

AFM NEWS

PRODUCT INNOVATIONS AT EMO2021

Machine Tool companies of Spain





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The intense activity of the Italian market generates good expectations for EMO MILANO 2021

EMO MILANO 2021, the leading world fair related to advanced manufacturing technologies, will showcase the latest developments and know-how in this industry from the 4th to the 9th of October in Milan. Promoted by CECIMO, the European Association of the machine-tool industry, and organized by UCIMI-SISTEMI PER PRODURRE, the Italian Association of Manufacturers of machine-tools, robots and automation systems, the show, with its title “the magic world of metalworking”, will present future-looking technologies for social progress and well-being aimed at the most advanced industrial sectors: machine tools, automotive, aeronautical, railways, metal machining and materials.

EMO MILANO 2021 will have exhibitors from over 30 countries, especially Italy, Germany, Taiwan, Spain, Japan, Switzerland, China and Korea.

The Spanish machine-tool industry is the fourth largest in this edition of the EMO in terms of the number of exhibitors, and in fifth place in terms of stand space. The 34 companies will occupy 2,808 m2, in which they will offer important novelties in the fields of milling and machining centres, lathes, honing, electro-erosion, metrology, digitalization, automation and control, components, cutting tools and other technologies and services for advanced manufacturing.

Besides the wide and varied product ranges on show, EMO MILANO 2021 will feature numerous side initiatives, such as EMO Digital, the exhibition space focused on digital technologies; EMO Additive Manufacturing, dedicated to one of the most promising fields of the manufacturing production; EMO Start-Up, offering a view to the new enterprises working on the development of products and projects related to the world of production systems and metalworking; Speakers Corner, the arena that will propose speeches and in-depth analyses by exhibitors and organisers.

The event marks the beginning of the reactivation of the major fairs in Europe, including the 32nd BIEMH, the International Machine Tool Biennial to be held in Bilbao from June 13 to 17, 2022. Precisely, the SORALUCE stand at the EMO fair will host the presentation of BIEMH 2022 and the data of the advanced manufacturing sector with the intervention of Arantxa Tapia, Basque Government Minister for Economic Development, Sustainability and Environment, Xabier Basañez, General Director of BEC, Pello Rodríguez, General Director of Danobatgroup and Vice President of the Mondragon Corporation and Xabier Ortueta, General Director of AFM Cluster.

EMO MILANO 2021

Opening ceremony: 4th of October 2021, Speakers Corner Pad / Hall 5- Stand B44 D31 Fieramilano Rho.

AFM and BIEMH 2022 presentation: 7th of October 2021, 11:30 am at the SORALUCE stand (Hall 3- Stand D06) with the intervention of Arantxa Tapia, Minister of Economic Development, Sustainability and Environment of the Basque Government.

correa

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Grupo Nicolás CORREA will present their AXIA milling machine and the new boring system for the MAGNA milling machine in EMO 2021 (Hall 3, Stand E02 F01)

The Nicolás Correa Group (GNC), a leading international company in milling solutions, will introduce its AXIA moving column milling machine and its new boring system for the MAGNA milling machine in the EMO Milano 2021, the most important machine-tool trade show for significant actors in the manufacturing industry.

Recently awarded the iF Gold Award for innovative design, AXIA combines an innovative mechanical system that compensates ram descent and a guiding system that is unique in the market and enables its use in the automotive, energy and capital goods industries. Likewise, the new boring system for the MAGNA milling machine, patented by the Nicolás Correa Group combines the speed, precision and flexibility of a milling machine with the rigidity, high torque and power of a boring machine. The system includes automatic loading of workheads that provides a high degree of flexibility and productivity.

The EMO 2021 trade show is sponsored by the European association of machine-tool builders (CECIMO) and will be held at the Fiera Milano exhibition centre from 4 to 9 October. This internationally renowned event presents the latest advances in machining technology and automation systems for the most advanced sectors of the industry: automotive, aeronautics, railway, metal machining and energy.

Along with more than 700 manufacturers from 36 countries, the Nicolás Correa Group will participate in the trade show alongside 33 other Spanish companies from the machine tool sector, also members of the Machine Tool Manufacturers Association (AFM).

As communicated by the Nicolás Correa Group "the participation of GNC in EMO, the largest machine-tool exhibition in the world, entails a recommencement of international activity and offers us the best opportunity to showcase our products and reinforce our stature in the international market. AXIA and the boring system for MAGNA are the best example of the path our company has taken over recent years; innovative and versatile products that improve productivity and significantly save on production costs".

**DANOBAT S. COOP.**

Tel.: + 34 943 74 80 44

Email: danobat@danobat.comwww.danobatgroup.com**DANOBAT will present a new generation of CG high production grinding machines at the EMO MILANO fair (Hall 3, Booth E26))**

Machine-tool and advanced production systems manufacturer Danobat will take part at EMO trade fair in Milan, one of the biggest events on the international calendar for the industrial manufacturing sector. Danobat will showcase the most technological advanced solutions of their three brands: Danobat, Danobat-Overbeck and Hembrug.

Danobat will present the new generation of grinders – the CG external cylindrical grinding solution. These machines can apply conventional abrasives at wheel speeds of 80 m/s, using standard equipment. This boosts productivity up to 20% in many applications. The CG also boasts nearly 100% availability, thanks to smart engineering that reduces component count, remote diagnostics, predictive maintenance, and Danobat's deep experience in producing machines for high volume production. What's more, the CG's unusual cross-slide design and swiveling B-axis wheelhead make it capable of grinding a wide variety of part sizes and geometries in a compact space.

As Ander Lopez, cylindrical grinders business unit manager, put it, "the CG is a perfect fit for our market, because most customers want a very versatile solution, even if they're sure the current job will run for a long time. Everyone loves the higher throughput you can get from these wheel speeds. We look forward to showing off the new machine in the coming EMO exhibition".

Under the slogan "Driven by you", the firm is to present latest generation grinding and hard turning machines with high technology value as well as fully automated solutions. Danobat will also be showcasing how they can improve customers' effectiveness with their digital services.

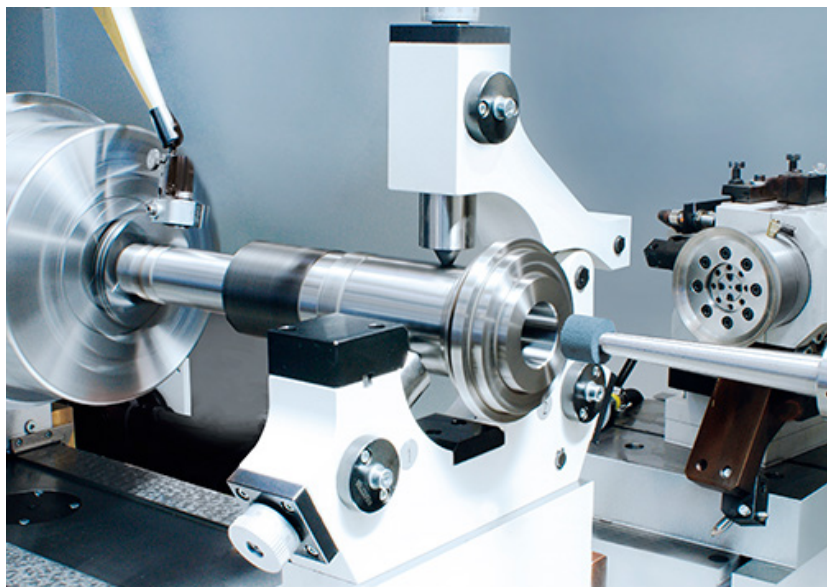


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DANOBAT will present their latest innovations in lathes and grinding machines at the EMO MILANO fair (Hall 3, Booth E26)

Danobat-Overbeck, the German subsidiary, presents the ILD high-precision internal, external & radius grinding machine. A flexible solution capable of grinding highly complex parts which require different grinding processes in one set-up. During EMO, the ILD machine will be showing a demo part manufactured especially for this fair with no less than 30 eccentric holes.

In addition to this machine being suitable for grinding of deeper and longer ID's, it allows for clamping of parts of up to 1300 mm with a swing of 760 mm in diameter. The configuration options of the B0 axis (+20°/-10° or +90°/-15°) makes it an effective solution for the production of precision parts requiring complex operations. It can grind tapered surfaces and allows automated cylindrical corrections. It is also possible to grind radii using interpolation. This in turn allows complex geometries to be machined in the part using coordinate grinding. It is even possible to make square, rectangular or free shapes with the highest level of precision.

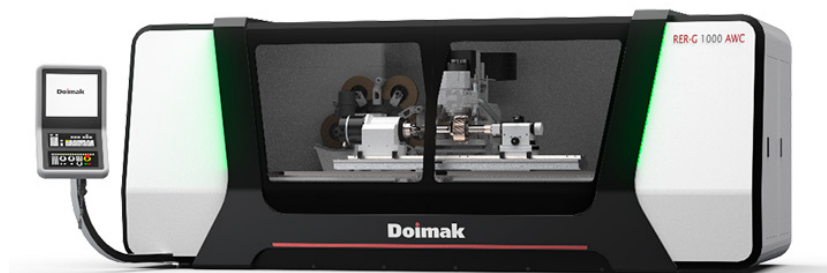
Hembrug Machine Tools will present the new generation Mikroturn® finish hard turning machine with integrated gantry loader. The new generation Mikroturn® is a further development of the existing Mikroturn® 100 and features a complete new and modern design. It also incorporates many improvements in the field of thermal stability, machine stiffness and accuracies that have been implemented in the Mikroturn® 100 in recent years. In addition, by applying the latest generation of pumps and motors, noise levels have been reduced by more than 70%.

Hembrug started with Danobat working on the new design after the acquisition by Danobat in 2019. The modern and functional design is now in line with the Danobat style. The machine can also easily be equipped with Danobat's in-house developed gantry loader. This ensures even greater productivity and efficiency with lower per-part costs, even in a high-mix and low-volume environment for which the new generation Mikroturn® will mainly be used. The new design, where the hydraulic unit and gantry loader are integrated into the machine body, has a smaller footprint than the current Mikroturn® 100.

Under the hood the new generation Mikroturn® still offers the highest finish hard turning precision levels on the market just as the Mikroturn® 100. Form and dimensional accuracies of less than 2 micron and surface roughness Ra of 0.1 to 0.4 micron in workpieces with hardness of up to 70 HRC are indicative for the precision level of the new generation Mikroturn®. Thanks to the wear free, hydrostatic bearing system this machining accuracy is maintained even after decades of use. The Hembrug Mikroturn® machines are used worldwide already for many years by renowned companies in the bearing industry, tool and mould making and machine construction. The new generation Mikroturn® is the next logical step in order to meet an ever increasing demand for productivity, accuracy and lower cost per workpiece.

**DOIMAK S.A.**

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Email: webmaster@doimak.eswww.doimak.es**DOIMAK will present the new version of their multi-operation grinding machines in the EMO MILANO 2021 trade show (Hall 1, Stand C32)**

DOIMAK, a high-technology grinding machine manufacturer since 1974, will participate in the EMO Milano 2021 trade show (Hall 1, Stand C32) to introduce its new generation of 6-axes grinding machines.

DOIMAK will demonstrate its new RER-G 1000 AWC design, a multi-operational machining centre with an automatic grinding wheel loading system and integrated measuring system. This innovative design also features a rotary head (B axis) that enables grinding of a wide variety of workpieces.

The solutions integrated in the machine make it agile, independent and fast.

The 6-position wheel magazine is capable of storing a wide range of wheels with diameters from 40 to 350 mm. The magazine features an independent access for simple and safe user operation.

Automatic wheel loading is carried out by a robust HSK-E system that also changes the cooling nozzle.

As a whole, the system provides the versatility needed to perform multiple operations and guarantee repeatability in changes and transitions.

Another of the significant new features in the machine is the gear measurement system. Not only does the new system offer an automatic positioning function, but it is also capable of measuring the three most important properties of the gears (profile line, edge line and step). This has been achieved by developing a specific graphics viewing software with the main goal of taking it one step further to measure, display results and make corrections in the machine itself.

In sum, the design of the new RER-G 1000 AWC is compact and versatile, intended to improve multi-operation processes by including new technological advances required by the most demanding manufacturing processes.



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FERG presents its new range of "HT" screw taps for difficult material threading in the EMO MILANO 2021 trade show (Hall 2, Stand E21)

FERG will present the new range of "HT" screw taps for threading austenitic and martensitic-ferritic stainless steels and hardened materials at the EMO MILANO 2021 trade show, from 4 to 9 October.

These screw taps are made from powder metallurgy and a TiAlN/WC coating that, along with their geometry, improve productivity in these types of materials.

RANGE

- HT Set for through holes: W124A, C124A.
- HT Set for blind holes: W122A, C122A.
- HT Set with internal coating for through holes: W624A, C624A.
- HT Set with internal coating for blind holes: W622A, C622A.

Upon request, FERG carries out numerous special designs to optimise threading and improve productivity in large series.

The FERG company was founded in Vic (Barcelona) in 1963 and is dedicated to the manufacture of threading tools. The company has an expert team of qualified professionals steeped in human values, ample experience and a highly specialised industrial infrastructure. Because of its distinctly reliable products, it counts on the trust and fidelity of hundreds of companies on the five continents, which enable FERG tools to work at full capacity in the most diverse production sectors.

GEMINIS

MAHER HOLDING

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GEMINIS LATHES presents the complete new range of its GTi horizontal lathes at EMO 2021 (Hall 1, Booth C03)

This new generation of horizontal lathes follows the principles that have characterised GEMINIS lathes throughout their more than 60 years of history: robustness, reliability, precision, specialisation and multi-processing.

This range also incorporates eco-design criteria, complete management of swarf and coolant, and has been conceived with special emphasis on ergonomics as well as a careful overall design, making GEMINIS lathes, more than just a tool, a friendly and safe working environment for the operator; the pride of an expert.

In this edition of the EMO fair, GEMINIS presents a lathe model GT5i G4 1400x6 with the following features:

- GT5i horizontal lathe.

- 4 guideways.

- 1400mm swing over bed; 6m between centers.

- With full enclosure.

- Siemens 840 D SL control.

- 22" Touch Screen equipped with HM.

- Twin Drive head 37kW.

- Double carriage with "0" point system for quick change of devices.

- Slide N.1: Automatic square turret size 25 NG40 with 4 stations.

- Slide N.2: Boring bar holder + Sandvik anti-vibration bar Ø150 x 2400mm.

- SMW IN-D chuck Ø630mm.

- Hydraulic self-centring steady rest SMW RX-Z 6 with capacity Ø100-520mm.

- Tailstock with motorised traverse, automatic locking/unlocking system, motorised quill with closed-loop pressure control system and 160mm quill.

Also on display:

Automatic 12-station motorised turret with radial output VDI 50, 9kW.

External grinding device, Ø600x80mm, 30kW, with GEMINIS grinding cycles.



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INTEGI presents at EMO MILANO fair its new models of roller burnishing tools to work on all types of lathes (Hall 2, Booth F41)

INTEGI a company with more than 40 years of experience in the machining of parts for different sectors and the manufacturing of knurling and rotary broaching tools, introduces its new models of roller burnishing tools to work on all types of lathes.

Roller burnishing tools can reduce surface roughness through crushing the peaks generated during turning, obtaining a polished, homogeneous and a remarkable reduction of roughness.

Various models of burnishing tools are available to cover all types of surfaces (cylindrical zones, conical, concave, outer surfaces...) for workpieces from different materials which on many occasions can substitute the rectifying process.



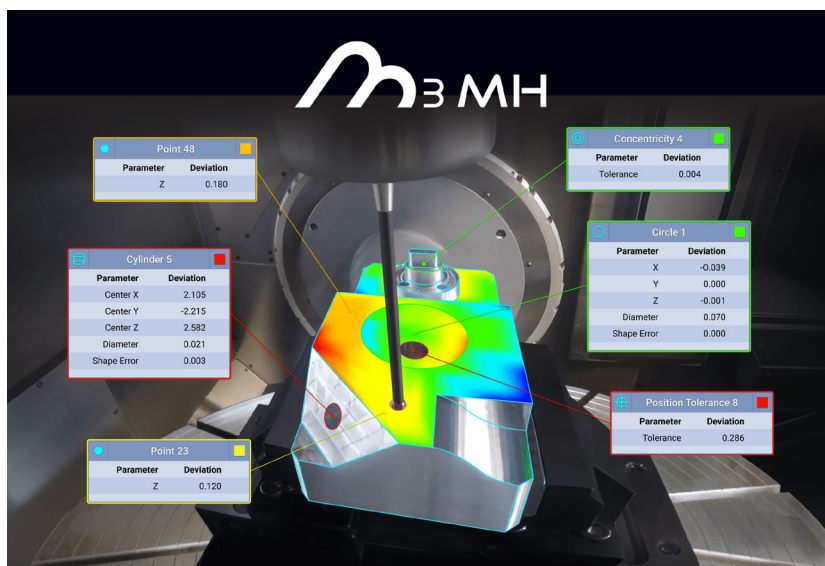
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INNOVALIA METROLOGY presents one the M3MH in-process measurement CAM software at EMO MILANO 2021 (Hall 7, Booth F27)

On the occasion of the return to the exhibitions, Innovalia Metrology would like to present one of its flagships, M3MH (measuring Software for Machine Tool). A metrological software for machine tools with which one can optimize machining process to the maximum.

M3MH has three functionalities to get the most out of machining centers: machine verification, part set-up and iterative alignments, and in-process measurement.

With its intuitive interface, it controls and verifies the correct operation of the machine tool as well as it ensures the quality of the parts manufactured on 5-axes centers.

M3MH, a software certified by accredited entities, incorporates advanced industry 4.0 concepts to meet the needs of parts manufacturers:

- Reduces manufacturing time.

- Increases the traceability and quality of the production process.

- Offers full control of the entire machining process.

Innovalia Metrology will present M3MH at the stand P7 S F27 on the next EMO exhibition in Milan.

LAGUN

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LAGUN will be at EMO MILANO 2021 with 5-axis continuous machining solutions (Hall 3, Booth F12)

LAGUN attends EMO MILANO (stand F12- hall 3) with the aim of introducing the "LU C" milling head for 5-axis continuous machining. It is a milling head with two main features:

- Simultaneous millesimal positioning in its two axes, controlled by individual encoder reading for each axis and with a fast-braking system and powerful clamping for high precision.

- Continuous control of the position of both axes during machining, by driving two motors (master slave), for each axis (A and B).

It is LAGUN's most competitive solution for today's machining needs with top quality design and elements. It is fast, accurate, reliable, and robust, values that have been worked on during its design.

In a continuous process of design, development and innovation, LAGUN has also expanded its product range, incorporating new models in which it is worth mentioning:

- Different architectures with rotary plates integrated in the bed itself next to the fixed table, "C" series machines, providing them with the possibility of 5-sided machining, together with the machining of longer parts.

- Larger transversal and vertical travels, "L" series machines based on a robust design of the main structural elements.

The new line of PORTABLE MACHINES will be presented together with the motorized millesimal turning head. To date LAGUN has developed several portable solutions that have been well received by the market, so it will take advantage of the EMO to present this new line of business on a large scale.

The range consists of two different models, a portable boring-milling machine and a portable gantry milling machine.

On-site machining technology is the opposite of our traditional mode of operation: the machine is moved instead of the part. Portable machines travel to the part to be machined instead of spending time transporting the part to a machining shop. The use of portable machines makes it possible to achieve high quality and precision machining on site.



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ONA Electroerosión presents the ONA IRIS range at the EMO Milano 2021 (Hall 1 Stand C27)

ONA EDM will be present at the EMO Milano 2021 international machine tool fair to be held from 4 to 10 October in Milan. ONA will present a number of the latest products and services that the company has been developing in recent months.

Outstanding among these is the international launch of the ONA IRIS range, which has revolutionised the traditional way of doing EDM. The new ONA IRIS range is the company's most advanced machine thanks to an unprecedented integration of digital tools: a powerful graphic engine that gives you complete control over your project and the most powerful generator on the market, entirely digital, configurable and programmable.

In addition, the new AD range of wire EDM will also be on display, a highly competitive option thanks to its price and high performance. A machine that offers maximum productivity with outstanding finishing precision aimed mainly at factories that seek to make their processes more profitable.

Finally, and in partnership with Samylabs, ONA will exhibit one of its most advanced products in metal 3D laser printing technology. A product geared towards the production of parts with excellent mechanical qualities that in many cases are impossible to manufacture with other technologies. It is an opportunity to see in situ examples of geometrically complex parts produced with Samylabs machines in different metallic materials.

ONA will be in Hall 1, Stand C27, eager to present the latest innovations in products, services and technology.



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SORALUCE will present, for the first time in the Italian market, the SORALUCE PMG Gantry Milling Machine at EMO MILANO 2021 (Hall 3, Booth D06)

SORALUCE will take its latest developments in milling, boring and vertical turning machines, multitasking solutions, along with automation lines and "best in class" services, to the Milan event. It is the most comprehensive and advanced machinery range on the market, which is also designed to be customized to each client's specific requirements.

One of the Soraluce highlights at the event will be the SORALUCE PMG portal gantry milling machine, to be presented on the Italian market for the first time. The model has a longitudinal traverse of 10,000 mm, a cross traverse of 4,000 mm and a vertical traverse of 1,500 mm, fitted with a stepless universal head of 0.001^º x 0.001^º at 7,000 rpm.

Soraluce, the trail-blazer in the use of linear guiding systems, has applied all its expertise to the development of these new portal machines. They combine the linear guiding technology with the damping systems by means of incorporating solutions such as DAS[®] (Patented), an active damping system to eliminate chatter and exclusive to Soraluce.

The result is highly productive machines, with great precision, and that are dynamic, stable during machining and reliable as regards availability.

In keeping with the #MadeForYOU philosophy, the new portal model can be customized to meet each client's requirements, where the work areas can be configured to optimize productivity, by minimizing shutdowns while fitting the workpiece, or to increase the versatility and flexibility of the machine, by incorporating the multitask feature with rotary tables for milling and turning. Its options include milling and turning heads, and tool storage.

The machine-tool manufacturer assembles this type of machines at the state-of-the-art Soraluce Portal Factory. The company has invested €9 million in the facilities to create a modern and advanced manufacturing center, that is one-of-a-kind in its category in the world, and dedicated to the manufacturing of portal machines.

Along with the latest developments in the portal machinery range, Soraluce professionals will show the visitors to the fair the company's whole range of milling machines, multitasking solutions and automation lines. The visitors will also have the chance to learn about the portfolio of "best in class" services that increase the precision, productivity and profitability levels of machining.



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SORALUCE will present during the EMO MILANO fair smart damping solutions and innovations in the field of industrial digitization (Hall 3, Booth D06)

Soraluce continues to consolidate its great commitment to technology, by developing high value-added services and offering expert advice to its clients. Thus, during the fair, Soraluce will showcase smart damping solutions to increase stock removal during the machining. The solutions have been developed thanks to the company's high technical expertise and its knowledge of engineering applied to manufacturing solutions. The visitors will also have the chance to find out about these technologies for themselves during the live demonstrations.

The manufacturer has developed different systems to eliminate chatter, thus increasing the cutting capacity of the equipment and the efficiency of the machining processes.

On the one hand, Soraluce will showcase its renowned active damping system, DAS®, the smart system that oversees the machining process and selects the best technological alternative to eliminate chatter. Fitted with a very simple interface, this solution allows the evolution of the process to be controlled, by providing comprehensive information on the chatter, the vibration level and the technologies used to suppress it; such as the active damping of the ram, the tuning of the optimum spindle speed of the tool and the harmonic oscillation of the spindle speed. "This system allows productivity to be increased by up to 300%, maintain 100% cutting capacity throughout the whole of the machine's work volume, cut machining times by up to 45%, improve the surface quality of the machined workpieces, increase the tools' useful life and the long-term precision of the machine by reducing the wear of the internal components," explained Xabier Mendizabal, Soraluce's R&D Director.

On the other hand, there will also be a live presentation of the DWS (Dynamic Workpiece Stabilizer) system, an active damping device that eliminates the chatter that is usually generated when machining flexible parts. This patented system, which was the winner of the Prize award in the International Quality Innovation of the Year 2020 competition, provides an effective solution for the problems associated with machining slim-format parts and is an improvement on traditional alternatives. One its main benefits is a better surface finish in areas where the workpiece is more flexible, and the chance to boost productivity thanks to in-depth passes with no vibration problems. Its user friendliness, its adaptability to different workpieces and its portability are some of the other advantages of the device.

Likewise, Soraluce will also present its innovations in the field of industrial digitalization, fully developed at the Soraluce Software Factory, the center for the advanced development of Soraluce's software solutions, advanced technologies and digital services.

In this regard, Soraluce provides advanced Digital Services, based on the Soraluce comprehensive monitoring platform that can be seen at EMO with live demonstrations. Some of those developments are: Autocheck –self-diagnosis of machine status comparing with Fingerprint benchmark parameters-, FactoryConnect-plant digitization and integrations with the Corporate Management Systems-, EMaintain -automation and digitization of the maintenance processes. Soraluce uses those services to help its clients to accelerate their digital transformation, by optimizing the performance of the machines.

On the other hand, Soraluce will present the Smart HMI at the EMO in Milan. The smart interface has new features to increase the efficiency of the manufacturing processes, thus providing great ergonomics and ease-of-use. Developed at the Soraluce Software Factory, Smart HMI incorporates new Apps, which are now smarter and more personal, where users can access new features in a unique work environment. One of the most notable applicable applications that Soraluce has added to its Smart HMI is the ability to edit programs simultaneously to the manufacturing process. This means that a manufacturing program can be run in the control zone, at the same time that another is edited in the new expanded section.

Last but not least regarding innovations in digital services, the machine-tool manufacturer will launch as a world first the “My SORALUCE” platform, a new free portal for client to enable greater control of the current status of the machine. As Alejandro Martinez, Soraluce’s Director of Services and Solutions, explained, “this new system provides clients with direct access to all the information relating the machine, which allows them to control the current status of their machine at any time and from anywhere. More user friendly, quicker and clearer”.

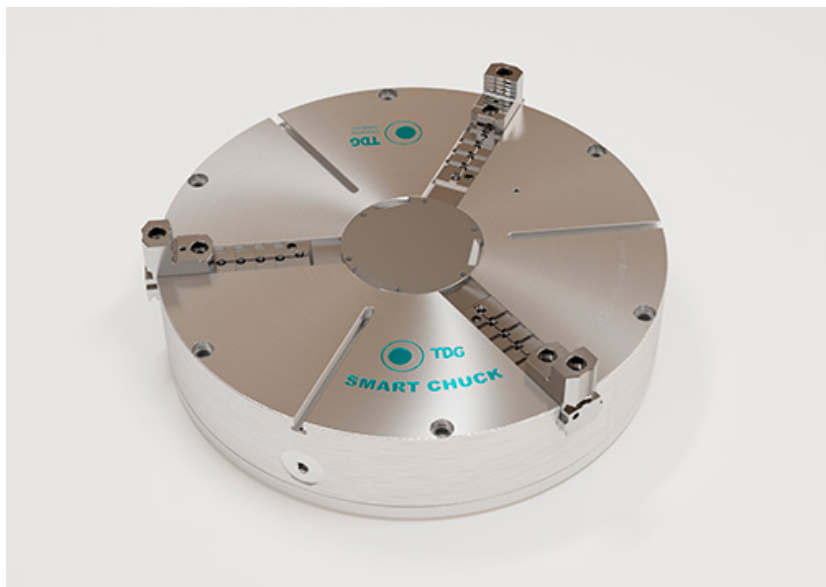


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TDG will attend EMO Milan with the evolution of the Smartchuck (Hall 3, Stand F18)

TDG Clamping Solutions will be present at EMO Milan, from October 4 to 9, together with its official distributor in Italy, Sogimut SRL, also located in Milan.

The TDG-Sogimut stand will be located in Hall 3- F18 and it will be possible to see first-hand the evolution of the TDG SmartChuck, TDG's smart plate developed in collaboration with Tecnia technology center within the Hazitek Tech4cut research program, in which companies such as Soralue, Ibermática, Fagor Ederlan, HRE Hidraulic or Savvy, among others have collaborated.

The new TDG Smartchuck includes a new super-reduced-electronics and a sensor integrated into the plate's own chuck. A perfect technical solution to guarantee the safety of the operators and of the installation itself while the lathes are operating, even with the heaviest loads.

It has been several months of development to achieve the perfect compromise between robustness and size reduction in which Tecnia and TDG have implemented and tested with the most modern components on the market.

The TDG Smartchuck will be presented at the EMO in Milan and immediately afterwards the industrialization process will begin, at the end of which, the product will be ready for commercialization in 2022.

ZAYER

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ZAYER selects EMO 2021 to launch the new ARES model (Hall 3, Stand F14 G11)

Manufacturers are constantly improving their models, but what is key and makes the market evolve, with substantial changes, is the creation of new models with new functionalities, much smarter, automated, efficient and precise ones. ZAYER is constantly working in this way, focusing our energy creating our new and tailored machine and apps range to match and resolve our customer needs.

After a very long time, the machine tool industry will meet in a global exhibition, at the EMO Milano 2021, and customers will go there with a lot of needs to match. They need manufacturers to go ahead and make them improve fast, help them to be efficient and productive with real solutions. That is why ZAYER has decided to launch in this EMO edition a new machine to the market.

THE NEW MODEL ARES

A bridge type machine means precision and flexibility, and the real benchmark feature of ARES is its moving crossbeam. ARES resolves efficiency and adaptability thanks to the crossbeam combined with its ram travel on a moving table machine.

Here you can see more of its features or if you prefer you can download the product sheet here: <https://zayer.com/datos/qr/FICHA-ARES.pdf>. This machine has been designed to differentiate itself in the most demanding sectors in terms of accuracy, flexibility and rigidity where these features are extremely required.

AREA MAP

HALL 1

ALTEYCO SYSTEM	C31
DOIMAK	C32
GEMINIS LATHES	C03
GMTK	B04
GURUTZPE	B22
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MOSNIC-IRUDEX	C35
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HALL 2

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IRAUNDI	G08
LAGUN	F12
MYL	F10
SORALUCE	D06
ZAYER	F14 G11
ZUAZO	E37

HALL 4

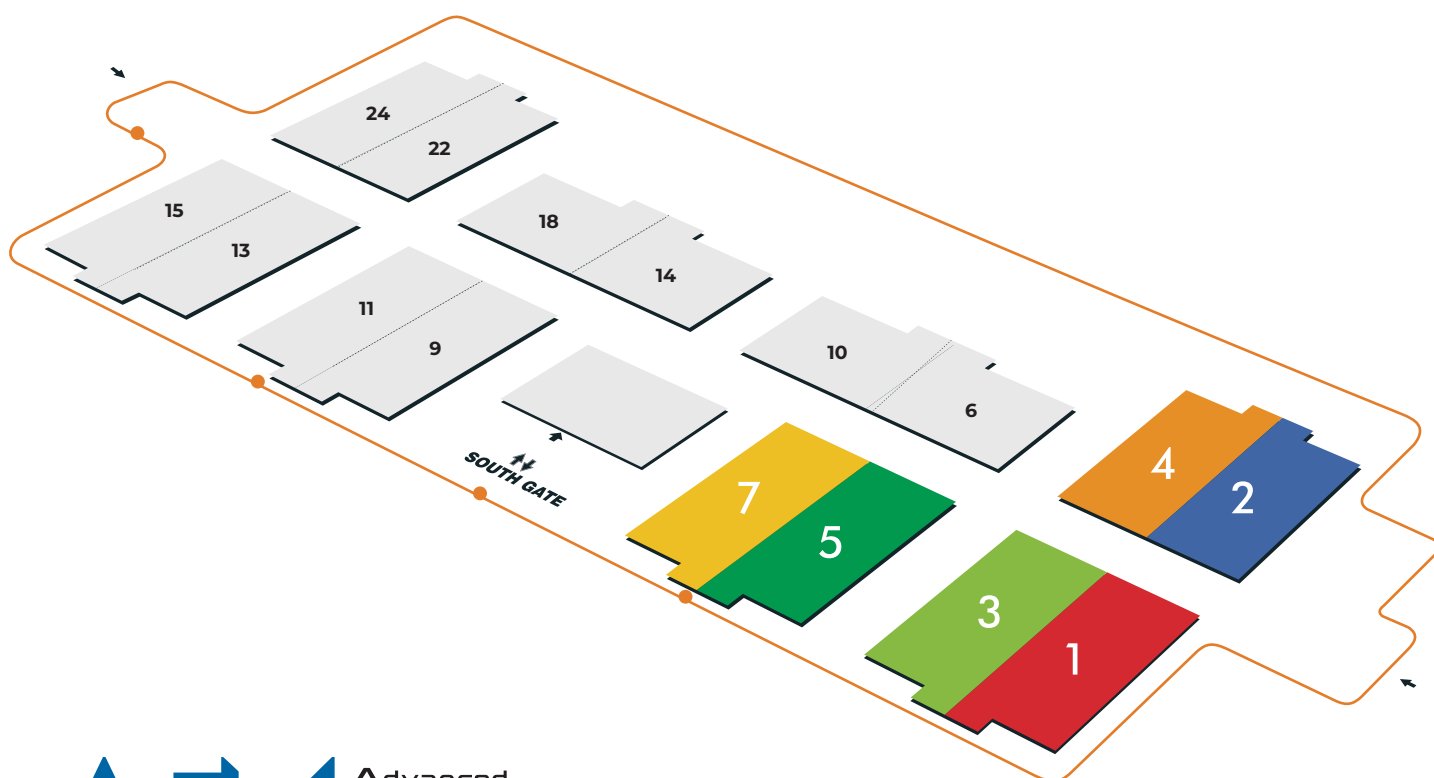
AFM	B23
METOSA GROUP	A28 B13
SIKULAN	D19

HALL 5

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SCS-HP	D30

HALL 7

FAGOR AUTOMATION	E12
INNOVALIA METROLOGY	F27
PICK TO LIGHT SYSTEMS	H14



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