



TECHNO GROUP
Precision Machined Components and Assemblies

July 2018
Volume 2 - Summer Edition

TECHNO.News

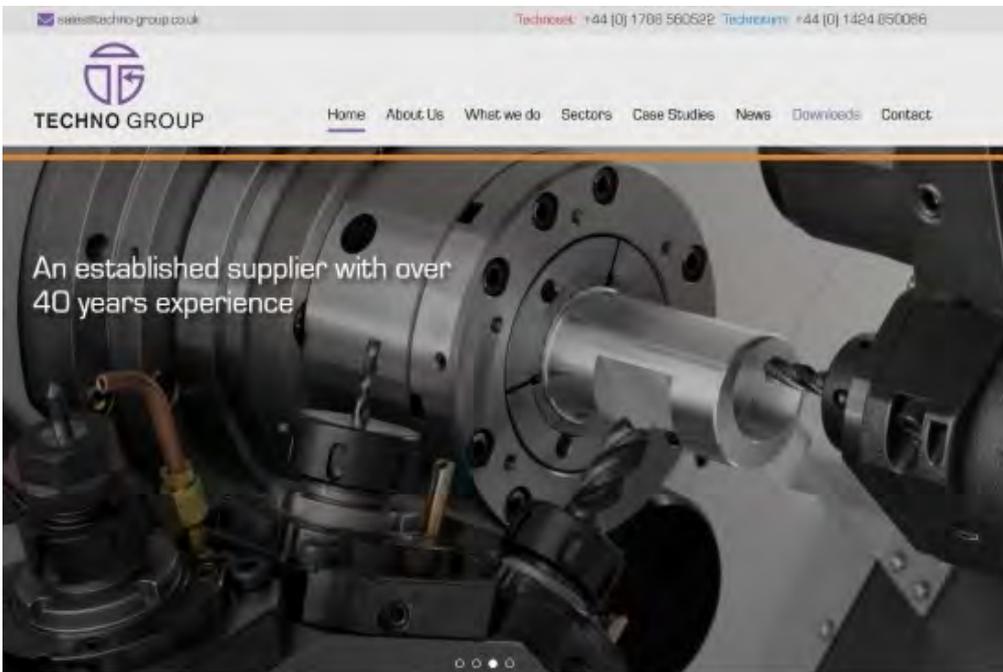
New Group Website

On 28th March 2018, the brand new Techno Group website went live. We decided that having separate websites for both Technoset and Technoturn did not fit with our group business plan.. So, we decided to create a brand new website to represent the group as a whole incorporating the services and processes provided by both our sites in Rugby, Warwickshire and St. Leonards-on-sea, East Sussex.

We teamed up with Richard Barry at **forty49** to bring our ideas to life. We are very happy with how the new website came out and we look forward to hearing your feedback.

@forty49
www.forty49.co.uk

forty49



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www.techno-group.co.uk

Training For The Future

We pride ourselves on developing our employees. This includes providing specialist training for new employees as well as existing employees and our apprentices.

On 27th March 2018 we organized a day of training for our **XYZ SLX 1630 Automatic Lathe** provided by XYZ Machine Tools.

This machine forms part of our second operation and prototype department and we see this as a growing part of the business. This machine enables us to produce complex turned components in small batches where it would not normally be financially viable to produce them on our CNC Turning centres.

XYZ Proturn SLX 1630



"I really enjoyed learning how to program the machine..."
- Jacob (Apprentice)

"It is great to learn new skills. This is another string to my bow..." - Sebastian (2nd Op & Assembly)



www.xyzmachinetools.com

Key Features:

- ProtoTRAK® SLX Control
- TRAKing®
- Constant Surface Speed
- Verify Solid Model Graphics
- Rapid Traverse with Joystick
- 3 Jaw Chuck 200mm
- Quick Change Tool post and 6 Holders
- Centres and Bushes
- Tailstock
- Interlocking Chuck Guard and Main Guard
- Auto Lubrication
- Coolant
- Work light



XYZ Training Day @ Technoturn

Alchemy Metals



Alchemy Metals Scrap Bin & Skip

As a supplier to the Aerospace Industry, we are required by our customers to control the disposal of our scrap in line with ASQR requirements. This means that we have to provide evidence that all parts that are scrapped have been destroyed/deformed (physically rendered unusable) and disposed of.

While at the **Southern Manufacturing Exhibition** in Farnborough, we met **Rob Pepperell** from **Alchemy Metals** and we got talking about our customer requirements with regards to scrap. They were able to provide the perfect solution to our situation and we made the decision to move all of our scrap disposal over to **Alchemy Metals**.

When the scrap bins and skips turned up, we were amazed at how clean they looked which makes for a really professional aesthetic.



FIVE | Farnborough | Hants | GU14 6XL
6th to 8th February 2018

Key Features

- 21st Century Scrap Metal Management
- Innovative Solutions
- Full Traceability
- Certification
- Award-Winning Security
- Over 50 Years Experience
- Clean Looking Scrap Bins
- Regular Collections
- Friendly Service
- Hassle Free
- Complies with Latest AS9100 Rev D requirements.
- Video Evidence Available upon request
- FREE Loan Containers

ALCHEMY
METALS

www.alchemymetals.com

Matsuura MX-330 PC10



www.matsuura.co.uk

Specs:

- Travel: 435mm x 465 mm x 560mm
- Rotation: -125° -10°/360°
- Working Surface: Ø130mm/Capto C6 Pallet System
- Max, Work Size: Ø330mm x H300mm
- Load Capacity: 80 kg
- Spindle Speed: 15,000 RPM (BT40)
- No. of Tools: 90
- PC10 Pallet System
- Edgecam CAD/CAM Software



www.edgecam.com

New Matsuura 5-Axis Milling Machine

With a view to improving cycle times, efficiencies and overall quality of our milled parts, Techno Group have purchased a Matsuura MX-330 PC10 5 axis vertical machining centre with a 10 pallet carousel system. The addition of a 5th axis to our existing fleet of 4 axis machines means that we are able to machine complex components from start to finish in a minimal number of operations. To ability to machine using 5 axis simultaneously in combination with the powerful Edgecam CAD/CAM software means that we are opening up the door to a whole new range of products where we otherwise would have been too expensive or would struggle to machine using a conventional 3 or 4 axis machine.

We see this as an investment which will solidify our future as a subcontract machine shop and help our customers come up with a complete engineering solution with our in-house engineers and highly experienced staff.

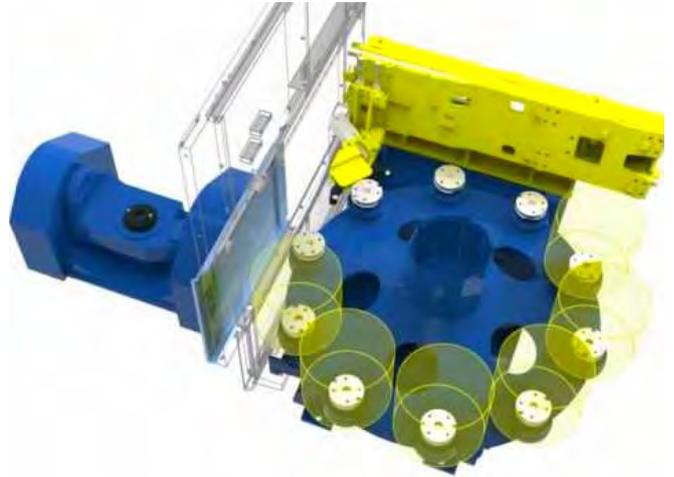
The MX-300 is scheduled to be installed at Technoturn in September 2018 and will include the opportunity to train a number of our members of staff in both machine application and Edgecam CAD/CAM. This is a new beginning for us, and we want to bring the group up-to-date with modern technology and methods of manufacture. We are all very excited about our future and look forward to seeing this machine in action.



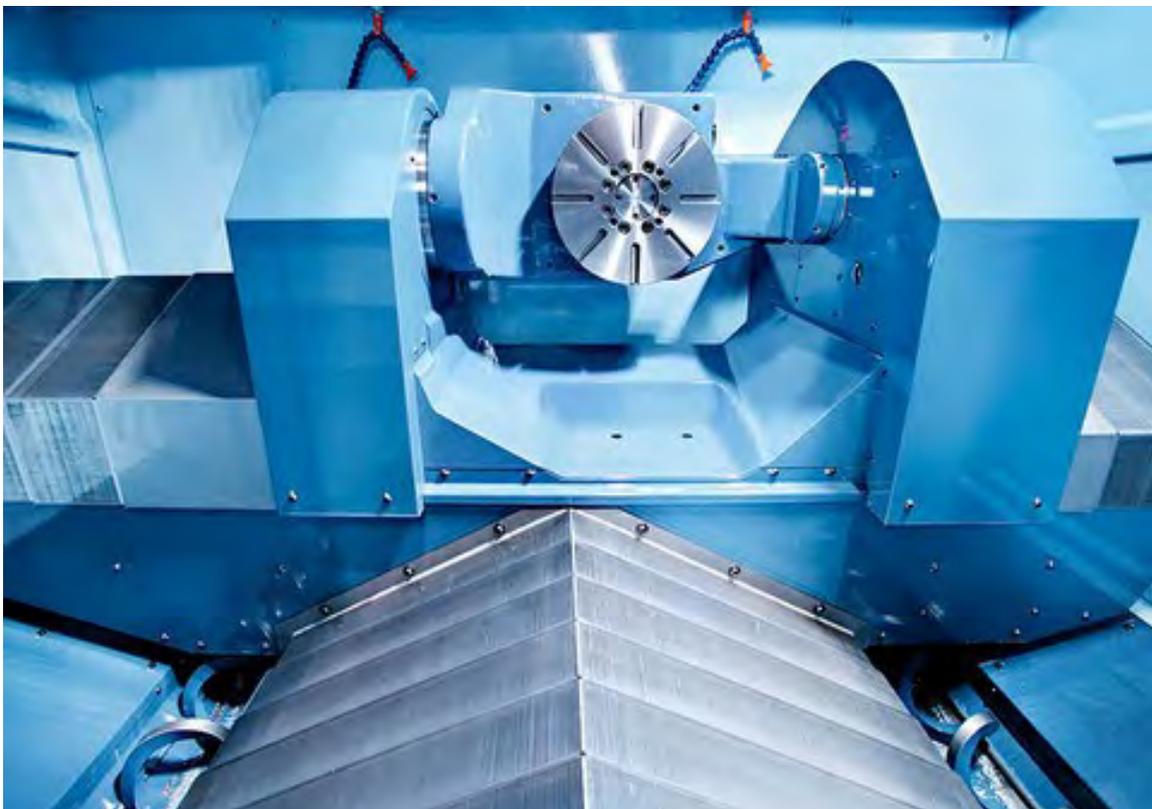
10 Pallet System

Having the addition of a 10 pallet carousel will enable us to run the machine unmanned for longer periods of time and be smarter with our production scheduling. We plan to engineer specialist fixtures for our products so that we are able to machine them in the most efficient and effective way possible while retaining that high quality and precision that Technoturn are renowned for.

Once we have fine-tuned our process we will be able to look at running out of hours which is where the real cost savings will be seen.



“We want to take our milling capability to the next level while improving our internal efficiencies and flexibility...”



VICI Vision M1

Our vision for supplying cost-effective, high-precision components to our customers means that we are always looking to continuously improve our internal processes, whether it is improved cycle times or increased accuracy. We were able to achieve both when we installed the VICI Vision M1 at Technoset.

Often, manually measuring components is time consuming and in some cases, inconsistent. The use of automated (programmable) measuring equipment means that you can achieve accurate and reliable results in a much shorter amount of time, and we all know that time equals money.



“The ideal tool to flank multi-spindle lathes or sliding head lathes”

“M1 embraces the concepts of ergonomics, designed to improve use in production. Now even faster, it reduces measuring times and sets a new bar in its sector”

Key Features:

- Capacity: up to $\varnothing 60\text{mm} \times 300\text{mm}$
- Measuring Capabilities:
 - Geometrics
 - Threads
 - Surface Form
- Cycle times cut by 67%
- Automatic data collection
- SPC capability
- Automatic cycle
- Accuracy: $2\mu\text{m}$
- Repeatability $0.4\mu\text{m}$



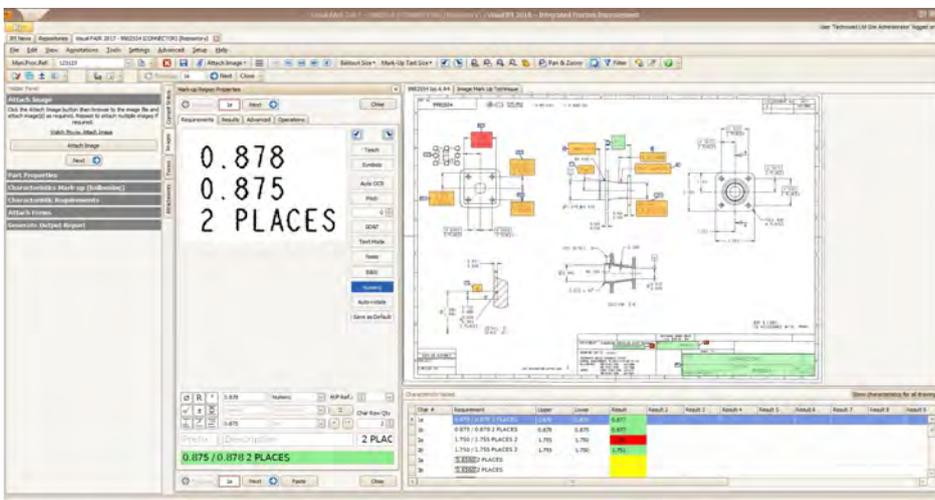
www.vicivision.com

Q-Pulse® FAIR from Ideagen

As one of the UK's leading suppliers of Aerospace components and assemblies, we regularly supply AS9102 First Article Inspection Reports (commonly referred to as FAIR documentation) to our customers. This is quite a labour intensive process and must be 100% accurate. As part of our drive for continuous improvement across the group, Technoset have purchased a software package that allows for this process to be semi-automated and reduce the risk of human error when creating reports and when inputting data.

This improvement has helped us to reinforce our Right First Time culture while keeping our customers happy. We like to build trustworthy relationships with our customers so that they have the peace of mind knowing that the information provided to them is accurate and reliable.

We plan to implement this software at Technoturn in the near future as we aim to standardize our processes across the group.



Q-Pulse® FAIR User Interface



www.ideagen.com

Key Features

- Quickly mark up/balloon a drawing electronically
- Optical Character recognition (OCR) reads specifications and engineering symbols direct from drawing
- Visual mistake proofing allows you to quickly see where information is missing and results are outside tolerance
- Import data from Bill of Materials, CMM, Hand-written data and 3D models

Inside Story

- Up to 50% Coolant Saving
- Reduced topping up
- Improved price for swarf without coolant
- Up to 90% saving in disposal
- Improved Housekeeping
- No coolant collecting outside the machine or leaking on the floor
- Manpower reduction
- Environmentally friendly
- No external power required



For neat oil up to 32c/s



www.wogaard.com

Wogaard Coolant & Oil Saver

Technoset has an enviable reputation for supplying complex components to the aerospace industry build up over a number of years. More recently the company has steadily increased its manufacturing capabilities and staff skills to move further up the industry's tiered supply chain. At the level every little detail counts, which is why the Wogaard Coolant Saver plays a part in the ongoing business development.

The simplistic design and execution of both the Wogaard Coolant and Oil Saver belies the potential benefits it can provide to manufacturing companies. Using very few component elements it efficiently collect the cutting fluid which is normally dragged out of the machine tool by the swarf that is evacuated by the automatic chip conveyor or swarf auger and wasted. The neat oil or water miscible (soluble oil) cutting fluid is reclaimed by siphoning it from the ship-container and returning it to the machine tools main coolant tank for reuse.

Using a vacuum generated within its body to draw the fluid out of any container the Wogaard unit is powered by the machines coolant pump, so no additional power source is required and fitting remains a straightforward operation requiring just a few pipe joint that can be specified in an optional fitting kit available for most popular machine tools.



"You must consider with coolant you are not only buying coolant, but you need to pay to dispose of it. So, waste is a great consideration. We initially tested the Coolant Saver on one machine, and the benefits where both clear and immediate. It was then a case of fitting a unit to all our milling machines and all of the fixed-head turning centres. We also fitted the new Oil Saver to our sliding-head machines, where the savings on neat oil and disposal of waste have an impact on the business bottom line that is even more dramatic." - Kevan Kane (Director of Technoset)



The downtime for any machine tool waiting for the coolant levels to be replenished has been reduced to a minimum, and the operators appreciate not having to fill the sump so often.

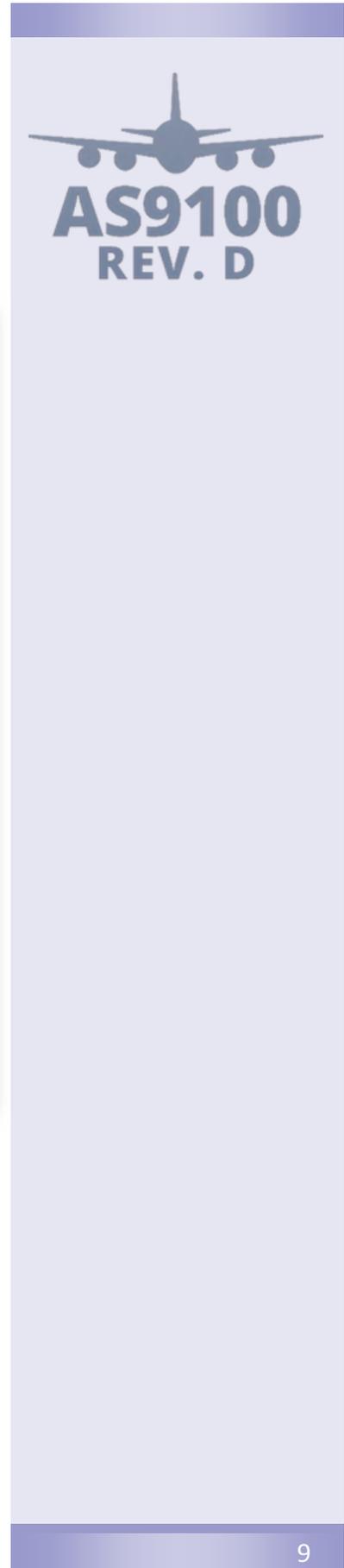
Each of the Coolant and Oil Savers has been installed in-house by Technoset staff., While the initial investment required to purchase and fit the units is very reasonable the benefits are very long lasting and not to mention better for the environment. We as a group have the responsibility to reduce our emissions and where possible, recycle our waste.



AS9100 Rev D Certification

Following in the footsteps of Technoturn, Technoset have now achieved full **AS9100 Rev D certification** having completed their audit.

Techno Group are proud to have both of its sites certified to the latest revision of the aerospace quality standard, further cementing its place as a supplier to the aerospace industry.



Connect with us



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@TECHNOTURN LTD

@TECHNOSET LTD

www.techno-group.co.uk

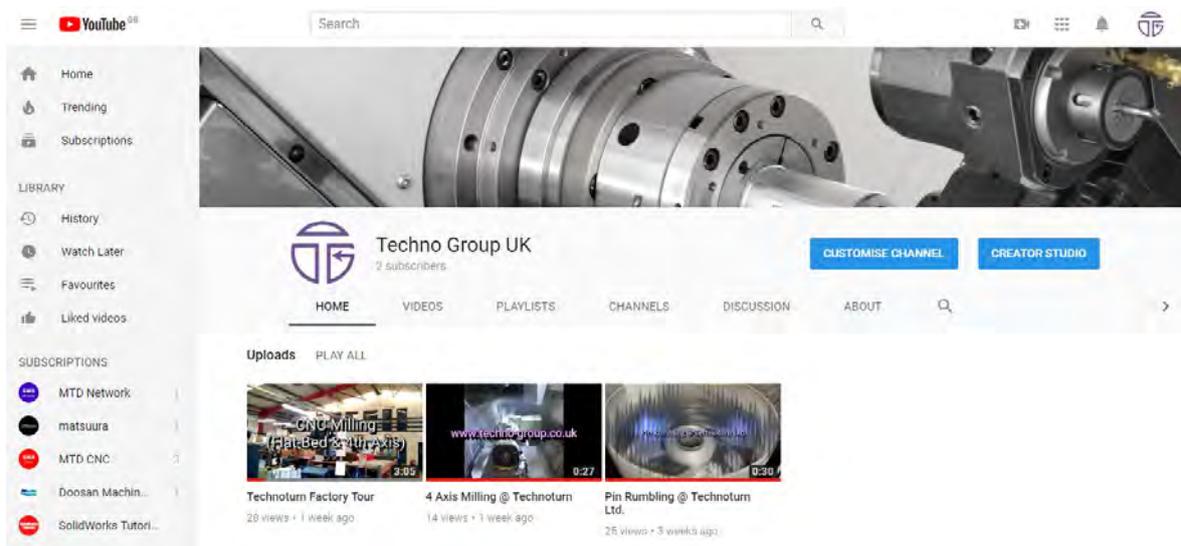
sales@techno-group.co.uk

New Techno Group YouTube Channel

As our social network presence is growing we have made the decision to create a new Techno Group YouTube Channel. We understand that some people do not have the time to read wordy social media updates. Sometimes a photo leaves you feeling like you are missing something. We want to bring Techno Group to the world. We want you to see our processes, our facilities our faces. This is why we felt that posting video content is the best way to fill the gap.

Make sure that you **subscribe** to our channel for regular updates.

<https://www.youtube.com/channel/UckmTWweV1rNTol2WJCe3fng>



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