



## 1. Altergrinding E

### Lubrinnova / SYNTACO Sp. z o. o

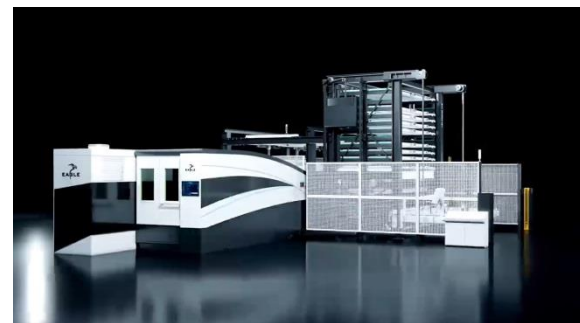
ALTERGRINDING E is based on colourless synthetic esters of plant origin, suitable for operations where the cleanliness of the workpiece and machine is an essential condition. Its special formula has been developed for sharpening carbide and HSS steel tools, where it is important to avoid cobalt leaching in order to maintain the cleanliness of the machine and the health of the operator. This product is perfect for grinding or light cutting operations because its low viscosity combined with the "secret" ingredient developed in our laboratories promotes the decantation of dust or metal shavings, making them easier to filter and leaving the machine clean at all times. Despite its low viscosity, it has a high flash point, making its use safe and very economic due to low consumption through low evaporation or spraying. This liquid is ECOLOGICALLY DESIGNED and can therefore be sourced from a regeneration chain to which it can then be allocated at end-of-life, helping to reduce CO2 emissions and reducing the use of non-renewable substances.



## 2. Eagle Lasers iNspire 2.0

### EAGLE Sp. z o. o

iNspire has always symbolized the pinnacle of innovation. But for us, innovation is not only about crossing boundaries, it is also about setting new standards. We have improved speed, ergonomics and functionality to ensure an even higher quality of use. The new version of iNspire 30kW offers more precise cutting, more accessible monitoring and service processes, as well as much more convenient use.



### 3. e-TimePL – system for reliable distribution of official time in the territory of the Republic of Poland

#### Central Office of Measures

Implemented by the Central Office of Measures "e-CzasPL" is an innovative system for the distribution of time valid in the territory of the Republic of Poland. It consists of: e-Czas Radio for distributing time signals via long-wave radio; e-Czas PTP a fibre optic time distribution service for professional applications; e-Czas Monitor used for additional confirmation of synchronisation compliance and for authentication; e-Czas Online a mobile app for free access to a reliable time source.



### 4. EtE® flow Pallet Cell 500

#### ASTOR Sp. z o. o

The right things, in the right quantity, at the right time and in the right place. The EtE® flow Pallet Cell is an innovative solution to increase the efficiency of the palletising process with a safety system in place for safe working between the robot and the operator. Product benefits include: pallet change without stopping the robot, reducing unnecessary downtime, mobility, space saving, remote access, quick installation and commissioning, as well as operator and DUR training.



### 5. Datron NEO CNC milling machine

#### DATRON AG / RoTec POLSKA Piotr Cimr

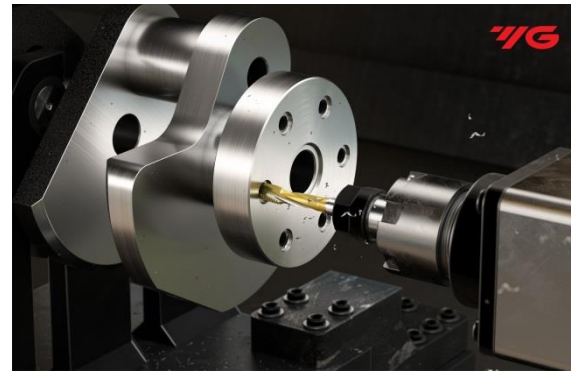
The Neo CNC milling machine manufactured by the German company Datron is small and compact with a relatively large working area. Ergonomic design and easy front access as well as a vacuum table allow for quick and reliable clamping and processing of the workpiece. The machine provides excellent machining speed with 2 kW power and a spindle speed of 40,000 rpm, and thanks to alcohol cooling, the machining process is extremely clean. The modern interface with a touch screen ensures simple and intuitive operation.



## 6. Machine threader of "Chip Breaker" series

**YG-1 CO., LTD. / YG-1 POLAND Sp. z o. o**

Machine threader of the Chip Breaker series generates short chips. The innovative YG-1 threader creating short chips (Chip Breaker) is a solution to the problem of low threading productivity caused by long chips. The TiN coating has good resistance to elevated operating temperatures. The threader is provided with an innovative chip breaker geometry that is ground at the end. The threaders are designed for machining free-cutting steel, unalloyed steel and low-alloy steel, but all materials up to 32 HRC.



## 7. TruLaser Station 7000 (LS02) – a compact 3D laser welding station with TruDisk 2021 (FD31)

**CSF Polska Sp. z o.o. Sp.k.**

Highest quality Green lasers are the basis for high-quality copper welding with minimal spatter. For all surface properties. Whether you need to process a polished, oxidised or ground copper surface, the green laser light always achieves excellent results. Full flexibility – continuous pulse or pulsed operation. Also with green lasers it is possible to choose between pulsed and continuous pulse lasers and adapt them optimally to own requirements. Maximum repeatability. Benefit from stable conduction and deep-fusion welding processes at a constant welding depth. Durability and reliability. Durability and strength are the features that distinguish our TruDisk infrared lasers. You can also fully rely on TruDisk green light lasers. Minimal heat impact. The small heat affected zone in copper is an advantage that minimizes part wear because there is no deformation of adjacent plastic components.



## 8. Comprehensive support in CNC machining

**ABPLANALP Sp. z o.o.**

Our comprehensive solutions make us a one-stop shop for every customer – regardless of requirements and needs. We have a full portfolio of products and services that guarantee satisfaction.



## 9. Nexelem APS

### VIRTUS LAB Sp. z o. o

Nexelem APS is a modern and fast production queue optimization system built in the digital twin architecture. Optimization functions tailored to business goals guarantee freedom and flexibility in the production optimization method.



## 10. A new version of the iconic PVD coating | BALINIT® ALCRONA EVO | "Born to evolve. Made to last."

### Oerlikon Balzers Coating Poland Sp. z o. o

Tools currently used in metal processing must transfer increasingly higher mechanical loads and withstand increasingly higher temperatures. BALINIT® ALCRONA EVO was created as an evolution of the coating introduced in 2004. The bar has been raised once again. This solution ensures excellent results in machining, gear cutting, milling, as well as in plastic processing, stamping and punching. BALINIT® ALCRONA EVO ensures greater productivity compared to its previous version. Thanks to improved properties, tool life increases by up to 30%\*. Advantages: higher wear resistance thanks to optimized coating structure and increased hardness, better performance, lower compressive stresses, less crater wear of HSS tools, lower tool costs and therefore a positive contribution to sustainability.



## 11. RAC traceability software

### SURMA SYSTEMS Sp. z o.o.

RAC Traceability is the only innovative, flexible and independent method of tracking product history on the market, based on high-class technology and integrated IT software. It allows provides comprehensive monitoring of the product life cycle and supports companies in production management, logistics and quality control. The system can be adapted to individual requirements and various production lines, both manual and automated. RAC Traceability is a guarantee of production quality!

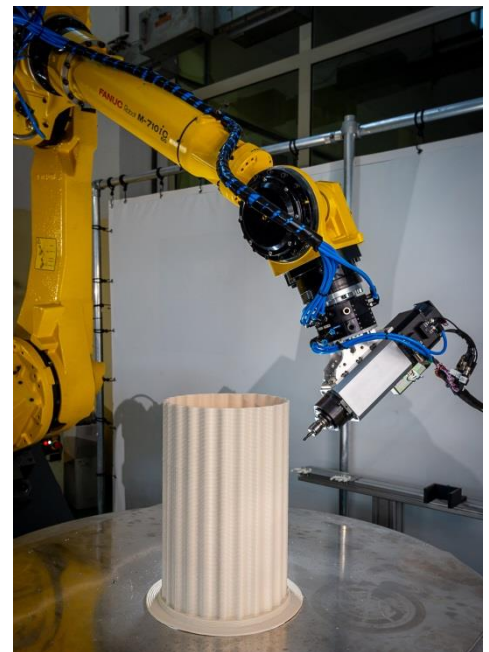




## 12. ProtoPlastMaker 4.0 – additive and cutting centre for plastics processing

**PPHU POLIGRAF Wiesław Kasprowiak West Pomeranian University of Technology in Szczecin**

ProtoPlastMaker 4.0 additive and cutting centre is designed for quick prototyping and machining of large-sized plastic parts (1x1x2m). The device allows user to print from granules (PLA, PET-G, PET-G+CF, ABS, ABS+AF, ASA, PA, PA+CF, PVA) in 3 axes and process the printed item in 5 axes using one clamping position. This one installation This enables operator to produce the item in one, fully automated production phase. A unique feature of the solution is full support for the G-code language.



## 13. SCHENCK Smart Balancer 4 for balancing bearings and vibration diagnostics

**SCHENCK RoTec GmbH / RoTec POLSKA Piotr Cimr**

Smart Balancer 4 is the latest version of SCHENCK RoTec's bearing balancer and vibration diagnostic device. Advanced measurement and diagnostic functions allow user to perform measurements in 6 channels simultaneously and monitor data in real time. The intuitive interface on a 10-inch touch screen and automation and data archiving functions facilitate operation, even for less experienced operators. Smart Balancer 4 increases efficiency, minimizes maintenance costs and prevents failures.



## 14. Scout

**TENTE Sp. z o. o**

The Scout wheel with a pen-style locking mechanism ensures user safety. The Scout wheel is also constructed with high-quality stainless steel components, making it not only sturdy and durable, but also easy to clean. But above all, it is an innovative solution that allows the integration of AGF robots with traditional transport trolleys. This wheel is designed with care for ergonomics and efficiency of the transport process, and with great emphasis on durability and environmental impact. It is a perfect solution combining human needs with AGF requirements.



## 15. STAR SP-23 Automatic longitudinal lathe

**STAR MICRONICS CO.,LTD. / RANDES Ryzewscy Sp. K.**

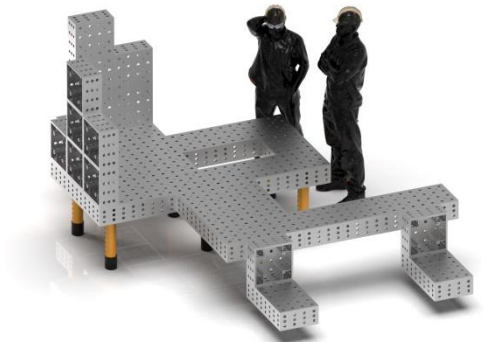
STAR MICRONICS has developed a new model of the SP-23 automatic lathe, which provides great versatility and allows operators to process materials with a diameter of up to 23 mm as standard. The new model was introduced to the market in September 2023. This machine has an impressive number of 8 turning tools and 7 driven cross-cutting stations, 5 of which are replaceable. It can also be used with proven SR class driven tools.



## 16. CUBE modular welding table

**CUBE.ENGINEERING SP.J.**

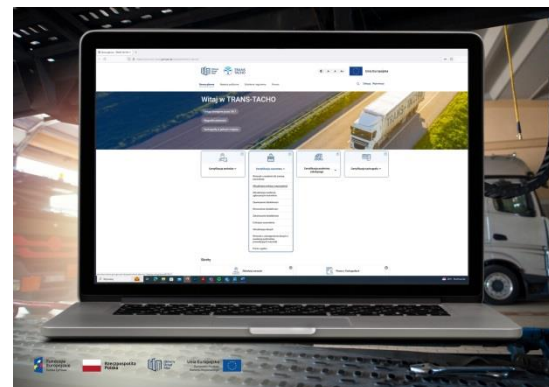
The CUBE precision table is an advanced tool that guarantees 100% repeatability and the highest quality thanks to an innovative production system. It allows user to set any configuration of the work surface, which reduces processing costs. It is distinguished by extreme durability and perfect flatness that is 10 times better than standard solutions.



## 17. TRANS-TACHO – an IT system used to create a digital environment for the implementation of public services and tasks of the Central Office of Measures performed for tachographs

**Central Office of Measures**

TRANS-TACHO online 24/7 app for TACHOgraphs. Transparent: simple procedures for public services and public registers. Responsive: electronic communication in the implementation of public services. Adequate: reducing administrative burden. Modern: IT system. TACHOgraph system: a tool for implementation of public services and other tasks supporting the proper functioning of the TACHOgraphs improving the safety of road transport.



## 18. VENTIS-AJe 6kW

### AMADA Sp. z o.o., Kraków

The Ventis AJe 6kW laser cutting machine uses AMADA's groundbreaking Locus Beam Control (LBC) technology to provide a flexible solution that is tailored to any laser cutting need. The new cutter with the Amada resonator with a single 6KW diode module was designed for high speed and efficiency of the cutting process. LBC technology allows the laser beam to move in predetermined patterns regardless of the movement of the cutting head, ensuring optimal material removal. Full control of the beam movement makes it possible to cut small round holes up to 2.5 mm in diameter without moving the head in the X and Y directions. This ensures much faster processing. Time reductions of 75% were achieved during trials.



## 19. Visometry Twyn

### Visometry GmbH / INVIZION Sp. z o. o

Twyn is a breakthrough tool based on augmented reality that allows operator to control the execution and completeness of a product in real time using only a tablet. The operator can instantly check the presence of desired geometric features of the part or potentially missing parts of the assembly and the correct mounting of components, together with their proper position. Visometry Twyn is an intuitive and effective way to compare the current state with the planned one. Its design and features make Twyn perfect for industrial applications. It is particularly useful at the beginning of the production process as it allows user to easily identify non-conformities and avoid costly downtime and rework.



## 20. WinTool - CNC tool management software

### WINTOOL AG / Haimer Polska

WinTool is CNC tool management software that helps manufacturing companies increase productivity, reduce costs and improve product quality. With WinTool, operators may shorten programming time and optimize tool selection, avoid downtime and lower tool costs, improve process consistency and product quality, and gain better control over production operations. WinTool is easy to use and offers a wide range of functions.



## **21. Industrial safety fences – in line with the requirements of the Machinery Directive (and the Machinery Regulation which enters into force in 2027)**

### **TROAX AB / Troax Safety Systems Poland Sp. z o.o.**

We are the first company in the world to have its tests certified. We have rigorously tested our Troax fencing system. This means that we can guarantee you that our testing method ensures the highest possible level of safety of machines and devices. TUV Rheinland helped us to certify our testing method. TUV Rheinland brings together independent consultants who check the safety level of products and services in relation to human safety and environmental risk. TUV Rheinland has implemented very strict requirements for the approval of products and services, making its own certification one of the most important in the world. Our fencing system passed TUV inspections without any problems. We will show live impact tests during ITM 2024 trade fair in hall 6. For this purpose, we have prepared a Safety Zone and a crush test zone.



## **22. Robotised magazine for machine tools**

### **POLARIS ENGINEERING Sp. z o. o**

RMS – planned production automation with AI support. Automatic retooling of the CNC machine with the use of the internal magazine with work-pieces, holders and tools. Planning production from just one part. Internal integration with the CNC machine prevents downtime and reduces the need for operator intervention. The work-pieces, holders and tools stored in the magazine are transferred to the CNC machine by two robots, ensuring uninterrupted production. The magazine has up to 60 containers for parts and tools.

