

COMPLETE



Nr. 01/25

The complete machining magazine

STORY

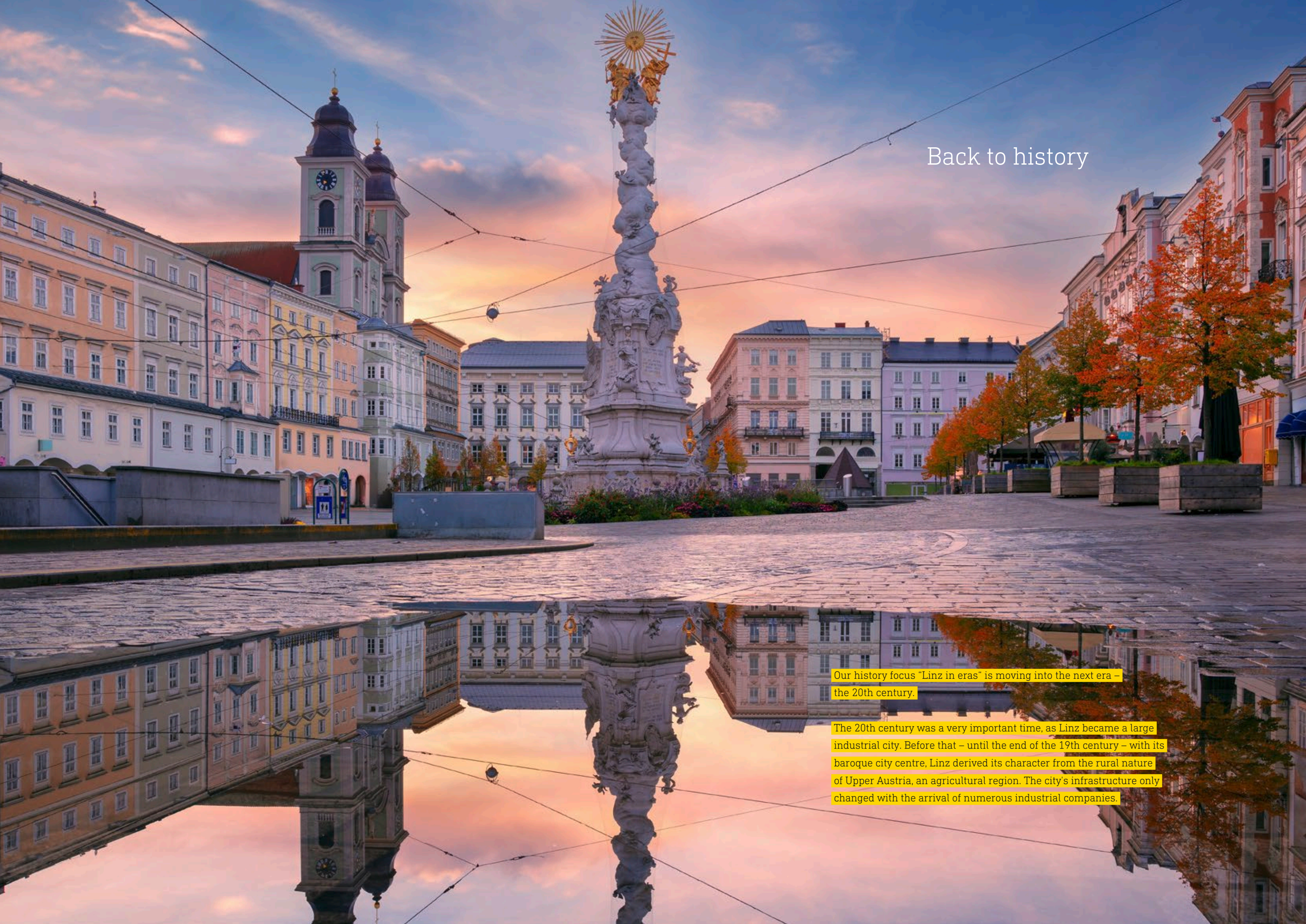
Four MILLTURNS can be found at the Spanish company CESA Héroux Devtek. Take a look at the success story!

ALL EYES ON

A application software that is sustainably maintained, CrashGuard Studio.

PREVIEW

2025 will see a number of trade fair highlights.



Back to history

Our history focus "Linz in eras" is moving into the next era – the 20th century.

The 20th century was a very important time, as Linz became a large industrial city. Before that – until the end of the 19th century – with its baroque city centre, Linz derived its character from the rural nature of Upper Austria, an agricultural region. The city's infrastructure only changed with the arrival of numerous industrial companies.



Dear customers and readers,

A new year brings fresh opportunities and exciting prospects. Our goal remains the same: with innovative technologies and pioneering solutions, we not only want to meet the requirements, we aim to exceed them. By focussing on progress and collaboration, we plan to offer solutions that support and inspire your success in the long term.

What topics await you in this issue?

Behind the scenes: In this section, we speak to Head of Sales Christian Jagersberger. During the interview, he talks about his new responsibilities in this role, his management style and the challenges he has faced since joining WFL 13 years ago. He provides an intriguing insight into WFL's sales approach.

Manufacturing Solutions: Second-hand machines are more than just an alternative: they combine proven quality with economic efficiency and environmental sustainability. Whether for small businesses or large production facilities – buying second-hand machines can mean enormous savings and shorter delivery times. WFL second-hand machines remain highly competitive even after several years of use. As with the new machines, WFL offers unique options with regard to quality and customer care. Simon Aichhorn, Project Manager Manufacturing Solutions, answers questions for the customer magazine.

In this issue you will find exciting information about Crash-Guard Studio and this year's upcoming TECtalks including webinars. You can also read about the CESA success story. This Spanish company has four MILLTURNs in operation and uses the advanced production methods to reduce working time. In conversation with Production Manager Iñigo Meseguer, we gained fascinating insights into the company's production processes and plans for the future. The second user report looks at the company SARO based in western France. It has been using the M65 MILLTURN since 2006. The operators talk about their experiences with the exceptional performance of this technology, which has been at the heart of their workshop for 19 years.

We also take a look at WFL's environmental management system and the activities of the Tools for Life Foundation during 2024.

We hope you enjoy reading this edition!

The WFL Management Team

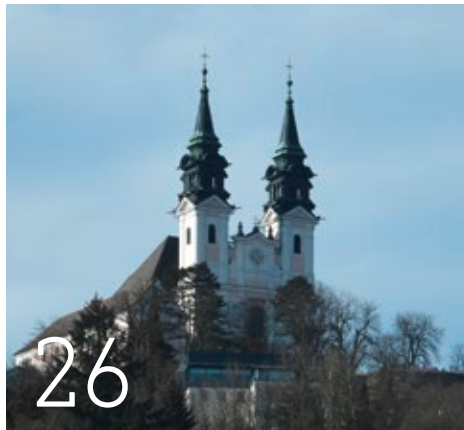


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Stefan Hackl
CFO

Franz Schön
COO



10 | BEHIND THE SCENES
Insights
Talk with Head of Sales Christian Jagersberger

15 | DID YOU KNOW?
Focus on the CrashGuard Studio

18 | SUCCESS STORY: CESA
Robustness and precision
Four MILLTURNS are used to produce parts for the aerospace industry.

23 | ALL EYES ON
WFL TECtalks 2025

26 | LINZ OVER THE YEARS
Linz in the 20th century
The state capital is developing into a major city. What do you have in mind?

30 | GO GREEN
Machines fit for the future

32 | SUCCESS STORY: SARO
Longstanding trust in WFL
Versatility and precision are important factors.

36 | TOOLS FOR LIFE
Review of the year
Activities from the year 2024

38 | GO GREEN
The environmental management system

42 | PREVIEW
In 2025, WFL will again be represented at all important trade fairs in the industry.

44 | SPOTLIGHTS
Exciting news

WFL 
MILLTURN TECHNOLOGIES

**We make
it work.**

There is only one machine tool
that turns, mills, drills and
performs with the highest precision:
A MILLTURN by WFL.



CIMT 2025
April, 21st - 26th
Hall A3, Booth 753





Together we are strong:

Christian Jagersberger discusses sales
teamwork and success

How do you feel about your new duties as Head of Sales?

The direction of travel for WFL was clearly defined by the owner and by our Management Board: The company should continue to grow and achieve a sustainable increase in sales. I fully support these goals and also believe that we can achieve them as a company if everyone pulls together and in the same direction. To achieve this, we need to address various issues on the sales side. Probably the three most important points for the next few years are: driving forward the internationalisation of WFL, making the sales process more efficient and opening up new markets.

By internationalisation I mean that WFL is represented by its own foreign branches in the most important markets. Besides France, branches have also been established in the United Kingdom, Canada and Italy in recent years. These branches will play a key role in sales of machines, but also in service. As a company, we are becoming more global and more local at the same time. This will be exciting and will also demand a lot from employees in Linz.

The second point is to increase efficiency in sales. As a sales organisation, we need to be closer to our customers, which means travelling more and seeking more personal contact. Our products are very advice-intensive. Customers need to understand exactly why a MILLTURN costs more than a competitor's product and why the higher price is worth it. In my opinion, the type of advice that is needed here cannot

be provided through a video call. To have more time for these consultations, we need to free up our frontline staff and relieve them of various office tasks. We are therefore in the process of setting up a Sales Support team to provide the necessary assistance.

We want to use the time that hopefully will be freed up by a more efficient sales process to open up new markets or to serve certain markets more intensively. I'm thinking of various countries in Asia, but also Australia and one or two countries in Africa. Every machine and every customer counts!

How would you describe your leadership style?

I'm still relatively new to the role of Head of Sales but I'm not short of ideas about how I want to lead. As Team Leader for America over the last few years, I always felt it important to set a good example, to show commitment and not to shy away from going the extra mile. I definitely want to keep it that way. Salespeople have to be creative and constantly adapt to new people and situations. If someone is always breathing down your neck, it's counter-productive. So I want to be a good sparring partner, someone with whom colleagues can discuss situations and sales strategies.

Basically, I believe that good salespeople do not require much leadership, but need to be pointed in the right direction so that they can take a good shot at the goal on their own.



CONTACTS

Christian Jagersberger (right) at the IMTS in Chicago in autumn 2024.

»As a sales organisation,
we need to be closer to our
customers, which means
travelling more and seeking
more personal contact.«

WFL WORLDWIDE



What does your typical day look like?
I'm usually in the office by around 7.30 am, then I get my first coffee and read the emails that have come in from overseas during the night. Colleagues in America often need support on a range of topics. I try to clarify certain things in the morning so that by early afternoon, when colleagues in the US start work, they find answers to their questions waiting for them in their inboxes.
One of the few routines I try to stick to in my day-to-day sales work is getting an overview of the main current projects during the morning if possible. Where do we stand in the negotiations, how can I support the frontline staff to achieve the best possible outcome? The main focus is on those projects that are expected to be concluded in the coming weeks.

Every Monday there is a sales meeting in Linz, followed by a video conference with colleagues in America and the UK in the afternoon.

Mr Jagersberger, you have been with WFL for 13 years and are passionate about the company. What challenges have you had to overcome so far?
There have already been several major challenges for me at WFL. That's what makes it so exciting. Let me tell you about the top three. The first machine we sold to Mexico: that was difficult and time-consuming – there's a huge cultural difference. Mexico is a country with a strong automotive industry and a tendency to opt for cheaper machines. Selling a high-tech solution there always means overcoming many hurdles.

Secondly, moving to Texas with my family for two and a half years and doing business there as a foreigner in one of the most conservative states. It was a difficult environment in those days. The oil price, which is important for the oil industry in the southern US, was very low. Donald Trump was sworn in as President just a few days after we arrived in America. Nobody really knew how the economy would develop under Trump.

Selling my first major project with 16 machines and automation in the US was the third major challenge since I joined WFL. The whole thing was extremely stressful – the technical clarifications and negotiations dragged on for many months. There were countless video conferences and numerous site visits to the customer. There were a lot of different stakeholders with very different needs and preferences. Fortunately, it all went smoothly last year. We got a great order which really put us on the map there.

What do you value about WFL?
I feel that customers' wishes are not treated lightly: we take them seriously and try to find decent solutions that still work well after 10 or 20 years. This kind of commitment is not a given for many companies and it's something I really value. It makes my job as a salesperson easier.

Do you personally have a vision for WFL?
I'm an aerospace enthusiast and my vision is that parts for all kinds of aeroplanes, helicopters and rockets will be manufactured on our machines. It's a great feeling to know that our machines are being used to manufacture precision components for rockets that can land again and fly to the moon and Mars in the future. Who would have thought that 20 years ago?
In this vision, I see WFL as the leading company for complete machining – even in 20 or 30 years' time.

How do you "recharge the batteries" in your leisure time?
I travel a great deal, so I try to spend the time I'm at home with my family. We're always out and about together when I'm home, maybe hiking or cycling in the great outdoors, or having a barbecue in the garden. But just as important as recharging my batteries is switching off and clearing my head, especially before going to sleep – I do this best when reading a thriller.



TEAMWORK

In addition to Sales Manager Christian Jagersberger, several other colleagues were also present at the IMTS booth in Chicago.



PROFILE

Name: Christian Jagersberger

Age: 44

Hometown: Pasching

Education:

1986 - 1994: Primary- & Secondary school in Weyer

1994 - 1999: HTL Waidhofen / Ybbs – specializing in industrial engineering

Fachrichtung Wirtschaftsingenieurwesen Maschinenbau

2004 - 2009: Studied economics at University in Linz

Career:

1999-2000: Civilian service in Mexico

Various jobs in the oil industry, food industry & plant engineering

With WFL since 02/2012

Did you know?

CrashGuard Studio

Application software that is sustainably maintained

The 3D simulation software CrashGuard Studio is the ideal tool for creating, testing and optimising new or modified CNC programs. These tests can be carried out at an external programming station (CrashGuard Studio) or directly on the machine control system itself (MILLTURN PRO). By optimising the machining process and ensuring faults are corrected early, users can expect a significant reduction in the risk of collisions and rejects, while also minimising unproductive downtimes. This unlocks new potential and offers clear competitive advantages.



Did you know?

CrashGuard Studio

by WFL MILLTURN Technologies

CrashGuard Studio is being continuously developed. The customers themselves have an important role to play here, as their feedback enables the programmers to optimise and further develop the software. Our customers' experiences, ideas and suggestions are sometimes the key that allows us to continuously improve the software

and match it precisely to their needs. Product feedback can be sent as long as a valid maintenance service contract is in place. If problems arise, users will receive rapid assistance. As well as updates based on customer feedback, the software is also adapted to new technological conditions in order to keep pace with technical developments.



What are the latest functions?

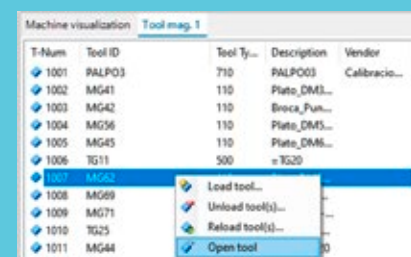
New GUI framework

The new GUI Framework provides improvements when working with high-definition 4K monitors. The new window manager now allows you to split the user interface across several screens.

Base data files directory in the project folder

Project-related data, such as drawings, can be saved in the new data files directory. You can then double-click on data files to open them directly in the default program set under Windows.

Function to open tools directly in the tool magazine



Support for additional zero-point adjustments (G505-G599)

The extra G505-G599 zero-point adjustments (available as an option) can now be edited and simulated in CrashGuard Studio.

New tool holder category

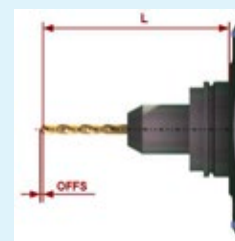
The new "Adapter tool" tool holder category has been introduced to support tool adapters with automatic cutting head change.

ROUNDUP - NC function for rounding up

The "ROUNDUP" function can be used to round up input values of the type REAL (fractions with a decimal point) to the nearest whole number.

Variable for evaluating the dry run feed

The variable \$P_DRYRUN returns the Boolean state TRUE if the dry run feed is activated during the simulation.



New functions for MILLTURN PRO

Support for grinding cycles

The new input screens for the grinding cycle package facilitate programming in MILLTURN PRO.

Improved DOI definition for contour turning

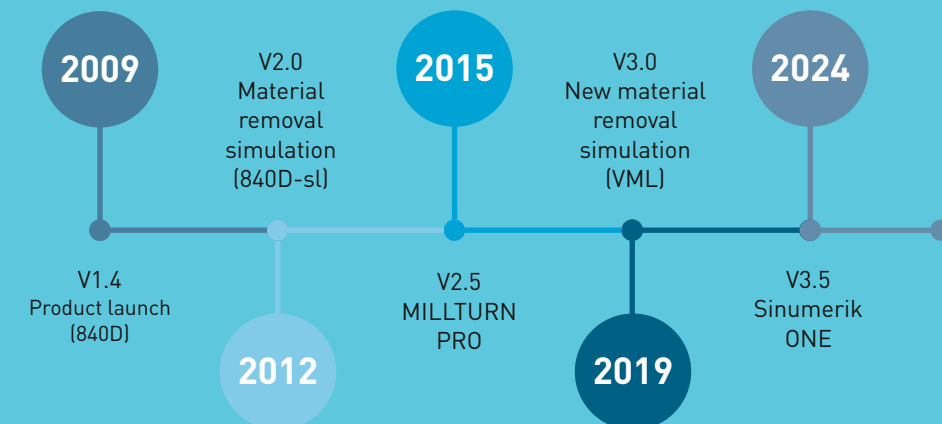
The "Domain of Interest" parameters can now be assigned outside the Contour editor.

DRILLING Operation

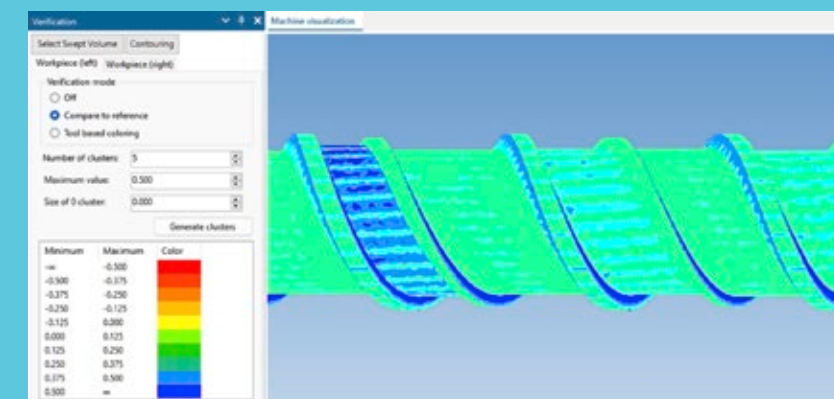
New parameters for programming the automatic drill breakage monitoring have been added.

The software is very popular. CrashGuard Studio and MILLTURN PRO have gained a broad user base since their introduction 15 years ago. WFL has delivered over 500 virtual machine models to end users worldwide,

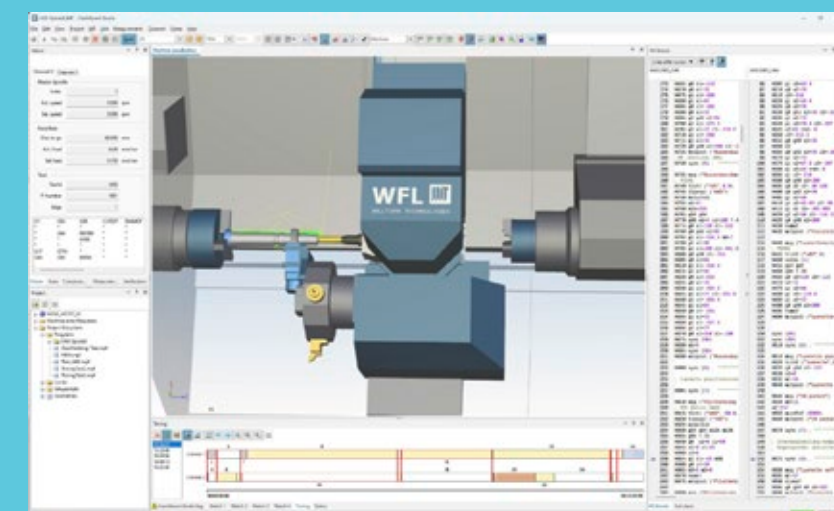
which are used as digital twins for programming and simulating the real machines. A TECtalk on the subject of MILLTURN PRO will take place in March – invitations will be sent out shortly.



Send feedback on the program to cgstudio@wfl.at



Verification window for analysing the simulated workpiece geometry.



Screenshot – new GUI

“The best solution for our products”

The Spanish company CESA Héroux Devtek has four MILLTURNs in operation and can therefore reduce working time. In conversation with Production Manager Iñigo Meseguer, we gained fascinating insights into the company's production processes and plans for the future.

CESA, Compañía Española de Sistemas Aeronáuticos S.A.U., is an international company belonging to the Canadian Group Héroux-Devtek and is now known as Héroux-Devtek Spain (HD Spain). CESA Héroux Devtek's main lines of business include the design, development, production, maintenance and support of products for hydraulic and drive systems. The company's hydraulic and electromechanical technologies are used in a variety of applications ranging from flight controls and landing gear actuators to cargo doors.

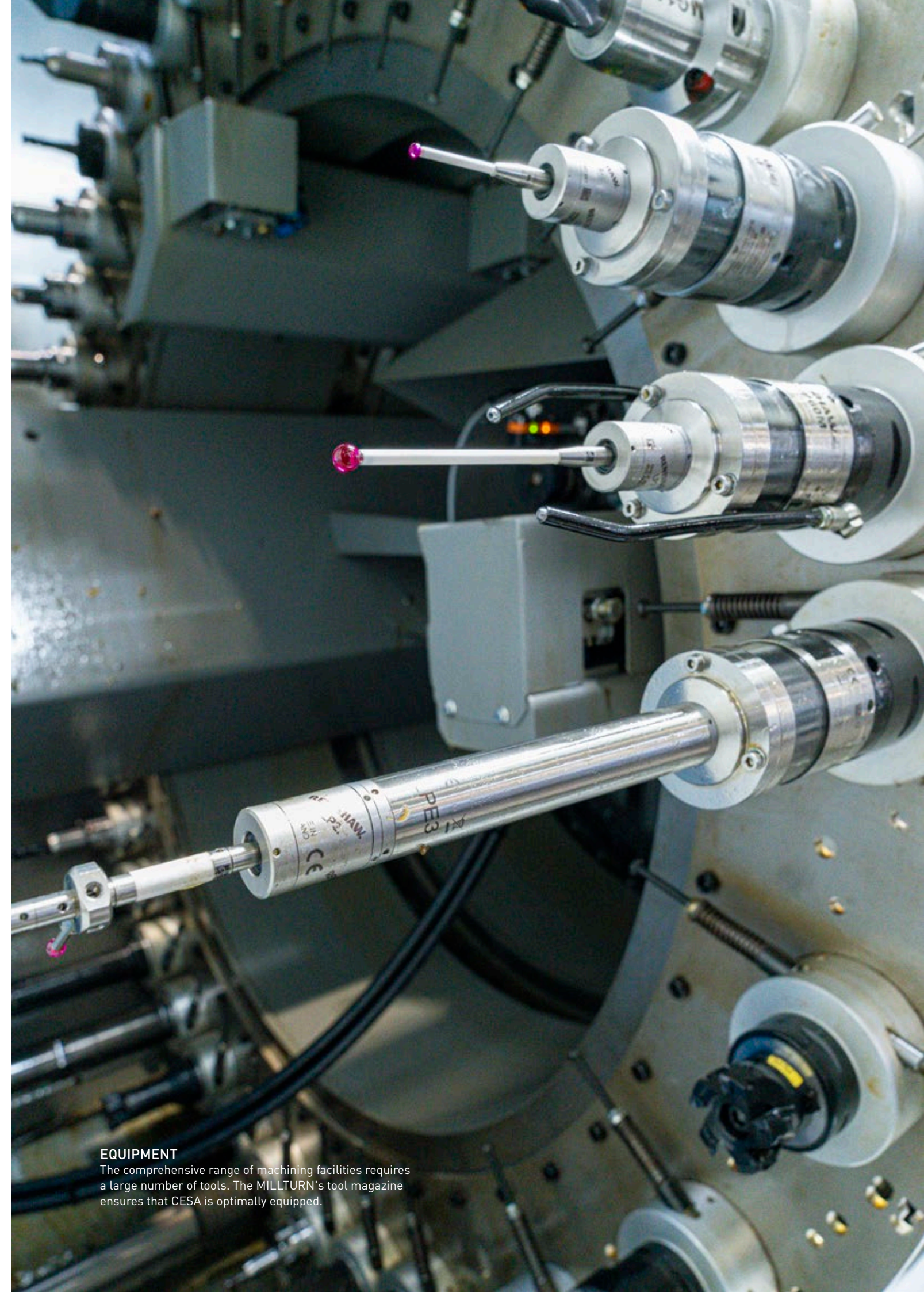
Two M35-G / 1800 mm and two M100 / 3000 mm are located in the production hall at CESA Héroux Devtek. “When purchasing the machines for our factory, we took into account the type of parts we machine and were looking to make improvements in our processes. We machine complex pistons with lengths of up to 2 m, diameters of 56 mm and a wall thickness of 2.8 mm,” says Iñigo Meseguer, explaining why the company opted for WFL machines. The parts produced on the machines are used in the aviation sector and primarily include hydraulic cylinders, hydraulic pistons and struc-

tural parts such as pins, rotary connections and wheel axles for landing struts. Batch sizes range from 8 to 16 units.

The overall package was impressive

To achieve the best possible results, the WFL machines had to meet a number of requirements, which were also key factors in the company's purchase decision. The robustness and precision of the MILLTURN, plus the automation facilities, were top of the list.

CESA Héroux Devtek wanted to optimise the process: “Efficiency and COMBO, as we call it, are very important criteria for us,” says Iñigo Meseguer. Within the company, the term “COMBO” means that one operator is responsible for two to three MILLTURNs. “Our operators are highly skilled and can work on several machines at the same time. This in turn obliges us to strive for efficiency in the processes so that machine downtimes can be kept to a minimum,” explains Iñigo Meseguer.



EQUIPMENT

The comprehensive range of machining facilities requires a large number of tools. The MILLTURN's tool magazine ensures that CESA is optimally equipped.



TEAM
Programmer Jesús Medrano with Production Manager Iñigo Meseguer.

The future of automation for parts such as those made by CESA Héroux Devtek consists in reducing set-up times as far as possible, thereby ensuring that the machine works autonomously for as long as possible and that the stop is programmed and the operator warned in advance. With this in mind, the company has developed a warning system that communicates with the machines and warns the operator when the machine stops and indicates which tasks need to be carried out. Iñigo Meseguer says: "This process is also part of our drive towards digitalisation and sustainability, as our factory is now paperless – in other words, we have removed all paper from the cells and everything is digital."

As to the question of which machines or processes were replaced by the MILLTURNS, the answer is: lathes, machining centres, and in some cases grinding machines, also bearing in mind that machining processes have been simplified by standardising the operations.



IN CONVERSATION
Visiting CESA in Madrid.

"We can definitely say that we have found what we were looking for and needed in WFL: namely a very good solution for our products," stresses Iñigo Meseguer.

A first-class service from WFL

"WFL's service is among the very best," enthuses Meseguer, adding: "The experts, who can be reached via their service hotline, provide fast, on-the-spot support that impresses in every respect. We also work with SIAISA, WFL's representative in Spain. They are committed and very responsive, and help us find solutions to any problems."

Keywords: automation, digitalisation and sustainability

CESA Héroux Devtek has come a long way in terms of automation, digitalisation and sustainability. "Our main goal is to grow as an industry leader and exceed the expectations of our current and potential customers through dedication and constant commitment, and this can only be achieved by focusing on automation, digitalisation, sustainability and new technologies such as artificial intelligence. We already gained experience in these areas through internal developments carried out in 2021, when I developed a visual recognition system based on convolutional neural networks internally at CESA with the LEAN team, thereby opening up new horizons in the areas of machining and surface treat-

ment. We are well on our way, and I have no doubt that this technology will help us to make "smarter" decisions in routine processes, detect anomalies in real time and work on predictive maintenance, whilst at the same time increasing our efficiency and equipping CESA with dynamic capabilities, which are undoubtedly the key for companies that know how to adapt when the going gets tough," says Iñigo Meseguer.

»We can definitely say that we have found what we were looking for and needed in WFL: namely a very good solution for our products«, stresses Iñigo Meseguer.



EXAMPLE OF WORKPIECE
Among other items, landing struts are manufactured on the WFL machines.



HANDLING

The patented tool magazine is simple to operate from the front of the machine, whilst ensuring maximum reliability and safety. Tools can easily be set up, dismantled and maintained during machining.

The history of CESA

CESA was founded in 1989 on the initiative of the Spanish government to improve the international position of the Spanish aeronautical accessories industry as a result of its involvement in the Eurofighter programme and to develop, manufacture and service products and systems for the aircraft. In 2007, CESA consolidated its activities with the opening of new facilities in Seville (Spain) devoted to MRO and services. In 2018, Héroux-Devtek acquired 100% of the CESA shares from Airbus Defence & Space. From that point onwards, the company became part of the Héroux-Devtek Group and operates under the name Héroux-Devtek Spain (HD Spain).

The Héroux-Devtek Group, the world's third largest company specialising in the development of landing gear, is thus expanding its range of products and services in the field of hydraulic and actuation systems and adding new technologies such as electromechanical actuation to its portfolio. The Héroux-Devtek Group comprises 15 plants in North America and Europe and currently employs a total of 1,800 people.

Héroux-Devtek Spain is constantly optimising its engineering, certification and manufacturing capabilities to develop high quality products and services for civil and military aviation.

facts

- Founded in 1989 on the initiative of the Spanish government
- 2018 Héroux-Devtek acquires 100% of CESA
- Héroux-devtek Group has 1800 employees worldwide



 *All eyes on*

TECtalks

The world of WFL explained in videos

Nothing is quicker and easier to understand than the moving image. It's also a medium that everyone uses every day. Whether we watch amusing animal videos, look at gossip, news or interesting educational videos via the various social media platforms – they all have one thing in common: the rapid transfer of information directly to the neocortex. Every day we are exposed to a whirlwind of concentrated information. Learning via these media is therefore becoming more and more popular. It also has advantages when you consider that the time factor is increasingly critical.



MWFL decided to gain a foothold in this area and start doing TECtalks. This video format has now been available for four years and 15 episodes, and is becoming ever more popular. The TECtalks in English are listed on the WFL YouTube channel and WFL's social media channels.

In 2024, the topics ranged from the myWFL Health Check and automation solutions to internal machining.

Deepen your knowledge in a webinar

Each TECtalk is followed approximately one month later by a 20-minute webinar, in which the experts on the respective topics share their knowledge with the registered participants in an easy and understandable way, delving deeper still into the subject matter. Webinars have become one of the most efficient and effective strategies for digital communication and knowledge transfer. The term comes from the words "web" and "seminar". We therefore use the term "web seminar" as a synonym. But they are also commonly called online seminars, live webcasts or web interviews. Like the TECtalks, the webinars are held in English.

They are always exciting events that attract a lot of interest from our customers. On the one hand, the topic is re-examined in the form of a presentation and, on the other hand, participants can ask questions straight away if anything is unclear.

Look-ahead to 2025

With 2024 behind us, it's time for a new series of TECtalks, so let's take a look at our topics for 2025.

A TECtalk and follow-up webinar on the **Millturn PRO** will be filmed and published in March/April. We chose this topic because the interactive graphics of the programming editor offer an efficient, effortless way of creating NC programs, and we would like to give our customers a closer insight into this key aspect.

The next episode will be filmed in May and will feature the M20 MILLTURN. The **M20 MILLTURN** appeals to customer segments that are looking for a compact and powerful complete machining centre. Special features of the M20 MILLTURN include the high stability of the machine as well as the holistic motor spindle concept for demanding machining technologies. The machine is capable of carrying out high-quality and complex machining tasks as found in the aviation, automotive, engineering and plastics industries.

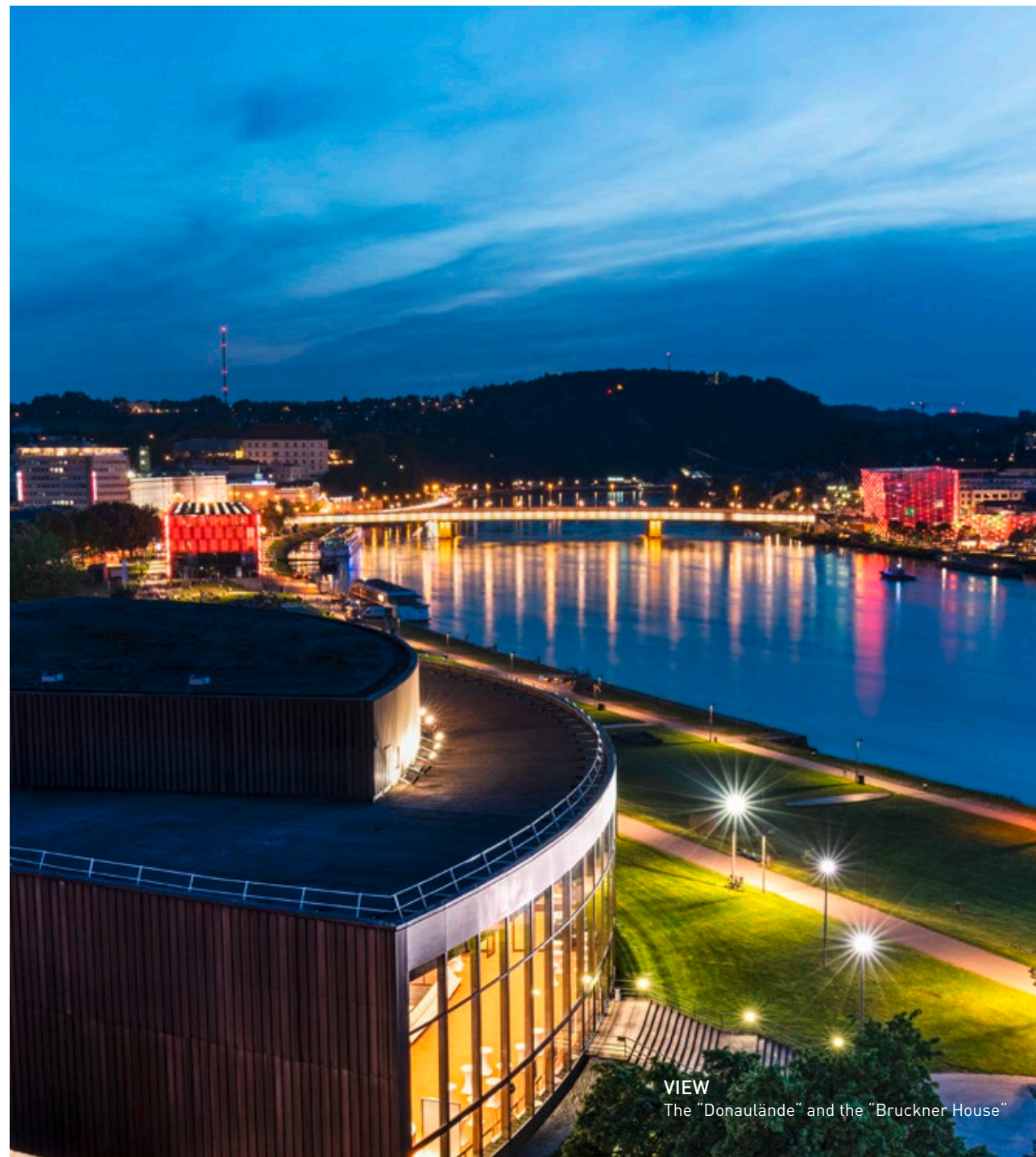
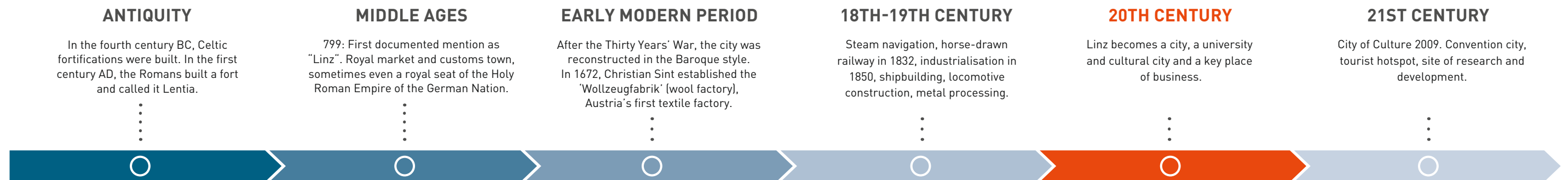
We are planning another special TECtalk in the autumn, but we can't reveal the topic of this one quite yet – we'll let you know nearer the time. As usual, the dates will be announced in good time on our social media channels. So follow WFL on all the various channels and don't miss a thing!

For now, we hope you'll enjoy watching the episodes that are available on YouTube.



TECtalks
Technology worth spreading
by WFL Millturn Technologies

**TECHNOLOGY UND INNOVATION
ARE OUR PASSION**



VIEW
The "Donaulände" and the "Bruckner House"

Linz becomes a major industrial city

The 20th century was a very important time, as Linz became a large industrial city. Before that – until the end of the 19th century – with its baroque city centre, Linz derived its character from the rural nature of Upper Austria, an agricultural region. The city's infrastructure only changed with the arrival of numerous industrial companies.

These included leading enterprises such as voestalpine, Chemie and the city's shipyard. The stadium was opened in 1952, followed by the sports hall and the Eastern Bypass with a third bridge across the Danube in 1974.

Linz – the university city

Linz became a university city in 1966 following the establishment of the "University of Social Sciences, Economics and Business" (Hochschule für Sozial- und Wirtschaftswissenschaften). The ground-breaking ceremony

for the first buildings took place on the site of the former Auhof Palace in 1964. The development into a university city was a milestone. During the opening ceremony, the key to the university was handed to Rector Ludwig Fröhler on Linz's main square, followed by the official opening in Lecture Hall 1 by Austria's President Franz Jonas. In the winter semester of 1969/70, the Faculty of Engineering and Natural Sciences began teaching and research, including computer science for the first time in Austria. In 1975, the university became the Johannes Kepler University Linz (JKU)

and the Faculty of Law was established as an independent entity. In the years that followed, the university underwent further expansion. For example, the library was built in 1984 and the management centre in 1991. Meanwhile the student population continued to rise, breaking through the 10,000 mark in the 1984/85 winter semester. Today, Linz has four universities: besides the JKU, there is also the University of Art and Design Linz, the Catholic Private University Linz and the Anton Bruckner Private University.



ECONOMY
Linz's industrial zone

The transformation into a city of culture

Linz is one of the few cities in central Europe to have undergone a major cultural, social and economic transformation in the second half of the 20th century. Before that, Linz was known almost exclusively as an industrial city with a focus on the steel industry. From the 1970s onwards, however, the construction of large cultural centres, the development of a diverse independent scene and a wide range of events brought about significant changes. The Nordico City Museum was opened in 1973 and the Bruckner House was built on the "Donaulände" (Danube Promenade), in 1974. This was the starting point for the gradual development of Linz's image as a city of culture. Other milestones included the

Ars Electronica Festival, which was organised for the first time in 1979 as part of the International Bruckner Festival and also as a prelude to the first "Linzer Klangwolke" multimedia musical event. Other noteworthy events included large-scale exhibitions open to the public, such as the Forum Stahl in 1971 and 1975, Forum Metall in 1977 and Forum Design in 1980, all instigated by the University of Art and Design, and the founding of the Posthof cultural venue in 1984. Open-air events with free admission also became established. For example, the international street art festival "Pflasterspektakel", where artists from all over the world showcase the wide variety of street performance art in Linz, was founded in 1987. The next festival will take place from 17 to 19 July 2025. The first independent cultural initiatives be-

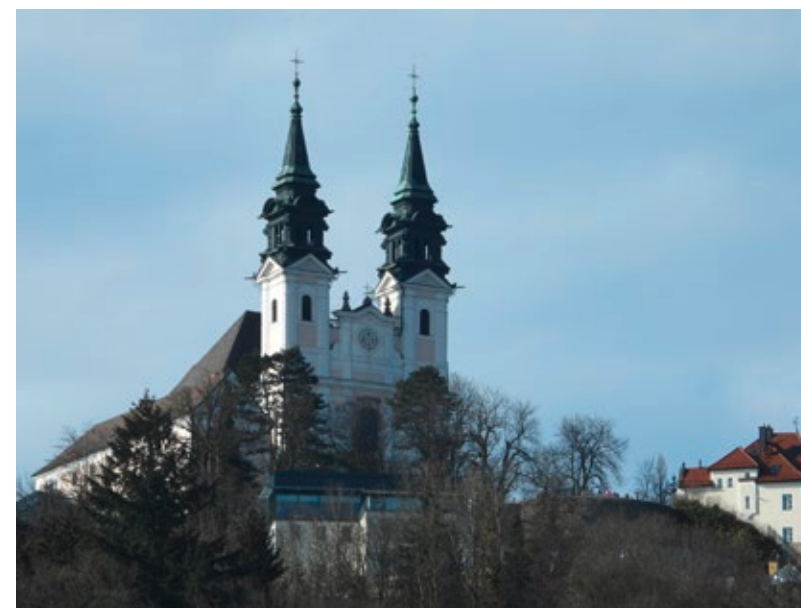
gan to be developed at the end of the 1970s, such as the Stadtwerkstatt in 1979, the KAPU in 1984 and the Theater Phönix in 1989. From the very beginning, these independent organisations played a key role in shaping the image of Linz as a city of culture. The Ars Electronica Center has been in existence since 1996 and is one of the world's first museums for technology and art. In 1998, Linz hosted the European Cultural Month, which was a trial run for the city's application to become European Capital of Culture. The first cultural development plan for Linz was adopted in 2000.

In the next issue of Complete, we'll be taking a look at the 21st century, the period in which, for example, Linz became a Capital of Culture and a centre for research and development.

»From the 1970s, significant changes began in Linz.«



LEARNING
The campus of Johannes Kepler University Linz (JKU)



POINT OF VIEW
The Pöstlingbergkirche



EDITOR'S TIPS

For anyone interested in national and international photographic art, we recommend the **Hartlauer Fotogalerie** exhibition on the Pöstlingberg, Linz's highest point. This runs from the beginning of April to the end of November.

In the exhibition rooms of the former fortification tower and on the open-air terrace above the rooftops of Linz, photo clubs and amateur photographers have the opportunity to showcase their amazing work. New pictures on changing themes are presented every three months.

Another sight worth seeing is the **Pöstlingbergkirche**, a twin-towered basilica in delicate pink and white, which can be seen from afar and is considered a landmark of Linz. It was completed in 1748. It can be reached directly via steps that begin at the viewing platform. It is also just a few minutes' walk from the Pöstlingberg railway stop and offers a magnificent view over the city.

The **Anton Bruckner Private University** for Music, Drama and Dance is located halfway up the Pöstlingberg. The building catches the eye immediately as it is very modern and surrounded by 365 ribs, which evoke an association with musical instruments such as the piano or harp. The university is definitely worth a visit, as not only can you admire the impressive architecture, but you can also enjoy a variety of performances by students. The Anton Bruckner Private University is, after all, one of the largest cultural event organisers in the region with performances of contemporary music, theatre and dance, jazz, ensemble and orchestral concerts, discussion events and lectures. There is even free admission to many events. To find out more, visit www.linztourismus.at/en/leisure



Machines from the past made fit for the future

Second-hand machines are more than just an alternative: They combine proven quality with economic efficiency and environmental sustainability. Whether for small businesses or large production facilities – buying second-hand machines can mean enormous savings and shorter delivery times. WFL second-hand machines remain highly competitive even after several years of use. As with the new machines, WFL offers unique options with regard to quality and customer care. Simon Aichhorn, Project Manager Manufacturing Solutions, answers questions for the customer magazine.

What is the overall process for a new order?

In terms of the overall process, we start by buying the machine back. Information comes to us from a variety of sources – directly from a customer purchasing a new machine, or it might be a direct enquiry, or through the sales team. Orders also take place in situations such as plant closures, or in the course of enquiries about a new machine. Highly qualified WFL personnel then carry out an on-site assessment at the customer's premises. They put the machine through its paces so that the amount of work required can be estimated. In principle, a machine with an 840D Powerline control system or higher can be bought back, but it's impossible to generalise. Many decisions are of a strategic nature and must be considered individually. If the outcome is favourable, a buyback calculation is made and the price negotiated. After a successful conclusion, contracts are prepared. From this moment on, everything is in our hands and at our expense: we take care of dismantling, packing and

return transport. Once the machine has arrived at WFL, the MILLTURN is provisionally assembled and put into operation for a second appraisal and the parameters are defined. What still needs to be done and what can be used? Which components are intact and what needs to be overhauled? These are the initial questions we ask ourselves in order to gain an overview and carry out initial planning. Naturally we take into account the wishes of a customer who is interested in buying a second-hand machine. With all sales and upgrades, we learn a great deal and are able to act more and more quickly and precisely.

Once these questions have been answered, the machine is given a general overhaul. How does this work?

The machine overhaul includes assembly, repair, paint preparation, various upgrades, commissioning, geometry check, machine check, endurance test, laser measurement and processing of a VDI workpiece for machine acceptance. From a technological point of view, the WFL is like new. The second-hand machines are sold with a guarantee, which is a key

difference compared with buying a used machine from a dealer – there you don't get a guarantee. You also receive the same support with a second-hand machine as with a new machine, i.e. the complete service, a maintenance agreement and service support.

Sustainability and durability are keywords for the MILLTURN. What can you say about this?

We currently have over 1500 machines on the market and our big advantage is that MILLTURNS are extremely long-

lived. Scrapping an ageing machine is neither sensible nor sustainable. This niche segment of "second-hand machines" has gone from filling a gap to being a focus area. Indeed, it has become a matter of major interest in terms of the environment and the conservation of resources. The machine bed, for example, can still be used after several decades without any problems. Scrapping or melting it down would be a waste. As I said, longevity is one of our greatest advantages and allows us to act sustainably both now and in the future. Our customers are always surprised at how new a second-hand machine looks. But not only does it look new, it also performs accordingly.



Turning old into new: buying a second-hand MILLTURN complete machining centre offers cost-efficiency and fast availability.

How many machines have already been sold?

Demand has risen in recent years, as it is a cost-effective alternative to buying a new machine. We have now resold over 40 reconditioned machines to new or existing customers.

What is the feedback from customers who have bought a second-hand machine?

The feedback from customers has been very positive and a modernised MILLTURN gives the fullest satisfaction. Some customers have gone on to buy another second-hand machine, having been very pleased with their first purchase of an overhauled MILLTURN.

Where and how can customers enquire about a second-hand machine?

There are various options here. Our machines can be found on the "Machineseecker" portal, or they are offered by sales staff as a cost-effective alternative to a new machine. The machine is then adapted and specified according to the customer's requirements. Available second-hand machines are also listed on our website.



See how we overhaul a machine!
www.wfl.at/services/retro-fit-solutions

»As for the future, your task is not to foresee it, but to enable it.«

Antoine de Saint-Exupéry



Simon Aichhorn, Project manager/Manufacturing Solutions, answered the questions.

The Art of Complex Machining

Minimum Operations with the M65 MILLTURN at SARO

In Western France, SARO, a company specializing in general mechanics since 1989, stands out with a machine that makes a difference: a multifunction M65 milling-turning machine from WFL. Acquired in 2006, this machine embodies the versatility and precision necessary to meet the ever-more complex demands of the industry.

The company is ISO 9001 certified for the machining and fitting of aerospace and mechanical parts. David Toullet, Ludovic Gatelet, site manager's deputy, and Ludovic Memain, operator of the M65, share their experiences with the exceptional performance of this technology at the heart of their workshop for the past 19 years.

At SARO, the M65 MILLTURN ensures local production, a crucial factor in a context where offshoring remains a constant threat for French industrial subcontractors. The robustness, power, and precision of this machine allow the company to meet deadlines and

deliver quality that appeals to key players in varied sectors like aerospace, energy, oil, diesel engines, and generators. According to David Toullet, "this type of machine is essential for meeting our clients' expectations without compromising our competitiveness."

Versatility Proven Over Time

Since its arrival at SARO, the M65 MILLTURN has gone through several usage evolutions. Initially, the machine was purchased for manufacturing printing cylinders, but the 2008 financial crisis shifted its dynamic. For a few years, the machine's potential went underutilized. However, since 2019, the produc-

tion rate has increased, reaching up to 80 hours per week after the COVID-19 pandemic. Today, the M65 MILLTURN runs at full capacity with two operators alternating shifts throughout the week.

"The M65 MILLTURN allows us to produce a variety of complex parts, particularly for the aerospace and energy sectors," explains Ludovic Memain, an operator at SARO since 1999 and a WFL machine operator since 2010. Thanks to his skills and specialized training for this type of machine, he can leverage the full potential of this multifunction tool, which is essential for reducing machining phases.



Tangible Productivity Gains

What makes the M65 MILLTURN unique is its ability to perform all operations on a single machine. Whether turning, milling, or broaching, this multifunction machine eliminates risks associated with repositioning parts across multiple machines. A misalignment can lead to costly scrap, an issue the M65 MILLTURN nearly eliminates entirely.

"The parts we produce require a high level of precision, with tolerances down to a hundredth of a millimeter. This is only achievable thanks to the M65 MILLTURN configuration, which has remained unchanged since 2006," highlights David Toullet. Reducing machining phases and the machine's reliability ensure SARO a significant time-saving advantage in production, flexibility in managing prototypes and small series, and strict adherence to client specifications.

A Long-Term Profitable Investment

SARO's trust in WFL also stems from the M65's reliability. Despite intensive use, maintenance costs remain under control, thanks largely to a very responsive after-sales service. "We have excellent support from the after-sales service in France, which ensures the machine remains operational at all times," adds Mr. Toullet.

For Ludovic Gatelet, site manager's deputy, the machine is a real asset: "The appeal of the M65 MILLTURN lies in the possibilities it offers. Few people know about WFL, but for those who use it, it's an indispensable tool. We've improved our use of the machine over the years, and today, we can say we're maximizing its potential." Moreover, the absence of part repositioning further boosts SARO's productivity, avoiding precious time losses.

Exceptional Expertise for Complex Parts

With the ability to machine large parts up to 715 mm in diameter and 2.5 meters in length, the M65 MILLTURN stands out as a versatile machine.

SARO continues to meet its clients' stringent requirements while remaining competitive amid international pressures.

David Toullet concludes, "Today, we use the machine to its full potential. We produce increasingly complex parts, all on the same machine. This simplifies our work and ensures an impeccable level of quality. We have reviewed our approach to part design, allowing us to pursue new markets thanks to the machine's versatility."

SARO embodies a model of industrial efficiency through optimized organization and cutting-edge production means. By reducing the number of operations necessary for the production of complex parts with its WFL M65 multifunction milling-turning machine, the company not only guarantees controlled lead times but also lowers costs for its clients. This advantage becomes a competitive strength in an intense sector. This expertise, combined with rigorous technical mastery, makes SARO a preferred partner for demanding industries in search of both reliable and economically viable solutions.

»Today, we use the machine to its full potential. We produce increasingly complex parts, all on the same machine.«



LONG-STANDING

SARO has great confidence in WFL thanks to its reliability.



VISIT

Carole Decker (office France) at SARO for the success story.

Doing good things together for a better world

Since it was founded in 2008, TOOLS FOR LIFE has supported 94 projects, helped 167,925 people and raised 1,350,850 million euros in donations. In 2024 alone, 148,564 euros were donated – mainly for educational measures, followed by water projects and energy supply. Two projects are specially highlighted in the following article.



LESSONS
The 240 pupils at the pre-school and primary school are clearly happy in their new premises.

A total of ten education projects were financed in Germany, Senegal, India, Ethiopia and Uganda. These projects included, for example, career counselling for secondary school pupils, sponsorships for vocational school trainees, workshops on the Arduino board at vocational schools and co-financing the first school competition "Toilette macht Schule" – A school needs toilets!

Sustainable kindergarten in the Hai District

The project to build a kindergarten on the grounds of the Trinity Academy in Tanzania is an outstanding example of successful cooperation between the TOOLS FOR LIFE Foundation and local partners. From planning to realisation, great importance was attached to sustainability and the needs of the community.

The installation of a rainwater collection system and a drinking water tank ensures a reliable water supply, which makes an enormous contribution to improving the hygiene situation and the children's quality of life. The integration of a solar energy system allows sustainable operation and increases the school's independence from external energy sources.

Commitment to water and energy projects

A total of eight water projects were also supported in Senegal, Tanzania, Germany, South Africa, Uganda, Sierra Leone and Cameroon. In some projects, the TOOLS FOR LIFE Foundation financed the construction of wells and water tanks, some of them powered by solar pumps. Other projects included organising hygiene workshops and financing the installation of sanitary facilities for schools without a sewer connection.

The TOOLS FOR LIFE Foundation has also financed five energy projects in Haiti, Malawi, Kenya, Burkina Faso, Cameroon and Germany. These projects included the training of solar technicians, the installation of solar systems in remote villages, e.g. for

medical care, or the construction of solar storage systems for charging batteries.

Four climate protection projects were also carried out in Uganda, Tanzania and Germany. The reforestation of forests in Uganda and Germany was successfully undertaken, school gardens were planted and an irrigation system was installed.

The "plastic-eating fish" waste collection campaign

Recycling and the use of recycled plastic are crucial in the fight against the environmental impacts of plastic waste. Plastic waste threatens nature, endangers wildlife and causes long-term damage. Developing countries in particular often lack recycling infrastructures, leading to environmental damage and health risks. Our measures

include the use of "plastic-eating fish" in schools to motivate pupils to collect rubbish. The gathered plastic waste is collected by a company that pays the school for it. The collected plastic is used as a raw material to produce recyclate, which in turn is used to make irrigation hoses. Success is evident at the Ngollar secondary school: pupils actively collect rubbish, the proceeds from the sale benefit the school and the headteacher is planning to erect a football goal. The joint effort shows that local initiatives and committed companies can work together to reduce the amount of plastic waste and support sustainable solutions.

Of course, our commitment to people, society and the environment will continue throughout this year. We will publish another update, not only in our WFL Newsroom, but also in the next Complete 02/2025.

HELPING TO CONNECT

TOOLS FOR LIFE donation account
Bank: HypoVereinsbank UniCredit Bank AG
IBAN: DE35 5032 0191 0032 0671 58
SWIFT: HYVEDEMM430



Scan for more information about the Tools for Life Foundation



PLANT
Some 2,800 seedlings were successfully planted in Tanzania's Lushoto district: a significant step for environmental protection.

The WFL environmental management system

Taking the right steps into the future

Sustainability and environmental protection are key issues that play an increasingly important role in modern enterprise management. As an innovative company in the machine tool industry, we adopt a responsible and future-oriented approach. For us, environmental management is not only a commitment to our environment, but also an essential part of our corporate culture and our customer relationships.

The environmental objectives that WFL has set itself in line with ISO 14001:2015 are specific, measurable targets that our organisation has defined in order to improve environmental performance and fulfil our obligations within the framework of the environmental management system. These are an integral part of the continuous improvement process. Our commitment to the environment is reflected in numerous concrete measures that we have successfully implemented in recent years and will continue to carry out.

Measures & targets:

- Reducing energy consumption
- Reducing CO₂ emissions
- Waste avoidance and reduction
- Increasing the recycling rate
- Reducing the use of hazardous substances
- Improving environmental awareness
- Promoting environmentally friendly products and services

Energy-saving alternatives exist in almost all areas of the company. In line with the principle of sustainability, WFL has already launched numerous initiatives in this regard – modernisation of the compressed air system, heating control, installation of a PV system (with a total system output of 601kWp), thermal refurbishment of the building envelopes, a comprehensive switch to LED lighting, to name just the most important ones.

In addition to the points mentioned above, e-charging stations have been installed on company premises, which are also available to our customers and suppliers as well as our employees.

Besides infrastructural measures, the issue of sustainability is an increasingly important aspect for our customers, which is why more and more options are being developed with the MILLTURN's own myWFL features to identify energy-saving potential (in the machining process) and thereby save costs.

myWFL Cockpit

... is an operational data acquisition tool and provides information about a wide range of machine states. Productivity, availability and progress can be visualised on the control system or on a PC to enable operators to react well in advance.



CARS

The sustainability concept is also reflected in the e-charging stations on the company premises.

»Besides infrastructural measures, the issue of sustainability is an increasingly important aspect for our customers.«

myWFL Energy

... is a multifunctional energy consumption measuring device for the power supply of the machine as a whole. Current data as well as consumption history and electrical characteristic values such as voltage, current, apparent, active and reactive power, etc. can be displayed. This provides a detailed insight to counteract higher consumption in the machining process.

myWFL ConditionMonitoring

... is a data viewer that includes a cycle for moving in the working area of the machine when idling with the NC axes of the machining slides, as well as speed profiles of the main and milling spindles. During the process, axis and spindle-specific data is continuously recorded and saved. The ConditionMonitoring Viewer can be used to select and visually compare the data of the runs on the control system and thus identify any increased friction values.

myWFL Health Check

... focuses on safety and reliability, making the overall geometric condition of a MILLTURN visible and greatly increasing efficiency. This program ensures optimum performance by checking the machine geometry. It maximises accuracy and productivity for the manufacturing processes and avoids rejects.

iControl

WFL iControl also protects the MILLTURN and helps to save energy, even during autonomous production throughout the

night. Depending on the machine's equipment, up to 16 freely configurable process signals are continuously monitored. The new design contains more complex and more intelligent monitoring options, offering comprehensive safety during production. Multi-stage monitoring logics are used, which respond if the collision limit or adaptive process limit is exceeded, or if there are significant, rapid changes in force. WFL iControl allows users to develop a feel for the technological potential of the machine and tool. As a result, maximum safety and protection are guaranteed for the machine, tool and workpiece.

GREENSIDE

Alongside myWFL, Greenside Technologies reinforces the green mindset at WFL. To conserve resources while operating efficiently, this program is based on three main pillars.

- Resource-optimised construction
- Efficient operation over the entire lifespan
- Stability and durability

Greenside Technologies focuses on saving energy by means of a dual strategy, in the form of concept-driven savings and savings through machine technology. Up to 65% of conventional energy is saved during downtimes.

Our environmental management strategy has not only helped us to reduce our environmental footprint, it has also made us a role model in the industry. We pride ourselves on finding sustainable solutions that combine economic efficiency and environmental responsibility. We will consistently pursue this course in the future and work with our customers and employees to help create a more sustainable world. Because every step counts – and we take each one with conviction.



PROOF
Certificate for the management system
according to EN ISO 14001:2025



REDUCING ENERGY CONSUMPTION

- In-house power generation
- Thermal refurbishment of company premises
- Various internal energy-saving measures (LED lighting, compressed air leak detection, etc.)

REDUCING CO₂ EMISSIONS

- EV charging stations installed on site
- Electricity and thermal energy from green suppliers
- Millturn life cycle extended through retrofitting

WASTE AVOIDANCE AND REDUCTION

- Reduction of the overall volume of waste (reuse of packaging materials, etc.)
- Digital (paperless) processes
- Sensitisation/training of employees
- Implementation of a waste management concept

INCREASING THE RECYCLING RATE

- Consistent waste separation
- Selection of recyclable materials in procurement

REDUCING THE USE OF HAZARDOUS SUBSTANCES

- Substitution of hazardous substances with more environmentally friendly alternatives
- Optimisation of storage and handling processes
- Avoidance of critical operating materials by considering environmentally critical aspects in the product development process

IMPROVING ENVIRONMENTAL AWARENESS

- Briefings by the safety officer
- Provision of information materials
- Involvement of employees by means of the F.A.S.T. improvement card

PROMOTING ENVIRONMENTALLY FRIENDLY PRODUCTS AND SERVICES

- Optimisation of machining processes
- Use of energy-efficient components/technologies
- Marketing and communicating the environmental benefits to customers
- Environmentally relevant software solutions for MILLTURNS: MY-WFL product family (Greenside mode, condition monitoring, myEnergy, etc.)

Our environmental management strategy has not only helped us to reduce our environmental footprint, it has also made us a role model in the industry.



We can't wait:

WFL is looking forward to an exciting year of trade fairs in 2025

For the upcoming trade fair year of 2025, WFL is planning a series of highlights to inspire the industry. Two of the top events will be CIMT in Beijing and EMO in Hanover. Trade fairs have always played a key role for WFL, as they are an excellent opportunity to share ideas with customers and other interested parties. Hence, we are very much looking forward to being represented at various trade fairs around the world in 2025.

WFL was already present at the Indian trade fair IMTEX in January. This trade fair is regarded as one of the leading events for machine tools and manufacturing technology

and attracts machine tool builders from all over the world. March will see us continuing our trade fair activities at Intec in Leipzig and Global Industrie in Lyon. Both fairs are unmissable industry events where the highest levels of expertise, innovation and networking can be found.

A special highlight will be the CIMT in Beijing which will take place from 21 to 26 April 2025 at the China International Exhibition Center, where we will be showcasing the M30-G MILLTURN live on our stand. This will be followed in September by the EMO in Hanover, where we will be exhibiting two MILLTURNS, including the M20 with storage tower.

WFL will also be presenting various topics in China relating to MILLTURN complete machining centres and our innovative software solutions. These include products such as WFL iControl, scanning technologies and the myWFL operational data acquisition system. The highlight of the fair will be the presentation of the M30 MILLTURN and some exciting machining demonstrations.

We are already looking forward to having lots of stimulating conversations with customers and other interested parties at the 2025 trade fairs. Planning for this year's trade fairs is already in full swing.



Plans for this year's trade fairs are already well advanced.

TRADE FAIRS WITH MACHINES

CIMT Beijing
21 to 26 April 2025

EMO Hannover
22 to 26 September 2025

TRADE FAIRS WITH INFORMATION BOOTHS

IMTEX Bangalore, India
23 January to 29 January 2025

SEPEM, Douai, France
28 January to 30 January 2025

MECSPE, Bologna, Italy
5 March to 7 March 2025

Industrie, Lyon, France
11 March to 14 March 2025

Intec Leipzig
11 March to 14 March 2025

Aeromart, Montreal, Canada
25 March to 27 March 2025

Machingeering, Brussels
26 March to 28 March 2025

EXPOMAFE, São Paulo, Brazil
6 May to 10 May 2025

DIBCON, Oklahoma City
3 June to 5 June 2025

SIAE, Le Bourget, France
16 June to 22 June 2025

Aerospace Meeting Casablanca
30 September to 2 October 2025

MSV Brno, Czech Republic
7 October to 10 October 2025

K Düsseldorf, Germany
8 October to 15 October 2025

Siane, Toulouse
14 October to 16 October 2025

Motion and Power, Detroit
21 October to 23 October 2025

Engimach, India
3 December to 7 December 2025

**M50-G
MILLTURN**

"YOUR IDEAS. OUR MACHINE."

CLAMP ONCE - MACHINE COMPLETE

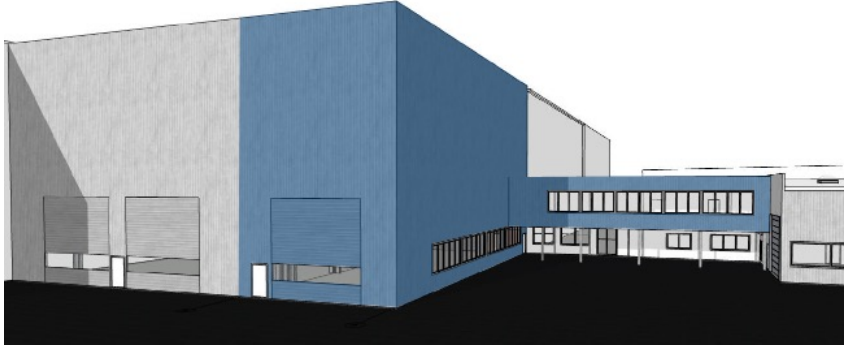


Everything from a single source

To ensure even more efficient and faster collaboration and to enhance our profile as a turnkey provider, FRAI Elektromaschinenbau GmbH was merged into WFL Millturn Technologies GmbH & Co. KG in October 2024. WFL's customers benefit from this integration. Not only do they gain access to a wider range of solutions, they also benefit from a more seamless integration of machines and automation. Strengthened by the merger, the WFL Automation Technologies division will continue to offer solutions for the automation of a wide range of machine tools and processes. In short, they have one point of contact for all their needs. Automation solutions were and are a key aspect when purchasing MILLTURN turning-boring-milling centres. "The integration is a decisive step on our journey to becoming a comprehensive turnkey provider and sends a strong signal that we are continuing to build on our position as a technology leader. This merger is an important part of our strategy and demonstrates WFL's commitment to driving innovation and offering its customers the best solution every time," according to the Management Board.



from the left: COO Franz Schön, CEO Norbert Jungreithmayr, VP Franz Plasonig, CTO Günther Mayr and CFO Stefan Hackl



Expansion at the Linz site

WFL is getting a third dispatch hall measuring approximately 300m2 and an adjoining office extension at the Linz site. In addition, the colleagues responsible for warehousing and dispatch will have a new office space – in the perfect location, between System Logistics and Outbound Logistics. Starting this building work is an im-

portant milestone in our effort to work even more efficiently in future. The hall will fit perfectly into the existing building structure in terms of the overall appearance. Once work has been completed, two additional 40-tonne cranes will be available in the new dispatch hall for loading MILLTURNS.

Our apprentices pose for the camera

A new apprenticeship campaign has been running with the goal of continuing to attract young skilled workers to our company. Several of our apprentices posed for the camera at various locations throughout the company. We are always looking for committed and motivated employees who share our passion for technology and innovation, and we want our new apprenticeship campaign to reflect that passion. We have chosen the core message „Change the Game“ for the apprenticeship campaign with the aim of putting technology front and centre as well as focusing on empowerment and the ability to make decisions. The campaign is aimed at young people who bring their own personality and team spirit to the table and value a high degree of freedom. But it's also about promoting what a person is really good



Facts and figures

What you always wanted to know about WFL

550 employees worldwide

9 locations

95 % export ratio

70 employees worldwide in Customer Services

20.000 spare parts in stock

WFL's warehouse lift solution

Working efficiently

Some time ago, WFL decided to implement six SSI LOGIMAT warehouse lifts with direct SAP integration in order to improve picking performance and create extra space in the warehouse. Switching to an automated small parts warehouse made it possible to optimise ergonomics, save 110 m² of warehouse space and increase picking performance by up to 50%. The SSI Schaefer solution meets WFL's need for an efficient and SAP-integrated warehouse management system.



The SSI Logimat in the WFL warehouse focuses on increasing efficiency and gaining space in the foreground.

Successful start

After the first trade fair in 2025, the IMTEX in Bangalore, a very successful conclusion can be drawn. IMTEX is one of the most important trade fairs in Asia with the presence of leading national and international manufacturing companies. As an exclusive business-to-business event, it is the perfect opportunity for WFL to present the latest technological highlights and MILLTURN innovations.



»» QUESTIONS I COMMENTS I IDEAS?

You have questions regarding our products, technologies or machining? We are looking forward to your mail at office@wfl.at

»» FACTS COMPLETE

Our customer magazine „COMPLETE“ is available in German and English. Additionally a download link can be found on our homepage.



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