

ANCA Presents World Premieres, Perfect Matches, and Winners at EMO 2023

PRESS
INFORMATION

July 2023 – CNC grinding technology pioneers ANCA will showcase their latest products, and industry-specific grinding and automation solutions at EMO (Stand F52, Hall 6). Excitingly, the winner of the renowned Tool of the Year competition will be announced live Wednesday 20 September at 4.30pm (GMT) – and all are welcome to join the celebrations and witness for themselves the ultimate range of cutting tools.

Edmund Boland, ANCA CNC Machines General Manager said, “We are excited to bring not one but several world premieres to EMO, promising premium value, higher productivity and extended capabilities. Visitors can see firsthand ANCA’s latest technology that spans tool precision, integrated manufacturing systems, industry focus applications and optimisation across the process chain.”

Martin Winterstein, General Manager of ANCA Europe said, “EMO is the global leading manufacturing technology show, it is where the current market trends and innovations are on display. Our setup in Hannover really shows hands-on opportunities for tool manufacturers, with new application and automation solutions tailored to industries’ needs. I am excited to show visitors our enhanced portfolio to include micro tools with the FX ULTRA, according to the high demand from this growing segment. Experts from ANCA and our partners will be on-site to show and discuss individual requirements at the stand.”

ULTRA value

Never ceasing in their commitment to creating the highest quality product, years of continuous refinements at ANCA have made the ULTRA technology possible. ANCA’s unique vertical integration is key to its success - where machines, controls, drives and precision components are all designed and manufactured in-house. Successfully introduced to the industry last year on the MX machine platform, it boasts the highest accuracy and quality cutting tools in the world. In fact, the MX7 ULTRA achieves one nanometre axis resolution, and can maintain better than +/- 0.002mm line form accuracy of any profile which includes ballnose and corner radius endmills.

At EMO, visitors will find out how ANCA spreads the ULTRA advantages to further fields of application, including smaller batches, regrinding and tools with small diameters.

Launching the FX7 ULTRA, the latest game-changing innovation that guarantees perfection for small tools down to 0.1mm

The FX7 ULTRA introduces cutting-edge technologies, including ANCA’s unique nanometer control, that revolutionise precision grinding for small and micro tools down to 0.1mm diameter. This significant technology

breakthrough is already redefining the standards for tool and component grinding with the highest levels of accuracy and surface finishes.

New software, hardware and design features significantly improve surface finish, accuracy, and controlled runout, ensuring batch consistency from the first ground tool to the last. These advancements ensure that the FX7 ULTRA is the go-to solution for precision grinding in industries that rely on small tools, including electronics, telecommunications, medical devices, aerospace, automotive, diemold, and general machining.

The ultimate value – ANCA’s premium one stop shop for peel and geometry combined with blanket grinding

From blank to a finished high-quality tool, all on one machine – ANCA’s ultimate single setup solution for complete machining of cutting tools will be demonstrated on the MX7 ULTRA at EMO. Following a legacy of machine efficiency, this latest solution combines peel grinding and tool grinding on the one platform, enhanced with additional power to extend capability. The MX7 ULTRA's remarkable spindle power of 26kW can handle demanding tools like larger taper ballnose endmills, step drills, and aerospace components ranging from 0.1 to 25.4 mm. This leads to reduced cycle times and increased productivity. Short setup times, optional collet change and proven blanket grinding processes round out the capabilities.

By utilising the latest innovations in peel grinding technology, ANCA guarantees exceptional stability, accuracy and value, all achieved on a single machine. Manufacturers can now produce high-quality tools with confidence, knowing that the MX7 ULTRA delivers outstanding results.

Smart automation enables unattended cutting tool production

ANCA has further developed its AIMS system for automated tool production. At EMO, visitors can see examples from the field, with systems operating completely unattended over extended period, manufacturing tools.

The AIMS automation package is a modular and growing system, spanning across the tool production process. ANCA is set to include additional operations like blank preparation or laser marking in the automated process. The system’s intelligent design allows for progressive steps of automation, including an automated laser marking station AutoMarkX. The versatile laser marking station is tailored to meet the needs of tool manufacturers. It provides reliable and high-quality marking, ensuring traceability, identification, and branding of tools, while eliminating repetitive tasks to free up time for skilled staff.

The AutoMarkX’s new, retrofittable rotary workholding system allows for unlimited index marking around the tool, with automatic Z-axis focus and compatibility with tool shanks from 3 to 32mm. Moreover, the AIMS Autoline Basic, the standard interface for easy loading at the AutoMarkX enables customers to experience smoother material transfer between machines. By utilising a manual trolley system, combined with AIMS pallet carriers, Autoline Basic streamlines the transfer of heavy tool pallets between machines, reducing labour-intensive processes.

From blanks with a surface finish better than 0.2Ra, to ANCA's GCX Linear which has set the new benchmark for skiving cutter grinding

ANCA's expertise in grinding solutions extends to blank grinding and integrated complete machining of gear tools, including in-process measuring and compensation. The CPX blank preparation machine will feature productivity-enhancing features in Hannover, including automated loading of tools up to 32mm, a flip station for grinding from both ends, tailstock, and extensive probing enabling statistic process control. The machine has been designed to give users high material removal rates, and save time and money with unattended production.

The rising demand of gear cutting tools has led ANCA to enhance its product program with the GCX, the turnkey solution for manufacturing and resharpening gear cutting tools. The Integrated Gear Tool Measurement (IGTM) and ANCA's expertise in grinding wheel dressing gives customers the benefit of full control over the high precision skiving cutter grinding process. First skiving cutter in tolerance, is the motto. ANCA's widely spread area of grinding applications, can be covered with the versatile GCX and its numerous optional accessories like the LaserUltra for profile tools.

The Premier Cutting Tool Award

One of the most eagerly awaited events at ANCA's stand will be the winner announcement of the Tool of the Year 2023 competition. This prestigious competition brings together tool manufacturers from around the globe, who compete for the title of the best real and virtual tools. The judging process, overseen by a panel of ANCA and external experts, evaluates precision, surface roughness, creativity, and practical use. The award ceremony promises to be a highlight of the exhibition, recognizing the industry's most innovative and exceptional tools.

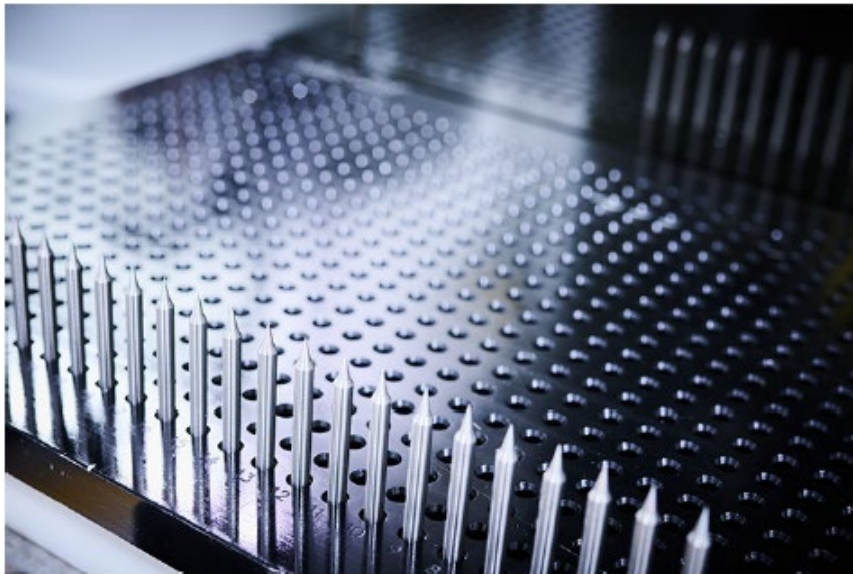
EMO 2023 offers an exclusive opportunity for industry professionals to explore ANCA's latest advancements in grinding technology, witness revolutionary world premieres, and engage with experts from the field. Visitors will also experience exclusive product launches to be revealed at the show. ANCA invites all attendees to visit their stand in hall 6, F52, where they can experience firsthand the cutting-edge solutions and industry-specific grinding innovations that are shaping the future of manufacturing.

Strategic Partnerships with Industry leaders

ANCA's commitment to excellence is further emphasized through strategic partnerships with industry leaders. At EMO 2023, ANCA will collaborate with Mitsubishi, presenting their EDM machine at the stand, and GDS clamping technology, presenting a cohesive ecosystem of solutions that streamline processes across the process chain.



The modular automation system AIMS is ANCA's answer for tool manufacturers looking to increase their productivity, stay competitive and an be an attractive employer



The ULTRA package with nanometer resolution, design, software and quality features enable manufacturers to grind tools with very demanding specifications



Who will follow on the past year's winners? ANCA will reveal the "Tool of the Year 2023" at EMO



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About ANCA Europe

ANCA is a market leading manufacturer of CNC grinding machines. It was founded in 1974 in Melbourne, Australia where the company still has its global headquarters. ANCA Europe has its main technology centre in Weinheim, Germany and a smaller facility in Coventry, UK with expert teams covering service and sales, applications, customer training, operations, engineering, finance and administration. Regular customer demonstrations and events are conducted at the Weinheim technology centre. To offer customers a local experience ANCA has sales and service teams in Poland, France, Italy and Turkey as well as sales partners in Spain, Russia, Switzerland, Israel and other key European locations. See all our locations here: <https://machines.anca.com/Contact>

ANCA CNC grinders are used for manufacturing precision cutting tools and components across a diverse range of competitive industries including cutting tool manufacturers, power generation, woodworking, automotive, aerospace, electronics and medical.

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