



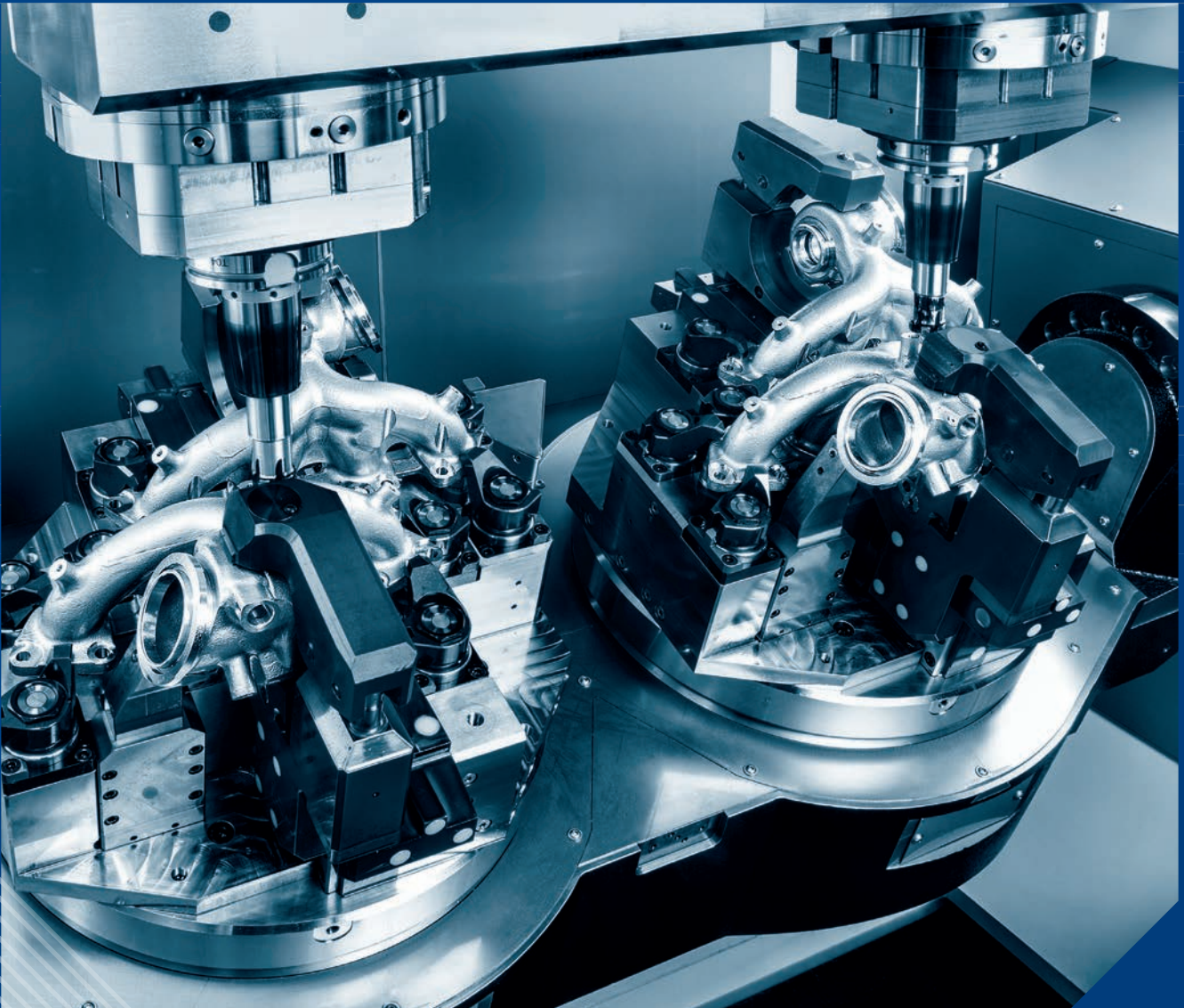
# Engineering Technology Group

WHO WE ARE // OUR MACHINE TOOL PRINCIPALS

Making Engineers Champions



# WELCOME TO A NEW KIND OF THINKING



# TABLE OF CONTENTS

04	Foreword from Martin Doyle, Group Managing Director		
06	About The Engineering Technology Group		
07	The Turnkey Solution		
08	Our Capabilities		
	09	10	12
	Technical Support	Training	Service & Spares
14	Our Structure		
	16	18	20
	ETG Headquarters	ETG Ireland	Hyfore Workholding
22	Our Principals		
	24	25	26
	Nakamura-Tome	Chiron Group	AXILE
	27	Mitsubishi Electric	
	28	29	30
	DNE Global	Quaser	OPS Ingersoll
31	Sub Contract Service		
32	Our Associates		
33	Software		
37	Technical Partners		
38	Net Zero Initiatives, ISO9001 Quality & ISO14001 Environmental Management Certifications		



# FOREWORD FROM MARTIN DOYLE, GROUP MANAGING DIRECTOR

Welcome to the Engineering Technology Group (ETG). I hope you enjoy perusing our brochure and it assists you in gaining a more informed insight into the structure of our business, our exceptional products and the services we deliver as a Group Business.

Over the past decade, ETG has been in a very fortunate position as we have witnessed unprecedented levels of growth. Recent years have brought significant challenges to the manufacturing industry with the impact of Covid and other geopolitical events. In the period running up to the pandemic, we significantly increased our product and service offerings, and to successfully integrate new brands we performed a detailed examination of the company and consequently decided to restructure the business model.

This restructuring has created a more efficient and streamlined business that is paving the way for unsurpassed service levels for new and existing customers. Nowhere could this have been demonstrated better than at the height of the pandemic when

we supported our customers throughout the unprecedented period by diligently putting structures in place to ensure continuity of service and support.

Our ever-evolving business continues to build upon the extensive machines and services already offered by trusted principals such as CHIRON Group, Nakamura-Tome, Mitsubishi, Quaser and OPS Ingersoll. The pace at which we have added new technology to the portfolio has continued with the addition of cost-effective fibre laser cutting technology from DNE Global. In addition, we have most recently added the AXILE brand to the ETG stable to complement our existing machine tool brands. AXILE is a market leader in heavy-duty agile 5-axis machining centres and the company's ART™ system of digital technology and machine monitoring innovations will astound manufacturers with its ability to monitor every aspect of the machine, such as Industry 4.0 technology that can monitor power consumption, tool and component wear and much more.

The new brands and technologies have been absorbed into the new business model and this forms an integral part of the company restructure and product offering. As a company, ETG was previously an amalgamation



of numerous business divisions that operated without maximising the full opportunities of a 'Group' structure. The restructure has created more significant synergies across the 'Group', streamlining administration, sales and service departments. Not only has this created opportunities that have energised the sales force, but the team now has a technology solution for every manufacturing business across all industry sectors.

Consequently, by giving our sales team complete access to the entire portfolio that includes everything from cost-effective to high-end machining, CAM, workholding, automation, software and Industry 4.0 solutions plus many more, the opportunities are vast.

All product lines and solutions are supported by service, spares and an engineering team of experts that can deliver complete turnkey solutions. No other machine tool vendor caters for the industry as extensively as ETG. By amalgamating all business divisions, the opportunities are significant.

The new business structure has enhanced our ability to respond to customer requests on everything from dedicated service and application engineer support to

machine tool and complete turnkey solutions – and the positive feedback and repeat custom from our clients is a testament to both our business model and the dedication of our staff.

I extend an invitation for you to come and witness for yourself, the cutting-edge technology we deliver through our principal specific, turnkey machining cells. Our showrooms are located at our UK Headquarters in Wellesbourne, Warwickshire and also in Newbridge, Co. Kildare in Ireland. Our Hyfore Workholding manufacturing facility is based in Coventry, West Midlands.

Our machining cells have dedicated software, bespoke and standard workholding, automation, robotics and more. By appointment, we can undertake comprehensive metal cutting demonstrations and look forward to welcoming you to our facilities.

**MARTIN DOYLE**

**Group Managing Director,  
The Engineering Technology Group**



ETG brings together the strengths of the world's most advanced manufacturers of high technology machine tools, automation, laser cutting, additive manufacturing, wire EDM, workholding systems and industry 4.0 advancements to deliver highly productive and effective metal cutting solutions.

ETG brings a **new kind of thinking** to the machine tool market by providing in-depth technical support and applying unrivalled insight, experience and expertise. With this, ETG maximises the benefit from your new investment with a bespoke **manufacturing solution that is tailored to your needs.**

Our commitment is to offer exceptional customer service, in-depth product knowledge and factory trained support teams as well as on-going service. This is all delivered to the highest standards, as expected from our renowned principles and associates.



Privately owned independent company, established in 1996.



**Offering the UK and Ireland the largest range of CNC machines:** Milling and turning, wire EDM, laser cutting, creep feed grinding, 3D/additive manufacturing, balancing, super-finishing and gear grinding.



**3 sites based in the UK & Ireland:** ETG Headquarters, ETG Ireland and Hyfore Workholding.



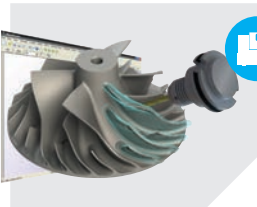
**Key Market Sectors:** Automotive (with a specific focus on EV), aerospace, medical, toolmaking, power generation, defence, motorsport, education and construction.

# THE TURNKEY SOLUTION PROVIDER



## EVALUATE

We assess all variables during an evaluation process, such as your current and future requirements, the machine specification and workholding through to automation and software. ETG utilises its vast experience to deliver the best manufacturing solution, increasing productivity and profitability for your business.



## DESIGN

ETG will design and implement a machining process that will allow you to work faster, more efficiently and at lower operational costs. We can create a process strategy that factors in clamping positions/axes, machine-tool compatibility, cutting tools, loading, automation and of course, the operator.



## CAPABILITY

ETG can provide a complete turnkey solution to match your production requirements whilst enhancing cycle times and component quality. This capability is achieved through feasibility studies and collaborative working to determine the optimal tool-selection, automation, software, CNC programming, collision checking, measuring and prototype testing.



## IMPLEMENTATION

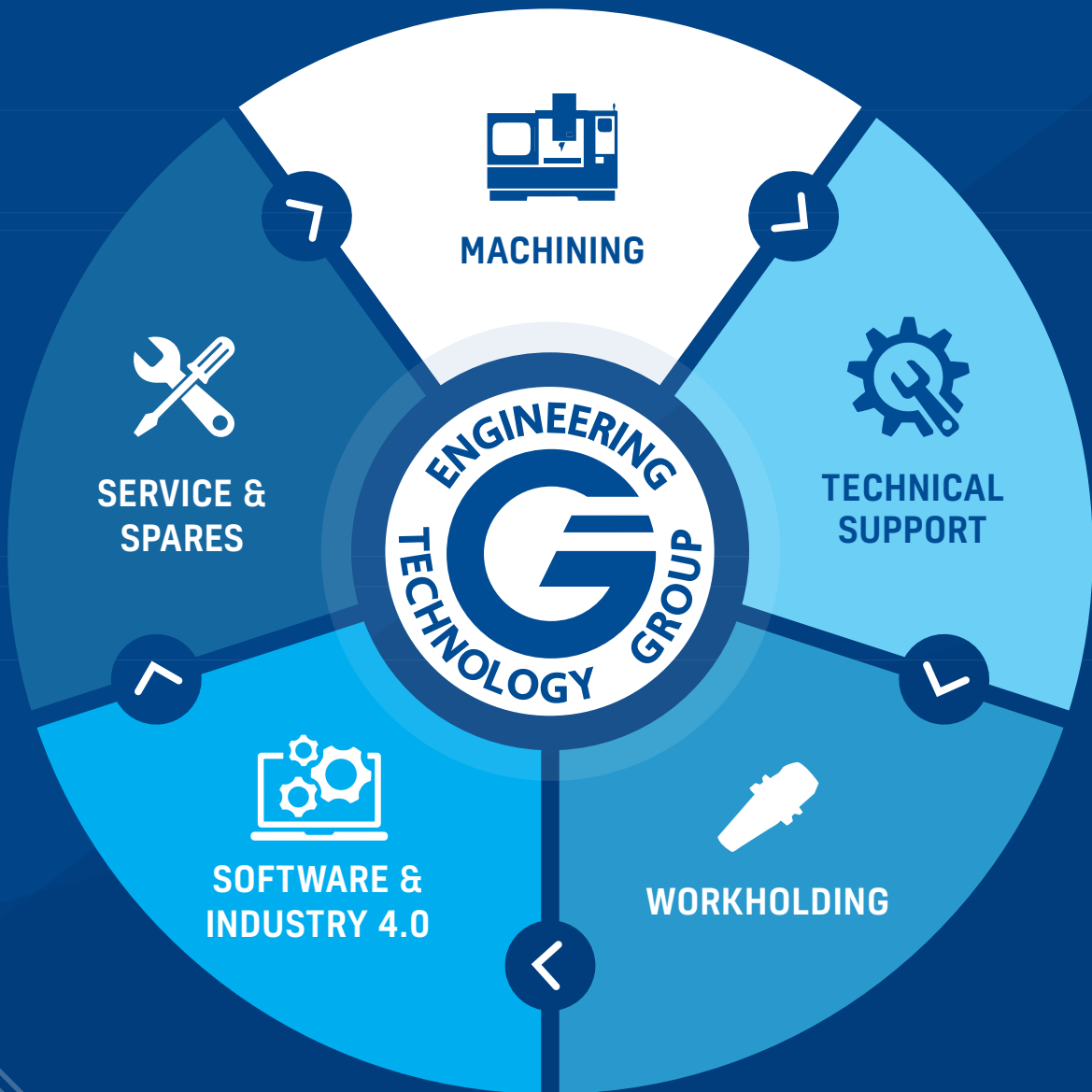
Once ETG has fully tested the turnkey concept, we will implement and deliver the machining cell, on schedule and to budget. Training will be delivered on-site or at the ETG headquarters in Wellesbourne.



## AFTERCARE

Once your turnkey solution has been delivered, ETG will remain your trusted partner. ETG will deliver comprehensive aftercare as well as service and scheduled maintenance support from our large team of skilled service engineers. All this is underpinned by an in-house facility that is stocked with OEM spare parts, keeping your machines running smoothly and efficiently.

# OUR CAPABILITIES





# TECHNICAL SUPPORT



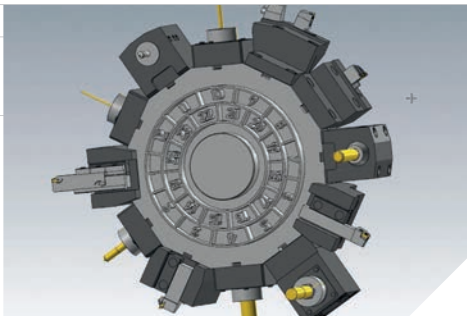
Machine tool solutions often require optional equipment such as bar feeds or automation. Working closely with its technical partners, ETG installs and tests all relevant equipment, managing faster machine delivery and integration to ensure optimum cycle-times, without having to rely upon a third-party engineer to arrive from abroad.



**TURNKEY DESIGN & IMPLEMENTATION**



**RETURN ON INVESTMENT STUDIES**



**ENGINEERING & MANUFACTURING DESIGN**



**PROCESS & PRODUCTIVITY IMPROVEMENT**

Technical support also offers:

- Cost per part studies
- Project/part support
- Research & development
- Part prove-outs



## TECHNICAL SUPPORT: TRAINING



**At ETG, we have moved beyond simply supplying machine tools. We also provide complete turnkey solutions and a critical element of this is training. We are able to equip our clients with all the skills they require to realise optimum return on their investments.**

Under this, we ensure clients are adequately trained to make the most of everything from software to machinery, utilising our state-of-the-art, dedicated facilities to provide applicable hands-on training.

Learning can be tailored to the specific needs of the customer with the option of an additional suite of personally developed courses.

Supporting us with advanced training, are our industry-leading technical partners whose products and expertise have been made available to aid clients in their processes.

In addition to client training services, ETG has partnered with In-Comm to provide apprentice training for the next generation of engineers. We are investing in the future of the industry.

In-Comm is one of only a few training providers to be rated 'Ofsted Outstanding' and the Engineering Technology Group is proud to maintain our forward-thinking strategy and working relationship with them.



## Apprenticeships

Through In-Comm, ETG is investing in the future of engineering, making important steps to bridge the industrial skills gap and train the engineers of tomorrow.

Future engineers are trained using the most advanced machines and technology available. Learners are provided with the chance to apply their theoretical learning on live manufacturing projects, putting learners ahead of their peers when completing conventional courses.

Apprentices are also provided with the opportunity to progress to degree level, without the need to undertake the financial burden of university study.

## Access To Technology

Over £6m of machinery and technology has been installed at training facilities across the UK and we want to make sure that the entire supply chain benefits. With this in mind, we are encouraging SMEs to get in touch if they would like to hire time on one of the machines to carry out prototyping or advanced manufacturing work that would otherwise be too costly.

## Upskilling

For the UK manufacturing sector to retain its position as a world leader, upskilling is vital. Manufacturers must be kept abreast of the latest developments and given the opportunity to develop their existing skills and that of their staff.

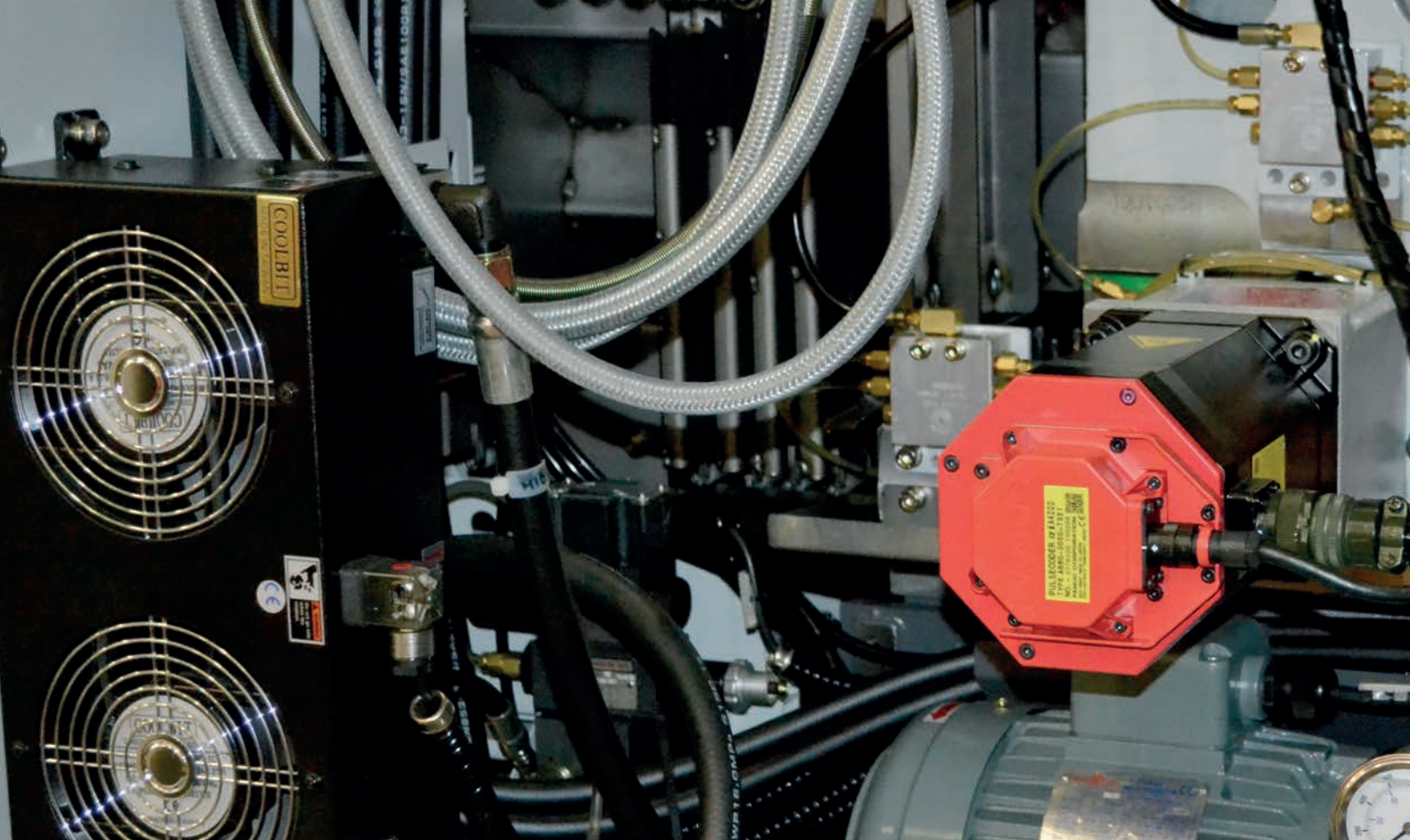
ETG is committed to continuous upskilling for long-term clients. This is provided both in house at our advanced facilities, at client sites or through our partnership with In-Comm.

All training is supported by our technical partners, enabling learners to utilise the very best the industry has to offer.

## ETG Demonstration Facilities

Our advanced facilities in the UK and Ireland allow us to fully demonstrate our selection of industry-leading machining solutions.

This is reinforced through our partnership with In-Comm, enabling clients to engage, learn and achieve the highest possible standards.



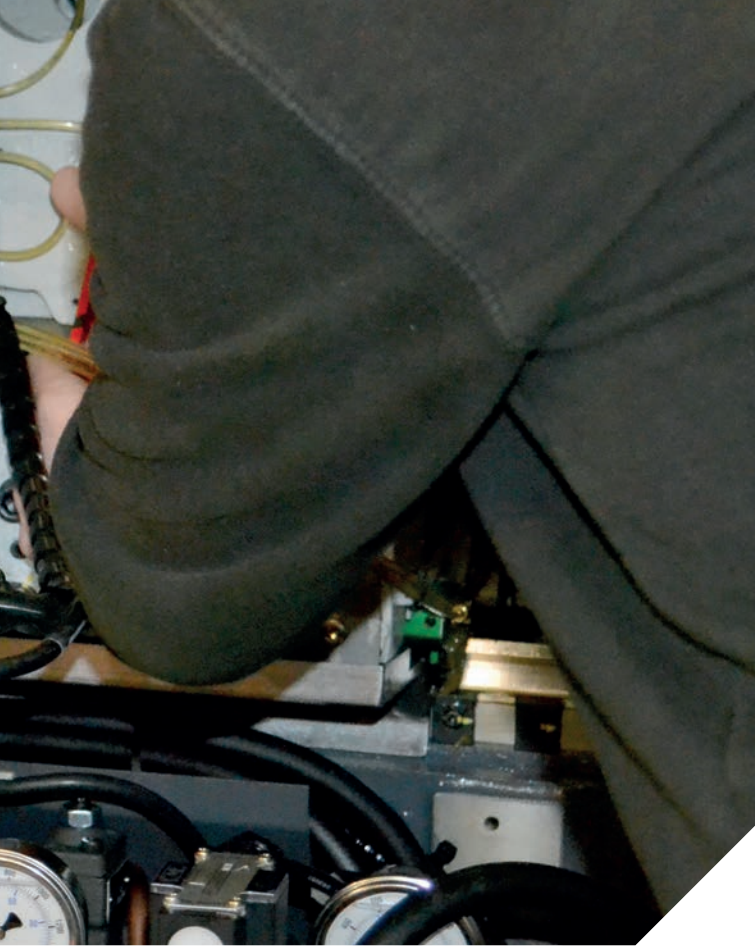
## ✓ SERVICE & SPARES



**Once a machine is installed, it's essential to keep your spindle turning. Part of ETG's philosophy is delivering machine lifetime support. With its dedicated service team, comprising of over twenty associate-factory-trained engineers, you will be assured of optimum production efficiency.**

The service and technical support division endeavours to exceed customers' expectations with first-class support tailored to the brands that ETG offers.

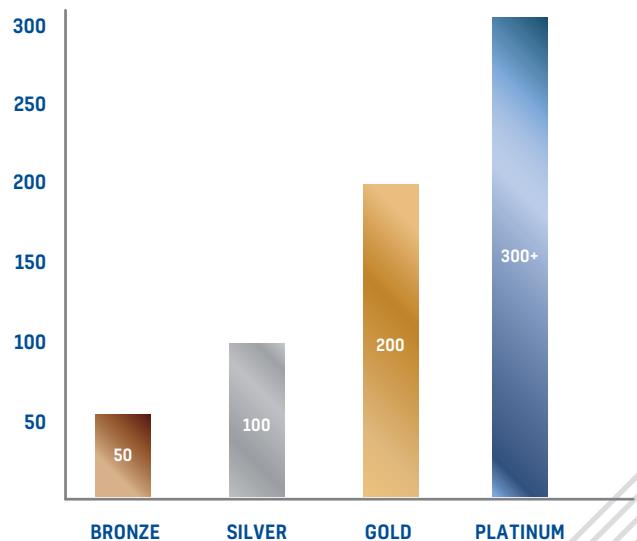
- Breakdown support (24hr response)
- Machine health checks
- Telephone support
- Customer feedback/continuous improvement
- Dedicated and experienced spares support team
- 24hr response on in-stock items
- 1,000's of stock items held at ETG HQ



## Support Agreements

Our Support Agreements allow customers to subscribe to a number of hours per year, allowing you to spread your service liability and achieve reduced costs. Our Support Agreements have 4 levels ranging from Bronze (50 hours per year) to Platinum (300+ hours per year) and give customers significant savings on hourly rates over those without any level of support.

- Support Agreements can be used for servicing, breakdowns, applications, technical and training support.
- Invoiced monthly and payment spread annually by Direct Debit
- One off payment option
- Silver, Gold and Platinum support packages incur hourly travel costs (maximum 4 hours)
- Gold and Platinum support package receive 15% discount on spares
- Extra top-up hours available
- Banked hours can be used to support equipment not supplied by ETG\*
- Technical and application support includes, audits, reports and project plans



\*At ETG's Operations Manager discretion

# OUR STRUCTURE



## ETG HEADQUARTERS

The Group headquarters encompasses the operations division, the engineering team, field sales activities, technical, pre-sales and internal sales support, spares, applications, project management and pre-delivery inspection, goods inward and despatch.

## HYFORE WORKHOLDING

Hyfore Workholding, ETG's workholding division, has its own in-house team of engineers to design and create bespoke and standard workholding. The manufacture, prototype testing and measurement of workholding solutions are also all completed at its Coventry production facility.

## ETG IRELAND

ETG Ireland replicates all of the services of the group, offering machine sales, service, technical support and all aspects of training, serving both the Republic and Northern Ireland from our facility in Newbridge, Co. Kildare.



ETG is structured into three divisions; UK Headquarters, ETG Ireland and Hyfore Workholding. Each has a clear objective, but all ensure the end-user receives the highest level of service.

Primary business activities are conducted in the United Kingdom and Ireland. UK operations are based at ETG's Headquarters in Wellesbourne, Warwickshire, while Ireland is serviced from Newbridge, Co. Kildare.





 WELLESBOURNE, WARWICKSHIRE, UK  
 [ENGTECHGROUP.COM](http://ENGTECHGROUP.COM)



 COVENTRY, WEST MIDLANDS, UK  
 [HYFORE.COM](http://HYFORE.COM) / [HYFORE.SHOP](http://HYFORE.SHOP)



 NEWBRIDGE, CO. KILDARE, IRELAND  
 [ETGIRELAND.IE](http://ETGIRELAND.IE)



## ETG HEADQUARTERS

**ETG is based at its established 35,000 sq.ft. facility located in Wellesbourne, Warwickshire. The Group has extensive and proven expertise in turnkey engineering, automation solutions and Industry 4.0 advancements, offering industry experience and capability from one source.**

We possess advanced engineering and management skills that encompass programming, logistics, systems integration and project management - all necessary to analyse, design and install the optimum solution.

ETG takes total care of machine preparation prior to customer delivery. This dedicated team are ready for any challenge, be it a "direct from stock" standard machine or a complex bespoke turnkey solution that

encompasses design, technical applications such as automation, engineering processes and cycle-time testing through to final acceptance.

With ETG's servicing and spare parts department also being based in-house you can be assured of the broadest range of machine tool spares and seamless technical support that is available to the UK and Irish manufacturing communities.







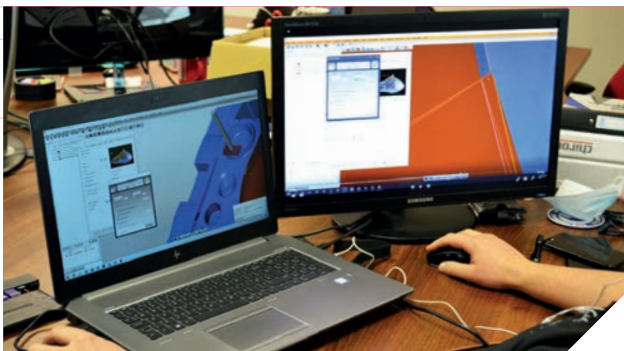
### GOODS INWARD

Machine tools from ETG's associates arrive from many locations around the world. ETG have a dedicated unloading and handling operation, once a machine has passed PDI and is ready for despatch, the engineering teams then deliver it to the customer's site and assist with installation and machine tool or turnkey solution set-up.



### PRE-DELIVERY INSPECTION (PDI)

ETG has a dedicated PDI team which is integral to delivering a seamless installation. In effect, a newly installed machine is delivered as near to 'plug-and-play' as possible. Undertaking PDI's and pre-delivery engineering work reduces lead times and simplifies installation.



### TECHNICAL SUPPORT

ETG technical support offers a wide variety of services including, but not limited to; turnkey design and implementation, return on investment studies, cost per part studies, research and development and part prove outs.



### SERVICE & SPARES

ETG machine tool spares department holds extensive inventories of machine tool spares and parts across all of the associate brands it represents, ensuring original manufacturer parts are available with rapid delivery.

## ETG IRELAND

**ETG - Ireland brings a new perspective to machine tool supply and support. ETG expanded its highly successful operations to cover all of Ireland in January 2014.**

Representing all the leading machine tool brands that are available within the group portfolio, coupled with an impressive software supply that is spearheaded by Mastercam & CIMCO, training and support is delivered from its base in Newbridge, Co. Kildare. The support of the group operations including PDI, 20+ dedicated service engineers, service aftercare and spares are all available.

Being experts in applications engineering, CAD/CAM programming and project management means that ETG Ireland can deliver complex turnkey packages ready to go straight into production. This expertise is combined with 24/7 support, training and preventative maintenance to keep customers operating at maximum productivity levels.





▲ The annual ETG Ireland Smart Factory Machining event



▲ ETG Showroom

### Cost Effective, Hands On Software Training

One of the services offered by ETG is comprehensive software training based on its Mastercam expertise as well as ISO training and refresher courses for FANUC, Siemens and Heidenhain programming systems, as well as comprehensive training on our Industry 4.0 based solutions that connect your machines to the future of manufacturing.

The training school can accommodate up to six operators at any one time and is fully equipped with PCs. The facilities are unique for two reasons, not only can those on the course become acquainted with the turning, milling and mill-turn features of Mastercam software, but they

can also put their newly learnt programming skills into live action via the machining centres.

In effect, a whole production workshop can be simulated across a typical two-day course, giving opportunities for those just beginning with a low knowledge base to others looking to upgrade their skill-set or wishing to undertake a refresher course.

Courses can be tailored to a specific need and ETG are happy to accommodate groups or individuals dependant on the requirement.

### ETG's Trusted Software Associates


## HYFORE WORKHOLDING



**Hyfore Workholding is a leading supplier of workholding and machine accessories, offering a comprehensive range of standard products to bespoke fixtures. Hyfore Workholding has the capacity and skills to manufacture a wide range of manual and automatic workpiece holding and handling systems for the manufacturing industry.**

Hydraulic fixtures and standard workholding is the core business focus at Hyfore Workholding Limited. The company was established in January 2001 and since its inception, the company has experienced continuous growth and currently employs over thirty dedicated, highly-trained professionals at its design and manufacturing facility in Coventry, West Midlands. Being centrally located, Hyfore is strategically positioned to service engineering businesses throughout the United Kingdom and

Europe. Hyfore Workholding considers itself the UK's premier bespoke hydraulic fixtures and standard workholding specialist - a company that can provide both simple off-the-shelf solutions through to bespoke workholding systems that have been designed and manufactured to customer specifications. Contact Hyfore to find out how we can reduce your set-ups and non-cutting times and improve your productivity through bespoke quality hydraulic fixtures and standard workholding.





## Getting the Most Out of CNC Machines

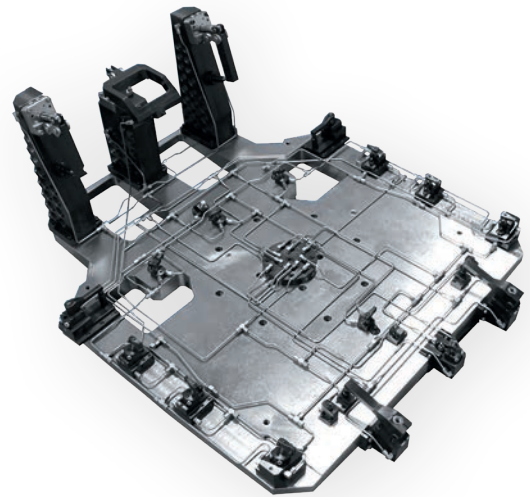
Hyfore Workholding can assist its clients in realising significant savings in medium and high-volume CNC production, using cost-effective bespoke workholding systems that help increase machine performance.

Hyfore Workholding specialises in the design and manufacture of high-quality, bespoke workholding systems for metal cutting, welding and assembly applications.

## Cost-Effective Bespoke Design

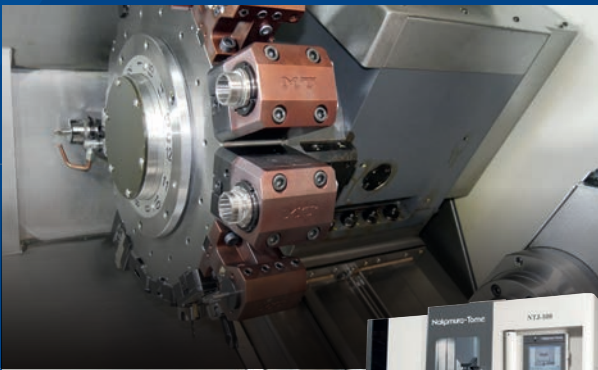
Hyfore Workholding’s highly qualified specialist engineers are dedicated to provide complete solutions to customers’ manufacturing requirements and offer complete turnkey solutions including:

- Mechanical and electronic design utilising CAD/CAM 3D modelling. This capability gives us a clear advantage when viewing complex fixtures and tool cutter paths, in relation to the fixture design.
- Quality testing and prove-out to agreed standards
- Project management
- After-sales service support
- Simultaneous engineering contracts



## Our Trusted Associates


# OUR PRINCIPALS



 **Nakamura-Tome**



**CHIRON Group**



**AXILE**  
agile smart machining



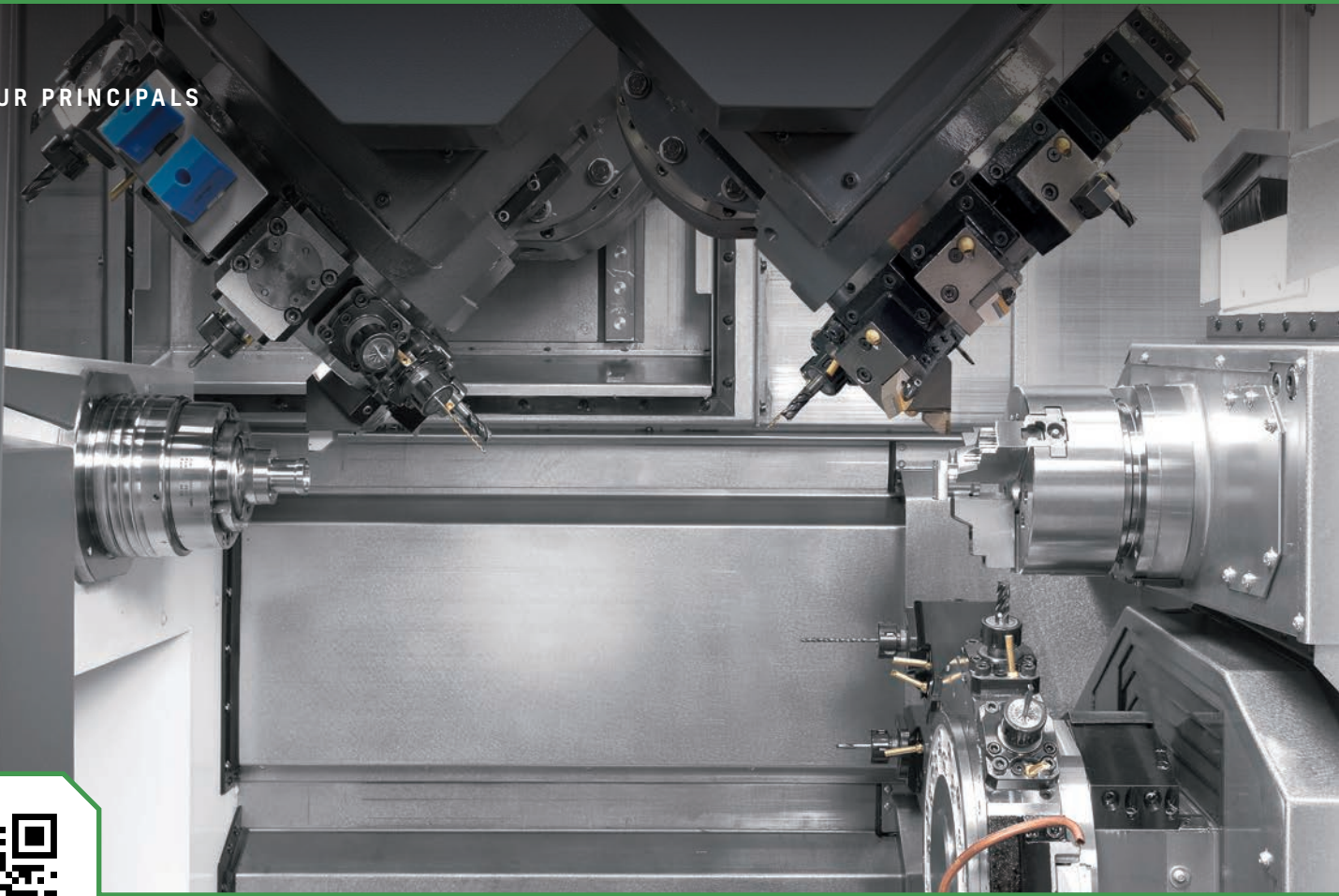
 **MITSUBISHI ELECTRIC**  
*Changes for the Better*



INCLUSIVE SUPPORT FOR EXCLUSIVE BRANDS



OUR PRINCIPALS



◀ SCAN FOR MORE



Nakamura has established a firm position as a world leader in the design and manufacture of single process multi-tasking mill/turning machines, developing products by utilising innovative technologies fostered in other machines such as high precision CNC lathes and machining centres.

Nakamura twin spindle machine tools with multiple tool turrets or tool changers offer high-torque power driven tools that give the flexibility and capability for machining the most complex mill/turned components in a single set up.

◀ Nakamura-Tome Head Office, Kanazawa, Japan





SCAN FOR MORE ▶

## CHIRON Group



The CHIRON Group range of vertical machining centres offer exceptional productivity and a wide choice of 5-axis, twin-spindle, swivel head and two axis rotary table options.

The emphasis on high speed axis travels combined with accuracy, stability and reliability make Chiron Group machine tools highly suited to high volume applications, automated cells and turnkey installations where maximum productivity is a primary consideration.

Through a lengthy history with the CHIRON Group brand, ETG is uniquely placed to provide a full range of CHIRON Group machining centres and turnkey solutions. CHIRON Group is one of the metalworking industry's first choices across small, medium and large-scale engineering and manufacturing environments.

◀ Client factory visit of CHIRON Group head office, Tuttlingen, Germany



◀ SCAN FOR MORE

**AXILE**  
agile smart machining



AXILE designs and builds agile and smart 5 axis vertical machining centres, mill/turn and large bed double-gantry machining centres with leading digital automation solutions at the heart of the technology.

As ETG's latest technology partner, manufacturers of complex parts and components in the UK and Ireland can embrace a new level of Industry 4.0 technology while creating a sustainable operating business model by introducing the AXILE brand to the shop floor.

As a machine tool manufacturer, AXILE believes that manufacturers should not have to choose between high-speed and high-performance machining, or worry about operating smartly and sustainably in the process – a philosophy that resonates with ETG and its customers. By combining the sheer agility of the new 5-axis and mill/turn machining technology and digitalised intelligent automation with Industry 4.0 advancements, AXILE has created an all-new approach for the future of machining.

◀ AXILE, Taiwan



SCAN FOR MORE ▶



As a world leader in technology, Mitsubishi Electric developed and produced the world's first electro-erosive machine (EDM). Today, Mitsubishi Electric remains at the forefront of wire EDM technology, continuing an uninterrupted chain of development dating back to the 1950's.

Mitsubishi Electric machines are produced to the highest standard in high specification conditions at their Germany-based facility.

ETG is the UK's sole distributor for Mitsubishi Electric wire EDM machines, providing its clients with exclusive access to the very best EDM technology available.

◀ Mitsubishi Electric Head Office, Ratingen, Germany



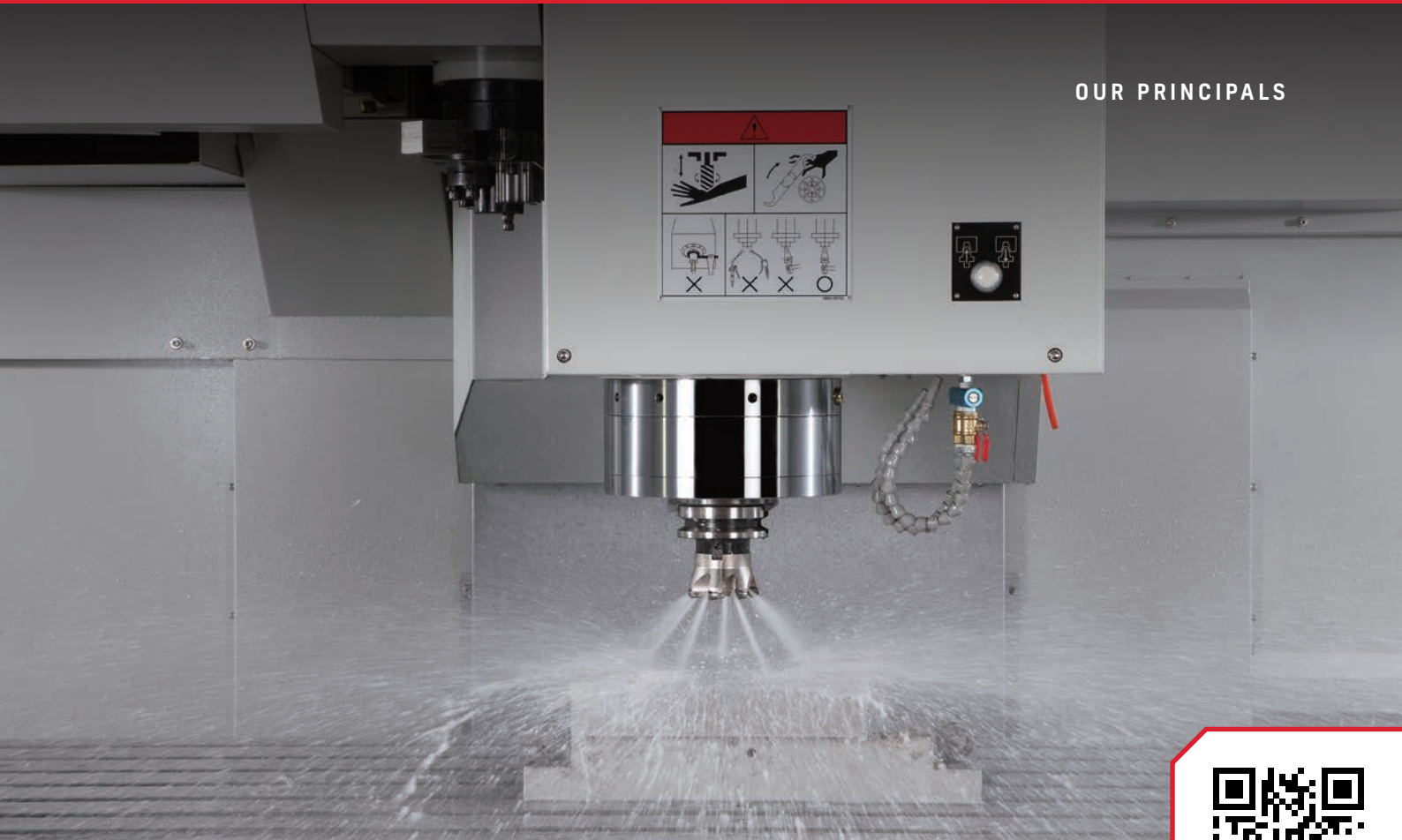
◀ SCAN FOR MORE



DNE Global are a Swiss laser machine manufacturer, dedicated to uncompromising quality. DNE delivers state-of-the-art laser cutting technology, exclusively across the United Kingdom and Ireland through the Engineering Technology Group (ETG).

A wide range of applications can be handled from thin to thick. In addition to steel, stainless steel, and aluminium, non-ferrous metals can also be processed with an excellent quality finish. DNE Laser cutting machines deliver more profit per part, low investment cost, combined with comparatively low operating costs and low maintenance requirements.

◀ DNE Global Head Offices



SCAN FOR MORE ▶



Quaser horizontal, vertical and multi-face 3 and 5-axis machining centres are increasingly popular due to their superb build quality and suitability for high volume production, tool room and subcontract machining environments.

All UK sales, service and customer support activities for Quaser products are handled through ETG, working closely with the Taiwan manufacturing facility and the Swiss based Quaser European Technology Centre.

The Quaser ranges of MV and MF vertical machining centres are highly versatile, offering high speed, high powered machining with 4+1 and full 5-axis machining capability along with large X-axis machines with a compact footprint.

◀ Quaser Head Office, Taichung, Taiwan



◀ SCAN FOR MORE



Based in Burbach, Germany, OPS INGERSOLL manufactures a highly-developed series of EDM, HSC and automation machinery for the industrial metalworking sector.

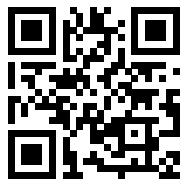
Driven by a unique company view and a focus on quality and innovation, OPS INGERSOLL have amassed a wealth of industry expertise, something that is evident within each of their product lines.

The OPS INGERSOLL brand demonstrates unsurpassed levels of precision, speed and performance. If you need to take your machining performance to another level, the OPS INGERSOLL range is fully aided by ETG's turnkey offerings.

◀ OPS INGERSOLL Head Office, Burbach, Germany



# LASER MARKING SERVICE



SCAN FOR MORE ▶



In a manufacturing industry where conforming to quality and legislative standards and obligations are ever more critical; the components and assemblies that constitute a final product now demand traceability.

In many industry sectors such as the automotive, aerospace and medical industries, conforming to standards is no longer enough - the ability to trace every single component back to its original source has become everyday practice. For customers of ETG, the Laser Marking division offers the technology and services to accommodate all of your component marking requirements.

ETG specialises in laser marking systems that generate fast, efficient and precise component marking that conforms to all your requirements, regardless of industry sector. Laser marking has rapidly become the preferred method of permanent non-contact marking as it offers quality, precision and speed with low running costs.

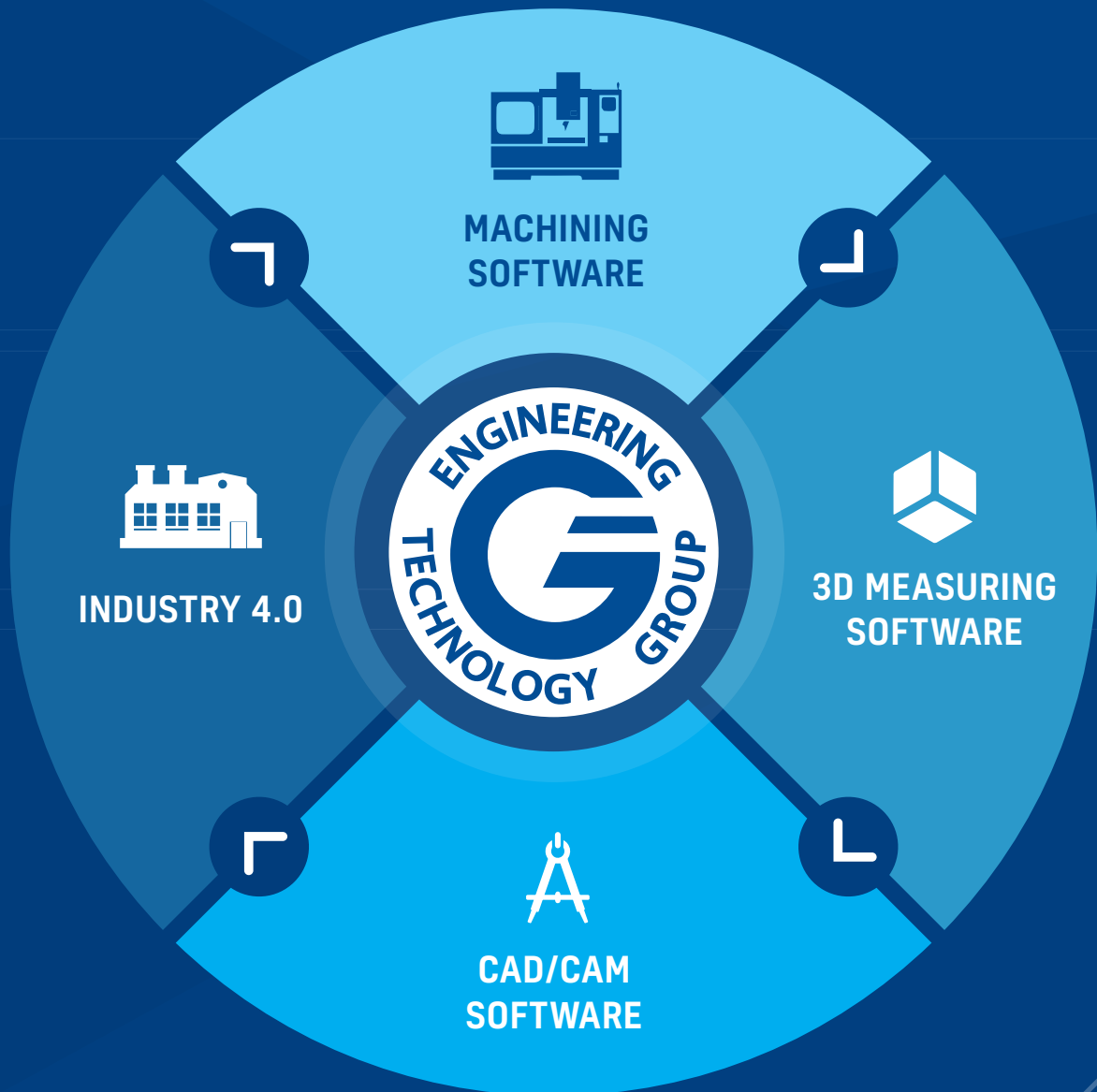
◀ ETG Laser Marking, ETG Headquarters, UK

# OUR ASSOCIATES





# SOFTWARE CAPABILITIES



## CAD/CAM SOFTWARE



# Mastercam

**CAD/CAM software is used to translate computer-aided design (CAD) to manufacturing workpieces with computer-aided manufacturing (CAM) on your CNC machine.**

Mastercam offers CAD/CAM software tools for a variety of CNC programming needs, from basic to complex. Due to their innovative, flexible solutions and our top-notch network of support, Mastercam software is a complete solution from the start of design through to manufacturing. Choose Mastercam to streamline your production process from job setup to job completion.



### MILLING

Fully associative CAD/CAM for 2½ to 5-axis machining. Delivers streamlined mill programming and toolpaths powered by Dynamic Motion Technology.



### MULTIAXIS

Easily program complex, multi-axis parts for higher productivity with custom options for blades, impellers, and port machining.



### SWISS

Mastercam solutions are available for a wide variety of today's top Swiss machines including Star, Citizen, Tsugami, Swistek, Hanwha, Ganesh, DMG MORI, Nexturn and more.



### ROUTER

Fully associative CAD/CAM software designed for routers. Complete 2 – to 5-axis programming, block drilling, aggregate head support, and more.



### MODELLING

Powerful 3D solids and surface modelling CAD software designed for CAM programmers. Included in Mastercam Mill, Lathe, Router and Wire. Also available separately.



### MILL-TURN

Powerful solution that combines with Mastercam Mill and Mastercam Lathe for efficient multi-stream machining.



### TURNING

Fast, easy, and precise CAD/CAM for turning. Provides fully associative toolpaths, solid-based toolpath verification, and Dynamic Motion strategies.



### WIRE EDM

Streamlined CAD/CAM for wire EDM programming. Fully associative wirepaths for basic to advanced 2 – and 4-axis work.



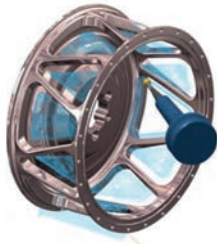
### APLUS

Partnering with CAMufacturing Solutions, an Add-On for Additive Manufacturing. Mastercam APlus customers can program, backplot, and simulate their 3D printing scenarios just like they would with traditional toolpaths in Mastercam.



### EDUCATIONAL SUITE

Software solutions are bundle and priced at deep discounts for schools to incorporate the world's leading CAM software into their curricula with all the functionality of the industrial version of these products included in Mastercam Educational.



Mastercam's CAD/CAM software take parts from design through to the production line. Program your manufactured parts with leading-edge features for precision and efficiency. Creating code to drive your CNC equipment is what Mastercam does best.

## MASTERCAM'S SPECIALISED ADD-ONS



### PORT EXPERT

Create precision engine cylinder head porting toolpaths on surface or solid data, while minimizing unnecessary motion.



### BLADE EXPERT

Highly efficient toolpaths for multibladed parts, delivering superior blades, splitters, floors, and fillets.



### PRODRILL

Automatically detect, group, and apply drill strategies to large amounts of holes, and automatically create tool definitions from existing geometry.



### 5-AXIS CURVE MACHINING

A targeted and powerful Multiaxis technique that adds extra flexibility to your milling; can be upgraded to the full Multiaxis product.

## OTHER SUPPORTING SOFTWARE



CIMCO is an industry leading developer of software solutions for Computer Integrated Manufacturing and Industry 4.0. CIMCO software suite includes advanced CNC editors, simulation software, DNC communications software, Manufacturing Data Collection, and Production Data Management solutions.



Verisurf, model-based inspection and measurement software provides one common metrology platform for all 3D measuring devices.



ETG is the UK and Ireland's exclusive supplier of CAMplete software, allowing clients to extract optimal usage from their machining processes and equipment.



B-Safe X for plant and maintenance manager. Monitor, protect, maintain and evolve your machine tools thanks to the easy installation of the innovative B-Safe sensor.

HEIDENHAIN

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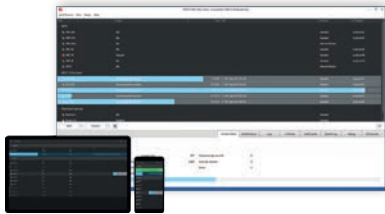


# FULL SUITE OF CIMCO SOFTWARE



**CIMCO is an industry leading developer of software solutions for Computer Integrated Manufacturing and Industry 4.0.**

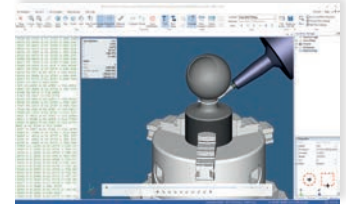
Our software suite includes advanced CNC editors, simulation software, DNC communications software, Manufacturing Data Collection, and Production Data Management solutions. See below a snapshot of ETG's fully supported CIMCO software offering.



▲ CIMCO DNC



▲ CIMCO MDC



▲ CIMCO EDIT



### CIMCO Edit

The editor-of-choice for CNC programmers who demand a full-featured editing, simulation and machine communication tool.



### CIMCO NC-Base

Ideal solution for organizing, managing, and protecting part programs and related production documents efficiently.



### CIMCO Machine Simulation

Prove-out your NC program on a 3D model of your CNC machine and see the exact movement of components.



### CIMCO MDM

The complete solutions for manufacturing document management. Integrates with CAD/CAM systems from leading vendors.



### CIMCO DNC-Max

The leading solution for NC program transfers to and from CNC machines. Full compatibility with your existing machines and files.



### CIMCO Scheduler

Production scheduling and order tracking solution. Identify untapped capacity and increase the accuracy of delivery dates.



### CIMCO MDC-Max

Real-time manufacturing data collection. Discover production bottlenecks, optimize resources, and streamline processes.



### CIMCO CNC-Calc

A basic 2D CAD/CAM for novice programmers. Draw geometrical contours, lay out toolpaths and simulate the resulting NC program.

# TECHNICAL PARTNERS

ETG are supported by select world-class Technical Partners. The expertise and technology competence of these partners is essential in the delivery of world class and complete turnkey solutions.



## ENGINEERING A GREENER WORLD

### With net zero initiatives

Global warming has been on the radar for many years, it has been talked about endlessly and debated by world leaders, on how the issue should be tackled. A legally binding international treaty on climate change was adopted in 2015 and entered into force in November 2016 – The Paris Agreement.

With the above in mind, and in collaboration with Betterworld.Solutions, who are leaders in the green revolution, ETG pledge to offer Net Zero initiatives to its customers. See the opposite page for the first of many Net Zero Initiatives from ETG. Further exciting green initiatives will be rolled out to our customers imminently - watch this space!.

Look on the next page to see our first Net Zero Initiative, the Amorphous Core Transformer and to see how much money and energy you could save.

## RAISING THE STANDARD

### ISO:9001 quality and ISO:14001 environmental certifications

Building upon its already robust business framework, the Engineering Technology Group has successfully implemented BS EN ISO:9001:2015 quality management and BS EN ISO:14001:2015 environmental management, global standards.

The integrated Quality & Environmental Management System (QEMS) will benefit both ETG and its clients alike. The major commitment made by ETG to undertake dual certification and adopt a complete QEMS that will operate harmoniously with existing management systems is a clear demonstration to all stakeholders that ETG is legally compliant with environmental and other requirements.

ETG's QEMS system is now fully integrated with all internal processes, creating one cohesive management system. For both customers and internal staff, the benefits are far-reaching with ETG now meeting the ISO requirements that some bluechip clients place upon their supply chains. The company is also fully compliant with legal frameworks and can provide enhanced traceability with clearly documented processes for all business activities. This will enhance the already impeccable reputation, credibility and client confidence that ETG possesses in the marketplace for its products and services whilst demonstrating its commitment to achieving its environmental ambition of Net Zero.

# AMORPHOUS CORE TRANSFORMERS

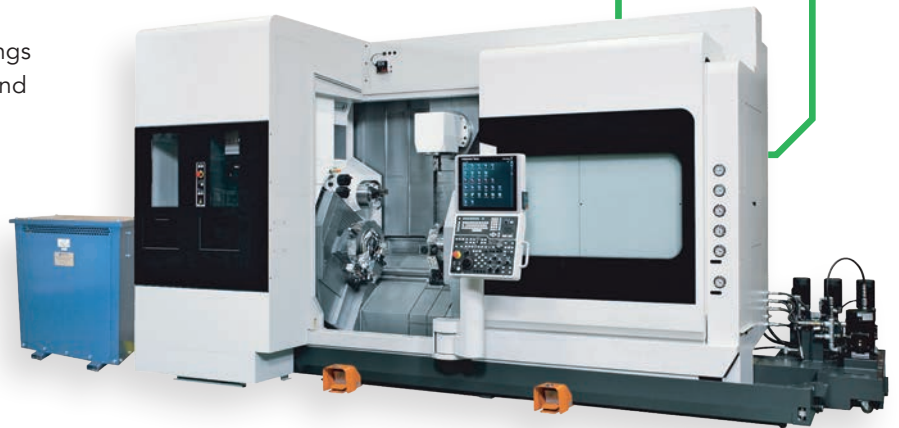
## What is an amorphous core transformer?

As part of ETG's commitment to achieve Net Zero and support our clients to do the same, we would like to introduce Amorphous core transformers in collaboration with Powerstar, that can be fitted to all machine tools (both old and new).

Due to the cost of energy only going in one direction, there are considerable financial savings when fitting an Amorphous core transformer and with the decrease in power usage comes a significant CO<sub>2</sub> reduction, limiting the damage to our environment.

How much CO<sub>2</sub> and energy savings can you achieve by fitting an amorphous core transformer to your machine tool?

Scan the QR code on the right or visit [engtechgroup.com/net-zero-initiatives/powerstar-calculator](http://engtechgroup.com/net-zero-initiatives/powerstar-calculator)



Shown here is an example of cost and tCO<sub>2</sub>e [Tons of Carbon Dioxide Equivalent] reductions when a 77 kVA Amorphous core transformer is fitted to a typical machine tool.

Financial Saving  
from less energy

**£34,040**

Over 10 years\*

Carbon  
Reduction

**43tCO<sub>2</sub>e**

Over 10 years\*

Take 10 minutes to create and publish your own Investment Policy to Prevent Global Warming, for free, through Betterworld.Solutions and receive...

**£250 off your first Amorphous core transformer order**

Visit [www.betterworld.solutions/form](http://www.betterworld.solutions/form)



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