

MACH2026
MILLS CNC
HALL 19 STAND 110



REVVING UP FOR MACH 2026!

Our engine's running. And we're all strapped in and ready to go to make MACH 2026 our best Show yet. And that's saying something.

The 11 advanced and innovative multi-axis and multi-tasking DN Solutions' and Zayer machine tools we're showcasing on our Stand (HALL 19 - STAND 110), along with three high-productivity SYNERGi automation systems, have all been selected to put you in pole position. And keep you there.

Mills CNC at MACH 2026: We're on track for another successful Show. How about you?

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Machine Tools



13 MODELS



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8 MODELS



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Put yourself in pole position



It's all systems go at Mills CNC to make sure that its attendance at MACH 2026 is as successful as it can possibly be for you and for the company.

Mills has thought long and hard about the range and type of technologies it is going to showcase on its stand and, with the focus firmly on advanced multi-axis and multi-tasking machine tools and high-productivity and high-efficiency automation systems, the deliberations are now over and its exhibition product line-up has now been finalised.

11 DN Solutions' machines will be showcased on its stand, including the innovative DNX 2100SB multi-tasking mill-turn machine, an iconic DVF 4000Mk II simultaneous 5-axis machining centre and the recently-launched V6300M vertical turning lathe.



In addition to best-selling DN Solutions' machines, pride of place is also being given to a Zayer Arion horizontal bridge-type milling machine, three different SYNERGi automation systems and a separate, interactive CNC Training Academy 'Work Station.'

As well as machine tools and automation systems, the stand, as always, has an imaginative theme that, once again will delight visitors. Without giving too much away, if you're into F1 and motor racing, you're going to like what you see.

So, visit the Mills stand at MACH 2026 for a grandstand view of its advanced technologies and see how the company can help you achieve pole position and put the competition in your wake.

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MACH2026 - Stand 19-110

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MAY/JUNE 2026 - Features:

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| ■ Automotive Report | ■ Metal Marking |
| ■ 5-Axis Machining | ■ Waterjet Machining |
| ■ Cutting Tools | ■ Press Brakes |
| ■ Measurement & Inspection | ■ Sawing & Cutting Off |

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MACH 2026 to showcase a wide range of solutions, live and in action



MACH 2026, the UK's national event for inspiring, innovating and connecting manufacturing, returns to the NEC Birmingham from 20th-24th April. As the UK's longest-running exhibition of its kind, MACH 2026 brings together over 500 leading exhibitors to showcase the broadest range of manufacturing technology solutions in the country. Its unique scale and scope make it an essential event for the sector, providing a platform for innovation, collaboration and industry insight. The five-day event provides attendees with a perfect opportunity to explore the latest cutting-edge products and services, which can improve the efficiency and sustainability of business operations.

The UK manufacturing industry plays a significant role in contributing to the success of the UK economy. There are over 325,000 small and medium-sized UK manufacturing and engineering enterprises, which are recognised as the backbone of the UK economy. This cross-industry event is specifically designed to address real manufacturing challenges, helping manufacturers navigate through issues such as rising operational costs, skills shortages, supply chain disruptions and geopolitical uncertainty. MACH 2026 offers plenty of opportunities to discover and explore solutions that will help manufacturers remain competitive in this challenging environment.

MACH brings together organisations from across the UK and beyond, attracting professionals from all areas of manufacturing, including design and engineering, production and operations, maintenance and asset management and supply chain management. This creates a valuable network of connections

that operates in a wide range of rapidly evolving sectors, including aerospace, automotive, medical technology, chemicals, agriculture, pharmaceuticals, food, defence, rail and transport.

As the UK's national showcase for the manufacturing community, MACH 2026 provides exciting developments for experienced machinery users to explore. At the same time, it provides those new to the industry with ample opportunities to learn, discover and engage with the innovative and thought-provoking world of manufacturing.

The exhibition offers live technology demonstrations, expert-led insights, and practical, sector-specific solutions. Attendees leave equipped with actionable knowledge and inspiration to enhance their businesses and drive innovation, helping them find solutions to their manufacturing challenges and prepare for the future.

MACH 2026 offers compelling reasons to attend this April. More than 500 exhibitors from across the manufacturing spectrum will showcase their latest innovations live and in action, from automation and robotics through to grinding, sheet metalworking and surface finishing. This will give attendees a first-hand experience of solutions that can enhance

efficiency and performance within their businesses. The event also provides extensive networking opportunities, allowing attendees to connect directly with knowledgeable industry professionals.

In addition, MACH features an inspiring seminar programme led by leading industry experts, offering attendees the chance to gain insights, stay abreast of the latest industry developments and benefit from a wealth of practical knowledge and expertise.

Building on this learning and insight, MACH 2026 will also feature the improved Knowledge Hubs, offering attendees practical guidance and expert advice on the latest manufacturing technologies. Strategically located across the show floor, the Knowledge Hubs will focus on key industry topics: automation and robotics, additive manufacturing and 3D printing, data and AI and machining and tooling.

MACH is owned and organised by the Manufacturing Technologies Association (MTA), which also encompasses a cluster of organisations, including Engineering Supply Chain UK (ESCUK), Additive Manufacturing UK (AMUK) and MTA Training.

James Selka, CEO of the Manufacturing Technologies Association (MTA), says: "Following the success of MACH 2024, the Knowledge Hubs return even bigger and better for 2026. These interactive hubs give manufacturers practical guidance on adopting new technologies, connecting them with experts and suppliers, and providing insights that drive productivity, efficiency and competitiveness."

Register now to get your free pre-reg pack and start planning your visit today:
<https://www.machexhibition.com/>

MTA

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20-24 April **2026**
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Smarter CNC for smarter shops with an emphasis on automation

The theme this year on Hurco Europe's 216 square metre stand at MACH will be 'Smarter CNC for Smarter Shops', emphasising that the company's machine tools are intelligent, intuitive and operator-friendly, so reliance on specialist programmers is reduced.

The company's managing director David Waghorn comments: "Subcontractors are often faced with high-mix, low-volume production requirements and every new job is different. Getting from the initial idea to the finished part in the fastest possible time is the key to maximising profitability. This is where the Hurco product range shows its greatest strength."

As ever, the manufacturer's proprietary WinMax software will be a primary focus, as it is at the core of a user's ability to compress lead-times. Widely regarded as one of the most flexible CNC systems in the industry, it bridges the gap between conversational and G-code programming. Arguably the software's killer feature is the ability to merge the two data sets, enabling complex CAM-generated 3D surfaces to be inserted into a conversational program, or conversational content to be added to an NC program, resulting in a high degree of versatility.

There is much more to the control software, which can be reviewed here: www.hurco.com/gb/products/Pages/WinMax-our-cnc-control.aspx, solid model import being a stand-out attribute. Anecdotal comments from operators on the shop floor highlight another feature that make their life easier, the Interrupt Cycle. It allows the tool to be jogged away from a component so that an insert or the cutting edge can be checked, after which pressing a single button returns the cutter automatically and precisely to the original point to resume the cycle. It is a luxury not found on many control interfaces.

Machine tool exhibits to include new automated production cell

On the stand will be Hurco's first-ever machine tending cell based on a 6-axis industrial robot, which will be offered as a standard package. It will comprise a cantilever-design 5-axis VC500i machining centre equipped with a Kawasaki PC 25 system. It is the first offering to result from the strategic collaboration between Kawasaki Robotics and Hurco that was announced at IMTS 2024. The cell is an automation solution



that combines the additional load-capacity of an industrial robot with easy-to-use, app-based programming at the Hurco control.

The flexible solution allows various pallet, fixture and component combinations weighing up to 25 kg to be delivered to the machine from the heavy-duty rack system. In addition to long production runs, the solution lends itself ideally to the automation of one-offs and small-batches. As the robot is programmed with the same user-friendly Hurco software as is used for the cobots, less than one day's training is required for an operator to become proficient.

Hurco will also be showing a VMX30Ui trunnion-type 5-axis machine and a pair of 3-axis vertical machining centres, a VM10i and a larger VM20i automated with a ProCobot Profeder-X 10-drawer system. CNC lathes, which are a growing part of the company's turnover, will be represented by two driven-tool models, a TM8Mi and a TMX8MYSi, the latter having Y-axis turret motion and a sub spindle.

Under a long-standing agency agreement that has spanned more than 20 years, Hurco Europe has been the exclusive sales and service agent in Britain and Ireland for 3-axis and 5-axis, high-speed machining centres built by German firm, Roeders. To be exhibited for the first time in the UK will



be the RPT450DS EcoSpray, a 5-axis machine capable of milling, jig grinding and measuring. It is able to maintain super-high precision even under variable ambient temperature conditions.

The DS suffix signifies dual support for the swivelling of the rotary table, providing superior stability for 5-axis simultaneous machining, while EcoSpray refers to a patented tool cleaning and minimum quantity lubrication system integrated into the machine.

It will be the first time that any premium line machine from the Roeders RPT range will have been on show in the UK. While the established RXP series was already world-class, the new series features Precitemp technology designed to halve the achievable tolerances, moving from micron-level precision into the sub-micron and nanometre realms.

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MACH2026 - Stand: 19-140



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Discover the next level of intelligent manufacturing

Visit HEIDENHAIN at MACH

HEIDENHAIN is set to make a major impact at MACH 2026 in Birmingham, presenting a compelling portfolio of innovations under this year's theme: "Empower Manufacturing." Alongside its brands, AMO, ETEL, NUMERIK JENA and RSF, HEIDENHAIN will showcase intelligent solutions that push the boundaries of precision, agility and production efficiency for machine builders and manufacturers.

A key focus of the exhibition will be the continued development of the TNC7 control platform, which now offers a wider range of functions and technologies to support even more diverse machining applications.

Explore new TNC7 capabilities

At MACH 2026, visitors will have the opportunity to dive into the latest advancements of the TNC7 control platform through detailed discussions with HEIDENHAIN specialists and dedicated information displays. Attendees can explore how these enhancements bring new levels of control, accuracy and flexibility to modern manufacturing.

Expanding done-in-one machining

The TNC7 now incorporates cylindrical grinding and shaping technologies, enabling users to produce components with extremely high dimensional, geometric and surface accuracy. These capabilities are particularly valuable for industries such as battery cell production, semiconductor manufacturing and precision engineering.

Smarter shaping cycles

New shaping functionality automatically maintains the correct tool orientation throughout machining, making it easier to produce high quality sealing surfaces, precision bevels and decorative finishes used in jewellery, watchmaking, printing and other specialised sectors. The automation reduces programming complexity and ensures consistently reliable results.

Cylindrical grinding made accessible

For the first time, HEIDENHAIN has introduced standardised cylindrical grinding and dressing cycles within the TNC7. These cycles support long stroke and short stroke grinding processes and automatically account for complex machine kinematics. Visitors can learn how this integration

enables efficient optimisation of grinding operations on multi function machining centres.

Enhanced simulation capabilities

The TNC7's upgraded simulation tools now allow fast forward and rewind of toolpaths with full machine kinematics visualisation. This makes program verification more intuitive, improves early error detection, and increases overall process reliability, saving valuable time during prove out and setup.

Introducing the TNC7 go

HEIDENHAIN has developed the TNC7 go, a version of the TNC7 designed specifically for vocational training and machine upgrades. It offers the same intuitive operating concept as the full TNC7 family while focusing on essential core features, making it an ideal platform for skills development or modernising existing machinery.

Robots that understand Klartext

In a significant step toward seamless automation, HEIDENHAIN is introducing a new approach to robotic integration. Users can now operate and program industrial robots directly through the TNC control, without needing separate robot specific knowledge.

Using Klartext cycles and intuitive teach in methods, tasks such as pick and place, deburring, or gripper control can be easily created and managed. With simple Ethernet connectivity and no requirement for complex bus systems, even legacy machines can be retrofitted with ease.

HEIDENHAIN GB Ltd
Tel: 01444 247711
www.heidenhain.com

MACH2026 - Stand: 18-210



More possibilities for done-in-one machining: The TNC7 now has new cycles for shaping, cylindrical grinding and cylinder surface machining.



HEIDENHAIN is teaching robots how to understand Klartext, so that the robots in machine tools can be managed directly through TNC controls.



The new TNC7 go from HEIDENHAIN is an intuitive, state-of-the-art straight-cut control designed specifically for vocational training and machine upgrades.



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on all Hurco 5 axis machines**

Vci/VCXi Range



- Cantilever design allows excellent access
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- Entry-level and high performance models available

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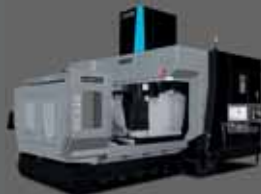
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More than just a machine at MACH

Taking advantage of its stand at MACH, XYZ is out to show the engineering public it is more than just a machine. Exhibiting a wide cross-section of its machine tool range, from the newly launched 400 UMC 4+1 / simultaneous 5-axis universal milling machine, that will allow machine shops to enjoy reduced setup times and increased work part complexity, through to the KMX 2500, which now offers probably the simplest CNC control on the market on the smallest bed mill in the range.



The company will also offer products that have become the go to machines for toolrooms and producers of one-offs and small batches to offerings that can use today's modern tooling with ease and be mated to machine tending systems for maximum productivity. XYZ will have something for everyone visiting the show.



Over the years, XYZ have continually brought products to the market that have allowed workshops to become more productive and efficient. Launching the ProtoTRAK control back in the early 90s this control has gone through a metamorphosis over the years leading to the products that will be on display in 2026. The



KMX milling control for 2-axis turret mills and 3-axis bed mills, offers a great introduction to the world of CNC and is a terrific option for manufacturers of prismatic parts and will be shown on a KMX2000 and KMX2500 respectively.

The RLX and RMX 15" touchscreen versions of this popular CNC control fitted to the companies ProTURN flatbed lathes, bed mills and toolroom machining centres, offers total flexibility. It allows the machines to be used manually or by using the easy to learn conversational software, can be programmed and used as a CNC machines. To produce one-off and smaller batches, the RLX 1630 and RLX 425 products from the lathe range and RMX 3500 and RMX 5000 bed mills on display will illustrate to users the ease of use and productivity gains over manual equipment.

With the recent integration of the RMX control onto the compact 2-OP machine and a number of vertical machining centre carcasses, it has allowed XYZ to create the TMC range. This toolroom machining centre group of products with automatic tool changers fitted, retains the quick programming functionality associated with ProtoTRAK but, allows users to take advantage of the opportunity to "walk away" from the machine for the whole machining process. By adding optional handwheels that allow manual capability and the option to fit through spindle coolant, 4th axis and swarf conveyors, the 750 TMC and 1600 TMC will be demonstrating how investing in this technology can help your business move forward.

The Siemens controlled machines on the stand highlight the differing machine construction methods and the advancing

capability of the XYZ turning and machining centre range. Fitted with Siemens 828D CNC controls, the CT52LR, Linear rail and 65LTY-S, hardened and ground box way, lathes will demonstrate entry level 2-axis turning while the latter shows how XYZ users can move to complex part production with Y-axis and a sub spindle to produce parts complete inside one machine envelope, even offering the ability to run lights out.

The 500LR and 800HD vertical machining centres again encompass differing machine constructions and spindle power options. The new 400 UMC will have its own "workshop" space to highlight the 400 mm tilt/rotary table and making the most of the BBT40 spindle with 35hp. With differing software options available, the 400 UMC can be enhanced from a 4+1 machine configuration to full 5-axis simultaneous at point of sale or after purchase. This capability allows customers to make an informed choice about which setup will provide the optimum machine for the work they undertake.

Enforcing the "more than just a machine" message there will also be a feature on the stand that will allow investors in XYZ products to see how the company can best support users and help to keep spindles running for longer. The feature? Visit the XYZ stand at MACH to find out.

XYZ Machine Tools

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MACH2026 - Stand: 20-160

FANUC

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**MACH
2026**



NEC, Birmingham

Stand 18-449

20 - 24 April

FANUC to showcase next-gen automation & control at MACH

At MACH, industrial automation experts FANUC UK will host a LIVE on-stand demonstration of an automated drilling cell developed by Airbus and incorporating FANUC robot technology. Visitors to Stand 18-449 can also see first-hand a new generation of numerical control, the FANUC FS500i-A CNC, which enables complex manufacturing environments to meet high precision and adaptability demands. In addition, FANUC will showcase its in-house robot system building capabilities, highlighting the benefits of collaboration to manufacturers across a range of industries including aerospace, defence, automotive, utilities and energy supply chains.



FANUC's new FS500i-A CNC offers ultra-fast processing, high-precision control and seamless AI integration.



Airbus' first in-house robotic drilling cell, built with FANUC, features an M-800iA/60 robot controlled by a FANUC CNC.

Collaboration in aerospace automation

The centrepiece of the FANUC UK stand at this year's MACH exhibition is a robotic drilling system built by Airbus with the support of FANUC. The cell employs an M-800iA/60 6-axis robot, as well as a drilling effector controlled by a FANUC CNC and a mobile platform, both designed and built by Airbus. Designed for aerospace components, it has improved drilling accuracy and increased productivity for Airbus, while freeing up human employees to work on more creative and value-added tasks.

"There are numerous benefits to aerospace

manufacturers of automating their drilling applications with the M800iA/60, including improved accuracy and repeatability, increased output and better use of personnel," states Oliver Selby, FANUC UK's head of sales. "The success of the Airbus drilling system demonstrates how important it is to collaborate with a robotics partner that will provide the right experience, knowledge, training and technology to support companies to achieve their commercial aims. We look forward to demonstrating the benefits of this system to MACH visitors."

Superior control to aid innovation

Alongside the Airbus drilling cell, the FANUC stand will also showcase the next level of numerical control. The new generation FS500i-A CNC is more powerful and faster than any other control system and is poised to play a major role in automating complex manufacturing processes. Thanks to its very high computing power and new architecture, it enables increasingly complex movements to be controlled with ultra-precision and perfect synchronisation, while also supporting seamless AI integration.

In-house robot system expertise

Finally, the experienced FANUC team will be on hand to outline the importance of working with the right partner when it comes to futureproofing your manufacturing business. As well as collaborating with machine builders, system integrators and other solution providers, FANUC UK also supports end-users directly, through its flagship automation

headquarters in Coventry. The company is well equipped to offer manufacturers the entire range of automation support to support the transition to digitalisation, from initial feasibility studies and cell design, through to system building, testing and full commissioning.

Oliver Selby says: "As our history of collaboration proves, the right automation partner can take your manufacturing business to the next level in terms of increasing production output, improving accuracy, ensuring quality and mitigating labour challenges. We are excited to showcase to MACH visitors the range of system building services and level of expertise we have on offer to support them."

To discover more about how FANUC UK can futureproof your manufacturing business, visit its stand at MACH.

The FANUC Corporation is a leader in industrial automation, supplying CNC control systems, robots, cobots and production machinery to factories around the world. Since 1955, FANUC has made a significant contribution to the efficiency and productivity of manufacturing companies worldwide. Operating in more than 270 locations globally and serving more than 100 countries with over 9,000 employees, FANUC offers a dense network in sales, technical support, research & development, logistics and customer service.

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STAND 20-260

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5

NEW MODELS

1mm



80mm



Take the next step towards future-ready manufacturing with **Mazak** at MACH

Yamazaki Mazak will unveil a host of future-ready manufacturing technologies at MACH to help UK machine users position themselves for growth.

The company's MACH stand will demonstrate Mazak's complete offering across the manufacturing ecosystem: from the very latest in machine tools and smart automation systems to connected technologies, all of which can operate in unison to help customers take their next step towards increased productivity while remaining secure in their operations.

Nine different machine tools will be on display, many of which will be shown in the UK for the first time. The selection represents the full suite of Mazak's portfolio and includes the company's newest developments for machine tool users searching for both entry-level and advanced Multi-Tasking solutions.

Mazak's MACH stand will give visitors a first glimpse of the latest generation of its highly popular, UK-made CV5-500 5-axis machining centre, alongside a new CV5-700 model with increased workpiece capacity. The CV5-500 offers an accessible entry point for both first-time Mazak customers and 3-axis users with multiple setups looking to transition into fully simultaneous 5-axis work.

Following customer demand for a CV5 model with increased capacity, the CV5-700, also manufactured in the UK, can handle larger workpieces up to Ø700 mm by 450 mm (H) and 400 kg in weight.



For customers ready to transition into more advanced machining operations, Mazak's new UK-manufactured INTEGREX j-200 NEO offers a productivity upgrade for turret lathe users wanting to move beyond turning to integrated milling, drilling and multi-faced machining operations.

Among the machines being displayed for the first time is Mazak's latest high-productivity

turning solution, the QRX-50 MSY. Featuring a twin-spindle, double-turret construction designed to deliver fast ROI and improved margins, it's ideally suited for the production of high-quality turned components and other general subcontract production with medium-to-high batch sizes.

Also making its UK exhibition debut will be the VC-Ez 410 IP 40-taper vertical machining centre. It offers a fast ROI for high-volume manufacturing applications through a combination of class-leading spindle technology, rapid speeds and intuitive machine control.



Mazak's flagship INTEGREX series now includes the latest specialist gear-cutting technology and the INTEGREX i-350 NEO AG, showing for the first time at MACH, will be the first in the new range of INTEGREX i-NEO Multi-Tasking machining centres designed to enhance productivity and lower emissions. The integration of advanced grinding capabilities enables operators to combine turning, milling and grinding in a single setup to reduce cycle times while also improving surface finish and dimensional accuracy.

With demand for more complex automation systems growing among UK machine users, MACH will also host the latest upgrade to Mazak's highly popular Multi Pallet Pool automation system, the MPP 25.

A team of experts will be on hand throughout the exhibition to support customers with their own connectivity, digitalisation and cyber security initiatives, providing insights on a range of emerging challenges including compliance with the upcoming Cyber Resilience Act.

Helping manufacturers optimise productivity through digital solutions, all Mazak machines have access to the Mazak iCONNECT information hub. This includes all key documents, from manuals to machine specifications, as well as important links and updates such as parts information and online training. Through Mazak iCONNECT users can download MAZATROL DX, Mazak's revolutionary software that allows users to simulate machining operations, optimise cutting strategies and generate quotes all from the comfort of the office before a single piece of metal is cut.

Alan Mucklow, managing director UK & national distributors at Yamazaki Mazak, says: "Despite the uncertainty of the past year, MACH 2026 arrives at a time when the UK manufacturing community feels poised for action. Having recorded strong orders in the first months of the year, especially for our extensive portfolio of UK-made machines, we are beginning to see a tangible shift in attitudes to investment plans.

"Our MACH stand will showcase nine different machining solutions, all of which can have a day-one impact on operations. We're excited to discuss their potential with both current and new customers over what promises to be a very engaging week."

Yamazaki Mazak UK Ltd
Tel: 01905 755755
www.mazak.com

MACH2026 - Stand: 20-330



MACH will also host the latest upgrade to Mazak's highly popular Multi Pallet Pool automation system, the MPP 25.



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The value of getting ahead of digital tracking

Digital waste tracking is moving from policy paper to operational reality and manufacturers that still rely on fragmented or paper-based systems risk being left behind as new rules and customer expectations tighten.

A growing number of engineering firms are instead using the shift as a good reason to modernise their waste data, strengthen ISO 14001 systems and achieve measurable efficiency gains.

The mandatory digital waste tracking service will require all controlled waste movements to be recorded in a central platform. All permitted and licensed waste receiving sites will be expected to undertake mandatory digital reporting expected from October 2026.

The intention of digital waste tracking is to close long-standing gaps in national waste data, improve enforcement against waste crime and reduce the administrative burden of today's paper-heavy duty-of-care records. The next phase is planned to extend digital tracking requirements to a wider set of operators, including those arranging and transporting waste from 2027, gradually building a UK-wide view of waste behaviour.

This means manufacturers can no longer treat waste documentation as a low-priority task. As customers, auditors and regulators start to demand consistent digital evidence, producers that cannot disclose where their waste goes and, how it is treated, are going to find it increasingly difficult to meet ESG, ISO 14001 and supply-chain reporting demands.

UK-based industrial waste management specialist, Waste Mission, has more than four decades' experience in metal recycling and total waste management. Waste Mission has long been advising manufacturers to treat digital tracking as part of a broader shift towards data-led environmental management. Waste Mission's work shows that those firms who act early not only find compliance easier but also gain clearer visibility of costs, materials and risks across multiple sites.

Central to this approach is Waste Mission's customer portal, which consolidates information on waste types, tonnages, disposal routes, CO₂ savings and documentation into a single auditable dashboard. This allows manufacturers to access evidence for audits at short notice, generate ESG and ISO 14001 reports and identify trends such as under-performing waste streams or capacity constraints in real time.

Hertfordshire-based Drury's Engineering, part



of the Amcomri PLC Group, offers precision machining and assembly for aerospace, defence and other high-specification sectors. As Drury's prepared for ISO 14001 accreditation and a planned increase in production, the management team was concerned that its existing waste arrangements, particularly around scrap metal and swarf, would not scale.

Like many engineering subcontractors, Drury's generated complex streams of aluminium and non-ferrous swarf contaminated with coolants and oils, which were stored in a large security skip and a series of smaller containers that took up valuable yard space. The company also faced a backlog of legacy waste, including WEEE items and oil containers, which was occupying floor space and complicating audits.

Drury's, a long-standing scrap metal recycling customer of Waste Mission's, asked the team to undertake a full waste review to support its ISO 14001 journey. On-site analysis showed that Drury's could significantly improve both environmental performance and day-to-day efficiency with better segregation, smarter container layouts and improved handling technology. Waste Mission installed a pucking machine to compact aluminium swarf, while separating out coolants and other process fluids. This eliminated the need for a large skip, replacing it with smaller stillages that are easier and safer to handle. It also increased the value of the scrap and made the recovery and reuse of extracted coolant easier.

Waste Mission helped Drury's implement a new internal bin system to separate aerosols, spill-kit contents, oily rags, electrical and electronic waste, plastic swarf and hazardous waste at source.

Drury's also embedded the Waste Mission portal to give managers a clear line of sight across all waste streams, recycling rates and documentation. This provided the evidence needed to demonstrate legal compliance, continuous improvement and effective operational control during external audits.

Within a year, Drury's had secured ISO 14001 certification at the first attempt, with no non-conformances recorded. The new system reduced manual handling risks, freed up space on-site and created additional value from higher-quality metal recycling and recovered coolants.

This combination of on-site technology changes and digital reporting has given Drury's a more robust platform for future production growth. Now, rather than treating waste as an unavoidable by-product, Drury's now uses live data from the portal to schedule collections, respond to audit queries and measure performance.

As the countdown to October 2026 continues, those firms that start consolidating their waste data and upgrading site practices now are likely to find themselves better aligned with both the national tracking service and their customers' expectations. For Waste Mission, waste information is becoming a core element of their customers' business intelligence and something manufacturers can ill afford to forget about.

Visit Waste Mission's stand at MACH 2026 or book a portal demo to find out more.

Waste Mission

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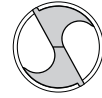
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MACH2026 - Stand: 6-539





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The winning formula

Mills CNC, the exclusive distributor of DN Solutions' and Zayer machine tools in the UK and Ireland and leading supplier of high-productivity and high-efficiency automation systems and solutions to component manufacturers, has announced that it will be showcasing 11 advanced, multi-axis and multi-tasking machine tools and three SYNERGi automation systems on its stand at MACH 2026.

The ten DN Solutions' machines on show not only include a number of models that will be making their MACH Show debuts but also demonstrate the depth and breadth of DN Solutions' machine tool range.

DN Solutions' machines on show

Mills' milling machine tool line-up at the show is impressive and includes three models from the company's best-selling DVF range of simultaneous 5-axis machining centres, i.e., two x DVF 4000 models and a DVF 5000Mk II machine, equipped with the latest FANUC CUFOS or recently-introduced Siemens ONE control system.

The DVF 5000Mk II will be integrated with a multi-level automatic workpiece pallet-changer,

AWC, that significantly increases the machine's productivity and flexibility.

Keeping with the automation theme, Mills will, for the first time ever, showcase a new, large-capacity NHP 5000 horizontal machining centre integrated with a linear pallet system on its stand. This compact and modular multi-pallet automation solution is inherently versatile and helps optimise productivity and process efficiencies.

Other milling highlights include two models from DN Solutions' ever-popular, fourth generation, DNM 3-axis vertical machining centre range, a Siemens-controlled DNM 4500 and a HEIDENHAIN-controlled DNM 6700.

DN Solutions' lathes on show

No MACH show would be complete without at least one Lynx lathe making an appearance and, at MACH 2026, Mills will be exhibiting a 6" chuck Lynx 2100SYA, Y-axis, sub-spindle model with driven tooling, on its stand in close proximity to an ultra-productive 10" chuck/81 mm bar capacity TT2100SYB twin-turret/twin-spindle turning centre with dual Y-axis capabilities.

Both machines provide component manufacturers with proven multi-tasking, one-hit machining capabilities ensuring fast, small part processing completed in one setup. The lathe line-up is completed with the new, heavy-duty 18" chuck Puma (PV6300M) vertical turning lathe equipped with driven tooling.

DN Solutions' mill-turn machine on show

Two high-performance multi-tasking mill-turn machines, it is anticipated, will prove irresistible to MACH Show visitors.

A new DNX 2100SB entry-level mill-turn machine, first launched to wide acclaim at Mills' 'The ONE SHOW' Technology Event in October 2025, will be rubbing shoulders with a proven, larger-capacity SMX 2100STB.



The 10" chuck DNX 2100SB, with its advanced FANUC CUFOS control, is equipped with two built-in spindles, a 12,000 rpm B-axis milling spindle and a large-capacity (60 tool) ATC, and is ideal for machining small batches, quickly, without the need for frequent tool change operations.

The SMX 2100STB is a well-established multi-tasking mill-turn machine from DN Solutions' best-in-class SMX series. The 9-axis machine is equipped with two opposing spindles and a B-axis milling spindle, 12,000 rpm.



ZAYER Machine Tools

Mills will showcase a powerful, large-capacity multi-tasking ZAYER ARION horizontal bridge-type milling machine on its stand. The machine's bridge and RAM configuration will be on show.

The box guideway ARION boasts 2,000 mm distance between columns, a 24 kW/6,000 rpm, high-torque, spindle and rapid rates, 30 m/min. The machine's rigid design and construction combined with its large capacity work envelope and travels, plus choice of milling heads and control systems, make it ideal for processing large and complex aerospace, automotive, rail, power generation components and mould and die applications.

SYNERGI Automation Systems

SYNERGi automation systems deliver outstanding productivity and process efficiency benefits to customers and can be integrated to DN Solutions' lathes, machining centres and mill-turn machines to create fast and flexible automated manufacturing cells.

Powered by Mills' proprietary SYNERGi software, these automation systems are constantly being developed, refined and improved to meet customers' specific manufacturing and production requirements.

In a purpose-built AUTOMATION HUB/ZONE on Mills' stand, three advanced, innovative and uniquely configured SYNERGi workpiece load/unload systems, in addition to the latest, next generation, 3D machine vision solutions incorporating AI technology, will be unveiled.

CNC Training Academy

In a separate part of Mills' stand, the CNC Training Academy will be showcasing its latest digital twin technology solutions as well as the range of CNC, FANUC/CUFOS, HEIDENHAIN and Siemens, programmer and operator and CAD/CAM training courses it provides.

Tony Dale, Mills CNC's Group CEO says: "MACH is an important marketing event in our calendar. Once again, we're pushing the boat out this year's MACH Show and, with an emphasis on automation and multi-tasking processing, will be showcasing 11 machine tools and three SYNERGi automation systems from what is the largest stand at the event.

"As expected, considerable time and effort has been expended not only in getting the right blend and balance of technologies being exhibited, but also in designing a stand that will capture the imagination of visitors.

"I think we've achieved both with flying colours."

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Friction welding: A proven technology driving the next generation of manufacturing

Friction welding has become one of the most important joining technologies in modern manufacturing. As a solid-state process, it delivers welds of exceptional integrity without ever melting the parent materials. Instead, frictional heat and pressure create a plasticised interface that forges components together at a temperature below their melting point. This avoids porosity, cracking and distortion and enables the joining of dissimilar metals that would be incompatible using conventional fusion welding.

These advantages have made friction welding a preferred choice in safety critical and high-performance applications. From aerospace blisks and automotive drive shafts to energy systems, medical devices and heavy-duty axles, the process consistently delivers repeatable, high strength joints with minimal post processing. As manufacturers seek improved efficiency, reduced waste and more sustainable production methods, friction welding continues to grow as a technology aligned with modern engineering needs.

Rotary Friction Welding: A legacy of innovation

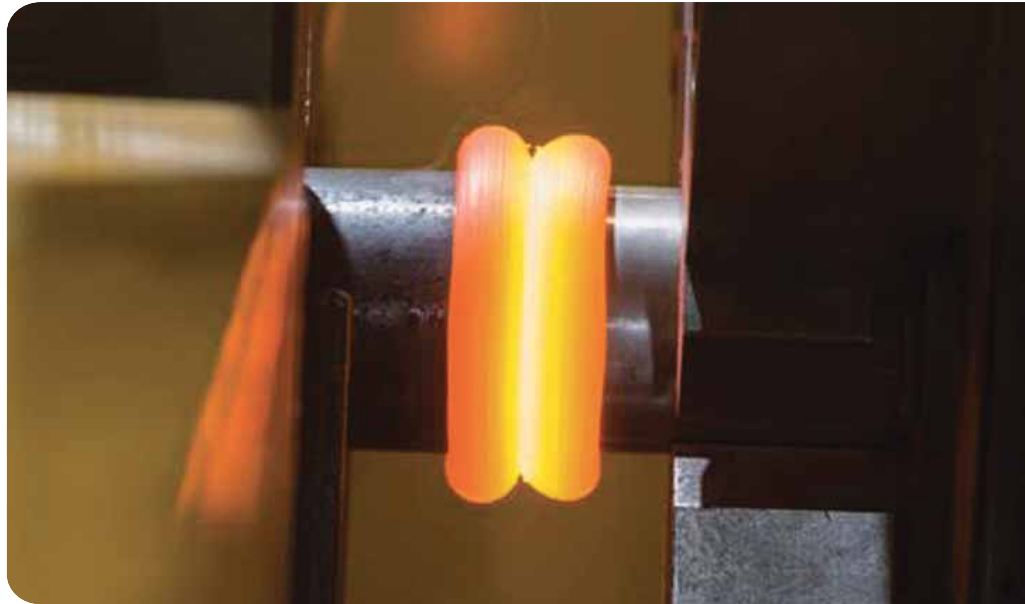
Rotary Friction Welding (RFW) is the most established form of the process. In RFW, one component rotates at high speed while the other remains stationary. As the two faces are brought together under axial force, friction generates heat and softens the interface. Rotation stops, a forging force is applied and a fully consolidated, defect-free joint is formed.

Few companies have shaped the development of RFW as much as KUKA Systems UK Ltd, home of Thompson Friction Welding. With over 500 machines supplied worldwide, the company has built a reputation for reliability, precision and engineering excellence. From its Birmingham base, KUKA continues to manufacture Thompson-branded rotary friction welding machines as part of its global portfolio, carrying forward more than half a century of engineering heritage.

Visitors to MACH 2026 will be able to see this technology in action. KUKA will exhibit rotary friction welding on Stand 18-530, offering engineers a close-up view of the process and its capabilities.

Linear Friction Welding: Unlocking new possibilities

Linear Friction Welding (LFW) has emerged as a



Rotary Friction Welding process.

transformative technology for complex geometries and high value components. In LFW, one component is oscillated linearly at high frequency while the other remains stationary. As the parts are pressed together under a large forging force, frictional heat softens the interface. Oscillation stops, forging force increases, and a fully forged joint is produced. The process is ideal for non-axisymmetric parts and delivers exceptional fatigue performance.

KUKA Systems UK is one of the few companies globally and the only one in the UK, producing LFW machines on an industrial scale. With machine capacities ranging from 20 tonnes to more than 300 tonnes, KUKA's LFW systems support demanding sectors such as aerospace, defence and energy. The process has been industrially deployed for near-net shape manufacturing, where material savings and structural optimisation are essential. In aerospace, LFW is a key technology for blisk production, joining blades to disks without the metallurgical compromises associated with casting or machining from solid.

Friction Stir Welding:

Affordable, high performance joining

Friction Stir Welding (FSW) is another solid-state process that has gained widespread adoption. In FSW, a rotating tool with a profiled pin is plunged into the joint line between two components. As the tool traverses along the seam, frictional heat and mechanical stirring plasticise the material, creating a continuous

forged joint. Because the material never melts, distortion is minimal and weld quality is consistently high.

KUKA Systems UK has expanded its portfolio with a range of FSW machines designed to be both technically advanced and cost effective. These systems are suitable for aluminium alloys and steel, thanks to KUKA's development of robust FSW head units capable of welding high strength ferrous alloys. This opens opportunities in automotive structures, battery trays, rail vehicles and shipbuilding, where traditional fusion welding may introduce unwanted heat affected zones or distortion.

With RFW, LFW and FSW available from a single UK manufacturer, KUKA Systems UK offers one of the most complete friction welding portfolios in the world.



A dissimilar metal weld.

Subcontract welding services:

Expertise on demand

Alongside machine manufacture, KUKA Systems UK provides subcontract friction welding services for customers requiring prototype development, batch production or overflow capacity. The company produces more than 100,000 welds per year across a wide range of industries, supporting everything from early-stage R&D to full-scale production.

A major strength of this service is the availability of onsite metallurgical and quality assurance expertise. KUKA provides weld evaluation, macro examination, hardness testing and process validation to ensure every joint meets the required performance standards.

For more detailed investigation, it also has access to Scanning Electron Microscopy (SEM), enabling high resolution analysis of weld features when required. This comprehensive capability gives customers confidence that their components are produced to the highest levels of integrity and consistency.

Subcontract welding allows businesses to access world-class friction welding capability without the need for capital investment. It also provides a route to validate designs, prove processes and build confidence before



Friction stir welding of steel.

committing to machine acquisition. For many customers, subcontract welding becomes a long-term partnership that supports ongoing production needs.

Partnering with KUKA helps businesses enhance quality, productivity and automation capability. Whether through machine supply, process development or subcontract welding, the company brings decades of expertise and a proven track record of delivering robust, repeatable joining solutions.

Driving the future of solid-state joining

As manufacturers face increasing pressure to reduce waste, improve efficiency and deliver higher performing products, friction welding stands out as a technology that meets these

challenges head on. Its solid-state nature, ability to join dissimilar materials and suitability for both high volume and high value applications make it a compelling choice for modern engineering.

For engineers looking to explore the next generation of joining technology, a visit to KUKA's stand (18-530) at MACH 2026 will offer a valuable opportunity to see these capabilities in action.

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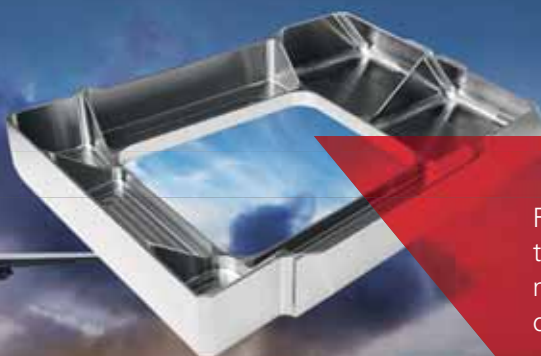
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Starrag present full portfolio at MACH

At MACH, Starrag will showcase a range of new technologies not yet seen in the UK. With numerous exciting innovations introduced over the past 12 months, the Starrag stand at the UK's premier event will be packed with cutting-edge developments.

At the Birmingham NEC, Starrag will showcase everything from new machine technologies to its virtual showroom platform. The centrepiece of the stand will be the impressive new Bumotec 191neo machine, highlighting its versatility with a demonstration of a complex medical device.

Destined to be an attractive proposition for MACH visitors, the Starrag Bumotec 191 turn/mill centre has earned the nickname 'Swiss army knife' due to its versatility and the three small letters added at the end of its name indicate a further development of the top model from Switzerland.

A comprehensive machining solution, the Bumotec 191neo allows manufacturers to produce parts from bars or blanks using next-generation linear motors, seven axes and three spindles with five simultaneous axes and up to 90 tools. This versatility will be demonstrated at MACH with the 'air cutting' of a complex medical turbine component that requires no fewer than 16 tools, demonstrating a plethora of simultaneous multi-axis machining operations. The new model combines concentrated expertise within a very ergonomic housing. Its large glass panels and strategically positioned access doors provide a clear view of the various areas of the machine and improved access for operators, which will appeal to MACH visitors eager to witness industry-leading innovation up close.

Designed for stable production with minimal operator intervention, the new 191neo features an upgraded HMI touchscreen interface with a Windows-based PC and a host of additional automation options. The progress of ongoing machining operations, programming setup, or production monitoring can be tracked in real time. Overall, the turn/mill centre is intuitive and easy to learn, providing a clear advantage in a job market where highly skilled personnel are in short supply.

Starrag supplies this production centre in versions with vice 'P', multiple vice 'PRM' and counter spindle/vice combination 'RP' with bar capacities of 42, 50, or 65 mm. The variant on show at MACH will be the counter spindle 'R' machine with the retake spindle that collects parts for secondary rear end operations. The



Bumotec 191neo is not just a single machining solution, but twelve different machines on one platform. It is only with this variety that the specific requirements of typical users from medical technology, the luxury goods industry, and micromechanics can be optimally met both economically and technologically.

Customer requirements can be met thanks to the modular design. Different peripheral devices, such as temperature-controlled high-pressure systems, chip conveyors and bar loaders, are available. Users can machine numerous complex and demanding workpieces in a single setup because the Bumotec 191neo can not only turn, mill, grind and polish, but can also handle less frequent machining operations such as gear hobbing and diamond cutting.

While the compact Bumotec 191neo takes centre stage at MACH, Starrag's recent innovations also include larger machines that are too substantial to showcase at an exhibition. The new Dörries VT 28 vertical turning centre can machine heavy components up to 17 tonnes, with a maximum diameter of 2.8 m and height of 2.65 m. This multifunctional,

high-precision vertical turning centre offers a class-leading torque of 11 kNm with 98 kW on the main S1 drive, suitable for aerospace, power generation and offshore sector applications.

Equally impressive is the new Heckert X-series of 5-axis machining centres. Developed by Starrag's HPMS (High Performance Machining Systems) division, the Heckert X-series includes the smaller Heckert X50 and the larger X70, X80 and X90 models, offering improved work envelopes and capacity.

These machines have a 20 percent smaller footprint than their predecessors while providing improved productivity through 80 mm diameter ball screws and rapid traverse rates of 80m/min. The modular construction kit approach enables customers to tailor optimal machining solutions with tool magazines that hold up to 600 tools and payloads of two tonnes.

At MACH, Starrag will also showcase its latest innovations from its wide-ranging portfolio of high-performance, solution-oriented machine tools, including the extensive Bumotec turn/mill product lines that can now be explored in the company's virtual showroom:

<https://showroomvud.starrag.com/>

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MACH2026 - Stand: 19-320

4-axis chip-breaking takes productivity to the next level

MACH 2026 will be the first major UK exhibition at which Citizen Machinery's patented Low Frequency Vibration (LFV) chip breaking will be demonstrated with 4-axis simultaneous capability. While the functionality made its debut at the turn-milling machine supplier's open house in Brierley Hill last October, the event in Birmingham this April will provide a first opportunity for a wider audience to see the new technology in action.

Citizen rolled out its original LFV chip-breaking functionality to international markets more than a decade ago. Integrated into the operating system of the control driving the axis motions of Citizen Cincom sliding-head lathes and, more recently, selected Miyano fixed-head models, it is designed to break stringy swarf into manageable chips. Distinct from programmed chip-breaking macros offered by other suppliers, LFV synchronises high-frequency vibration in the direction of the cutting feed with spindle rotation to create intermittent air-cutting to break long swarf effectively.

Today, the technology has been developed to

enable the function to be programmed to start and stop in four separate axes at the same time, the X and Z movements of both the main and sub spindles. 4-axis LFV is a major step forward, as it greatly enhances flexibility, reduces cycle times and eliminates operational bottlenecks, since there is no need to stop the machine to remove tangled swarf, however complex the program. It is particularly advantageous during lights-out production when working with malleable materials like copper, some stainless steels, aluminium, titanium, nickel alloys, lead-free eco-brass and plastics.

Application engineers at Citizen Machinery are always on hand to assist in optimising machining strategies and several specialists will be present at MACH 2026 to provide advice. Notably, at the show there will be five turn-mill centres with 4-axis LFV. They will include three new Miyano fixed-head lathes, a BNJ-51SY7, a BNX-65MSY with workpiece unloader, and an ANX-42SYY also with an unloader.

The other 4-axis LFV models will be sliding-head Cincoms, a brand new L32-X series 2 and an M32-VIII that combines the speed of a



gang tool post with the versatility of a 10-station turret. Both machines, along with the Miyano models on show including a BNE-65 with automatic tool change, are capable of superimposed machining with up to three tools in cut simultaneously, significantly reducing cycle times.

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MACH2026 - Stand: 20-260

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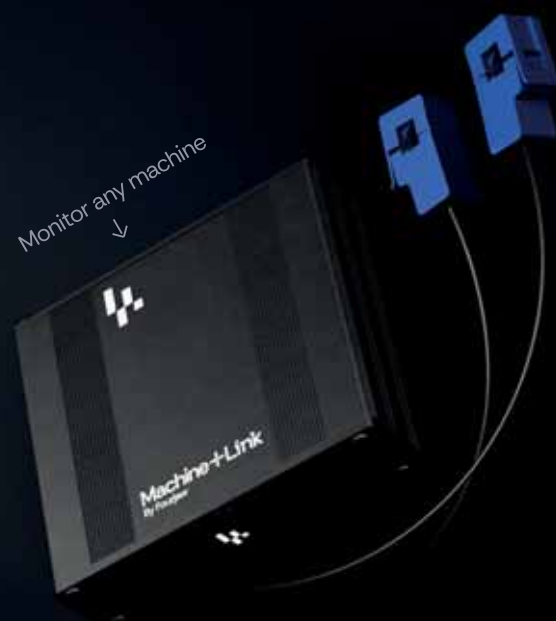
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Horn to stress the economy of its sintered chip-breaker geometries

There will be a display of no less than 20 new or recently introduced cutting tool products on Horn's 232 sq m stand at MACH 2026. The emphasis will be on the manufacturer's range of carbide inserts with chip-breaking geometry pressed accurately, repeatably, at high speed and therefore economically into each green blank before it is sintered.

It saves the expense of having to painstakingly laser-cut or grind the feature into the insert after it has been hardened, which until now has been the norm with miniature inserts due to the difficulty in pressing a reliable, effective chip breaker into such a tiny blank without it warping or losing precision when heated in a furnace. Now that these issues have been resolved, it is notable that the prices of the new Supermini type 105 GM, geometry moulded, boring system inserts, for example, are similar to those of standard inserts without geometry.

As with previous machined chip breakers, the new sintered types avoid the drawback of long, stringy swarf coiling around the tool or workpiece and potentially causing damage to both. The inserts are intended for boring and internally threading components having small holes down to 4 mm in diameter.

Horn developed teardrop-shaped carbide blanks for the tool, enabling large, precise contact surfaces in the toolholder and resulting in greater rigidity of the overall system. Furthermore, the teardrop profile prevents the insert from twisting, which leads to consistent, precise positioning of the centre height of the

tool. When using long tool overhangs, it reduces deflection and minimises vibration during turning.

The inserts are offered as standard in carbide grades TH35 and IG35. They are compatible with numerous 105 toolholders, including round shank, square shank, interface and adjustable versions. All sizes allow internal coolant supply directly to the cutting zone. Overall, the tool portfolio includes around 2,500 different standard variants of the Supermini.

Threading tools

At the EMO 2025 exhibition in Hannover, Horn expanded its Supermini 105 system further with six economically-priced GM insert variants for high-end chip control when turning metric ISO internal threads in partial profile. MACH 2026 will provide a first chance to see them in the UK.



The chip breaker geometry generates short lengths of swarf, even with difficult-to-machine and malleable materials, reducing the risk of chip jamming and preventing swarf from wrapping around the tool. The inserts are suitable for producing metric internal threads, in a hole diameter of 5 mm and above, with pitch sizes from 0.5 mm to 1.5 mm. Standard Supermini system toolholders may be used.

Tools for deep axial grooving

Featured also on the stand will be Horn's robust Mini 114 product family, with larger, face-mounted inserts designed for face grooving to depths of up to 10 mm. The user does not need to use a special toolholder, as the insert is compatible with the existing axial



holder. As standard, Horn offers the EG55 carbide grooving tools in three different types from stock with cutting widths of 2 mm, 2.5 mm or 3 mm.

The face-screwed inserts of the Mini system are one of Horn's core products. Paired with low-vibration carbide toolholders, the 114 inserts with ground chip-breakers produce good surface finish even with long overhangs and ensure excellent process reliability. The precision tools have proven particularly effective for boring and internal grooving, as well as for face grooving.

On show also will be the Mini 111 insert with sintered I-geometry chip-breaking, whose primary application is finishing where the depth of cut is shallow. In these scenarios, traditional inserts often fail to break the chip, but the I-geometry forces it to snap into small pieces. To support fine finishing, Horn offers the inserts with corner radii from 0.05 mm to 0.2 mm from stock.

Boring is possible in holes from 11 mm diameter and when paired with Horn's solid carbide toolholders, the cutters can achieve high-quality surface finishes even with long overhangs.

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MACH2026 - Stand: 6-210



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CLAMP ONCE - MACHINE COMPLETE

Tool handling and workholding innovations

Roemheld will launch the Elmo RW 850, a compact addition to the company's line of mould and die changing carts, designed for environments where space is at a premium. Unlike larger models in the range, the 850 variant is especially manoeuvrable. With its tight turning radius, it is able to negotiate narrow aisles and cramped production floors that often make changing injection moulds and punching dies arduous or logistically difficult.

Movement of the cart is electrically powered under manual control. What sets the Elmo apart is its integration of ergonomic safety measures and precision control. It features an electro-hydraulically actuated scissor lift with precise height adjustment and a table equipped with hydraulic ball bars, allowing near-frictionless positioning of tools weighing up to 850 kg. For security, the table has protection rails around the periphery and the ball inserts automatically lower during transport, ensuring the tool sits firmly on the table.

While Roemheld's RW range is for entry-level mould and die changing, where the operator manually slides the tool onto the machine bed, its Quick Die Change (QDC) range features integrated push-pull chain drives for medium to heavy tools. At the touch of a button, these systems grasp the tool and pull it into position, and push it out again after use, removing the need for physical effort from the operator.

An example from this range will be on the stand in the form of a station that can be loaded ergonomically with a tool from the front or from either side. All QDC systems enable manufacturers to handle smaller batch production more economically, while significantly reducing strain and injury risks.

Handling equipment for assembly

Featured also will be Roemheld's ModuHub equipment. Its primary function is to provide a standardised platform for manual production where workpieces can be positioned, clamped and moved with high precision. Using a plug-and-play approach, the system allows manufacturers to quickly swap out different modules, such as rotating units, tilting stations and height adjusters, to suit the specific ergonomic and technical needs of a project.

ModuHub is engineered for Industry 4.0 integration. It often features integrated ducting for power, compressed air and data, ensuring that the workspace remains free from external cabling. Connectivity allows the equipment to communicate with control units, facilitating



real-time monitoring of clamping pressures and positioning data. For businesses looking to scale, it offers a future-proof solution that balances human-centric ergonomic design with the efficiency of a highly connected, automated environment.

Workholding for machining

Making another appearance will be the Hilma.UC 125, a mechanically-operated, self-centring machine vice designed for high-precision 3- to 5-axis milling. The modular workholding station features a design that allows easy tool access from all sides, enabling the use of short cutters for increased accuracy.

The system utilises two individual jaws that travel simultaneously toward the centre to clamp workpieces with a force of up to 52 kN. Precision is maintained through a central bearing that ensures every component is located within ± 0.01 mm repeatability, while an active pull-down mechanism prevents the

workpiece from lifting once secured.

The Universal Clamp (UC) is capable of accommodating a variety of prismatic and round geometries. Its modular concept includes numerous jaw options up to 125 mm wide and an opening that can be extended to 600 mm, which is among the largest available on the market.

To prevent base distortion, the vice employs separate tensioning and adjustment spindles so that clamping forces are not applied directly to the base. For mounting flexibility, the Hilma.UC 125 can be secured directly to a machining table or integrated into a zero-point clamping system using optional adapter plates.

Further workholding products

Demonstrating the German manufacturer's diverse range of products for securing parts for machining, Roemheld will also have on its stand a variety of powered swing clamps, which are either hydraulically or electrically actuated. They function by rotating a clamping arm over a workpiece and then pulling down to secure it and are primarily designed for use in automated production environments. The arm swivels completely out of the way when retracted, leaving the work area unobstructed for loading and unloading.



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MACH2026 - Stand: 6-450

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From data to decisions

Optimax showcases the power of AI-enabled quality control at MACH

At MACH 2026 Optimax will display the role of Artificial Intelligence (AI) in the manufacturing process. Going beyond industry hype, demonstrating how integrating world-leading technologies, especially in autonomous visual inspection and high-resolution 3D metrology, advances the inspection process from simple data collection into autonomous, real-time decision-making, releasing valuable resource to focus on making, rather than checking product. The showcase will feature two technologies which, when integrated, provide the "holy grail," finding, detecting and measuring, all in one robotic solution.



Intelligent visual inspection finds defects

The CORE+ automated AI system is a ready-to-use tool for defect detection. Combining traditional machine vision techniques, such as automated lighting, deep learning 2D and 3D imaging and intelligent robotic planning, to generate an inspection solution fit for most industrial environments. The high speed six-degree robotic arm and rotary table provide rapid, accurate movement.

The perfect solution for combining the detection of assembly integrity and damage, complex shapes and surface finishes are accommodated. Uniquely, for a defect detection system, the CORE+ allows CAD model programming and creating complex inspection routines directly from the digital twin, adapting to part variations, these systems reduce the "false rejects" often plaguing traditional automation devices.

Precision 3D measurement quantifies defects

Having identified a defect, 4D InSpec® is an optical 3D surface gauge that is automatically able to quantify, surface, edge, ding, scratch, dents, rads, dot peen, rivet depth and corrosion, measurements on complex components and replaces subjective attribute inspection, currently manually performed by an inspector.

The 4D InSpec's unique edge break measurement capability measures the subtle planes of adjacent surfaces and the chamfer or radius itself in three dimensions. The system provides micrometre-level resolution to precisely quantify and analyse a wide range of critical surface imperfections in less than one second. Managing common and problematic defects like dings, scratches, pits, dents, burrs, marring, radii, dot peen depth and rivet depth alongside broader surface finish deviations, such as corrosion.

"The industry doesn't need more data; it now needs fast, robust, automated decision making" says Pete Clements, managing director.

"Whether it's the adaptive learning of our visual inspection systems, or the precision insights of 4D, we are showing that AI is a practical tool, improving the integrity of decisions and allowing redeployment of resource on the making, rather than checking, of complex products in the manufacturing environment."

A comprehensive metrology range

Beyond Integrated Automated QA solutions, Optimax brings together a curated suite of world-leading metrology solutions designed for the rigours of modern manufacturing. Visitors can explore a full spectrum of inspection capabilities, from the sub-nanometre roughness analysis of Bruker Alicona 3D Metrology to the precision profile projectors and systems of Starrett Metrology. Its exhibit also features the ergonomic high-definition inspection products



from Vision Engineering and the critical internal-access clarity provided by Hawkeye Video Borescopes. Together, these technologies provide an integrated approach to quality, ensuring every internal and external feature is measured with absolute confidence.

Sustainability through precision

While intelligence leads the conversation, sustainability remains a vital supporting theme. Optimax positions metrology as a practical tool for the green transition. By achieving "first-time-right" measurements, manufacturers can reduce scrap, rework and unnecessary energy consumption. Optimax's solutions provide a clear path to lower-carbon manufacturing.

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MACH2026 - Stand: 18-630

MAPAL to present new tooling innovations and solutions at MACH



Leading tooling experts MAPAL will be attending MACH and highlighting its latest and most innovative 2026 products and solutions.

Over the week, MAPAL will provide customers from the aerospace, automotive, E-mobility and fluid power sectors with pioneering

solutions for a wide range of challenging machining processes.

Visitors can experience a powerful lineup of advanced tooling solutions designed to meet the growing demands of modern manufacturing. The spotlight will be on several new innovative tools that have been engineered for higher productivity across a wide range of applications.

Among the many highlights to expect is the OptiMill-Uni-HPC, the third generation of the MAPAL solid carbide milling cutter. Optimised for automated manufacturing environments, this high-performance tool delivers outstanding cutting efficiency, making it ideal for demanding machining operations.

Also to be featured is the new milling cutter NeoMill-16-Finish, developed and designed to meet the toughest requirements for surface finish and dimensional accuracy in the series production of steel and cast materials.

The new NeoMill-16-Face proves an economical tool for pre-machining milling applications, ideally suited for machining cast and steel parts. Equipped with 16 cutting edges on the indexable insert, it enables exceptionally low costs per part while maintaining stable and reliable machining processes.

Also on show is the NeoMill-Alu-Rough, a powerful milling solution developed specifically for roughing aluminium components. Tailored to the requirements of the automotive and aerospace industries, this tool delivers maximum effectiveness and productivity, even at very high chip volumes.

A focus within fluid power and hydraulic manufacturing sectors will be two new spool bore solutions. A pilot drill with three or five cutting edges for different casting properties, enabling efficient and highly economical component piloting, reducing machining steps and saving tool changes. While the three-lipped core drill is used for stable raw parts, the option with five cutting edges offers precise results at high feeds in unstable casting conditions.

Like the pilot drill with three cutting edges, the solid carbide boring tool with three cutting edges is based on MAPAL's patented multi-chamfer technology. This ensures clean chip removal and no ring formation in the cavities due to special bore geometry, including at drilling depths up to 10xD. Targeted internal cooling also achieves a long tool life and increases process reliability. The fine boring solution to finish the bore can remove the need for any subsequent honing operations saving both time and cost for the customer.

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MACH2026 - Stand: 20-340



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NCMT marks new chapter at MACH 2026 with brand refresh and advanced machine technology

NCMT will be exhibiting at the UK's premier manufacturing and engineering showcase, MACH 2026. Located on stand 19-130, NCMT will present two significant machine technologies. There will be a UK debut of a Makino machining centre, which will be officially unveiled on the opening day of the exhibition. Alongside it, the Okuma MULTUS U3000 2SW 1500 will be running live demonstrations throughout the show.

The MULTUS U3000 2SW 1500 is a highly versatile multi-tasking machine designed to reduce lead times through part consolidation. Combining full 5-axis milling capability with high-performance turning, it enables complex components to be completed in a single setup, improving accuracy while reducing handling and work-in-progress.



While advanced machining technology will be central to the stand, MACH will also mark the formal public launch of NCMT's refreshed brand a considered evolution that reflects the business as it operates today.

With more than 60 years of history, NCMT has played a key role in the adoption of CNC machine tools across the UK and Ireland, a legacy reflected in its name, Numerical Control Machine Tools. The refreshed brand has been developed to better express NCMT's position as an experienced, technically capable and solutions-led engineering partner, while maintaining the continuity, relationships and reputation built over decades.

Jonathan Smart, managing director of NCMT,

says: "Launching our refreshed brand at MACH 2026 is a significant moment for NCMT. It reflects the business we are today, engineering-led, solutions-focused and firmly committed to supporting customers for the long term.

"At MACH we will bring that to life, not only through our updated brand identity, but by showcasing advanced technologies from our partners Makino and Okuma.

"We look forward to welcoming customers and partners, both longstanding and new, to stand 19-130 to discuss how we can support their next phase of manufacturing growth and development."

The decision to launch the refreshed brand at MACH 2026 has been deliberate. As the most important machine tool and manufacturing technology exhibition in the UK and Ireland calendar, MACH provides a natural platform to present NCMT's heritage, current capability and future direction together.

Maja Foster, head of marketing at NCMT, adds: "This refresh is an evolution rather than a revolution. Our values, partnerships and commitment to customers remain unchanged. What we have done is create greater clarity and consistency in how we communicate who we are and how we work supporting stronger collaboration and deeper, long-term relationships with our customers."

Ian Horton, sales director at NCMT, states: "MACH is a key date in our calendar to meet face to face. With customers, partners and suppliers all in one place, it provides an efficient and valuable opportunity to engage directly with the wider market and strengthen relationships across the industry.

"For our sales and engineering teams, it creates dedicated time to explore customers' next stage of growth and development, understand production priorities in depth and demonstrate our refreshed direction while identifying the right technical and commercial pathways together."

The refreshed brand underpins NCMT's next phase of growth, reinforcing confidence,



stability and continued investment in engineering capability, service and customer support.

Multi-tasking powerhouse to run live demonstrations

NCMT will also be exhibiting the Okuma MULTUS U3000 2SW 1500 at MACH. This highly versatile multi-tasking machine is designed to dramatically reduce lead times through part consolidation. The machine will be running live demonstrations on the stand and NCMT team members will be on hand to answer questions.

The MULTUS U3000 combines full 5-axis milling capability with high-performance turning, allowing complex components to be completed in a single setup. The machine is equipped with twin spindles (2SW) and a lower turret, enabling simultaneous machining operations and significantly improved throughput.

Maximum turning diameter is approximately 650 mm, with a maximum machining length of 1,500 mm, making the platform suitable for a wide range of aerospace, energy, automotive and precision engineering applications. Both main and sub-spindles deliver high torque and speed stability, supporting heavy roughing as well as fine finishing.

The milling spindle features a B-axis with ± 120 degrees of rotation, allowing complex angled features to be machined without re-clamping.

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MACH2026 - Stand: 19-130

Contract-ready precision: Automating AS9102 compliance with the LVC400

In the high-stakes world of aerospace, medical and automotive subcontracting, the "First Article" is a critical hurdle between winning a contract and starting a production run. For many shops, however, the First Article Inspection Report (FAIR) remains a manual, labour-intensive bottleneck. Recording dozens, sometimes hundreds, of dimensions by hand is not only slow; it introduces a significant risk of "fat-finger" data entry errors that can lead to costly rejections.

To bridge this gap, Vision Engineering's LVC400 fully automated 3-axis video measuring system is designed to transform the inspection department from a friction point into a data-driven engine.

Compliance with standards like AS9102 requires meticulous documentation of every design requirement. LVC400, powered by the intuitive MetLogix M3 software, simplifies the all-important dimensional verification process: simply create an inspection program and produce a tolerance report.

By utilising the system's automated stage and pattern recognition, subcontractors can

measure complex features across a 400 mm x 300 mm x 200 mm volume in a fraction of the time required for manual metrology. More importantly, the system captures this data digitally. Instead of transcribing results into an Excel spreadsheet, the M3 software exports "Actual vs. Nominal" data directly into CSV or Excel formats, allowing for the near-instant population of FAIR templates.

For a Tier 1 or Tier 2 customer, the quality of the report is as important as the quality of the part. The LVC400 provides a tamper-proof digital audit trail, ensuring that every measurement is repeatable and verifiable. This level of technical rigor gives subcontractors a massive competitive advantage during the tendering process, positioning them as a partner capable of meeting the stringent quality management requirements of the modern supply chain.

Beyond compliance, the LVC400 addresses the industry-wide skills shortage. Once a measurement routine is programmed, "walk-up-and-use" functionality allows lower-skilled operators to execute the



inspection and generate the necessary data, freeing up senior quality engineers for higher-value analysis and process optimisation.

See the LVC400 at MACH

Vision Engineering invites you to see how the LVC400 can accelerate your path from "First Article" to full production. On stand 19-630, its team will be providing live demonstrations of automated measurement workflows and digital data exporting, showing you exactly how to break the inspection bottleneck and secure your next big contract.

Vision Engineering

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Email: enquiries@visioneng.co.uk

<https://www.visioneng.co.uk>

MACH2026 - Stand: 19-630

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- **Solve Skills Gaps:** "Walk-up-and-use" functionality frees your senior engineers for high-value tasks.

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AT MACH 2026

Don't let inspection hold back your production run. Join Vision Engineering for live demonstrations of automated workflows and digital data exporting.

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- **Where:** MACH 2026, NEC Birmingham
- **When:** 20th - 24th April
- **Stand:** 19-630

Or, book your demo at your site.

Get in touch at :

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Guhring to showcase new innovations at MACH



Guhring will showcase a wide selection of new and established cutting tool solutions at the MACH exhibition, running from 20th to 24th April. Visitors can find Guhring at Stand 362 in Hall 20, where the emphasis will be firmly on practical enhancements in CNC productivity, reliability and day-to-day machining efficiency.

Rather than using technology for technology's sake, the tools on display are designed to help CNC users machine faster, reduce downtime and achieve more consistent results shift after shift.

Fast, reliable aluminium machining

As aluminium components continue to increase in significance across sectors such as E-Mobility, aerospace and transportation, Guhring will use MACH as the UK platform to launch its new RF 100 AL solid carbide end mills. The RF 100 AL range has been developed specifically for



high-speed CNC machining of aluminium and other non-ferrous materials, enabling users to push cutting parameters confidently. In practical terms, this means significantly shorter cycle times, material removal rates up to 76 percent higher than conventional end mills, cleaner surface finishes that help reduce secondary polishing and better burr control, supporting smoother part flow and automation. The standard RF 100 AL range covers diameters up to 25 mm, while the RF 100 AL Micro offers

tools from 0.5 to 3.0 mm diameter and cutting lengths of 2.5XD and 5XD.

For micro-machining applications where tool failure is not an option, the RF 100 AL Micro combines an ultra-thin Carbo+ coating with Guhring's GühroJet internal coolant system. This ensures reliable chip evacuation, improved tool life and greater confidence when operating machines unattended.

High feed milling

For shops looking to maximise output from modern machining centres, Guhring will introduce the GHM high-feed milling system at MACH. Available in diameters ranging from 16 to 80 mm, the GHM range is designed to remove metal quickly while keeping cutting forces.

From a production perspective, the benefits include higher feed rates without sacrificing stability, lower vibration which helps protect spindles and prolong machine life and reduced tooling costs thanks to double-sided inserts with four cutting edges per side.

The GHM cutters are available in Weldon shank, shell mill and screw-in versions, making them easy to integrate into existing setups. With two insert geometries and a choice of HiPIMS-coated grades, the range covers everything from steel and stainless steel to cast iron, titanium and superalloys.

Cost effective drilling

Additionally, the new GMD indexable drilling range will be on display, designed for users who require consistent hole quality in high-volume production. Covering diameters from 14 to 60 mm and drilling depths from 2XD to 5XD, the GMD drills provide reliable centring and hole precision, even at higher feed rates, along with long tool life supported by sturdy, nickel-plated

bodies and HiPIMS-coated inserts. The range also offers lower inventory costs thanks to the use of indexable inserts instead of solid tools. This makes the GMD range well-suited to CNC drilling operations in steel, stainless steel, cast iron and more demanding alloys.

Thread milling for consistent results

Guhring will also present the latest generation SC™ Z SP full-profile thread mills, designed to enhance both productivity and thread quality. Covering sizes from M3 to M20 with thread depths up to 2.5XD, the range allows complete threads to be machined in just two revolutions. The unequal flute spacing and spiral design help to reduce vibration, enabling higher cutting parameters while maintaining precision.

Made from a wear-resistant carbide grade and finished with Guhring's Sirius coating, the SC™ Z SP tools provide consistent threads and reliable tool life especially important in automated CNC environments.



Practical support and special tooling

Alongside the standard product ranges, Guhring engineers will be available to discuss special tooling and application-specific solutions. Designed and manufactured at Guhring's Birmingham facility, these tools are typically aimed at reducing cycle times, improving consistency and lowering overall cost per part. Visitors can also explore Guhring's PCD and micro tool portfolios, covering everything from high-volume non-ferrous machining to ultra-precision CNC applications.

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MACH2026 - Stand: 20-362

CERATIZIT revolutionises SG cast iron milling with S Power

Indexable insert systems for high-productivity machining

Central to the display of CERATIZIT's advanced indexable insert milling systems at MACH will be the MaxiMill S-Power. The specialist face milling solution for cast iron machining features an innovative 88° setting angle that enables a maximum number of cutting edges on the milling cutter diameter. This enables the MaxiMill S-Power to overcome common cast iron machining problems such as excessive tool wear, burr formation and workpiece edge fractures.

The MaxiMill S-Power's double-sided indexable inserts with eight cutting edges deliver optimal performance with a smooth cutting action, while the innovative double wedge clamp ensures quick, secure insert

changes. Available in diameters from 56 to 125 mm, the system is ideal for machining cast components with maximum depths of cut up to 8 mm. Incorporating peripherally ground indexable inserts ensures precision machining tolerances with outstanding surface quality.

For more than 100 years, CERATIZIT has been a pioneer in the field of sophisticated hard material solutions for machining and protection against wear. The private company, with registered offices in Mamer, Luxembourg, develops and produces highly specialised cutting tools, indexable inserts, rods made from hard materials and wearing parts. The CERATIZIT Group is a leader in various application segments and successfully develops new carbide, cermet and ceramic grades, such as for wood and stone working.

With over 7,000 employees at more than 30 production facilities around the world and a sales network with over 50 branches, CERATIZIT is a global player in the carbide industry. The company's international network includes subsidiary Stadler Metalle and joint venture CB-CERATIZIT.



CERATIZIT is constantly investing in research and development and holds more than 1,000 patents. Innovative hard material solutions from CERATIZIT are used in various sectors, including mechanical engineering and tool making, in the automotive and aerospace industry, in the oil and gas industry and in the medical sector.

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MACH2026 - Stand: 19-340



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Unison to showcase all-electric tube bender at MACH

One of the most popular, most versatile all-electric tube bending machines manufactured by UK-based Unison Ltd will take centre stage on the company's stand at MACH.

The machine in question, one of Unison's ultra-precise Breeze 50 mm models, is a favoured choice among aerospace and automotive component manufacturers, furniture and handrail makers, HVAC systems specialists and general fabricators who require the highest levels of reliability, repeatability and accuracy.

"When we were considering which of our tube bending machines to bring to MACH, the Breeze 50 was the obvious choice, thanks primarily to its incredible versatility," says Unison's UK sales manager, Luke Gibson. "Developed especially for companies that want maximum flexibility and ease of programming in tube bending, the 50 mm Breeze, like the majority of machines in Unison's all-electric Breeze range, is available in both single- and multi-stack versions. Moreover, multi-radius capability, generous clearance under the bend head and substantial carriage-push and mandrel pull force are additional features that

ensure there are very few tasks it can't handle."

Just like all Unison Breeze tube benders the 50 mm machine is controlled by Unison's proprietary Unibend CNC, a control system widely recognised as the industry leading tool for precise tube and pipe manipulation. Regularly updated to ensure Unison customers benefit from maximum efficiency, simplicity and productivity in their tube and pipe bending operations, the latest iteration of the Unibend control offers performance enhancements in the region of 25 percent compared to previous tube manipulation cycle times, depending on materials being bent, the number of and complexity of bends and individual manufacturing strategies.

Other machine tool technologies on display on Unison's stand, will include one of the company's manually operated and CNC-controlled EvBend 1000 precision tube bending machines, a Pneufarm 3D rotary head wire bending machine and a Cross Series flat sheet metal fibre laser cutting machine from



Unison's sister company, Nukon Lasers UK. Demonstrations of Unison's advanced Opt2Sim Scan tube measurement system will also take place throughout the event.

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MACH2026 - Stand: 20-550

Engineering the edge of performance at MACH

At MACH 2026, KYOCERA SGS Precision Tools will showcase how advanced tool geometry, coating technology and application engineering combine to deliver measurable productivity gains in demanding machining environments.

Visitors to Hall 17, Stand 228 will see how optimised carbide tooling and high-performance PVD coatings support stable, repeatable machining of heat-resistant superalloys, hardened steels and complex aerospace components. The focus will be on high-efficiency roughing, dynamic milling strategies and advanced finishing techniques that improve surface integrity while reducing cycle time.

At the centre of the stand will be a precision-engineered showpiece, an intricate blade manufactured using advanced multi-axis



machining strategies. Produced in collaboration with key industry partners, MAZAK and Openmind, through the careful alignment of machine tool performance, tool design and CAM optimisation, the component reflects the balance between aggressive material removal and refined surface finish control.

Damian Ward, sales director at KYOCERA SGS Precision Tools, comments: "When tooling and machining strategy are fully aligned, manufacturers unlock significant improvements in process reliability and performance. MACH is an opportunity to demonstrate practical engineering solutions that deliver real-world results."

Visit KYOCERA SGS Precision Tools at MACH 2026 in Hall 17, Stand 228 and discover performance at the cutting edge.

KYOCERA SGS Precision Tools is a global ISO9001:2015 certified manufacturer of industry-leading solid carbide cutting tools. The company is proud to have pioneered some of the world's most advanced cutting tool technologies, resulting from rigorous product, coating and material testing within its Global Innovation Centre.

It has manufacturing sites in the United



States and United Kingdom and the KSPT European Headquarters are in Wokingham, Berkshire, UK. The European office specialises in bespoke and modified tooling, which means it finds design tooling solutions to optimise your manufacturing performance.

The company offers a range of high-performance end mills, routers and drills with its core offerings including standard catalogue tools, modified tools, special tools, regrinds and coating service.

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https://kyocera-sgstool.co.uk/

MACH2026 - Stand: 17-228

Engineering the future of flexible manufacturing



Fastems supplies intelligent automation and digitalisation solutions for high-mix-low-volume CNC manufacturing. It is an open integrator and a family-owned business with 40 years of automation experience, close to 5000 installations and main markets in Europe, North America and Asia. Its mission is to help metalworking manufacturers improve their productivity and profitability.

Fastems' main application fields are milling and turning machining automation, always equipped with our industry-leading production planning and execution software MMS. The company has solutions for automating the production and resource planning of stand-alone machine tools. Systems are supported with a wide range of services.

Customers manufacture small-to-medium batch sizes and have usually variability in

production mix and/or volume. They work in various industries from general to special machine building, fluid technologies, aerospace, die & mold, gears & motors, energy, special automotive, heavy vehicles, construction & mining, agricultural machinery. Customer size varies from small SMEs to large enterprises.

Fastems have solutions in:

- Pallet handling solutions from entry-level to complex enterprise solutions.
- Robotic automation solutions from entry-level to complex enterprise solutions.
- Cutting tool automation, tool data management and tool transfers.
- Robotic cells, finishing, deburring and measuring.
- Lifecycle services.

Fastems designs each system for seamless integration into existing production environments, allowing manufacturers to modernise without replacing their entire machinery base.

Fastems' competitive advantage is built on advanced control software that extends beyond physical machine automation to include automated production planning, execution and

resource management, enabling thorough optimisation and waste reduction in flexible high-mix, low-volume manufacturing environments. In cutting machine tool automation, Fastems complements this capability with a broad solution portfolio supported by comprehensive lifecycle services.

A defining advantage is the intelligence of Fastems control software: Manufacturing Management Software (MMS). Rather than focusing solely on machine automation, MMS connects data, scheduling and resource tracking to optimise entire production flows.

This control software enables manufacturers to take control of their production resources like raw materials, NC-programs and tools and creating a constantly-updated production execution plan that optimises utilisation while ensuring all parts are delivered by the due date.

Fastems

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MACH2026 - Stand: 18-659





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Ten sliding-head lathes in five years transform production efficiency

Established in 1995, toolmaking, metal pressings and plastic injection moulding services provider TWP Manufacturing Group, Tipton, started making a range of proprietary products after the financial crisis of 2008 to build business resilience. They include photographic studio and darkroom equipment, gardening items such as wheelbarrows and spiral security anchors. Most of the items that go into them, including stamped metal platework, milled components and moulded plastic parts, are produced in-house and assembled into the various products, together with a large variety of turned parts that historically were mainly sourced from suppliers in the Far East.

That changed in May 2020 with the purchase at auction of a Japanese-built, CNC sliding-head turning centre, a Citizen Cincom M32 that was 19 years old at the time. The twin-spindle, 32 mm capacity, bar-fed lathe, equipped with a tool turret, a gang-type tool post and a back tool post for reverse-end machining, brought in-house about half of the outsourced turned parts production.

Fast-forward five years to the spring of 2025 and the number of such machines on the shop floor had risen to 10, all pre-owned and mostly of similar age. Not only had all the previously subcontracted turn-milling work long since been repatriated, but a turned parts

subcontracting business had also been established that now accounts for 30 percent of the firm's £4.2 million current annual turnover.

Five years ago, income was £2.5 million per year, which means that business has increased by more than two-thirds in that time. Notably, during the same period the headcount has decreased by 20 percent, to 28 staff, so earnings per person employed has jumped by more than double.

Phil Stanley, joint owner of TWP together with partner Richard Perry, says: "Our relationship with Citizen Machinery UK has been brilliant since the start. Despite our repeated purchase of used machines, nothing has been too much trouble for them over the years.

"They were there for us when we installed the first M32, helping with advice and early programs. If the assistance from their engineers had not been forthcoming, we would not have been able to progress.

"The support we have received all the way through each of the 10 lathe installations, including refurbishment and realignment of the machines, has been second to none."

Four months after the first Cincom arrived, a second Citizen sliding-head lathe of the same bar capacity was acquired, an L32 equipped with exclusively gang tooling and the facility to eject shaft-type components through the sub

spindle. It proved ideal for producing a main component in one hit for the gear shift lever of a Lotus car. Virtually every other component that comprises the assembly is also produced in-house.

To provide extra capacity, bring down lead-times and allow TWP to introduce just-in-time manufacturing procedures, a second M32 was purchased in May 2021. By this stage, all turn-milled parts production had been insourced. It also allowed the manufacturer to get ahead with forward orders and gain new business.

With the aim of transferring sub-12 mm diameter parts production from the 32 mm capacity sliding-head turning machines to more appropriately sized, nimble lathes, two B12 Cincoms arrived in August 2022.

The following year, in June and August respectively, Citizen delivered two 20 mm capacity Cincom L20s, enabling work to be allocated more efficiently across the shop floor.

Wishing to produce components from larger bar up to 64 mm diameter, Phil Stanley opted for a triple-turret lathe from Citizen's other product line, Miyano. An early job put onto the machine compressed into a single operation the manufacture of a high-strength 6082 aluminium T6 cable link for the Lotus gear shift. Before the machine's installation, the maximum bar diameter that could be processed in the Tipton factory was 55 mm.

Most recently, following the clearance of a storage room to provide additional manufacturing floor area and the relocation of various machines, two additional Cincom models were added in February and April 2025, both M32s.

Despite the Citizen lathes all being second-hand, which allowed TWP to buy them without the need for finance, the Citizen lathes work like new machines, according to Phil Stanley.

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Viking turns to Mazak to create a dedicated turning facility

Viking Precision Engineers Ltd has invested £1.6 million in a dedicated turning facility equipped with four Yamazaki Mazak Quick Turn 250 lathes. The new facility is built on the strength of Viking's customer relationships, which include long-standing contracts with London Underground and its track record in the aerospace sector.

These four turning centres, which are the latest investments in Viking's near 36-year partnership with Mazak, join the existing Mazak machines at the company's CNC milling machine shop at its Middlesex headquarters. The first facility has ten machines, including a VARIAXIS i-500 5-axis machine, two VCN vertical milling machines and three FJV machining centres that were acquired to manufacture large aerospace workpieces.

The new dedicated turning shop has been built to help Viking diversify its machining capabilities into smaller turned parts, says Richard Bec, Viking's production manager: "The Quick Turn machines were purchased to grow the business into high volume, smaller component work that requires a turning solution. We're now running 24 hours a day, seven days a week.

"Many of these smaller, high-precision components are tribology-based parts used in advanced testing equipment for lubrication and friction systems. These intricate components play a key role in solutions that support innovation in the sustainable and reusable energy sector, an area of growing importance and strategic focus for Viking Precision Engineers."



The QUICK TURN series of industry-leading CNC turning centres is manufactured at Mazak's European Manufacturing Plant in Worcester. Known for their high-rigidity construction and built-in motor spindle, the machines deliver exceptional precision and reliability. Viking Precision's new QUICK TURN 250 MSY models further enhance capability with integrated milling, a second spindle and Y-axis functionality, enabling complex, multi-tasking operations in a single setup.

Viking's decision to make Mazak its preferred supplier has made the move into high-volume turning work much easier. Richard Bec continues: "We have one machine supplier and one control software, which means operators can go from one machine to the next. Operators on our 4-axis and 5-axis Mazak machines can quickly go into the new facility if we need help there. Everybody can support a consistent workflow because they are familiar with the Mazak operating system."

Alex Turner, works manager at Viking, says the Mazak machines are a real selling point, particularly for the aerospace sector: "Aerospace customers have been to the facility and seen the Mazak machines, which

gives them peace of mind that we can do the job. We can do the larger sections in our original facility and then over in our turning shop we can machine much more intricate parts with really tight tolerances. We've got real flexibility with the bigger Mazak machines and the smaller turning centres.

Mazak have looked after us and we've been loyal to them. We've been able to grow and add capability over time, with 4-axis machines, large workpieces, long shaft workpieces and now turning. The breadth of the Mazak range means they've got a machine for practically every application."

Alan Mucklow, managing director UK & national distributors at Yamazaki Mazak, states: "Viking are one of many valued customers who have built a long-standing relationship with Mazak, reflecting years of collaboration, trust and shared commitment to engineering excellence. It is fantastic to see four of our UK-made turning centres helping another British business succeed at the very highest level and we look forward to working with Alex, Richard and the wider Viking team for many more years to come."

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Manufacturing solutions for turbine housings

In the aviation and energy sectors, turbine manufacturing companies rely on Starrag machines because they are among the most powerful and precise solutions the market has to offer. This applies not only to the manufacture of engine blades and blisks, but also to turbine housings. Decades of experience have gone into the wide range of Starrag machine tools to offer solutions for the entire manufacturing process.

The housings and casings for aircraft engines, steam and gas turbines are available in small and large sizes. They are becoming ever more complex and are increasingly made from materials that are difficult to machine. This usually requires several processing technologies, ideally combined in one machine or in flexible manufacturing systems. Thanks to its wide range of machines, Starrag can meet all requirements.

The Starrag STC series covers a large area of turbine casing machining, with its various sizes and designs capable of handling casing diameters up to 3.3 m. The machines are predestined for economical 5-axis heavy-duty machining of sophisticated casings made of titanium and Inconel.

For machining smaller casings, Starrag can offer the Heckert X series in MT design. They allow high-precision turning and milling on one machine. The 5-axis X variants of this compact series add another option: The positioning axis in the rotary swivelling table is ideal for angled holes, as are often required in casings.

Suppose the huge steam and gas turbine housings with diameters of up to 12 m need to be machined. In that case, Starrag can rely on correspondingly large Droop+Rein portal machining centres, which are built at Starrag Technology GmbH in Bielefeld. The large vertical Dörries lathes, which are also used for steam and gas turbine housings, are also produced there. Vertical turning and grinding is

also the speciality of the Berthiez machines from the Starrag plant in St. Etienne, France, which are mainly used in aircraft construction.

For ultra-precision machining on casings, for fine boring and milling as well as precision grinding, Starrag has the SIP horizontal or vertical jig boring machines, which are produced in Vuadens in Switzerland.

The Bumotec CNC turning/milling centres, which produce small, high-precision and complex parts in five axes and with accuracies of just a few micrometres, also come from this plant. In the production process of casings, they are used for components to be mounted, such as injection nozzles.

The UK subsidiary TTL, which handles maintenance, repair and overhaul (MRO) tasks, plays a vital role in the turbine housing sector. Specialising in Siemens NX CAM, a tool commonly used in the turbine industry and as a process developer for adaptive milling, TTL is the ideal partner for maintenance and repair of

other concomitant circumstances. They ensure faster machining and have a longer service life than standard tools, an important contribution to a stable, repeatable process.



casings. After build-up welding and precise milling, the costly housings are restored to almost new condition. This expertise enables Starrag to combine various machining operations in one machine.

Gaining a market advantage from tools adapted to the process

Starrag in Rorschacherberg has been developing and grinding carbide milling cutters for aircraft and turbine components made of difficult-to-cut materials such as titanium, Inconel, or high-alloy steels for many years. In most cases, these are customised products that are adapted to the respective machining process, i.e. to the component, the machine, the material and

Another of Starrag's strengths is the gear spindle manufactured in Rorschacherberg, which remains thermally and mechanically stable and is highly durable even when processes are running for 80 hours. It is used on STC machining centres and Droop+Rein gantry machines. For the latter, different special heads are available, including angle heads in various lengths, with different torques and speeds.

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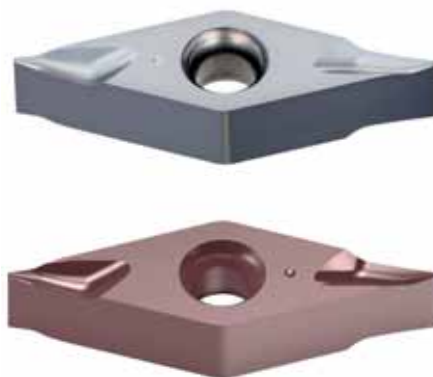
TaeguTec takes deep machining performance further

TaeguTec has expanded its renowned RHINO-TURN series of turning tools with the arrival of the new DNGX-ST insert.

The remarkable DNGX-ST insert is a new 4-corner negative insert that represents a quantum leap forward in heavy-duty depth-of-cut turning technology. This exciting new addition to the TaeguTec turning stable will deliver unprecedented performance enhancements that can transform productivity for Swiss-type turning operations.

The phenomenal DNGX-ST insert showcases TaeguTec's exceptional chip breaker design that permits turning operations to a depth of 5 mm, remarkably deep for the small turned parts industry. This dramatically reduces the number of required machining passes, resulting in spectacular productivity gains. The insert's ingenious 30-degree high rake angle design generates remarkably low cutting forces, ensuring superb surface finishes and outstanding tool life performance.

Furthermore, the DNGX-ST inserts demonstrate remarkably smooth chip control



capabilities across various cutting conditions, ensuring continuous chip formation even when turning to maximum depth parameters. The advanced continuous chip formation minimises cutting forces, making it ideally suited for demanding Swiss-type turning centres, especially the latest sliding heads with servo oscillation swarf-breaking functionality.

Designed to be compatible with TaeguTec's RHINO turning holders, the impressive DNGX-ST ensures seamless integration into existing inventory without requiring costly additional investments. Available in both micro-honed edge and sharp edge configurations, the DNGX-ST accommodates a wide range of applications from precision finishing to aggressive rough turning.

The insert's four-corner, double-sided design offers an exceptional value proposition, providing more edges per insert than previous



variants with two or three edges. The sophisticated DNGX-ST series also includes various corner radius options, ranging from 0.1 to 0.4 mm, accommodating applications requiring intricate sharp-edged turning as well as catering for robust machining applications with its depth of cut range from 0.3 to 5 mm. Feed rate capabilities span from 0.03 to 0.12 mm per/rev, delivering significant flexibility for diverse machining needs across carbon, alloy and stainless steels.

TaeguTec offers the exceptional DNGX-ST insert across a range of advanced coating technologies, with the PVD-coated TT9020 and TT4430 grades available. For detailed technical specifications, expert application guidance, or prompt ordering information, contact your local TaeguTec representative or visit:

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Productivity at the highest level

With the Drion-tec® E-Peak D5150, Walter is introducing a new replaceable head drill that represents the 'peak of productivity' when drilling. According to Walter, the D5150 enables extremely high feed rates and metal removal rates, which significantly reduces the cost per hole.

The Drion-tec E-Peak D5150 eradicates the need for drilling pilot holes and the DS50 replaceable head can be exchanged directly in the machine without screws. Both of these features reduce machining and setup times, significantly improving productivity. The Drion-tec E-Peak D5150 drill body has reinforced radial contact points and inclined axial contact surfaces that absorb any cutting forces that occur.

The three-dimensional flute geometry with a large axis angle combines with a powerful and efficient through-coolant delivery system that enables efficient, reliable chip evacuation even



with inclined or curved workpiece surfaces.

In addition to high productivity, the Walter replaceable head drill impresses with its high process reliability. This comes from the stable, patented cutting point design with axial pull-out protection. This ensures risk-free retracting and retains its release torque even after numerous head changes. The low-vibration DS50 interchangeable heads guarantee unparalleled

precision and centring with impeccable hole quality thanks to the free grinding and point angle.

Credit to its universal M geometry and the two cutting grades (WPP35 and WMS35), the D5150 can be used with a vast range of cutting data in all ISO material groups P, M and S, as well as in K, N and H. This extensive selection of materials and machining parameters makes the Drion-tec E-Peak D5150 the drill of choice.

Walter is initially launching the D5150 with



diameters from 9 to 17.99 mm, including nominal inch diameters, in drilling depths of 3XD, 5XD and 8XD. Several head dimensions can be used in the same drill body, which also reduces storage and purchasing costs.

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Precision micro machining at MACH

Widely recognised as the UK's 'go-to' specialists for all things micro manufacturing, Rainford Precision will once again be exhibiting at MACH with a host of groundbreaking new technologies. Complementing the extensive display of cutting tools from partners such as Union Tool, Louis Belet, 6C Tools AG, Delmeco SA, DTS GmbH, Hobe GmbH, Hufschmied GmbH, IWATA Tool Co, Saito Seisakusho Co Ltd (ATOM), Schreurs Tools GmbH and Sorma S.P.A., will be presentations on world-leading machine tool brands for niche manufacturing applications.

At the Birmingham NEC, MACH attendees will discover innovative solutions in precision machining, turn-mill, Precision Electrochemical Machining (PECM) and waterjet cutting from world-leading manufacturers. A perennial favourite at MACH is the micron-precise 3 and 5-axis machining technology from Kern Microtechnik. At MACH, Rainford Precision will introduce the exceptional precision features of the newly launched Kern Micro HD+. This machine is the latest development in Kern's acclaimed Micro HD series, enhancing the patented micro-gap hydrostatic technology beyond linear axes to include fully hydrostatic B and C rotational axes.



The Micro HD+ offers significantly improved axial and radial run-out accuracy, increased dynamics through more powerful motors and topology-optimised structures, superior rigidity thanks to hydrostatic rotary and swivel axes, and enhanced thermal stability via active cooling of all bearing components. The result is high-speed dynamic movement while maintaining micron-level precision over extended production runs.

The compact platform manages workpieces up to 350 mm diameter and 400 mm in length, with an integrated tool changer that accommodates up to 210 tools. It achieves Ra0.05 µm in serial production, often removing

the need for finishing processes. For ultra precise machining of larger parts, Kern has also introduced the Fortis HD. With a much larger working envelope, this machine incorporates a shaft-cooled high-speed spindle, a single-sided bearing mount, advanced four-stage cooling and advanced linear drives. The result is a machine with the micron precision and repeatability associated with the Kern HD, but in a substantial 5-axis machining platform.

The Kern brand will be complemented at MACH by Innolite. Every ultra-precision diamond and alignment turning machine system from this German manufacturer can



achieve sub-nanometre precision. The Innolite IL series offers sub-micron accuracy for demanding optical surfaces and precision engineering applications. This ranges from the compact IL200 to the large-scale IL1200 and IL1600 vertical platforms designed for machining optical surfaces up to 1.5m in diameter.

The IL400L combines selective laser etching with femtosecond lasers and laser-assisted diamond machining (ILPAC), enabling breakthrough processing of brittle materials beyond conventional diamond turning. Core technologies include DirectDrive3D, generating motion profiles at 10,000 fixed points per second and NanoGrip clamping that achieves <0.5 µm repeatability.



For MACH attendees seeking a compact platform in the micron rather than nano precision spectrum, Rainford Precision will be showcasing the Benzinger high-precision CNC turn/mill centres. As the exclusive UK agent, Rainford will be keen to highlight the merits of the TNI, Take 5, GOFuture, and DOLittle series of modular machines that excel in high-speed, high-accuracy production of components. The DOLittle machine is ideal for turning parts up to 26 mm in diameter, with main spindles operating at speeds of up to 15,000 rpm and radial and axial run-out below 0.5 µm.



The GOFuture series merges precise automatic operation with hard turning ability for complete machining from bar stock up to 42 mm in diameter. All Benzinger machines feature thermally stable construction, Siemens or FANUC controls with Industry 4.0 integration and hard turning capability up to 72HRc, delivering mirror finishes below Ra3 µm.

An undisputed crowd favourite at previous MACH exhibitions, Rainford is delighted to once again represent Finepart AB, the pioneering Scandinavian manufacturer of high-precision micro abrasive waterjet systems, at the UK's flagship event. The Finecut WMC500II series operates at a cutting pressure of 4,000 bar through compact cutting heads, achieving cutting widths as narrow as 0.2 mm with a positional accuracy of ±2.5 µm.

The completely non-thermal particle erosion process removes heat-affected zones, material distortion, and property changes, making it ideal for advanced composites, aerospace alloys, shape-memory alloys (NiTi), ceramics, hardened steels and exotic metals.

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MACH2026 - Stand: 6-112

Harvey Performance introduces Helical Solutions at MACH

Harvey Performance Company, a leading provider of specialised cutting tools for precision machining applications, has announced that Helical Solutions (www.helicaltool.com), its leading North American end mill brand, will exhibit at MACH 2026. Following the launch of its European operations and a European-inspired product range in January, the brand will be located on Stand 448 in Hall 20.



Helical has earned a reputation in North America as the performance benchmark for advanced machining, delivering material-specific, high-performance end mills trusted by world-class manufacturers in aerospace, automotive, medical, and other production-driven industries. This portfolio of products will be making its MACH exhibition premiere at the Birmingham NEC from 20th to 24th April.

With its European exhibition debut, Helical will present proven innovations from across the Atlantic with a product lineup that has been fully re-engineered and designed specifically for European applications. Produced locally in the Netherlands and supported by rapid regional fulfilment, this next generation of Helical tooling ensures machinists gain category-defining performance while strengthening the competitiveness of European manufacturing.

"Helical has proven its performance across North America, and this launch will ensure machinists in Europe experience the same advantages," said Jerry Gleisner, Senior Vice President of Sales, Harvey Performance Company.

"By producing locally and partnering closely with distributors, we're not just bringing Helical to Europe, but we're giving European manufacturers the same competitive edge trusted by the world's most advanced industries, with the speed and support that only local presence can provide," said John Gibbons, President, Harvey Performance Company Europe.

The European launch has already commenced with a curated portfolio of Helical Solutions' most in-demand high-performance end mills, specifically engineered in metric dimensions – these will be presented for the first time at MACH. The range will include tools for finishing, roughing, high-efficiency milling, and specialised applications in aerospace and medical machining. Customers will also have access to Helical's well-established technical resources, including downloadable tool libraries for CAM software, performance calculators, and application guides.



Helical's European sales strategy combines digital enablement with close distributor partnerships, connecting growing end-user demand with trusted local supply. Manufacturers can request a catalogue and find their nearest distributor for Helical Solutions at:

www.helicaltool.com/find-a-distributor. Alternatively, our team of experts will be available at MACH 2026, to discuss how we can accelerate your machining performance.

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HPCHO polygonal shank modular tooling saves time and money

Following on from the recent exclusive agreement between workholding and machining efficiency specialist, Leader Chuck International and specialist HPCHO GmbH, precision engineering companies in the UK and Eire now have comprehensive access to the range of KPS polygonal shank modular toolholder interfaces.

These ISO 26623-1 certified holders feature a trilobed shank that offer complete compatibility with the renowned Sandvik Capto interface. The modular tool holding system is designed to provide rigidity and accuracy, within 2 µm, while minimising setup times for users of turning centres relying on driven tools as well as mill-turn applications using machines such as Mazak, DMG MORI, Doosan, Okuma, Haas and so on.

The stability of the three-sided polygon design is well established and the polygon taper ensures automatic radial centring and even pressure applied around the coupling interface.

Leader Chuck's managing director, Mark Jones, explains: "The polygon design also provides torque transmission from the machine tool spindle to the cutting tool without the need for keyways. While a BT holder, for example, has a keyway at the flange that transmits torque, because of the polygonal shank a HPCHO toolholder cannot turn inside a spindle, so the whole transferrable torque of the spindle is spread over the entire taper of the holder."

Case hardened to 58 HRC with a superfine ground surface finish on the polygon of Ra 0.3 micron, HPCHO offers the range in six sizes: KP3, 32 mm diameter flange, KP4, 40 mm, KP5, 50 mm, KP6, 63 mm, KP8, 80 mm and KP10 with a 100 mm diameter flange. Each one is balanced to 6.3G at 20,000 rpm.

With the tool interface secured a broad choice of front ends can be selected out of the standard range catalogue. Extending on the rigid capability of the polygonal holder interface is a comprehensive range of heavy-duty and standard hydraulic expansion chucks, accommodating tools from 6 to 32 mm diameter, as well as slim hydraulic chucks that can accept tools from 3 to 25 mm diameter and feature a 3° external taper on the nose of the holder to improve cutter access during machining operations. The KPA range of shrink fit holders also feature an external 4.5° taper to improve cutting tool access and can

accommodate cutting tools from 6 to 32 mm diameter.

Other popular toolholding systems include ER collet chucks, Weldon and Morse taper type toolholders and Side Lock Adaptors (SLA) with and without through coolant indexing tools as well as combi shell milling toolholders. Standard items are available on quick delivery from stock, however even non-stock items can be produced within a nominal 6-to-8-week lead time from the date of order.

Quick-change

The KPS coupling is ideal for workshops using lathes and turning centres because of its ability to enable quick tool changes, between five to 10 times faster than conventional tools. And, when you preset your tools on the bench, they can be back in action cutting again within around 30 seconds.

However, this coupling system is not only suitable for turning. "The main reason the trilobe system was designed was to have a solution that was equally at home for turning, milling and drilling and even grinding," says Mark Jones. "That flexibility comes from the interface that allows interchangeability of tools for different machine types, even if the customer purchases the tools to suit different production runs or projects.

"When it comes to a multitasking machine, the KPS system makes an exceptional case because you have a combination of rotating and static cutting forces and applications."



He concludes: "As well as a comprehensive range that can be delivered from stock and the capacity to produce non-standard solutions within realistic timeframes, HPCHO also offer a significant cost benefit compared to other suppliers in the market."

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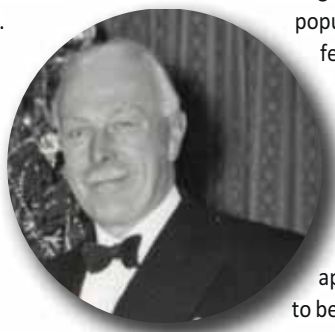


From military subcontractor to global innovator: Leader Chuck International celebrates 75 years

Leader Chuck International, a leading independent provider of workholding, toolholding and automation solutions, is proud to announce its 75th anniversary in 2026. This milestone marks over seven decades of innovation, engineering excellence and an unwavering resolve to boost productivity across the manufacturing sector.

The company's origins date back to 1951, when founder Richard R. Leader established the business as a subcontractor to the UK military. Looking back on those years, he once said: "When we began in 1951, we had a simple goal: to solve engineering problems with practical, reliable solutions. From subcontracting for the UK military to the creation of our own products, we focused on innovation, precision and service. Those principles shaped the company in its early years and continue to guide it today."

With the slowdown in military contracts the company moved to commercial work beginning with manufacture of impact extrusion punches/dies and then knitting machinery. The company soon launched its first product, the Leader Shuttle Control for the weaving industry. Manufacturing the hydraulic Shuttle Control for



the worldwide weaving industry raised a question that would define Leader's future: could productivity be improved by replacing manual lathe chucks with a powered solution? The result? The breakthrough Leader Self Contained Air Chuck, activated by the push of a button rather than with a hand wrench.

The air chuck resolved internal production challenges at Leader and quickly gained popularity across industry. Full-page features in trade magazines increased demand and the company began to expand into powered workholding. As powered chucks became more widespread and common, Leader Chuck International applied its engineering expertise to bespoke workholding solutions, meeting customer needs where standard chucks were insufficient.

Over the decades, this dedication to problem solving culminated in a global reputation that continues today. Chairman John Leader, son of the founder, spoke of the company's legacy: "It is a privilege to see the company my father founded reach its 75th year. Our history is something we're immensely proud of. Leader Chuck International has evolved far beyond its early roots, but the spirit he established; innovation, integrity and a commitment to our customers remains unchanged."

Since the early 2000s, many leading machine-tool and workholding manufacturers from around the world have appointed Leader Chuck International as their UK and Ireland representative, recognising the company's engineering knowledge, technical capability and pledge to exceptional support. Today, Leader offers customers a uniquely comprehensive and independent source for:



- Workholding systems.
- Toolholding solutions.
- Automated machine-tool loading, unloading and monitoring.
- Productivity-enhancing technology from many of the world's leading manufacturers.



Managing director Mark Jones, who has led the company since 1992, emphasised how the company's culture continues to define its success: "Since joining the business more than three decades ago, I've seen firsthand how our



engineering creativity continues to set us apart. Since the original Leader Air Chuck, our goal has always been to help manufacturers improve productivity and compete with confidence. As we celebrate 75 years, we remain focused on delivering solutions that reflect true 'Leader Ingenuity.'

As Leader Chuck International enters its 75th anniversary year, the company celebrates not just its longevity, but its enduring dedication to ingenuity, specialist expertise and the continuous improvement of manufacturing across the UK, Ireland and beyond.

Based in Tamworth UK and Co. Dublin Ireland, Leader Chuck International has an enviable reputation for the in-house design and production of Leader chucking, stationary clamping, gripping and workholding products.



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New system for shrink-fit toolholding

A new shrink-fit unit housing inductive heating and air cooling in one workstation for convenient, high-precision toolholding has been introduced by KEMMLER Präzisionswerkzeuge, southern Germany, whose products are available in the UK and Irish markets under a recent sole agency agreement with Wiltshire-based GEWEFA UK. The KSG600 reflects KEMMLER's continued focus on process reliability, user-oriented design and digital integration in modern machining environments.

Shrink-fit technology has long been valued for its ability to deliver exceptional concentricity and rigidity, as well as extended tool life, but the quality of the result depends heavily on precise thermal control. Accordingly, with its latest system KEMMLER has placed temperature management at the centre of the process. Designed for carbide and high-speed-steel tools from 3 to 32 mm in diameter and up to 490 mm long, the next-generation, highly controllable shrink-fit technology is aimed at manufacturers that demand repeatably accurate clamping, reduced setup times and maximum operational safety.

The KSG600 is designed around a single-touch operating concept, whereby three preprogrammed, energy-efficient cycles can be activated at the press of a button. It reduces dependency on the operator and minimises the risk of handling errors. Through WLAN or Ethernet connectivity, users can access

real-time status information, configure individual parameters and monitor the system remotely, aligning the unit with the requirements of digitally networked production environments and Industry 4.0 strategies.

Designed to deliver consistent results irrespective of a user's skill level or toolholder type, the compact unit is equipped with the company's intelligent SafeControl technology, which continuously monitors the inductive heating process in real time. By detecting exactly when the shrink-fit holder has reached its optimal temperature, SafeControl automatically stops the heating cycle and instigates uniform and controlled temperature reduction in typically two to three minutes, eliminating the risk of overheating and protecting both toolholder and cutting tool.

By means of built-in sensors and smart software, the input power of between 7 and 16 kW generated by a 400 V/16 A/50 Hz supply is automatically matched to the toolholder's mass and geometry. It means that the system can precisely regulate the inductive heating cycle regardless of holder type, a significant advantage for job shops and production facilities running mixed inventories of back-ends. Adapters cover numerous interfaces, including SK, BT and CAT 40 and 50, HSK 63 and 100, as well as Capto C6, allowing seamless integration into a wide range of toolholding ecosystems, whether for machining centres or multi-tasking turning centres, or both.

Stop rod sets and cooling tubes with depth adjustment allow fast, precise and repeatable setting of shrink depth. Adapter rings and interchangeable, one-piece ferrite discs extend compatibility across a broad spectrum of interfaces and tool diameters, while ensuring effective magnetic field shielding during induction heating. For applications requiring organised handling of multiple toolholders, a box with integrated fans provides additional storage and simultaneous air-cooling for up to five holders, helping to streamline tool logistics on the shop floor.

Nicole Lloyd-Foxe, managing director of GEWEFA UK says: "We are delighted to announce our new relationship with KEMMLER, which dovetails neatly with shrink-fit products manufactured by another German firm, Rineck, which we have represented in Britain and Ireland for decades.

"Dual-sourcing this type of equipment expands our ability to provide high-quality tooling at the right price and means that our customers now have access to a broader range of shrink-fit machines and back-ends to suit their applications and budget."

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The new KEMMLER KSG600 conveniently houses inductive heating and air cooling in one highly controllable workstation. It is available exclusively in the UK and Ireland through recently-appointed sales agent GEWEFA UK.

Flexible and versatile clamping device

Whether round, cubic, or irregular, the new, versatile SCHUNK ROTA THW3 2+2 power lathe chuck with centrally compensating workpiece clamping handles all workpiece geometries quickly and flexibly. Users benefit from increased productivity and reduced maintenance effort and, what's more, they are equipped with a single lathe chuck for all machining applications.



The new ROTA THW3 2+2 jaw quick-change chuck clamps all workpiece geometries flexibly and with minimal setup time.

The 4-jaw lathe chuck features independent positioning of the two jaw pairs with centrally compensating workpiece clamping, allowing companies to clamp round, cubic, or geometrically irregular workpieces equally well.

Contract manufacturers and machining companies know how important process-stable and versatile clamping devices are. Especially for batch size 1 and high part variability in custom production, short setup times and flexibility are essential. Since modern turn/mill centres perform turning and milling simultaneously, a reliable and flexible clamping device is indispensable for precise workpiece machining, particularly when geometrically undefined or irregular parts need to be machined in a second clamping operation.

SCHUNK now provides an innovative clamping concept for these demanding requirements with the new ROTA THW3 2+2 power lathe chuck. This 4-jaw lathe chuck features two independent jaw pairs with subsequent centrally compensating workpiece clamping, enabling safe and reliable clamping of freeform parts, castings, or geometrically undefined workpieces. Thanks to the patented sealing, companies can confidently use this 2+2 compensation lathe chuck in harsh environments with dirt and fine chips. In addition, users benefit from consistently high clamping forces and significantly extended maintenance intervals, resulting in increased productivity without compromising quality.



The 4-jaw lathe chuck features independent positioning of the two jaw pairs with centrally compensating workpiece clamping, allowing companies to clamp round, cubic, or geometrically irregular workpieces equally well.

Four jaws for maximum flexibility

Following the manual lathe chucks, SCHUNK now introduces a 2+2 jaw compensation lathe chuck for power lathe chucks, which is particularly indispensable for automated applications. The new power lathe chuck provides centrally compensating workpiece clamping for all workpiece geometries, making it an ideal solution for complex parts on lathes. This flexibility allows parts to be completed on lathes that previously required an additional milling operation. The integrated jaw quick-change system enables users to adapt the chuck quickly and easily to new clamping tasks, resulting in a significant increase in productivity. Thanks to the sealing, the maintenance effort is reduced, lowering lubricant consumption and minimising used grease making SCHUNK a key contributor to resource-efficient manufacturing processes. SCHUNK will offer the flexible lathe chuck from mid-2026 in sizes 230, 265 and 315 mm in diameter.



The ROTA THW3 2+2 is ideally suited for OP20 machining, where turning and milling processes are automatically combined.

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MACH2026 - Stand: 19-430



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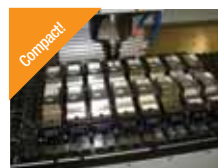
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Manchester Metrology appointed as an official Scanology reseller in the UK

Manchester Metrology is now an official UK reseller of Scanology, part of the Scantech family. This makes it easier than ever for UK businesses to access Scanology's professional 3D scanning solutions for a wide range of applications where accurate, flexible and efficient measurement is essential. Through this partnership, Manchester Metrology can provide Scanology systems alongside its existing measurement solutions and services, helping businesses adopt new or upgraded 3D scanning technology with confidence.



As demand grows for faster data capture and greater flexibility in measurement workflows, 3D scanning continues to play an increasingly important role across manufacturing, engineering and research environments. Scanology systems are designed to support a wide range of measurement tasks, enabling businesses to capture detailed geometry from small components through to large, complex assemblies.

Advanced 3D scanning for modern business requirements

Scanology 3D scanning solutions are developed to deliver high levels of accuracy and repeatability while maintaining speed and ease of use. Wireless operation, onboard processing and marker-free measurement enable scanning to be carried out efficiently, even in challenging or space-restricted environments. These capabilities allow businesses to reduce setup time, improve workflow efficiency and capture reliable measurement data for inspection, reverse engineering and quality control.

The flexibility of Scanology systems makes them suitable for a broad range of industries, including automotive, aerospace, energy, precision engineering and research. By supporting both detailed surface capture and large-volume measurement, the range allows

businesses to apply 3D scanning across multiple stages of their operations, from development and prototyping through to production and verification.

A selection of Scanology fully wireless models

The Scanology range includes systems designed to meet different operational needs, from compact scanners for confined spaces to large-scale solutions for industrial assemblies:

KSCAN-X is designed for large-area optical scanning, supporting accurate measurement of medium to large industrial components using adaptive photogrammetry.



KSCAN-E offers six scanning modes and flexible measurement capability, enabling accurate capture of fine details, deep holes, edges and large surfaces across extended volumes.

SIMSCAN-E is a compact, palm-sized scanner suited to confined or remote environments, providing one-handed operation without compromising accuracy.



NIMBLETRACK GEN 2 combines a scanner with an optical tracker to support marker-free measurement of small to medium assemblies, delivering high-density data capture at speed, with point spacing as low as 0.020 mm.

TRACKSCAN SHARP is designed for large-scale measurement, supporting accurate scanning of

assemblies up to 8.5 m without frequent repositioning.

Supporting UK businesses

As an official Scanology UK reseller, Manchester Metrology provides access to advanced 3D scanning systems through purchase, with hire and leasing options also available. This is complemented by their wider measurement technology and services, which include additional precision equipment such as portable arms, CMMs and laser trackers, alongside subcontract inspection, calibration, software, training and more. These capabilities help businesses implement solutions that suit their operational and project needs.

Introducing the brand new PMT CMM range

As manufacturing and engineering environments evolve, businesses increasingly require dimensional measurement solutions that combine precision with practical investment. The PMT bridge CMM range delivers high-accuracy measurement in a fixed, controlled format, providing businesses with the performance of a premium system at a more accessible cost than traditionally associated with bridge CMM technology. These machines provide a reliable foundation for workflows where accuracy, consistency, repeatability and stability are essential.



Accuracy

PMT bridge CMMs deliver repeatable measurement accuracy of up to 1.2µm, 0.0012mm, depending on the model and configuration, providing businesses with the confidence that components and assemblies can be verified to very tight tolerances.

Model range, sizes and configurations

The PMT bridge CMM range includes three core ranges: PMT Future CMM, PMT Future Plus CMM and PMT Prime CMM and is available in a wide range of sizes and configurations, covering smaller machines suitable for compact components through to larger formats designed for substantial workpieces. This flexibility allows businesses to select a system that aligns with their operational requirements, whether measuring small precision parts, complex assemblies or large prototype components. The range ensures that businesses of varying sizes and sectors can access fixed, high-precision measurement without compromise.

Across all models, the range provides high-precision measurement suitable for industrial production, prototyping and research applications. Repeatable accuracy is supported by rigid bridge construction, granite guideways and precision-engineered drive systems, which together ensure smooth, stable movement along all axes. These design features help minimise deformation, thermal variation and vibration, which are key considerations for sectors where tolerances are tight and measurement consistency is critical. Reliable data capture allows engineers and production teams to verify parts confidently, identify



deviations early and maintain standards throughout the manufacturing process.

Bridge CMMs are particularly suited to applications where stable conditions and repeatable routines are essential. In automotive, aerospace, precision engineering and research sectors, fixed systems support measurement of components, assemblies and tooling with consistent, comparable results. Laboratories and R&D centres benefit from PMT

CMMs when developing prototypes, testing materials or verifying complex designs, especially when repeatable data is required across multiple measurement cycles. These systems help businesses maintain high operational standards and reduce risk in critical measurement processes.

By introducing the PMT bridge CMM range to the UK, Manchester Metrology is expanding its measurement technology offering, alongside established services that support a wide range of business requirements.

All PMT CMMs come supplied with Renishaw UCC controller, PH10 head, probe rack, CMM fixture kit, base plate and PC. Delivery, installation and calibration included. Optional extras such as software, training and probe head upgrades are available.

Visit www.manchester-metrology.co.uk or call 0161 637 8744 for more details or to request a demonstration.

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www.manchester-metrology.co.uk

MACH2026 - Stand: 19-748

Bowers Group heads to MACH with advanced measurement & inspection focus

Bowers Group is heading to MACH 2026 at the NEC this April to showcase a broad range of advanced measurement and inspection solutions. Visitors can find the team in the Measurement and Inspection Zone.

Commenting on the announcement, Ryan Kingswell, sales director at Bowers Group, says: "MACH is always a key event for us because it gives us the opportunity to have real conversations with real people about the challenges they're facing. This year, we're focused on showing practical, production-ready measurement solutions, whether that's optical systems, bore gauging, or the latest developments from our partner brands. We're looking forward to welcoming both new and existing customers to the stand and giving them a good insight into where Bowers Group is heading next."

A key highlight on the stand will be Bowers Group's optical measurement capabilities, including models from the Baty Venture FV range of flash vision systems. The Velo FV will also be on display, the latest addition to this line and the perfect entry-level vision system for

high-volume, low-cost component manufacturers. The Bowers team will be on the stand ready to demonstrate how non-contact measurement can deliver speed, repeatability and confidence for manufacturers working with complex or high-precision components.

Bowers Group will also be showcasing its extensive range of bore gauges and application-specific gauging solutions, reinforcing its position as a trusted partner for internal measurement across a wide range of industries. With applications spanning aerospace, automotive and precision engineering, the focus will be on practical measurement solutions that perform on the shop floor, not just in controlled environments.

In addition, the stand will feature a strong presence from Moore & Wright, including a selection of products launched over the past year, as well as a sneak preview of new M&W developments currently in progress. While specific details of its new product launch remain under wraps, visitors will get an early look at what's coming next for the brand.

Another major attraction will be the new



Sylvac Scan S65T, a compact, non-contact measuring system designed for fast and efficient dimensional inspection of turned parts. The S65T further expands Bowers Group's offering in automated and semi-automated measurement, helping manufacturers improve throughput without compromising accuracy.

Alongside its core product ranges, Bowers Group will also be displaying a selection of solutions from trusted third-party brands including Trimos, Sylvac, WYLER and ASH, giving visitors a broad view of complementary measurement technologies.

Bowers Group

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MACH2026 - Stand: 19-440

Maximising sheet metal material

It's more than just optimising the layout

Adam Ball, commercial director at Lantek, discusses how machine shops and manufacturers can minimise waste and optimise efficiency through advanced sheet metal software.

Today's laser cutting machines provide exceptional speed and precision, yet this enhanced performance can create a number of operational challenges. Machine shops can experience issues with managing the high volume of components being manufactured, which potentially leads to production bottlenecks, delays in subsequent processes and errors in component handling and organisation. Even with cutting-edge equipment, poor part placement can result in material wastage and within the sheet metal industry, the efficient use of materials is paramount.

One of the challenges lies in positioning parts on the sheet in a manner that optimises both material efficiency and production flow. Conventional approaches often overlook crucial factors like component dimensions, geometries, assembly requirements or handling priorities, leading to unnecessary waste and operational slowdowns. This intricate challenge makes advanced nesting software particularly valuable, as it optimises cutting sequences while minimising waste.

Understanding the importance of nesting

Nesting is the process of arranging parts on a

sheet of material to maximise usage and minimise waste. This technique is crucial in the sheet metal sector, where material costs can significantly impact overall profitability. Effective nesting not only conserves resources but also streamlines production processes.

Modern nesting software plays a pivotal role in optimising material usage. These tools allow manufacturers to input various parameters, such as part dimensions, geometries and assembly requirements. By analysing these factors, the software generates optimal layouts that reduce scrap material.

Advanced nesting software

There are many advantages of using advanced nesting software. Firstly, it increases material efficiency and by utilising every inch of the sheet, manufacturers can significantly reduce waste. It also streamlines operations by providing optimal layouts and reducing manual intervention.

Advanced nesting software utilises complex algorithms to position parts on sheet metal in the most space-efficient configuration possible. The software takes into account multiple variables, including sheet specifications, component orientation and spacing requirements.

This optimised arrangement enhances production efficiency, minimises setup duration and boosts overall productivity. It can also lead to improved production workflow as efficient layouts facilitate smoother transitions between

cutting and post-processing stages. In addition, the use of nesting software can lead to cost savings, as less waste translates to lower material costs, which leads to enhanced overall profitability.

Despite advances in nesting software, many manufacturers still rely on manual processes, which can lead to inefficiencies. Common challenges include inadequate part placement, where poorly arranged parts can result in excess scrap and can hinder production flow.

With a manual approach, machine shops cannot access real-time data, which means operators may struggle to make informed decisions about material usage. Another issue with these traditional methods is they do not adapt well to changes in production schedules or part designs.

Through optimal part positioning, cutting time decreases and cutting efficiency improves, leading to enhanced material quality. Unlike manual arrangements, which are susceptible to human error and can cause delays or waste, nesting software eliminates uncertainty. It ensures accurate, consistent positioning of all components, which significantly reduces the risk of cutting process errors.

For businesses managing high component volumes or multiple projects, the batch processing capability of advanced nesting software can be invaluable. It enables simultaneous nesting and processing of multiple jobs, therefore reducing time and setup expenses.

The role of artificial intelligence in nesting

Artificial Intelligence (AI)-driven predictive analytics can forecast material usage based on historical data and current production schedules. This capability allows manufacturers to make proactive decisions about material procurement and usage.

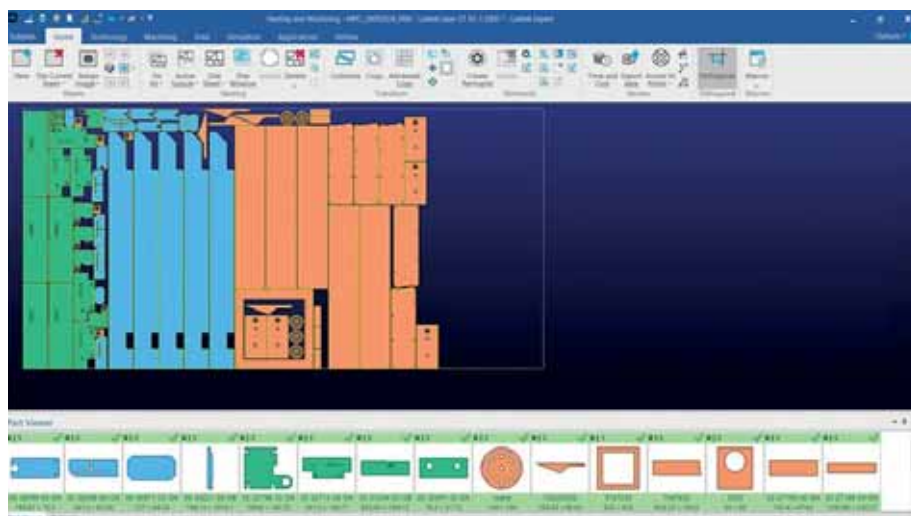
In addition, predictive analytics allows for optimal material procurement, as by anticipating material needs, manufacturers can reduce excess inventory and associated costs.

Many businesses find it beneficial that machine learning algorithms can analyse past nesting patterns and recommend improvements for future operations. This continuous learning process helps manufacturers refine their nesting strategies over time.

The way forward

Nesting should be viewed for more than just its material waste reduction capabilities. It can positively influence production capacity, storage operations and delivery efficiency.

To make the most out of advanced nesting software, machine shops should maintain flexibility in their approach, ensuring nesting strategies can be adjusted according to order volumes, stock levels and delivery schedules. Sheet metal fabricators work in a demanding environment and the ability to adjust and execute nesting strategies with precision can make the difference between a profitable



machine shop and one that is constantly reacting to inefficiencies. In addition, effective workflow optimisation should ensure that nesting choices do not create new problems downstream, such as storage overload or production bottlenecks.

There is no one-size-fits-all formula, but what is the case is that advanced nesting software can help businesses to be better informed, better optimised in use of materials and with real-time data at their fingertips to predict future workflow.”

Founded in 1986, Lantek is a leader in software solutions for the sheet metal industry. Its products enable companies to optimise manufacturing processes with cutting-edge technologies for CAD/CAM, MES, ERP and

analytics. With a presence in over 100 countries, Lantek empowers its customers to embrace digital transformation and achieve their goals with confidence.

Lantek’s software systems are designed to manage the entire production process, from initial design through to final assembly. By integrating various functions into a single platform, Lantek enables manufacturers to streamline operations and improve efficiency.

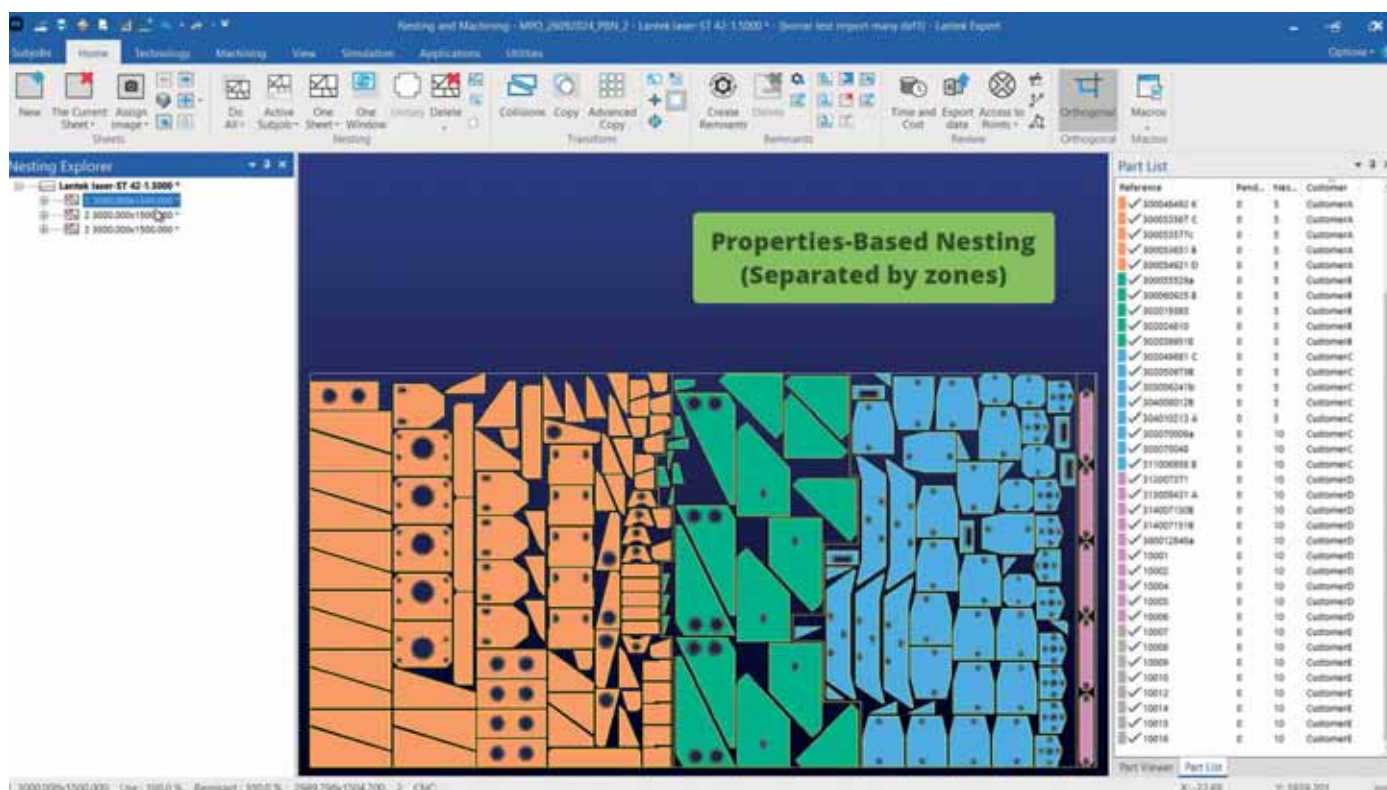
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MACH2026 - Stand: 6-131



New *hyperMILL* innovations

From 20th to 24th April, OPEN MIND Technologies will once again be exhibiting at the MACH exhibition at the Birmingham NEC. The CADCAM specialist will present the newest advancements from the latest version of its *hyperMILL*® CADCAM suite on Stand 230 in Hall 17. The focus will be on solutions for digital process chains, connected manufacturing, automation, turning and *hyperMILL* VIRTUAL Machining. OPEN MIND will provide live demonstrations and insights into various practical applications of *hyperMILL*.

The collaboration between a CAM system and IT solutions, such as MES, PLM, or a tool management system, is becoming increasingly common in modern manufacturing. On the OPEN MIND stand at MACH, visitors will see how *hyperMILL* integrates with Hummingbird MES to make production processes more transparent, efficient and flexible. All production-related data is accessible anywhere in the company at any time. This supports consistent process organisation and distinguishes Hummingbird from many other MES solutions. Every change, such as the completion of a component, is immediately visible to all users without needing to click a refresh button.

An integral component of Hummingbird MES is the Kanban board for planning and workshop oversight. While the planning board provides comprehensive information about processes without assigned tasks, the team board acts as a central communication tool for the entire team. This is where all information on pending orders is consolidated. Every team member has access and can view the process status.

MES and CAM

The Hummingbird MES supports all CAM systems and production machines and integrates seamlessly with *hyperMILL*. The digitalisation through Hummingbird also includes a digital tool management suite in its portfolio. With the 'Tool Logistics' module in Hummingbird MES, users can achieve highly efficient digital tool management effortlessly.

A lack of transparency in tool management

leads to delays caused by searching for and allocating provisions, as well as costs from inefficient warehousing with excess tool stocks or premature tool changes. In the worst cases, manufacturers may experience significant downtime due to missing or incorrect data. This is where modernisation becomes crucial. OPEN MIND experts can implement digital processes based on CAM and MES to deliver highly efficient digital tool management through five simple steps.

The first step is to analyse existing processes and systems. This involves reviewing available tools and storage data, or how tool storage and setup processes are organised. Potential

errors, processing risks and knowledge loss. Combining rule-based strategies with AI, this technology combines automation, optimisation and AI in a meaningful way to deliver measurable results on the shopfloor that gives the end user the right technology for every operation.

For example, the rule-based automation can streamline repetitive CADCAM tasks by utilising pre-defined rules, while the tool-based automation enables customers to leverage the power of digital twins to ensure the right tools, strategies and parameters are integrated into both CAM and MES. This is enhanced by machine-based optimisation and an AI assistant



improvements are identified and a detailed roadmap for system implementation is developed. Standardising data in the *hyperMILL* or other CAM system tool database is a necessary prerequisite for error-free, efficient processes.

hyperMILL INTELLIGENCE: Breaking boundaries with rules-based & AI

Also making its MACH debut will be the new *hyperMILL* INTELLIGENCE. The clear mission of *hyperMILL* INTELLIGENCE is to solve real manufacturing challenges with five core areas that range from rule-based automation to tool and machine optimisation and also the AI Assistant with *hyperMILL* CHATBOT and *hyperMILL* DATA Center. This philosophy reliably addresses key issues such as routine tasks, tool

to personalise real-time guidance for seamless programming workflows.

hyperMILL 2026

With the latest 2026 version of *hyperMILL* set for release ahead of MACH, show visitors will witness the European premiere of this new version. The new version 2026 promises exciting innovations and the OPEN MIND UK team will be delighted to discuss these with visitors to MACH.

OPEN MIND Technologies UK Ltd

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MACH2026 - Stand: 17-230



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CAD/CAM | MES | QUOTING & ERP | ANALYTICS | INTEGRATIONS

Hexagon introduces Cloud-powered tooling integration to accelerate mould & die machining and standardise workflows

Hexagon's Manufacturing Intelligence business area has introduced a significant advancement for mould & die and precision machining with the first production ready integration between its WORKNC CAM software and the Cloud-based Tool Library. This integration strengthens how CAM programmers apply validated tooling data and proven machining methods, enabling faster programming and more predictable results on complex parts.

Increasing part complexity, tighter tolerances and the scarcity of experienced programmers continue to place pressure on machinists. Many lose valuable time recreating tooling assemblies, maintaining fragmented data or relying on undocumented knowledge exchange across shifts. Hexagon's latest release addresses these challenges by unifying enhanced workflow automation in WORKNC with centralised, validated cutting-tool information from industry leading tool manufacturers (OEMs) through the platform.

"Reliable tooling information is one of the most powerful levers for reducing programming time and eliminating variability," explains Steffen Dilger, president of Hexagon's production software division.

"As manufacturers adopt more advanced automation and AI-assisted programming, centralised and high-quality tool data will play an increasingly critical role. Our focus is on removing workflow bottlenecks and connecting the full manufacturing toolkit, from tool selection through simulation and NC verification."

Cloud-powered tooling for faster, smarter CAM programming

The Tool Library provides WORKNC users with direct access to verified cutting-tool data from a growing network of leading tooling partners. Programmers can pull tooling information directly into their CAM environment without re-entry or model reconstruction, reducing setup time and ensuring digital tool definitions match actual cutting performance.

"This integration helps manufacturers adopt smarter, more efficient digital workflows," says Dr Carlonda Reilly, chief technology officer at Kennametal. "By combining our validated tooling data with Hexagon's powerful CAM technology, we're advancing our strategy by



expanding our digital capabilities to better serve machining shops worldwide."

"Having Sandvik Coromant tooling available inside the Tool Library means less guesswork and more productive machining," states Tobias Unosson, business & partner development manager for Sandvik Coromant. "With validated data at your fingertips, shops can standardise, reduce setup time and maintain consistent best practices. Smarter tools mean smarter workflows."

This growing number of featured partners also includes MachiningCloud and ToolsUnited, with additional partners being onboarded as the ecosystem expands, giving shops broader access to validated tooling data.

The integration of the Tool Library enables accurate digital twins of tools and assemblies, automatic application of material-specific cutting data and the sharing of standardised tooling definitions across teams. Its Cloud-based architecture supports scalability and consistency across thousands of tool items, while searchable catalogues give users direct access to OEM information without installing additional applications or consuming CAM licenses.

Enhanced automation and quality improvements in WORKNC 2025.4

Alongside the Tool Library integration, Hexagon has introduced new automation and finishing enhancements designed to simplify complex programming tasks and help shops achieve more consistent machining outcomes:

Improved finishing quality: A new Parallel Finishing algorithm delivers cleaner transitions at surface edges and improves geometry accuracy. Combined with toolpath extension in tangency, it reduces tedious CAD preparation.

Simplified programming: New enhancements improve detection of remaining material and provide finer control of tool entry and exit positions, helping programmers generate collision-safe toolpaths with less manual intervention.

With this release, Hexagon continues to prioritise practical automation that fits existing processes, enabling manufacturers to modernise at a pace that suits their operations.

The latest WORKNC release and Tool Library integration are available now. Customers can access the update via WORKNC | Hexagon or contact their Hexagon representative for details.

Hexagon is a leader in measurement technologies. It provides the confidence that vital industries rely on to build, navigate and innovate. From microns to Mars, its solutions ensure productivity, quality, safety and sustainability in everything from manufacturing and construction to mining and autonomous systems.

Hexagon

Tel: 020 7068 6555

<https://hexagon.com/>

MACH2026 - Stand: 17-320
Stand: 18-520
Stand: 19-629

Tebis presents its revolutionary CAM Automation with SmartOps Technology at MACH



Tebis, a specialist provider of CAD/CAM and MES solutions which offers leading advanced intelligent manufacturing technologies for CNC machining process optimisation, standardisation and CAM automation, is celebrating its 25th anniversary in the UK and over 40 years worldwide at MACH 2026.

At the event, Tebis will be introducing its revolutionary SmartOps Technology, an innovative solution for automating CAD and CAM processes, specifically developed to address the requirements of single part manufacturing. Users benefit from a unique combination of speed, flexibility and process reliability, providing a genuine shortcut to success thanks to consistently reproducible results.

Single part manufacturing demands rapid, precise solutions both on the machine and throughout the CAD/CAM process. Tebis SmartOps automates recurring work tasks, significantly reducing the workload on engineers. The result: reduced time pressure, increased process reliability, safer manufacturing and enhanced flexibility.

Tebis SmartOps Technology automates CAD/CAM processes through intuitive, dialogue-driven workflows that run nearly autonomously. Users maintain full flexibility to make manual adjustments when needed. Its user-friendly interface speeds up NC programming, while Tebis' end-to-end solutions simplify and automate subsequent production steps.

The Tebis UK team have also scheduled live technical presentations each day during the exhibition, focusing on CNC machining process optimisation and CAM automation with SmartOps technology.

Paul Scally, site manager says: "We are excited to celebrate our 25th anniversary in the UK at Mach 2026, while demonstrating cutting edge technology for CAD and CAM automation with Tebis SmartOps Technology. Please come and visit our stand for live demonstrations and see how Tebis can benefit your processes."

For further details about the event or Tebis software, contact the Tebis Team on 024 7615 8178 or visit <https://www.tebis.com/en>

Tebis AG is a leading global provider of CAD/CAM and MES software. With its high degree of expertise in consulting, implementation and support, it has been implementing highly efficient and safe process solutions for its customers since 1984. Its customers use its solutions to manufacture single parts like models, moulds and dies as well as the highest-quality series parts made of metal or plastic.

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MACH2026 - Stand: 19-24

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Renishaw launches next-generation Build Processor in partnership with Materialise

Renishaw, a global leader in precision engineering and Additive Manufacturing (AM), has announced the launch of a next-generation Build Processor (NxG BP), developed in collaboration with Materialise. The new software strengthens integration between Materialise Magics and Renishaw's RenAM metal AM systems, combining the proven flexibility of Materialise Magics with the productivity of Renishaw AM systems in a more streamline workflow.

The introduction of NxG BP fulfils Renishaw's commitment to provide customers with increasingly open and user-friendly workflows while ensuring best-in-class performance. Evolving from earlier solutions, the new processor enables direct export of job files from Magics to Renishaw machines using the QuantAM file format, eliminating manual file handling, reducing errors and saving valuable preparation time.

"We've worked closely with users to understand where the bottlenecks are in their AM workflows," says Ben Diaz, product manager at Renishaw. "NxG BP enables swim lane laser control, integrated inspector tools, implicit modelling support and compatibility with the RenAM 500 series of machines. Ultimately, customers will have a more intuitive and efficient way to get from design to print."

A key innovation is the Swim Lane feature, which intelligently distributes laser scanning across defined regions of the build platform.

By preventing interference between lasers and managing overlap for full fusion, the system enhances part quality and

consistency while reducing build times.

Customers also benefit from integration with nTop implicit modelling workflows, making it easier to handle complex geometries and prepare jobs more efficiently.

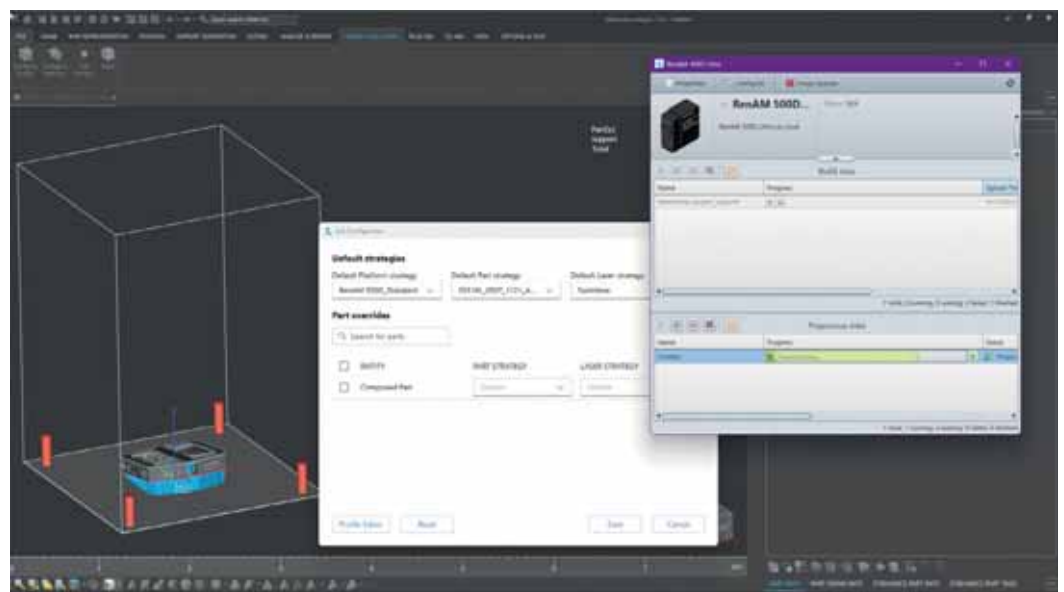
"The Renishaw NxG Build Processor represents exactly the kind of open, flexible approach the industry needs as metal AM moves into production at scale. By enabling direct integration between Magics and Renishaw systems, we're removing the friction that slows down advanced users who are pushing the boundaries of what's possible with metal 3D printing. Whether it's handling complex implicit geometries or optimising multi-laser performance with features like swim lane control, this collaboration gives Renishaw customers the workflow control they need to succeed on their terms," says Karel Brans, partnership director at Materialise.

To support quality assurance, NxG BP incorporates an integrated Inspector tool. This

enables real-time verification of laser paths and job setup directly within the workflow, eliminating the need to switch between multiple software packages for quality checks. This data-driven approach allows users to identify and resolve potential issues before production begins. The processor is fully compatible with the complete RenAM machine range, extending the benefits of the new solution across Renishaw's installed base.

"By renewing their Magics and Build Processor license directly through Renishaw, customers can also take advantage of cost savings compared with purchasing QuantAM and Magics separately from Renishaw and Materialise respectively. This ensures not only a more powerful workflow but also a more economical one," adds Ben Diaz.

The Renishaw NxG Build Processor is designed for advanced AM "power users" who manage a wide variety of part types and need functionality that goes beyond what QuantAM



alone provides. For these users, the combination of streamlined workflow, enhanced process control and accelerated job preparation represents a significant step forward in achieving consistent, repeatable and efficient metal AM production.

For more information about Renishaw's software for laser powder bed fusion systems, including NxG Build Processor, visit <https://bit.ly/3VyRjz4>

About Materialise:

Materialise incorporates more than three decades of 3D printing experience into a wide range of software solutions and 3D printing services, creating a backbone for the 3D printing industry.

Headquartered in Leuven, Belgium and with branches worldwide, Materialise combines the largest group of software developers in the industry with one of the world's most complete facilities for additive manufacturing. Its open, flexible platforms enable companies across industries, including healthcare, automotive, aerospace, art and design and consumer goods, to build innovative 3D printing applications that deliver meaningful value.

Through a focus on quality, reliability and

scalability, Materialise helps organisations unlock the full potential of additive manufacturing, from design optimisation and data preparation to production and beyond.

Further information at www.materialise.com

About Renishaw:

Renishaw is a leading supplier of measuring systems and manufacturing systems. Its products give high accuracy and precision, gathering data to provide customers and end users with traceability and confidence in what they're making. This technology also helps its customers to innovate their products and processes.

It is a global business with over 5,000 employees located in the 36 countries where it has wholly owned subsidiary operations. The majority of R&D work takes place in the UK, with the largest manufacturing sites located in the UK, Ireland and India.

For the year ended June 2024 Renishaw recorded sales of £691.3 million of which 95 percent was due to exports. The company's largest markets are China, USA, Japan and Germany.

Renishaw is guided by its purpose:



Transforming Tomorrow Together. This means working with its customers to make the products, create the materials and develop the therapies that are going to be needed for the future.

Further information at www.renishaw.com

Renishaw plc
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www.renishaw.com

MACH2026 - Stand: 19-420

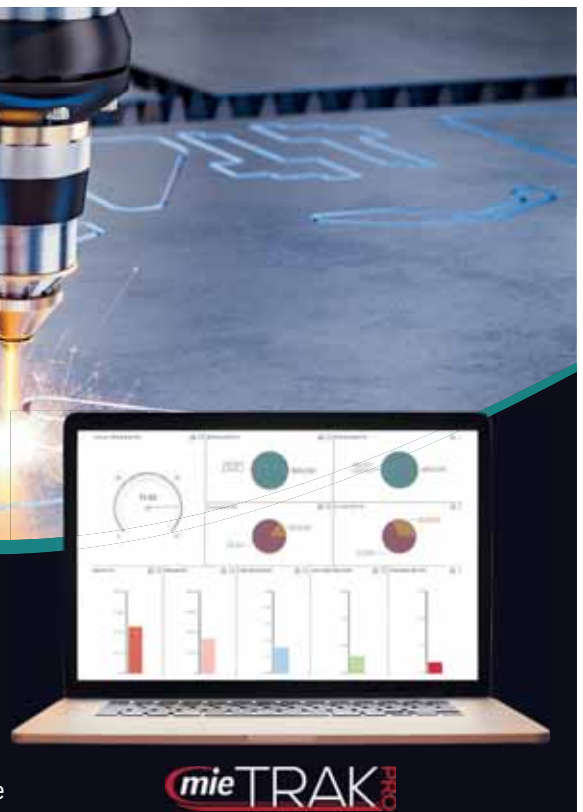


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JC Metalworks transforms efficiency with MIETrak Pro ERP software

Overview:

Based in the heart of Leicestershire, JC Metalworks stands as one of the UK's leading specialists in the fabrication and manufacture of sheet metal parts and complete metal components.

From its state-of-the-art 60,000 sq ft facility, the company delivers precision-engineered solutions for commercial, industrial and scientific applications, providing a seamless, end-to-end service from design to production.

Challenges:

Like many fast-growing manufacturers, JC Metalworks reached a tipping point with traditional management tools. The business relied heavily on paper-based systems and spreadsheets. This approach became time-consuming, error-prone and inefficient, offering little visibility across the production floor.

To continue meeting customer demand and support growth JC Metalworks needed a connected, real-time solution.

Solution:

JC Metalworks transitioned from traditional paper-based methods to MIE TRAK PRO, an integrated manufacturing software system designed to simplify processes and improve data accuracy. This transition led to several key improvements:

Enhanced Shop Floor Data Capture:

Production times are now accurately captured electronically, eliminating manual timesheets and ensuring real-time tracking of production.

Improved Data Analysis & Decision-Making:

The system provides real-time data analysis, enabling the team to quickly identify production bottlenecks and areas for improvement, leading to reduced production times and enhanced efficiency.

Automated Stock Control:

MIE TRAK PRO centralises all stock transactions, replacing the use of spreadsheets and ensuring more accurate inventory management across the business. JC Metalworks processes 100+ tonnes of sheet metal every month and MIETrak manages all of it.

Streamlined Purchasing:

The system seamlessly processes purchase invoices within the manufacturing system, reducing the need for manual entry in accounting systems and improving overall purchasing efficiency.

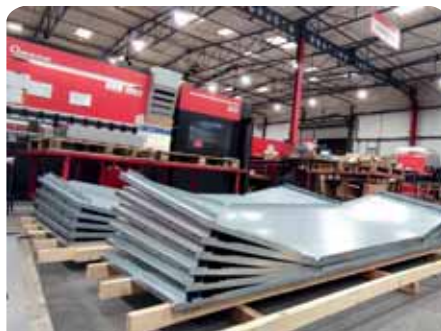
Enhanced Scheduling & Planning:

The system replaced spreadsheets with a more effective and integrated scheduling solution, improving contract planning and production scheduling. Through MIETrak Pro JC Metal

Works can produce the most efficient schedule to manage over 80 industry experts capable of producing in excess of 15,000 products every month.

Improved Quality Control:

Non-conformance tracking is now integrated into the system, reducing the reliance on separate spreadsheets and documents and ensuring accurate records of quality-related costs.



Customer Testimonial:

"MIE TRAK PRO has been instrumental in improving our operational efficiency. The system provides us with valuable data insights, allowing us to make informed decisions and continuously refine our processes. The 5S team is always on hand to help us achieve the best possible results from the system."

5S Technologies:

"At 5S Technologies, we bring over 30 years of expertise in manufacturing and engineering production control software. Our team of skilled engineers collectively hold more than 100 years of hands-on experience with MIETrak Pro, giving us an unparalleled understanding of the system inside and out. This depth of knowledge enables us to support manufacturers and engineers in achieving maximum efficiency, control, and results from its software investment."

5S Technologies

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FourJaw signs 50 new manufacturers as production monitoring takes hold

Sheffield-based production monitoring specialist grows international customer base in a challenging year for the manufacturing industry.

FourJaw, a provider of production monitoring technology, signed almost 50 new customers in 2025 as manufacturers worldwide sought greater visibility into their factory operations.

Despite a challenging economic environment, demand for production data remained strong as manufacturers sought insight to increase output, reduce waste and make better decisions. FourJaw secured 49 new customers last year, including SMEs and major multinationals in sectors such as motorsport, aerospace, defence, food and beverage and construction materials.

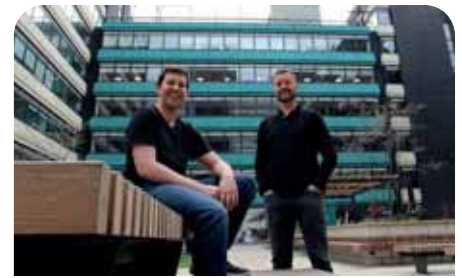
The company attracted customers across the UK, Ireland, mainland Europe, North America and Australasia. This reflects growing international demand for scalable production monitoring technology that can be deployed quickly and integrated with machines of any age or brand.

FourJaw's plug-and-play technology gives manufacturers a real-time view of machine performance, utilisation and energy consumption across the shop floor. Customers typically achieve a 30 percent increase in capacity and a 10 percent rise in productivity within six months of installing FourJaw.

Chris Iveson, CEO of FourJaw Manufacturing Analytics, comments: "2025 was a challenging year for manufacturers that reinforced how critical operational efficiency has become. We're seeing strong demand from manufacturers in the UK and overseas who want to see what's really happening on the shopfloor."

"FourJaw is now firmly in scale-up phase, helping manufacturers respond to rising costs, supply-chain pressures and intensifying competition with improved productivity. The breadth of sectors and international spread of customers we signed in 2025 show the need for better production monitoring is universal."

Founded in 2020 as a spinout from the University of Sheffield's Advanced



Manufacturing Research Centre, FourJaw is a UK-based SaaS company helping manufacturers enhance productivity, reduce energy usage and grow profitably. FourJaw's plug-and-play production monitoring platform integrates with machines of any age or brand. It is trusted by manufacturers globally in subsectors such as aerospace, automotive, energy and food production. FourJaw backers and investors include British Business Bank, Northern Powerhouse Investment Fund, Mercia Ventures and SFC Capital.

FourJaw Manufacturing Analytics

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MACH2026 - Stand: 17-350

Lantek introduces latest generation V45 sheet metal software



Lantek, a leader in software solutions for the sheet metal industry, has released its latest V45 software, marking a transformative step toward smarter manufacturing. V45 brings a new generation of AI-based services designed to help sheet metal workshops achieve higher efficiency, tighter process control and better connectivity.

A key part of this software is KAI, Lantek's brand new transversal digital assistant. Integrated across multiple applications, KAI supports technicians throughout their daily workflows by simplifying tasks, strengthening decision-making and ensuring greater production consistency.

The V45 software also strengthens Lantek's mission of providing seamless end-to-end integration. Lantek Bend now connects with the company's cutting, MES and ERP systems,

ensuring a continuous flow of data from design to final production. This unified workflow reduces communication errors, improves traceability and optimises coordination, allowing workshops to gain better coordination and faster order deliveries.

Further enhancements appear in Lantek's sheet metal programming tools with updates to Stackmaster and Lantek Expert.

The latest generation of Lantek's production planning tool, MES, brings greater transparency around delivery commitments and resource allocation. Its modern web-based interface enables managers to monitor shop floor performance and bottlenecks more effectively, while new capabilities in intermediate warehouse management and expanded Machine Connectivity open the door to integrating any machine. For users, this means greater transparency, better predictability and responsiveness to changing demands.

Building on innovations first introduced in 2024, V45 advances Assembly to Nesting (A2N) with better usability and improved unfolding accuracy. By leveraging bending tool data, manufacturers can move from 3D assembly to cutting more quickly and with fewer errors.

Within V45 software, Lantek's Flex3D now connects seamlessly to StruMIS through a native connector and integrate with TELKA for structural fabrication workflows. With a major update to its nesting engine, users gain even stronger material optimisations, tighter process control and substantial savings through reduced waste.

Adam Ball, UK commercial director at Lantek, says: "We are excited about what this new V45 means for the sheet metal industry. Demand is high for software that helps workshops to work smarter, reduce errors and simplify production processes. By introducing AI functionality into its tools, V45 can offer even more advanced support to operators, as well as strengthening integration and improving transparency, we're enabling customers to achieve faster deliveries, better margins and greater material optimisation."

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MACH2026 - Stand: 6-131

New TRUMPF machines provide 50 percent gain in production for AF Switchgear

AF Switchgear, the UK's largest privately owned switchgear manufacturer, has invested in a trio of TRUMPF CNC sheet-metal processing machines over the past year: a TruBend 5130 press brake; a TruPunch 3000 punch press and, most notably of all, a TruMatic 3000 fiber punch/laser combination machine. The latter is driving new part processing workflows at this progressive manufacturing business, helping to boost production by 50 percent over two shifts.

With a strong tradition of engineering excellence and customer care, AF Switchgear employs around 400 people and generates annual turnover in the realm of £100 million. The company designs and manufactures all products entirely in-house, ensuring complete control over quality, innovation and delivery. While its core focus is the datacentre industry, AF Switchgear also serves clients across healthcare, banking/finance and telecommunications. Family values are imbued throughout the organisation, with its commitment to building strong, long-term relationships proving the reason so many customers continue to choose the company as their trusted partner.

AF Switchgear and TRUMPF both celebrated their 50th anniversary in 2024. Quite fitting then that these two industry leaders partnered over the past 12 months in a series of machine investments. Marking a significant step forward in production capacity and capability, the arrival of the new machinery means AF Switchgear is now a 100 percent TRUMPF shop for all 2D cutting and bending operations.

"As a business, we work really hard to maintain flow through manufacturing," says fabrications engineering manager Gary Taylor. "We recently set about increasing our production to ensure we could achieve internal production demands and deliver right-first-time products into customers."

With TRUMPF punch presses and press brakes already performing well on site, AF Switchgear had no hesitation in returning to TRUMPF for its latest investments.

The company selected new TruBend 5130 and TruPunch 3000 machines to increase capacity, particular for the manufacture of



switchgear cabinets. However, the stand-out investment is a large-format TruMatic 3000 fiber, the first punch/laser combination machine on site.

"We had a stand-alone laser cutter from another manufacturer for over 10 years and wanted a replacement that would advance our manufacturing operations," explains Gary Taylor. "The TruMatic 3000 fiber was chosen because we knew it would provide combined laser cutting and punching and the recent introduction of tapping heads that increase capacity with faster cycle times and higher throughput. It offers quick unload/load, rapid tool-change capability and a noise-reduction bed, which is important in our fabrications department. The machine also saves space and avoids the cost of purchasing a separate laser cutter."

The TruMatic 3000 fiber offers exceptional flexibility, productivity, efficiency and reliability in sheet-metal processing. It also achieves outstanding part quality thanks to the descending die and is easy to operate with its touchpoint HMI. The arrival of the machine at AF Switchgear is driving a 50 percent gain in machine availability and increasing daily production hours over two shifts.

Although the TruMatic 3000 fiber and its 3 kW laser can process sheet thicknesses up to 6 mm, 5 mm aluminium, AF Switchgear typically processes 2.0, 2.5 and 4.0mm thick CR4 carbon steel, while other materials cut on site by the

machine include stainless steel, galvanised steel and aluminium.

All TRUMPF machines are fully operational across AF Switchgear's two-shift working week. The company also produces parts out of hours, ensuring full utilisation.

"Along with an increase in production of 50% over our two-shift operation, impressive part accuracy means we can supply our customers with right-first-time components," reports Gary Taylor. "Our customers now benefit from quality parts programmed and produced entirely using TRUMPF machinery and software."

AF Switchgear describes its experience of working with TRUMPF as: "a professional service from delivery and installation to final commissioning, sign-off and training."

The new TRUMPF machines clearly reinforce AF Switchgear's commitment to innovation, quality and remaining at the forefront of production technology.

Gary Taylor concludes: "With these recent investments, we can ensure full control over our manufacturing operations. The TRUMPF machines have increased throughput and stabilised production to ensure we achieve all expected customer delivery dates."

TRUMPF Ltd

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www.trumpf.com



Prima Power, the experts for integration in the sheet metal working industry, will take part in MACH 2026. Visitors can meet Prima Power within a dedicated technology experience area designed to showcase solutions, expertise and innovation through samples and live interaction with experts.

At the heart of the stand will be the Tech Wall, a hands-on discovery space presenting the full range of Prima Power sheet metal working technologies, including punching, combined punch-shear and punch-laser, bending and 2D and 3D laser processing. Through real sample parts, visitors will be able to explore the features and distinctive capabilities of each technology autonomously or with the support

Prima Power to showcase integrated sheet metal technologies at MACH

of Prima Power specialists, who will be available to identify the best solutions to level up each customer's specific production process. The experience highlights the power of Evolve by integration, demonstrating how machines, automation, robotics and flexible manufacturing cells and systems can be seamlessly combined into high-performance, future-ready production environments.

The exhibition will also spotlight Prima Power's fully integrated software suite coordinating all technologies within a single, smart platform. Designed to support a unified and continuous production flow, Prima Power's All in One software connects ERP systems, production planning and programming, machine control and monitoring into a synchronised ecosystem that reduces errors, optimises production time and maximises overall performance.

With modular, high-performing technologies and native solutions for unmanned production, Prima Power reaffirms its customer-focused approach, delivering precision, versatility and

efficiency to support long-term growth in an increasingly digital manufacturing landscape.

Prima Power provides businesses of all sizes with targeted dynamic technologies that enhance profitability in sheet metal working. It creates integrated automated solutions designed to meet its customers' challenges, open to their future growth. The company offers high-performance machines that deliver flexible and precise execution. Prima Power's value lies in the focus on its customers. It builds its offer on a full range of modular solutions, using a distinctive customer-centred approach and longstanding knowledge in engineering systems and machinery for sustainable, efficient manufacturing which is all based on a unique history of technological integration.

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MACH2026 - Stand: 6-591

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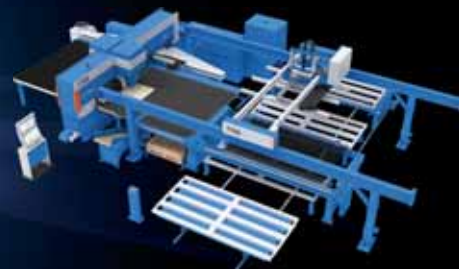


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Burton launches laser operations with Kerf installation

Burton's Engineering Services, a Grimsby-based engineering company established in 2020, has made a strategic leap into laser cutting with the installation of a Lincoln Electric Linc-Cut 2040A fibre laser system. The 12 kW machine, supplied by Kerf Developments of Rochdale, represents a bold diversification for a company that has built its reputation on site services, breakdowns, repairs and factory maintenance for the food and waste industries.

Thomas Burton founded the company during the first COVID lockdown in 2020, a decision that many considered risky. "We had no option. My employer was laying off and said there was no work out there. But I knew there was. The gamble paid off and after starting, we grew rapidly and we eventually took my previous employer's work too," he notes.

Starting with supplying engineering site services, Burton's Engineering Services grew rapidly. "We started getting a lot of project work and short shutdown work," Thomas Burton explains. The company specialises in repair, maintenance and overhaul of equipment such as production lines, radial stackers, shredders and optical sorters, providing both labour and engineering expertise for time-critical maintenance and overhauls.

Today, the company employs 52 staff which is a remarkable growth in just five years. Burton has built the business with an acute awareness of market dynamics and the need for diversification.

A clear opportunity in the Grimsby area drove the decision to enter laser cutting. Thomas Burton adds: "There's only one competitor in Grimsby and a lot of sheet metal workers in the

area use a service based in Hull, over one hour away."

Paul Eastburn from Kerf Developments confirms this analysis: "Companies were having to go out of the area. Burton's business model is based on service and turnaround, investing in the Lincoln Electric Linc-Cut 2040A fibre laser machine to offer a fast service and working through the night to get parts cut quickly." The strategy targets 24 to 48-hour turnaround times for local engineering companies and project-based work, particularly serving the numerous food processing and pharmaceutical plants in the region.

Thomas Burton continues: "We actually invested in the fibre laser with no customers." The investment was justified. Within months of installation, the machine is running more than 12 hours a day.

Burton's route to selecting the Lincoln Electric machine from Kerf Developments began with a handheld plasma cutter. Thomas Burton states: "We bought a Lincoln handheld plasma cutter

for cutting seized steel plates in a Rademacker bakery machine, only the Lincoln plasma cutter proved capable of the task. I then wondered if Lincoln did a fibre laser, so I put it on the internet and they did.

"I didn't know laser cutting that well, so it was more brand loyalty. However, the performance has validated our choice. Customers are delighted with the fast turnaround service and the quality of the cut is exceptional."

The Linc-Cut 2040A specified by Burton features a 2 m by 4 m cutting bed and a 12 kW laser. Thomas Burton says: "I wanted a 12 kW laser to cater for the diverse material sizes. If you're investing, why not go for the best?"

Paul Eastburn from Kerf explains the technical rationale: "Because Burton is offering a subcontract service, they are trying to give themselves every chance of covering all areas of the market, hence the reason for choosing the 12 kW machine."

The cutting capacity proves impressive. Thomas Burton reports: "We've cut everything from 0.5 to 25 mm stainless and 1 to 40 mm mild steel with cutting speeds up to 45m/min depending upon material thickness."

The shuttle table on the Linc-Cut 2040A represents a critical productivity feature. "While it's cutting, we can unload parts from the shuttle table and load the next sheet. It allows continuous operation and maximises our productivity," adds Thomas Burton.

Burton specified Lantek nesting software for offline programming, recommended by Kerf. "The Lantek software works harmoniously with the Linc-Cut 2040A for all our cutting parameters," Thomas Burton notes. The Lantek software suite includes comprehensive



technology tables with cutting parameters for various materials, thicknesses, speeds, feeds, and acceleration rates. The machine also includes Lincoln Electric's proprietary software, which operates within the machine. This significantly improves productivity, setup times, programming times and simplifies the learning process.

The machine's workload has exceeded expectations. Thomas Burton explains: "It runs all day, but on one recent project involving 276 sheets of 3 mm stainless steel, we were cutting day and night, running 24 hours a day until project completion. That reliability and uptime are another reason we selected Lincoln and Kerf."



Discussing the workload, Thomas Burton adds: "We do production runs as well as small quantities. On one recent job, we had to cut 2,000 parts with pieces measuring 600 by 700 mm. As well as cutting stainless and mild steel, we'll occasionally do aluminium work too. The machine is always cutting and we always have one man running it. When customer production lines are down, the hourly cost can be significant. One food plant recently reported that downtime for a production line creates losses of £7,000 per hour, so having the Lincoln machine to support our customers in getting production up and running urgently is imperative and the local fast turnaround service from Kerf is hugely appreciated."

The laser installation represents only the beginning of Burton's Engineering Services investment programme. "We've just purchased a CNC press brake as it goes hand in hand with fibre laser cutting," Thomas Burton notes, explaining the logic of their integrated cutting and bending capability.

A current opportunity involves manufacturing auxiliary chains for a waste processing customer. The components are currently sourced from the USA at approximately £250,000 per unit with



three-month lead times. Thomas Burton continues: "Having the capability to produce this locally will significantly reduce the lead-times and costs for the customer whilst enhancing quality and enabling the end user to have a complete service from a single source."

Thomas Burton concludes: "We're delighted. It's an excellent machine. We are likely to buy another laser when the existing machine gets too busy." Would the next machine be another Lincoln? "Most definitely."

Kerf Developments Ltd

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Salvagnini links modular automation, MCU sorting and simpler programming to keep mixed production moving

Labour is tight, lead times are shorter and the mix keeps shifting. For subcontractors, losses often sit around the laser: handling, part identification and rebuilding kits for downstream steps.

Salvagnini's current laser line-up includes L3, L3.G4 and L5. This portfolio combines fibre laser cutting with a broad automation range for storage, loading, unloading and connection to downstream processes, supporting everything from stand-alone operation to flexible manufacturing systems, smart job shops and unmanned production.

The MCU cartesian manipulator brings this automation approach directly to the cutting worktable. It automatically stacks parts of different shapes, sizes and weights, reducing manual separation and the waiting time before the next operation starts. For job shops, the key benefit is controllable flow: parts can be sorted by production order, kit or next workstation and single parts can be made available quickly for urgent downstream processing. Where required, MCU can also physically integrate the laser with panel benders or robotised bending cells.

Programming is handled through NEXUS, Salvagnini's software for programming MCU. Its algorithms optimise grips and movements and minimise stacking time, with programming possible in the office, on the machine, or in a mix of both. NEXUS also allows the stacking strategy to be set before the nesting program is created, so downstream requirements drive the unload logic.

On operating cost, ACUT extends cutting to



the use of suitably treated compressed air with productivity similar to nitrogen cutting but at much lower cost, supported by optional turnkey air treatment and pressure management devices.

Artificial vision applications add flexibility where time and errors create waste: AVS supports sheet positioning using references from previous machining; NVS checks beam centring and uses machine-learning algorithms to monitor nozzle condition to help reduce waste; SVS acquires an image of a sheet-metal leftover on the worktable and converts it into a DXF that can be used as the starting point for a new nest. This helps make use of leftovers for urgent requirements and reduce material waste.

A new version of the APC2 process sensor strengthens stability and speed to first good part. It monitors piercing in real time, checks for



any cutting losses and, in the event of a fault, stops the process and resumes it with adjusted parameters. The latest APC2 uses AI models to improve performance, reduce false positives and adapt to real machine conditions.

In a typical mixed-batch week, a job shop can load from automated storage, cut short runs and let MCU deliver sorted stacks straight to bending or panel bending, with OPS software supporting accurate data traceability on the shop floor and returning feedback to the factory ERP/MRP in real time.

If your reality is high-mix, variable volumes, kit-based orders and frequent urgencies, often with bottlenecks between cutting and bending, Salvagnini's laser approach is designed to stabilise flow: less manual handling, fewer sorting errors and a more direct path from cut parts to downstream operations. To discuss the right configuration for your workflow, layout and production mix, contact Salvagnini UK & Ireland.

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www.salvagninigroup.com



Presenting high spec, intelligently priced fibre laser machines at MACH

Manufacturers and subcontractors looking for high performance, intelligently priced fibre laser metal cutting at MACH 2026 could do well to explore the new Cross Series range of machines from Nukon Lasers UK.

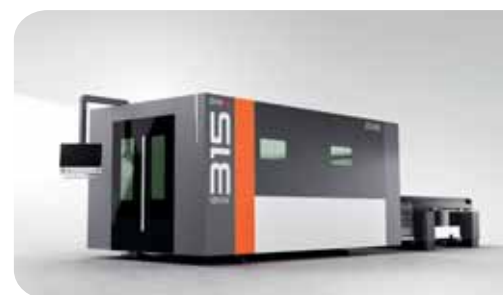
The sister company of leading tube bending machinery manufacturer Unison Ltd, Nukon Lasers UK is already well-known for its high quality European-built fibre laser machines and press brakes. Through the new Cross Series, it offers a massively re-engineered range of machines to make high spec metal cutting even more attainable.

Designed with a strong focus on productivity, Nukon Cross machines offer powerful 2D flat sheet metal cutting capability and can be specified with bed sizes of 3 m x 1.5 m, 4 m x 2 m, or 6 m x 2 m. Power options range from as little as 2 kW, right up to 30 kW for the most challenging of laser-cutting applications.

To enable Cross Series customers to tailor their new fibre laser machine to their specific needs, Nukon also offers a number of

impressive optional features. Depending on model, buyers can choose from state-of-the-art American-made nLIGHT fibre lasers, or from the Raycus range of extremely robust fibre lasers. In fact, thanks to Nukon's use of Raycus power sources, prospective buyers will find that the cost of reliable, high-performance laser cutting of mild and stainless steel has fallen considerably.

Advanced Lantek Expert CAD/CAM nesting software can also be specified with each Nukon Cross machine, as can CutLine programmable beam-shaping technology for nLIGHT models. Additionally, Nukon's innovative Plus Cut technology is offered on machines with resonators above 12 kW. Developed for the precise cutting of thicker materials, Plus Cut delivers fast, stable clean cuts on mild steel of 20 mm thickness and above. Other options include automatic nozzle cleaning, cut detection, piercing sensing and automatic nozzle changing. All of these technologies help to ensure businesses are competitive in today's



commercial environment. Cross Series machines have also been designed to integrate with the full range of Nukon automation systems, for huge productivity benefits with minimal manning levels.

"Our new Cross Series makes high quality, highly reliable European-built Nukon fibre laser cutting machines accessible to even more UK manufacturers and subcontractors, all with uncompromising levels of aftersales support from the Nukon Lasers UK team," says the company's sales director, Steve Haddrell.

Unison Ltd

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L3.G4 features a wide range of advanced process control and efficiency solutions, which improve performance and make it a highly productive, versatile and easy-to-use laser, with reduced power consumption and competitive running costs. It can be configured with compact and highly dynamic automation devices equipped with specific solutions to meet all kinds of production needs.

salvagnini

ESAB launches Tracfinder welding tractors and ROBBi mobile cobot

To help metal fabricators improve productivity, quality and workforce needs, ESAB has launched its new Tracfinder Rail and Tracfinder Wheel series of battery-powered welding tractors and unveiled its newly branded ROBBi™ Mobile cobot welding system.

ROBBi is now available with the Aristo Edge 500R power source and RoboFeed Edge robotic wire feeder, which offer next-generation capabilities. Compared to manual welding, these automation solutions can typically increase output per operator by 70 to 100 percent.

ROBBi Mobile welding cobots feature a Universal Robots' UR10e or UR20e industrial robot arm and a Siegmund 32- x 48-in. or 5- x 10-ft. table. The ESAB Teach Tool uses a 'no code' or plain language program so users can effortlessly incorporate a multitude of functions that enhance performance and productivity.

Aristo Edge 500R ensures precise arc starts and enhanced stability across four advanced WeldModes: THIN, ROOT, ROOT Pipe and SPEED as well as an Advanced Pulse WeldMode. All WeldModes enhance arc stability, offer more control at faster travel speeds and reduce spatter for less post-weld clean-up. The Aristo Edge platform also empowers independent development of synergic lines.

Tracfinder Rail is designed for welding in all positions using high-stability rails and a rack-and-pinion transmission to prevent slippage at speeds up to 71 in./min (180 cm/min). Its unique joint-teaching software enables users to create a weld path with up to 50 points.

Tracfinder Wheel, the most versatile autonomous welding tractor on the market, features a magnetic base with 62 lbs, 28 kg of magnetic force that enables it to operate in all welding positions at speeds up to 79 in./min (200 cm/min), including vertical up and down, overhead and on inside and outside diameters. New tracking software adjusts the Tracfinder Wheel's trajectory based on torch position, eliminating the need for rails and minimising setup time. Dual motorisation, independent left/right control and 4-wheel drive ensure optimal traction and stability in all welding positions. The optional remote control lets users adjust direction while the tractor is moving, much like a remote-controlled car.

Designed for maximum flexibility, Tracfinder tractors feature a common operator interface that is available with Standard, Advanced and Advanced+ control packages. The two Advanced packages feature a remote-control interface for operations up to 66 ft, 20 m away, as well as advanced software. The Advanced+ package also features a communication module for two-way communication with the Aristo® Edge 500R power source and RobustFeed Edge wire feeder; otherwise, Tracfinder works with any brand of welding power source.

The Tracfinder advanced controllers enable users to save up to 30 jobs, storing programs for tractor parameters that include weld speed and length, delays, repetitions, stitch welding, back-step welding, three standard weaving patterns, the ability to customise the weave dwell time, width and speed and a special multi-axis weaving function that combines horizontal and vertical weaving.

Because all systems feature a common central control base and components, users can start out with the Standard control and upgrade to an Advanced or Advanced+ control.

By making continuous welds, Tracfinder tractors reduce rework associated with start/stop defects. In applications where end-users expect uniform weld bead profile and penetration, mechanised tractors deliver consistency without the cost or complexity of automation. They also



reduce operator stress by reducing fume and UV radiation exposure, as well as reduce welding in uncomfortable positions.

Applications include those associated with shipbuilding, offshore yards, structural steel, tank and vessel, pipeline, wind tower, repair and maintenance, especially hardfacing and high-volume fabrication. Operating time for the carriage battery is between 10 to 20 hours, enabling the tractor to run for an entire shift before swapping out the battery, which is a standard Li-ion 18V power tool battery.

For conventional MIG and pulsed MIG processes, ROBBi pairs with the Aristo 500ix power source and RobustFeed U82 wire feeder, which feature pre-programmed synergic lines for common welding alloys.

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The Fortis series rises to this challenge with up to 240 optimised welding characteristics, specifically engineered to meet the rigorous demands of steel construction. It delivers consistently reliable performance, making it a standout solution for professionals who value precision, efficiency, and adaptability.

In addition to steel, this MIG/MAG welding machine also masters materials such as aluminium and stainless steel effortlessly, especially in combination with the pulsed arc.

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Fruehauf's rich heritage is a true testament to its inventive spirit and steadfast dedication to the bulk trailer manufacturing sector. With a history that spans over a century, the company has consistently pushed the boundaries of trailer design and production.

This continuous evolution mirrors the unwavering commitment to quality and service upheld by Fronius. At its Grantham facility, Fruehauf utilises an impressive array of 31 TPS 400i high-performance MIG/MAG welding systems from Fronius, alongside a Fronius iWave 300i AC/DC and has recently integrated a FlexTrack 45 Pro for automated sidewall welding into its operations.

As an industry pioneer, producing in excess of 500 trailers annually, Fruehauf manages the entire manufacturing process for its tipping and bulk trailers at its Grantham plant. Each trailer is crafted to meet exacting specifications, tailored to the unique needs of its customers, and delivered on schedule. Fruehauf precisely engineers both chassis and body components, completing the transformation from raw materials to finished product in under two weeks.

"For the past two years, we've relied on Fronius welding systems because their offerings align perfectly with our core values of commitment to quality and reliability." Artūras Mitunevičius, production director at Fruehauf shares. "As a valued partner, Fronius consistently provides insightful advice and introduces cutting-edge products that enhance our operations. The continuous technical advancements, such as those found in the TPS 400i and its exceptional welding capabilities, have significantly improved our performance by increasing the speed and flexibility of our manufacturing processes. These systems enable us to confidently deliver the dependable products our reputation is built upon, ensuring that their strength and reliability remain unmatched; qualities that result in almost zero warranty issues."

Fruehauf's trailers retain their worth over the years and the company provides extensive

Precision in motion

Fruehauf leads the way in bulk trailer manufacturing with advanced Fronius welding technology

service and repair solutions, including replacement or courtesy trailers when needed. This ensures customers experience consistent support, even during the rare instances of warranty repairs. The trailers incorporate a multitude of welded components that must withstand high mechanical stresses such as shock, vibrations and torsion.

The aluminium bodies are structurally capable of bearing up to 30 tonnes, yet they offer a significant weight advantage over standard trailers, saving up to 250 kg. This reduced weight allows customers to carry a higher payload, providing a competitive edge.



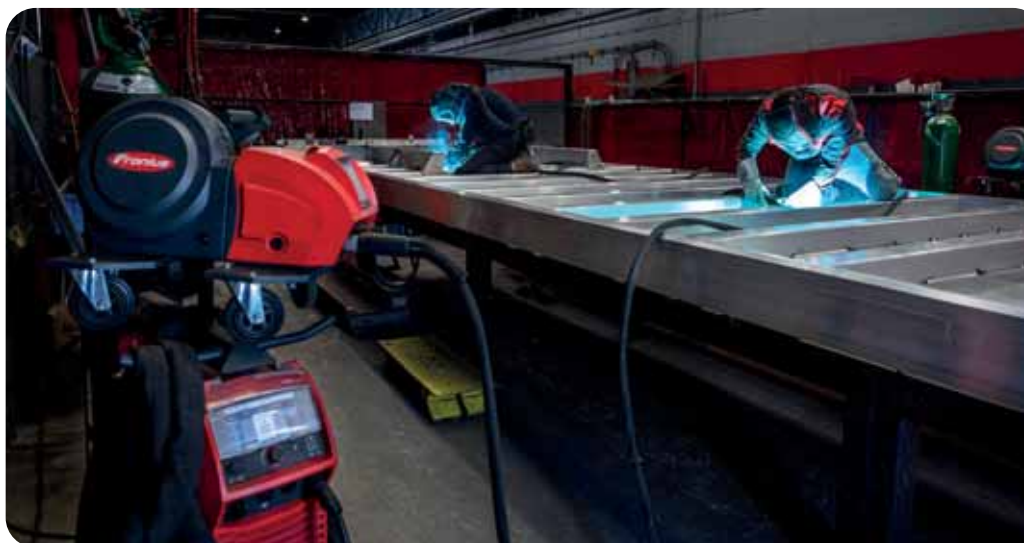
Welding these aluminium bodies presents numerous challenges, including distortion and porosity. Aluminium's high thermal conductivity and expansion rate make it susceptible to warping. Moreover, welding dissimilar material thicknesses introduces its own set of difficulties, such as when welding the 5/6 mm thick top rail to the aluminium panels of only 2.2 mm wall

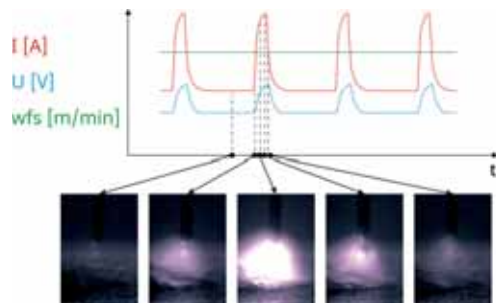
thickness. This necessitates precise heat control to avoid burn-through and lack of fusion.

All of these challenges and requirements are expertly managed when employing the Fronius TPS 400i, which is designed to address complex welding challenges, especially those encountered in aluminium fabrication like at Fruehauf.

The TPS 400i is equipped with intelligent control systems that allow precise adjustment of welding parameters. Penetration and Arc Length Stabilisers ensure consistent weld quality by maintaining the desired penetration and arc length, which aids in controlling the heat input more effectively. The TPS/i can be customised with various software packages to meet specific welding requirements. The Pulse feature is typically used at Fruehauf to ensure the thicker top rail receives sufficient heat for fusion, while the thinner panel is protected from overheating. Pulse technology enables the arc to alternate between high peak current and a low background current. This reduces heat input, minimising distortion and burn-through, which is especially critical when welding thin to thick materials. The controlled droplet transfer in pulse mode also reduces spatter and enhances weld bead appearance.

Fruehauf faces the same shortage of skilled welders that has affected many manufacturing industries in recent times. Using the Fronius TPS/i ensures that repeatable welds can be achieved with the consistent quality required. This is because the parameters for each job can





be set and stored on the system, allowing any operator to quickly and easily pick up any given job in the production process. These welding machines have been paired with the Push-Pull torch with 10 m hose pack.

The “EasyJob” setting on the Jobmaster torch allows users to store up to five welding tasks directly on the welding torch and quickly switch between them. This feature enables them to access essential welding tasks for their daily work right on the torch, eliminating the need for frequent trips between the welding system and the workpiece. Consequently, their daily operations become more convenient and notably more efficient. The ergonomic design and multi-lock torch neck also makes it ideal for positional welding, thereby improving weld quality and speed.

The construction of sidewall panels involves three main components: the front post, planks and top rail. These elements are created from extruded aluminum profiles, which are supplied to the bulk trailer manufacturer from production plants in Padron, Spain and Doncaster, United

Kingdom. Before the welding process begins, the profiles are cut to the necessary length and shaped using both band and circular saws. In recent developments, the manufacturer has started assembling the side panels of the trailer using a specially created assembly jig, after which the panels are immediately welded. This welding process utilises the Fronius FlexTrack 45 Pro rail guided welding carriage for longitudinal seam welding and employs a TPSi 400i.

The company conducted an evaluation of this semi-automated process and determined that, when compared to a fully robotic system, the Fronius FlexTrack welding carriage was more cost-efficient.

Artūras Mitunevičius explains that after several months of testing and modifications to tailor the welding process for side panels in Fruehauf’s Research and Development department, the versatile FlexTrack 45 Pro has been used in production since June 2024. It is utilised daily for a minimum of eight hours, with significant advantages including the consistent quality of the weld, thanks to precise movements, steady welding speeds and improved comfort for the operator. Additionally, he notes that the company has managed to save roughly one hour per sidewall in welding time, translating to approximately 800 to 1,000



welding hours annually. With current labour rates, these time savings amount to financial savings of £20,000 to £25,000 per year, with the return on investment being achieved in under two years.

The company continues to refine small details within this process to enhance operator comfort and fine-tune welding parameters for optimal welding quality. This dedication to automation marks an exciting chapter for Fruehauf, as the company integrates its long-established engineering expertise with cutting-edge advancements, setting the stage for future growth and innovation.

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Retrofitting manual welding stations

When and why to go robotic

As global supply chains place increasing emphasis on tighter tolerances, shorter lead times and greater product variability, the limitations of manual welding methods are becoming more pronounced. For manufacturers striving to meet these evolving demands without sacrificing infrastructure or flexibility, robotic retrofitting offers a technically robust pathway to automation.

In this article, Hakan Aydoğdu, CEO at CNC automation manufacturer Tezmaksan Robotic Technologies, explores why upgrading manual welding stations with robotic technology is a scalable, strategic and technically sound decision.

A combination of macroeconomic and operational factors makes robotic retrofitting an increasingly attractive option. The global shortage of skilled welders continues to constrain production, as manufacturers struggle to maintain output with a shrinking labour force. According to the American Welding Society, an additional 320,500 welding professionals will be needed by 2029, while more than 157,000 current welders are nearing retirement.

At the same time, customer expectations for consistency, traceability and defect-free performance are rising, particularly in highly-regulated sectors such as automotive, aerospace and defence. Meeting these expectations using manual processes alone is becoming less feasible.

Retrofitting enhances existing workstations by integrating automation, allowing manufacturers to preserve their current layout and infrastructure while significantly boosting performance. This strategy enables cost-efficient gains in weld consistency, capacity and throughput all without expanding physical space or personnel.

Rather than replacing entire production lines, robotic retrofitting modernises manual stations with advanced capabilities. For manufacturers

managing a hybrid landscape of legacy equipment and next-generation production goals, retrofitting represents a logical step toward Industry 4.0 integration.

Knowing when to retrofit is crucial. Many signs are already present on the shop floor: inconsistencies in weld quality linked to operator fatigue or shift changes, rising rework and scrap rates, or frequent downtime in high-mix environments. These inefficiencies often signal readiness for automation.

Increasing product complexity can also push manual methods to their limits, particularly when precision geometries or tighter delivery windows are involved. In these cases, the inability to scale consistently and predictably becomes a strategic liability, directly impacting margins and competitiveness.

A robotic retrofit typically integrates a programmable robotic arm into an existing manual welding cell, accompanied by peripheral technologies such as rotary or tilt positioners, seam-tracking vision systems and Programmable Logic Controllers (PLCs) to manage weld paths. Many setups now incorporate real-time sensors and closed-loop feedback systems that adjust weld parameters, such as current, voltage or torch speed, on the fly to maintain weld quality even on variable joint profiles.

One of the key advantages of modular systems such as Tezmaksan's CubeBOX Welding Pro is their ability to adapt to diverse part geometries and cell configurations. This flexibility is critical in facilities with frequent changeovers or low-to-medium volume production.

Despite increasing adoption, robotic welding retrofitting is still slowed by persistent misconceptions. One outdated belief is that automation is only viable for high-volume, repetitive work. In reality, modern platforms support rapid reprogramming, dynamic tooling and multi-part workflows, making them

cost-effective even for job shops and contract manufacturers.

Another concern is workforce displacement. In practice, automation reshapes roles rather than eliminating them. Skilled welders transition into programming, process optimisation and quality assurance. These functions rely heavily on their technical knowledge and ensure the long-term success of automated systems.

Cost is also often perceived as a barrier. However, retrofitting is significantly more accessible than greenfield automation, as it leverages existing infrastructure. Furthermore, regional government grants and tax incentives aimed at boosting industrial automation can offset some of the upfront investment.

Robotic retrofitting delivers both immediate and long-term performance improvements. Once deployed, these systems achieve highly repeatable results with minimal deviation, often within sub-millimetre tolerances. This consistency dramatically lowers rework rates and improves first-pass yield.

With higher arc-on times than human operators and no fatigue, robotic welders sustain output across shifts and even enable lights-out manufacturing. Integrated data capture allows manufacturers to track weld metrics in real time, contributing to traceability, predictive maintenance and audit compliance and this is particularly valuable for facilities seeking ISO certification.

Precision heat input, enabled by stable travel speeds and dwell times, reduces distortion in thin or complex components. Over time, improvements in scrap rates, labour efficiency and production uptime yield a strong return on investment.

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