

Moulding the Future

Edition

7

The Latest News and Information



NEW SERVICES

Greater precision with our new vertical (VMC) mill

In an effort to enhance the quality of precision components manufactured on-site and meet customers' budget and real-time delivery requirements, Broanmain recently installed a state-of-the-art vertical CNC milling machine in our Dorking manufacturing facility.

Combined with a new ZNC spark eroder system, the Broanmain precision moulding facility now has a full arsenal of equipment at its fingertips to undertake complex projects, test prototypes and take on repeat technical mouldings.

At Southern Manufacturing & Electronics in February 2020, visitors will be able to see and handle real examples of customised industrial devices engineered and made for blue chip multinationals, including one of the world's largest suppliers of life sciences instruments. **(Stand C195).**

The addition of the multi-tasking Hurco VM10i mill furthers our already considerable expertise in designing and manufacturing high quality technical parts used in the

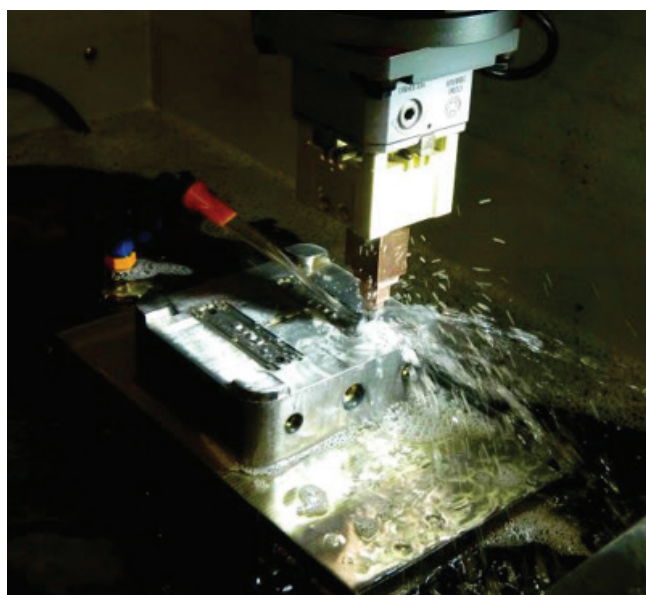


New Services ctd.

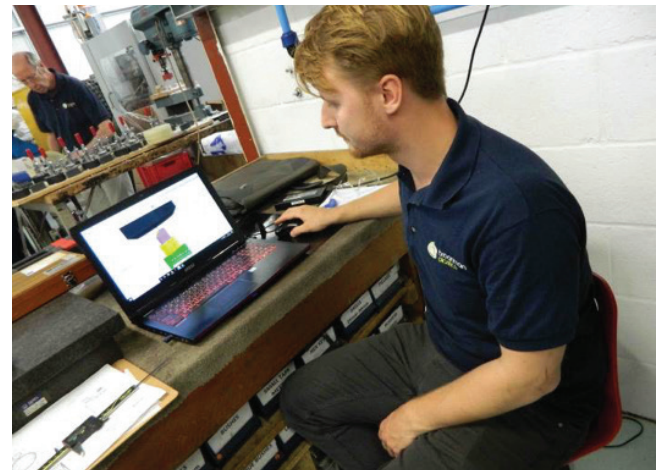
medical, automotive, aerospace and electronics space. Equipped with a 10K RPM spindle and full Renishaw probing system, the mill accomplishes complex and repeatable 3D and 2D geometries and delivers better surface finishes on the most intricate of parts. Accuracy is further enhanced with the assistance of Renishaw's TS27R tool setter and OMP400 part probe.

Rather than outsource the CNC milling process, which in today's fast paced manufacturing environment is commonplace, Broanmain now manages every aspect of production. The team can now be accountable for an entire project, from moulding right through to rapid prototyping and milling precise elements into a part. This increases our flexibility to undertake a wider range of projects, handling materials from polymer to copper, aluminium and other metals. It also enables us to take on in-house prototyping of tooling.

It's why Specac choose Broanmain. As well as overseeing the mould tool development for the company's high performance spectrometer accessory, Broanmain moulds and customises the bespoke part used globally in chemometric analysis instruments.



Kamil Stec, tool room manager, is heading up the development of this side of the business. Kamil can advise customers on the best way to achieve a better surface finish on parts featuring intricate 2D and 3D geometries.



The addition of a spark eroder system earlier in the year enables Broanmain to make precise burns in any conductive material, regardless of hardness. The new sinker comprises adaptive burn control. As well as enabling faster set up, machine parameters can be automatically adjusted to reduce burn time and achieve repeatable results. A common scenario is milling electrodes and modifying features on an existing tool that has already hardened through electro-discharge machining. Removing an embedded metal in a component like broken taps or bolts is another example. This saves customers having to scrap a high value mould tool where a metal has broken off and is embedded in a mould cavity, for example.

By scaling up our precision business, Broanmain is assisting customers like Specac to make further productivity gains and manage inventory more efficiently. Rather than placing bulk orders, Specac orders 100 precision parts a month from us, all of which are finished individually on our new vertical mill.

PVC Flooring



PVC rules for flooring resilience

Is your factory floor looking a little worn? Are you seeking a more robust, hygienic and sound absorbing floor option? Broanmain now manufactures the popular and versatile Trudec interlocking floor tiles, working alongside TilePlans who distribute and install the tiles.

REACH compliant, examples of the Trudec tiles will be on display for the first time at Southern Manufacturing & Electronics 2020. **Visit us on Stand C195 to see them for yourself.**

Safe, hygienic, sustainable and resilient, the versatile interlocking floor tile system enables factories to personalise flooring and add branding. Meeting COSHH workspace requirements, the floor tiles are available in multiple colours and textures to delineate work zones and walkways.

Used in residential construction, commercial facilities and factories, as well as industrial and automotive settings, hospitals, schools and even gyms, TilePlans reports unprecedented demand for this flooring system.

Made from polyvinyl chloride (PVC), TilePlans managing director Colin Wilson credits the current boom in the PVC tile market to technical injection moulding innovation and corporate aesthetics, which enables customers to personalise an entire floor space. PVC also complies with European REACH regulations for flooring.

More forgiving than traditional ceramic floor tiles and a versatile, longer lasting alternative to epoxy coatings and floor paints, the



interlocking floor tile system can be designed to meet the most stringent Health & Safety requirements. *"Available in multiple colours and textures, risk managers and commercial designers can clearly specify designated work zones and walkways to meet their COSHH and localised regulatory workspace requirements,"* notes Colin. *Colour zones can also be used to delineate collaborative workspaces and even add sections of bright colour to raise workforce energy levels and increase productivity."*

Advances in injection moulding and waterjet cutting technologies deliver visual brand aesthetics, workforce notices and clear demarcation lines. As a result of the interlocking tiles, these can be swapped out, moved and interchanged without having to replace an entire floor.



PVC Flooring

Sustainable and maintainable

With sustainability clearly a top consideration in commercial floor coverings, PVC offers greater durability than paint or thin vinyl floor tiles for heavy foothold areas. Being able to stagger the interlock between tiles also means that our customised flooring systems are designed to withstand constant movement of heavy roiling loads by forklift trucks and other industrial vehicles. Should a high traffic area incur significant wear and tear, individual tiles can be swapped out and replaced with minimal investment and disruption to business.



Reground and bio-based plastic materials can also be used within the PVC mix that doesn't compromise the robustness or durability of the tiles' performance. Additionally, when the flooring reaches the end of its lifespan, the tiles are fully recyclable.

For commercial spaces that are prone to spills, interlocking PVC tiles are easier to clean and maintain. Broanmain only uses the highest quality PVC for the Trudec flooring system, which means the tiles are resistant to staining from oils and industrial chemicals, as well as being flame retardant.

Comfort and reducing the impact of sound and vibrations in industrial settings is another important factor TilePlans' customers are eager to address. Colin explains: *"In recent years there's been a real focus on improving workforce welfare. In large open spaces especially, sound reverberates. This has proven to be a distraction and affects productivity. PVC flooring can absorb some of this sound and mitigate many of the acoustic challenges caused by machinery that are prevalent in hard floor environments like factories."*

Broanmain recently added 110, 220, 330 and 550-tonne injection moulding machines to its fleet of injection moulding machinery, delivering increased capacity, tooling and automation. This additional agility enables us to react and flex to customers' bespoke orders and offer greater customisation.

We look forward to seeing you at Southern Manufacturing & Electronics 2020 (11th to 13th Feb) to find out more. Stand C195.



Broanmain Plastics manufactures the unique interlocking PVC flooring tiles, with layouts designed, customised, installed and supported globally by TilePlans

Staff

Directing your enquires to the right expert.

In order to ensure your enquiries to Broanmain are answered most efficiently, please can you update your contact records:



Despatch and delivery enquiries should be directed to monikasiakala@broanmain.co.uk



Accounts questions need to go to accounts@broanmain.co.uk where **Tina** will be able to help out



New Enquiries, Production and Engineering matters are dealt with by our Production Manager, **Thomas**, who can be contacted at thomascatinat@broanmain.co.uk



Please send **quality concerns** to quality@broanmain.co.uk where they will be picked up and handled by either Peter or Andy



Our **SHEQ Manager, Andy Armstrong**, handles items relating to Safety, Health Environment and Quality systems – please use andyarmstrong@broanmain.co.uk to reach him for any non-quality related concern



Kamil Stec handles **tooling work and precision manufacturing**. He can be reached at kamilstec@broanmain.co.uk



Jo Davis is our **Operations Director**, and has responsibility for the day to day running of the business – jodavis@broanmain.co.uk



Wilf Davis is our **Managing Director** – wilfdavis@broanmain.co.uk



Purchase orders and Kanban call offs should be sent to orders@broanmain.co.uk – where they will be handled by one of the orders team.

Company News



We are pleased to welcome Peter Brodrick and Ben Bayly to our support team.

Peter is supporting Andy Armstrong with quality items. Ben is supporting the sales department, and will be helping out with orders enquiries, customer liaison and website and social media.

Don't forget to visit us

We will be at The Southern Manufacturing & Electronics Show at Farnborough from 11 to 13 February 2020. We will be showcasing new projects and services we have working on over the past year, together with launching additional engineering services now available at Broanmain. **Please visit us for a chat and coffee at Stand C195** – this year we will have a bigger space, more of the team with us to provide a better opportunity to discuss any existing work we do for you, or any new projects with customers old and new.



Surrey Care Trust – 2019 Hikeathon

Broanmain once again supported the Surrey Care Trust's Hikeathon. The 2019 route covered five peaks in the Surrey Hills, starting in Mickleham, travelling through Reigate and Brockham.



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