to create a range of products that will enhance the user experience.

Without a doubt, Metrel is committed to solving the issues workers face every day. "Right now lots of electricians own, and use daily, testers that are capable of storing their test results but find the feature too complicated and long winded to use, because they need to make notes about which circuit and board each relates to which location in the tester's memory," said Brendan Beaver, the UK Manager of Metrel. "They prefer to fill a copy of a certificate by hand and then make a fair copy either in their best handwriting, or by typing it up in a computerised certificate when they get home. What a waste of their time!"

Metrel understands that engineers need to be able to do their testing and save the results and notes on their tester without needing pencil and paper, so that it is ready to send to the depot or to quickly download. This kind of functionality is not available when a conventional LCD screen is the only thing available, as found on an ordinary multi-function tester.

With the introduction of dot-matrix displays from Metrel, an increasing number of users of multi-function testers like MI3152 and MI3155 are realising the advantages of being able to make notes using the touchscreen's full keyboard, eliminating the need for pencil and paper. What's more, the on-board fuse table and connection help screens allied with the pass and fail indicators to give the operator confidence to pass the results to storage.

Metrel's new memory management system is unique. Also benefiting from the dot-matrix touchscreens, it allows the operator to visualise the installation, highlighting components with a coloured icon, which makes it easier to post the results to the correct circuit without writing anything down. This simplicity is continued when the results are downloaded quickly and easily into an 18th Edition certificate via the USB port.

Metrel also offers a dedicated repair service and expert technical support, working with distributors and partners to offer solutions to any problems, to ensure its products are being used correctly and to their full potential.

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Q Electrical Industrial Services Ltd emerges from acquisition

Despite uncertainty with Brexit and COVID-19, the continued growth of new VSD Contract Partnerships and Electrical Projects has led to Quantum Controls acquiring Lothian and Borders Electrical in East Lothian, Scotland.

Lothian and Borders electrical is one of Scotland's leading electrical contractors and through this acquisition Quantum now have a nationwide network of 6 Service Centres and a growing team of engineers providing a range of Electrical Services and solutions across the UK.

2020 was a difficult and challenging year

for all, however as a service business with Key Worker status and over 250 VSD contracts, both companies have been extremely lucky to still be able to support our customers and experience significant growth in these troubled times. This has led to Quantum Controls being awarded the prestigious 'Drive & Motor Company of the Year' award from Industry Update.

The new Service Centre and experienced electricians will provide Electrical services such as:

- ▼ Electrical Contracting Services
- ▼ Electrical Installation in many industrial processes

- ▼ Turnkey projects from design to control panels, PLC programming, SCADA and Installation
- ▼ 10 Variable Speed Drive Service Engineers based in Scotland
- ▼ Electronic Repairs for industrial equipment and Instrumentation
- ▼ Inspection & Testing
- ▼ Power Factor Correction

If you would like to know more about our new services in Scotland, please contact Lyall Colvin, Managing Director.

M 07775 666306
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Are you an EV installer?

The rules on DC fault protection are changing for the 18th Edition*.

Car charging point installation and maintenance are the biggest opportunity for the electrical trade in years.

Metrel testers, and others, can test Type B RCDs.
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* ref 18th Edition 722.533.2.101

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Reduce risk of lightning hazards at work with a lightning warning system

Lightning strikes the ground in the UK around 300,000 times a year, putting at risk those who are often outdoors in exposed, unsheltered locations.

Although there is no foolproof protection from lightning, measures can be taken to reduce the risk of getting struck. With this in mind, meteorological equipment specialist Biral is offering its LTD-200 self-contained, standalone lightning warning system so that

employers can take precautions to prevent exposure to lightning and ensure their workers' safety.

The lightning warning system is a modular system and is design to operate out-of-the-box. It is also expandable as requirements grow or change. The essential system comprises of a lightning detector which is placed outside, while a PC located indoors runs the supplied Lightning Works software.

Users view the lightning in real-time on a map of the local area while displaying the urgent lightning alarm levels. The LTD-200 can be connected directly to an appropriately sized warning sounder if required.

For more information, call Biral on +44 (0)1275 847787 or email: info@lightningearlywarning.com or visit our dedicated website at: www.lightningearlywarning.com



TEL 12(WI) Series

- ▼ Ultra compact 12 Watt converter in DIP-16 metal casing
- ▼ Highest power density of 3.61W/cm³
- ▼ 6-side shielded metal case with insulated baseplate
- ▼ Wide 2:1 and 4:1 input voltage ranges
- ▼ High efficiency (up to 88%) for low thermal loss
- ▼ Operating temperature range -40°C to +88°C
- ▼ Built-in EN 55032 class A filter
- ▼ Protection against short circuit
- ▼ 3 year product warranty



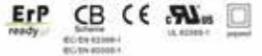
The TEL 12 & TEL 12WI are two series of isolated 12 Watt converters which come in an ultra compact DIP-16 metal package. The design purpose of these series was to miniaturise low power DC/DC converters to the maximum without sacrificing high efficiency. They solidify the new standard for power density with 3.61W/cm³ and effectively double the power density compared to 12 Watt converters in DIP-24 package.

The TEL 12 and TEL 12WI offer wide 2:1 or 4:1 input voltage ranges respectively and feature a high efficiency of up to 88% which enables an operation temperature of up to +65°C at full load and up to 85°C with 50% load. The converters also have an internal input filter to comply with conducted emission standard EN 55032 class A. Overall they feature an economical solution for space critical and cost sensitive applications in instrumentation, IT and industrial electronics.

Contact: Florian Haas
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www.tracopower.com

TMPW Series

- ▼ Wide input voltage range 85-305 VAC
- ▼ PCB and chassis mount versions with JST pin-terminals available
- ▼ Certified according to EN 60335-1 an IEC/EN/UL 62368-1
- ▼ I/O-Isolation 4000 VAC
- ▼ Operating temperature range -40°C to +70°C
- ▼ No load input power <0.1W (acc. ErP directive)
- ▼ High efficiency up to 89%
- ▼ Internal EN 55032 class B filter
- ▼ Protection class II prepared
- ▼ 3 year product warranty



The TMPW series are a set of 5-50 Watt AC/DC modules with an extended input range of 85-305 VAC and are suitable for industrial and household/building technology applications. The 305 VAC (277 VAC ±10%) threshold is derived from a 480 VAC three-phase supply voltage often used in heavy industrial applications. Through the increased voltage level, the drawn current from the load is effectively reduced, which allows for an overall more compact and lightweight design approach.

These modules are available as PCB and chassis mount versions with JST pin-terminals to fit in different application setups. They offer an I/O-isolation voltage of 4000 VAC, a high temperature range of -40 to +70°C and are prepared for protection class II applications. Additionally, an internal EN 55032 class B filter saves valuable board space for an otherwise often mandatory external filter setup. An energy efficient design (<0.1 Watt standby power consumption) and safety approvals according to IEC/EN/UL 62368-1 and EN 60335-1 make these series suitable for a wide range of industrial and household/building technology applications.

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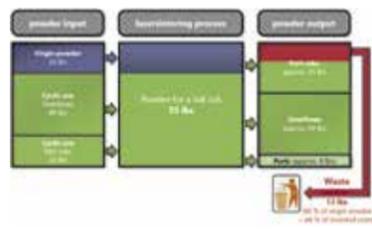
Re-manufacturing sintering material for a closed loop environment

The regular sintering process produces a lot of waste powder; powder that has been exposed to heat multiple times grows in particle size and the particles become too large for the heat of the laser to melt properly which in turn causes surface blemishes and mechanical property variances. Not only is the powder waste an economic annoyance more importantly it is an environmental disaster. The material itself must be refreshed at very high rates of between 33% to 50%.

Not refreshing or refreshing with less virgin powder causes often bad looking surface defects which causes itself inappropriate parts. On average SLS builds yield or consume about 6-8% of the powder in your whole part cake. This means you're losing about 25-40% of the unfilled PA12 powder because suggested refresh rates are around 50% part cake material. A mid-frame machine has an average throughput of about 1kg/h. This means that you create 0.25-0.4kg waste per hour.

Production machines run about 5,000h/year so in the end you get about 1.3-2t waste per machine per year. In financial terms this translates to throwing away about 60,000-120,000EUR per year! You could buy a new machine or add more capacity every three years if these losses were avoided.

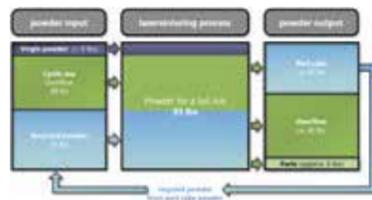
There are other options like material with an improved recycle rate but often the mechanical properties of the regular



State of the Art using PA12 powder (DTM/3D mid frame machines)

material can not be reached by it. When using filled materials or PA11 with low percentages of virgin parts look awful. With some materials no recycling is suggested so you will lose up to 94% of the powder you fill into your system.

This results in a dramatic loss of polymer powder like for example aluminium powder when running the Alumide by EOS. This leads easily to a loss of over 3-4t of powder per year per machine. Running bigger build chamber systems causes waste of over 20 tons each year!



Cyclic use of PA12 powder

The good news is there are options to re-use that powder via GS Pro's proprietary remanufacturing process. Our recycled powders and associated process parameters can even create parts with superior mechanical properties as compared to OEM powders. GSP from Chemnitz, Germany refines the used powder so that it can be used again and again.

There are several ways our refined used powder can be used. It's possible to use refined powder all alone or to create a closed loop of material use and recycling. Instead of mixing in 50% Virgin powder it is possible to reduce the virgin powder amount down to 10-15% by using 35-40% refined powder and then your regular overflow and part cake blend like you are used to. During the past 8 years several customers have established their way to run refined powder on their systems.

Some customers run 100% refined powder mixed with Overflow powder for best surface finish, part quality and mechanical properties. This has the added benefit of eliminating the sifting of Part Cake powder and because our system is a closed loop the part cake gets saved, sent for remanufacturing and the customer has their recycled powder back to use as Virgin powder with nothing going to waste.

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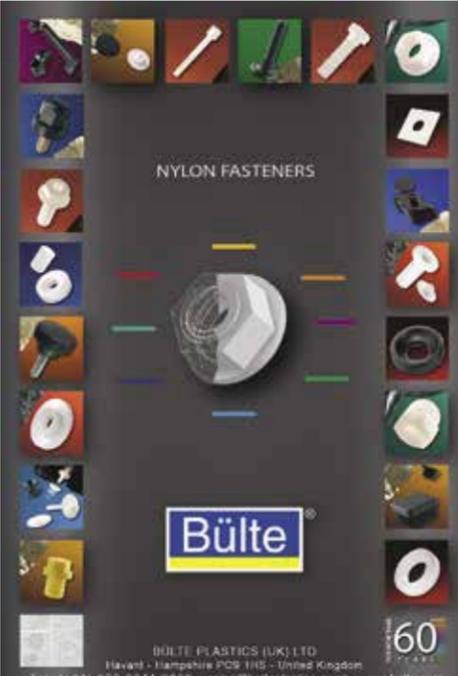
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