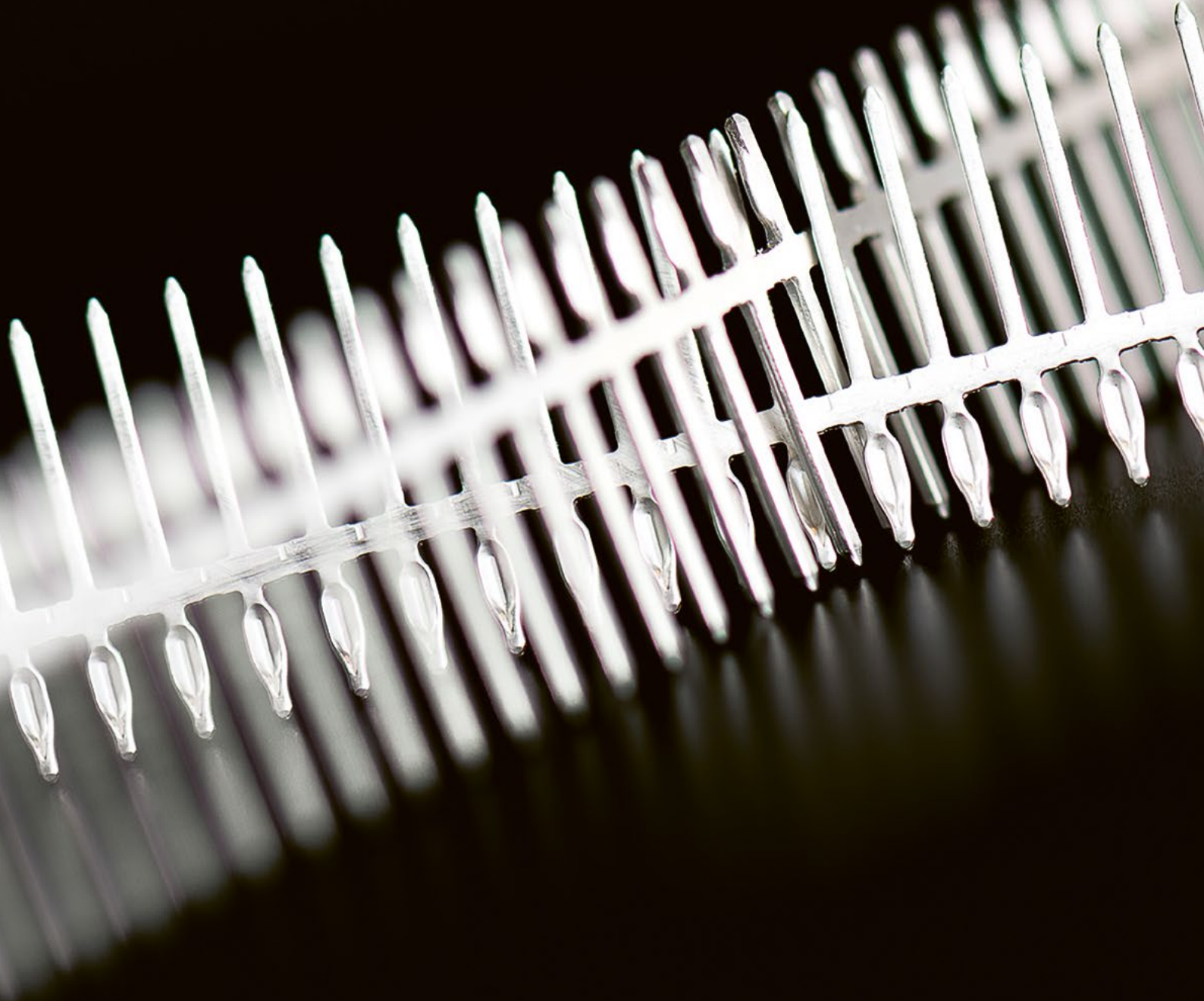


BRUDERER+

PRECISION – SWISS MADE

The magazine for high-performance stamping technology / 2023

STAMPER



TRADE FAIR
BRUDERER at Blechexpo.

TASTY
Cooking with BRUDERER.

TEAMWORK
Lear Corporation Bersenbrück.

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PRECISION – SWISS MADE

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BRUDERER stamping presses are renowned for their reliability. But if something does come up, there is always one of our 26 locations, representatives or competence centres close at hand. www.bruderer.com



Reto Bruderer, Managing Director

PREMIERE

Welcome to the latest edition of our STAMPER magazine.

As STAMPER readers, you currently have the best seat in the house when it comes to experiencing our latest premiere. It is a world first, in that we have designed a whole new model of machine that – for the first time in the history of BRUDERER – is not part of the BSTA product range.

This decision was obviously one that we did not come to lightly. The quality of our machinery has always been our highest priority, and with it, the production reliability that it provides for our customers. Nevertheless, we are constantly striving to react to the evolving needs of our customers and to offer them exactly what they require.

At the Blechexpo in Stuttgart, you will be able to see the results of this approach, and we will be delighted to present the latest BSTL 350-88 stamping press at the event. Of course, we very much look forward to getting your feedback.

Another incredible innovation is the BSTA 710-220, BRUDERER's new stamping press with the largest bed length to date in its tonnage – this will also be unveiled at the Blechexpo.

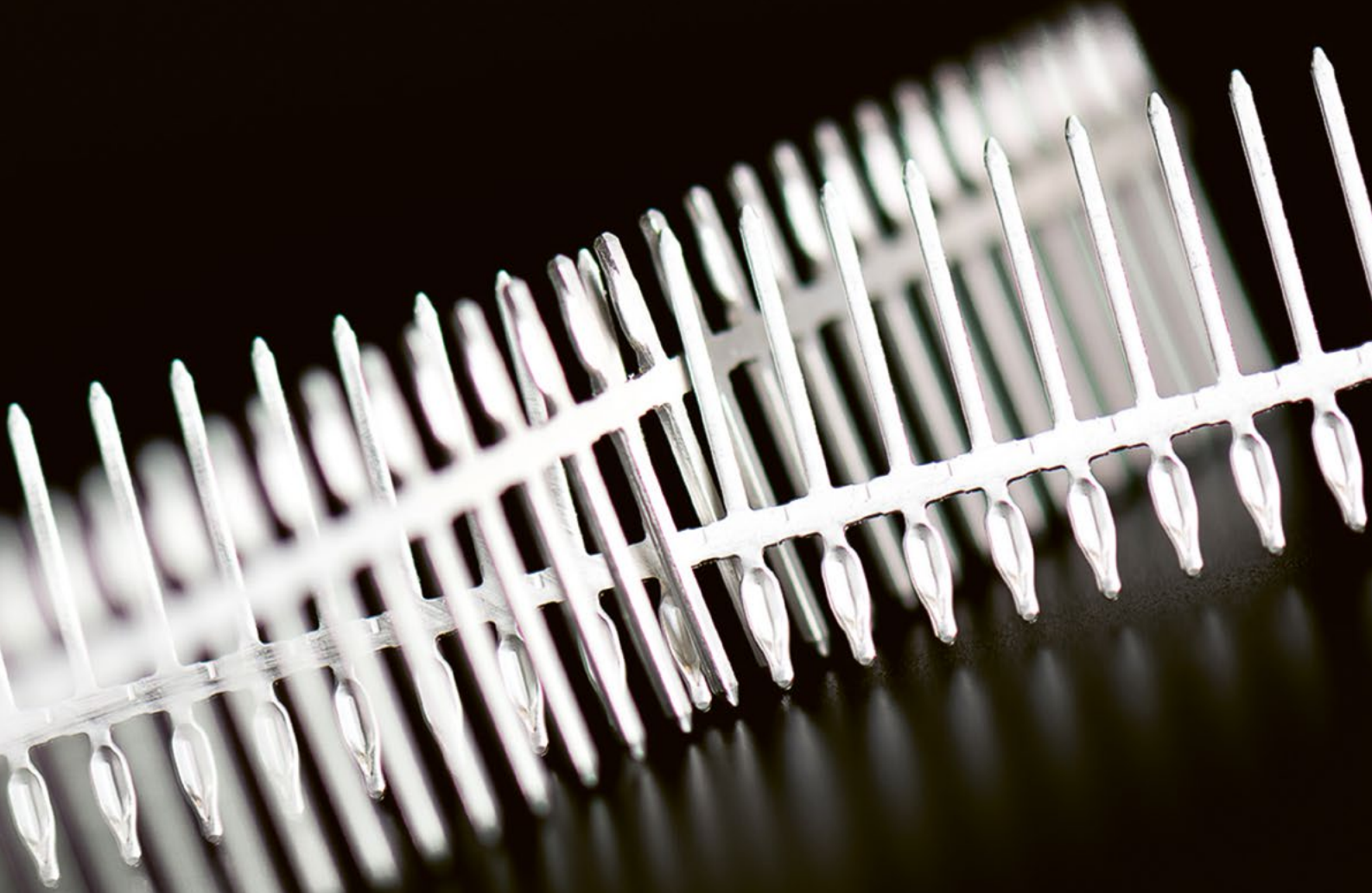
The current edition of STAMPER magazine of course includes other interesting reports from users, special innovations and portraits of unique employees, and I would like to take this opportunity to express my thanks to everyone who works for the company for their commitment, their curiosity and their enthusiasm for maintaining the energy and innovation levels of a third-generation family business where I now have the honour of being at the helm.

Happy reading, kind regards,

Reto Bruderer

Don't miss any news.
Subscribe to the BRUDERER newsletter here.





**LEAR BERSENBRÜCK /
BEST INNOVATION
AWARD E-SYSTEMS IN
HIGH-SPEED STAMPING**

The Lear Corporation is a global leader that has specialised in the design, development and production of automotive components. Its centre of competency for tool-manufacturing and stamping technology is located in Germany, in the town of Bersenbrück in Lower Saxony.

One look at some of the figures shows what an impressive outfit Lear is. They have 168,700 employees in 253 establishments across 37 countries, and a history dating back over a century. The company was founded in 1917 in Detroit, Michigan and has gone from strength to strength since then.

Lear is a leading partner of many of the main manufacturers in the automotive sector, working in close collaboration with its customers to develop innovative solutions for vehicle cabins, seats and electronic parts. Among its most important clients are brands such as BMW, Daimler, Ford, General Motors, Volkswagen, Stellantis, Honda and Toyota.

Providing safety and comfort

Lear has specialised in the development and production of automotive components which provide more comfort and safety for vehicle occupants. This includes features such as seats with massage function and automatic air conditioning adjustment as well as infotainment systems that provide seamless integration with smartphones. Lear's flair for innovation and focus on optimum quality has seen them earn an outstanding reputation in the automotive sector. To maintain this positive image and continue to develop, the company holds a competition every year to recognise the 'Champions of Lear' from within the organisation, crowning the best of the best from across 17 sectors. In 2022, Bersenbrück took home the Best Innovation Award E-System.

Perfect teamwork

A team led by Frank Hermes, manager toolshop at Lear in Bersenbrück, won the award in the face of stiff competition from no fewer than 460 other submissions. "We're proud of our performance," said plant manager Gerd Siesenis. "It was perfect teamwork – otherwise we wouldn't have achieved what we did."

During a visit to Bersenbrück, Global Vice-President Connection System and Electrical Distribution Systems Enrique Orta brought up the subject of stroke rates, and this provided an excellent opportunity to delve deeper into this particular subject.

Siesenis and Hermes then steered the subject onto "what is stopping us from using machines at their maximum stroke speeds?" Hermes and the rest of his department then rose to the challenge of taking high-performance stamping to the next level.

"It was perfect teamwork – otherwise we wouldn't have achieved what we did."

"Lear Bersenbrück currently uses no fewer than 74 stamping presses, with over 90% coming from BRUDERER and capable of operating at up to 2,300 strokes per minute. To date however, we have only gone up to 1,500 strokes, for a variety of reasons, and maximum performance has yet to be tapped into. It's the equivalent of driving with the hand-brake on. Up until now, we haven't had the right tools or peripheral devices. So we sat down with the construction staff and formulated the task of serial production of a press-fit pin at maximum stroke rate on a BRUDERER machine."





(f.l.) Jörg Jürling, Stephan Albers, Wilhelm Scholl, Reiner Smolka, Gerd Siesenis, Frank Hermes.

Next generation tools

After some initial scepticism, a number of tests led the team to the realisation that it would indeed be possible to achieve this aim. "This obviously spurred us on to dig deeper into the subject," Siesenis continued.

"After we had adjusted the cutting geometries and the tooling, we were convinced that it could work. And furthermore, we were dealing with a two-cavity die with an output of 4,600 parts per minute," Hermes added.

Lear in Bersenbrück thus managed to stamp their own complex parts with cutting geometries including embossing at these speeds, in series production around the clock.



"It was an enormous achievement by the entire squad, involving the teams from construction, tool-manufacturing and production. Everyone brought their expertise and gave it their all," said Siesenis, with the result being a well-deserved award heading to Bersenbrück, about which "everyone was obviously absolutely delighted."

Stamping hub for the north of Germany

Without around 500 employees, Bersenbrück is one of the main locations for Lear in Germany's Electrical Division (E-Systems). The production of plug connector systems and electricity distributors and security systems – primarily for the automotive industry – is one of the main competencies of the location in the north of Germany. Lear Bersenbrück has its own tool-manufacturing department. "Stamping tools are produced by us on-site for company use around the world," Siesenis explained. "We get a lot of external requests for tool-manufacturing, and safeguarding our expertise is a real priority for us."

Looking for fresh talent

With some 100 employees, the tool-manufacturing department at Lear has a wide variety of skill-sets, which should come as no surprise, with the electro-mobility sector throwing up new challenges, in particular for the automotive industry when it comes to plug connectors. "There is currently

real demand for high-power connectors, which is driving enormous growth in the volume of large-scale stamping production. We are stamping and plastic-injection moulding and making these parts here in our works,” Siesenis added. With increased demands comes a greater need for expert knowledge, and as such, Lear Bersenbrück – like many similar companies – is struggling to attract and retain talent. “We’ve got some great people here but obviously we could always use a few more,” said Hermes.

“We get a lot of external requests for tool-manufacturing, and safeguarding our expertise is a real priority for us.”

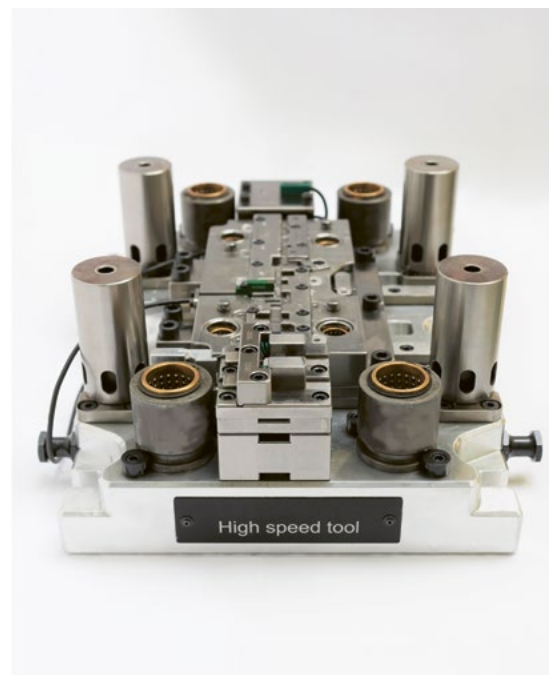
Jobs with real variety and potential

22 trainees are employed at Lear’s Bersenbrück location in 2023, learning the trades of toolmaker, industrial electrician, IT systems specialist and industrial clerk. If and when they obtain the qualifications that they are aiming for, the young trainees can count on a secure job in the Lear team, where diversity is also the order of the day. In 2021, a youngster who did her training as a toolmaker with Lear in Bersenbrück was chosen as the best apprentice in the country in her trade.

“We love welcoming new young talent,” said Siesenis. “We can offer them an attractive location with wonderful opportunities and a great team to work with.” The plant manager is speaking from experience, having started at the company as an apprentice and now having 41 years of experience in Bersenbrück. “For young employees at a company like Lear, the world is their oyster. Teamwork is always a main focus, regardless of which location they are at. It is a company strategy that produces new champions every year – as we’ve proved in Bersenbrück.”



More below
www.lear.com



WIEGEL REINVENTS ITSELF



There's solid growth and then there's transformation. Wiegel Tool Works announced the company's name change to Wiegel and their evolution from a tool and die shop and contract stamper to a world-class manufacturing solutions partner, based on an aggressive approach to surpassing customer design and production challenges. They publicly announced and launched their new brand identity with the following message, "Amidst some deep, behind-the-scenes brand building, we've realized the born tool and die company and experienced metal stamper you know as Wiegel Tool Works has evolved into much more than that. Thanks to new incredible business opportunities that have allowed us to venture into new manufacturing capabilities, we've now added comprehensive product design, product development, and fully-automated product manufacturing and assembly to our service portfolio... For most of you who have known and followed us from the beginning, we've had the same name and brand identity with only a few minor changes over more than 81 years. It took time and heavy consideration to come to the decision of rebranding our company's long-time and recognizable image, but we are so grateful we did. This was the best decision for the future of our brand and to best serve our target markets."

In response to that statement, their new business model and approach to this next level of manufacturing works. "We've realized 40% growth year-over-year for the past two years and I expect as much this year," reports Aaron Wiegel, President and CEO. Established on Dec. 6, 1941 by Wiegel's grandfather Otto, the business grew from various locations in Chicago and Franklin Park, Illinois, to its current plant and headquarters in Wood Dale, Illinois, a stamping facility in Bensenville, IL and a facility in Elk Grove Village, IL.

"After 81 years with the same brand identity, it was time to re-design the long-standing image and logo with its great recognition value."



Visions become Solutions Manufactured.

New Identity Leads to More Opportunity

For decades, the Wiegel Tool Works name was synonymous with building jigs, fixtures, and dies for stamping companies. "Early on in my father's time as second-generation ownership, he wanted to shift and grow the focus from tool and die to contract stamping with tooling support" relates Ryan Wiegel, Aaron's brother, Co-Owner and Vice President of Operations. "He recognized this would require higher-precision results, and one of the names that kept coming up was BRUDERER, especially for high-speed press applications."

Over time, the company has grown to support multi-million-piece orders of such precision-stamped components as reel-to-reel terminals and electrical connectors, lead frames, high-current battery busbars, and other electric and non-electric components.

A recent project proved instrumental in changing the company's focus and approach. The challenge on this particular program, Ryan relates, was that it required a high-precision part for a high-voltage application in energy sustainability, but it wasn't just a stamping program. This program was a highly involved component production that required new equipment and capability that Wiegel had not yet offered. There were significant value-added applications required such as material straightening processes, specialized in-line washing, in-line quality monitoring with vision systems, stacking and layering processes, specialized component cutting processes and unique customized robotic packaging, along with an extremely stringent cleanliness spec. The only way the company was able to envision producing the part under these conditions was to fully automate the entire system. This didn't simply mean adding robots, "it had to be a fully in-line manufacturing system from stamping to feeding to packaging and presenting to the customer a complete packaged product solution," he says.

"Why BRUDERER was so involved with this was because it was not a standard case of pick out a press



Shield and connector plug.

“The volume went through the roof.”

line and go,” Ryan continues. “This was a custom-engineered production process we co-engineered and co-developed with them to make a manufactured part that achieved the needs of our customer. Our ideal equipment line for this production was designed and developed based on other applications we saw out in the market that we realized if we could adjust and modify certain aspects, we could accomplish this very unique manufactured part and its process.”

Outside Our Scope

The customer of this special project initiated contact with Wiegel in early 2020. “When they approached us with the part specifications, we quickly realized it was outside of our traditional build a die, run it in the press, and start stamping parts type of job,” says Ryan Wiegel. “We brainstormed a variety of ways we could attack this project. We looked at our current BRUDERER applications at the time and knew we needed their input and expertise to co-develop our approach.” According to Ryan, this became a full-immersion partnership. “We teamed up, established the concept, reviewed it together, built the

system, and began troubleshooting. A lot of components were redesigned together with BRUDERER to make the system more robust and get it to where it is today.”

Actually, the stamping on this part is relatively vanilla, Ryan added. “But it’s the willingness to address the entire system and the customizations we had to make that made this part successful.”

New Equipment

While modifications and line customizations must remain confidential, Wiegel purchased and installed two new BRUDERER press lines in spring 2021. The BSTA presses (BSTA 200 and BSTA 510, respectively) feature the latest advantages BRUDERER provides out of its own decades of experience working with demanding stamping projects and customers:

- the ability to provide high speeds of up to thousands of press strokes per minute
- adjustable stroke heights and a mass balancing system to accommodate multiple applications
- thermoneutral ram guiding system with tilting point control at strip level for improved tool life and part quality
- the ability to maintain micro-tolerances at bottom-dead center (BDC) for superior process stability
- sophisticated quality control including integrated measuring and process monitoring even at thousands of strokes per minute.

“To build this line, we built the tooling, and there were multiple progressive-die tools for this line,” Ryan continues. “BRUDERER supplied the equipment along with recommendations on how they would run it and the post-stamping operations. The volume was through the roof—each line was designed to produce over 100 million pieces per year—the packaging function was customized and completely automated as well.”

While the new lines went into production in late 2021, changes and adjustments have been consistent throughout their operation. “There’s been a lot of part changes from the customer with new revisions on the print requiring changes on our part after a year of prototyping the original,” Ryan explains.

This has made press line training a significant challenge, even to a veteran high-speed stamping company like Wiegel. “We’re obviously well-versed on the press equipment itself, no issues at all,” Ryan notes. “But there were significant customizations to the line



(f.l.) Ryan Wiegel und Aaron Wiegel in front of the new stamping line with a BSTA 510.

as a result of new part iterations, all needing to be integrated with third-party automation technology to maintain adherence to the cleanliness spec. A lot of the time, we were training operators on a function we ended up redesigning. There's been a lot of ongoing press line R&D between startup and today."

Transformation

Continuing to meet stringent customer demands on a consistently evolving part has proved transformative for Wiegel. "This gave us the confidence to take on more challenging work and being a solutions partner with our customers and not just putting a die into a press and start running parts," says Ryan. Wiegel Vice President of Sales Mark Lakis adds "There are a lot of other companies out there that will sell you presses, but that's all they do. They don't bring the value-added engineering and the co-op design to make it work, like BRUDERER did."

As a result, after 80+ years in business, the company announced its name change from Wiegel Tool Works to Wiegel, along with a new logo and tagline: Solutions Manufactured. "As a manufacturer who once only manufactured to customer prints, we are ecstatic to now offer our customers the value of design, development and complete manufacturing of product assemblies entirely in-house using our customized manufacturing equipment, processes and assembly-line robotics," the company proclaims on its website. "Additionally, we've added battery technology components such as anode and cathode collectors, current collector assemblies, battery

cell components, battery packs and battery module components to our product portfolio and have gained recognition as becoming the largest battery component supplier in Illinois.

We are very proud of the advancements we have adopted and the journey we have watched our brand move through over its 81-year history to become the leading manufacturer we are known as today. These brand developments are what has set the tone for the future of Wiegel and for the future of some of your favorite products. We are your problem solver, your taker of new industry challenges and where your product visions become **Solutions Manufactured**. We are **Wiegel**."

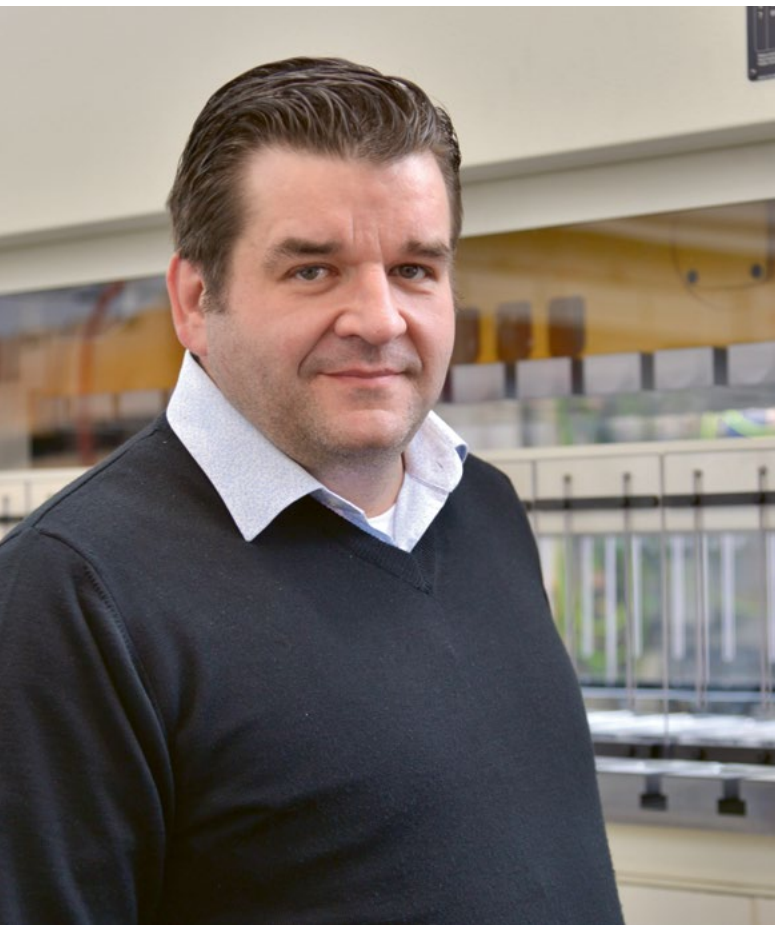


More below

www.wiegel.com

A STRONG TEAM

The little town of Detmold in the Teutoburg Forest is known for its various tourist attractions. It is also home to one of the leading specialists in electronics and electrical connection technology, with Weidmüller serving customers in almost every imaginable sector.



Falk Rohde, head of composite technology at Weidmüller.

The company was founded in 1850 by Carl August Weidmüller and soon developed into a global provider of solutions for electrical connection technology, automation and digitalisation. Weidmüller now has some 6,000 employees in over 80 countries and has built up a reputation for its innovative products and solutions that are implemented across a number of sectors, including the automotive and engineering industries, energy supply and building automation.

One-stop shop

The company has positioned itself as a full-range provider for its customers. "It's part of our philosophy," explains Falk Rohde, head of composite technology at Weidmüller. "We offer a complete service. Our customers can get almost everything from us that you can find in a control cabinet. We are reliable and convenient." The result is that Weidmüller has certain customers who have been buying the same products from them for their applications for the past 40 years, having come to rely on them over the decades. "Our customers really appreciate this all-inclusive strategy, and also the fact that the quality of our products always remains high," Rohde adds. "With our Workplace Solutions, we also offer a large portfolio for all stages of work at factories."

Innovation and sustainability

This holistic approach requires both a high vertical range of manufacture and surface technology including strip electroplating.



Qualified young talent is emerging from the in-house training academy, where stamping and forming engineers are trained as well as tool mechanics.



Weidmüller currently employs some 6,000 employees in over 80 countries.



Everything was checked in detail and found to be in order during the handover of the machines in Frasnacht, with the stamping press delivered shortly thereafter.

“We offer a complete service. Our customers can get almost everything from us that you can find in a control cabinet.”

Faced with all this complexity, Weidmüller has totally dedicated itself to innovation and sustainability. The company invests a significant proportion of its turnover every year into research and development, with the aim of finding innovative products and solutions which correspond to the demands of its customers.

As such, Weidmüller has become a pioneer in digitalisation and offers its customers solutions for the integration and automation of production processes. The company has developed its own platform for Industry 4.0, which enables customers to optimise and automate their production processes.

Sustainability is another priority for Weidmüller. The company is committed to the protection of the environment and has developed a long-term climate strategy that has been defined in an official sustainability report. It has also taken a number of measures including the implementation of renewable energies and the reduction of energy consumption at its production facilities.

Striving for perfection

Process optimisation is a subject that Weidmüller has also been prioritising within its own production processes. To eliminate disruptive factors as

much as is possible, the company has chosen to rely on BRUDERER high-performance stamping presses for a number of decades now for its stamping processes. “This has monumentally improved our quality assurance and our performance. Consistently focusing on one manufacturer, including for feeds, has given us an easy uplift of around 10% in the degree of use for some of our stamping processes,” Rohde continues. “The flexibility of BRUDERER’s concepts obviously plays a major role for us. The sheer variety of growing demands and the accompanying peripherals within the stamping process increased enormously in the past, including camera cells, in-line measurements, winding technology, welding equipment and plenty more besides. Maintaining quality and performance in the face of this increasing complexity requires sophisticated technology and the necessary expertise.” With this in mind, as well as regularly updating its machine park, Weidmüller has also been using retrofitted BRUDERER machines for some time now. “They certainly do not come up short in comparison with the latest high-performance stamping presses, and that’s what I call quality,” is Rohde’s opinion on the retrofits.

To achieve high levels of manufacturing precision, the company is also investing intensively in its

“Consistently focusing on one manufacturer, including for feeds, has given us an easy uplift of around 10% in the degree of use for some of our stamping processes.”

own stamping tool production. Qualified young talent is emerging from the company’s in-house academy, where stamping and forming engineers are trained as well as tool mechanics.

Teamwork as a success factor

The ongoing focus on training and the optimising of existing processes shows how Weidmüller sees itself as a technology-driver in its sector, not least to keep pace with mounting pressures and the ever more complex demands of the international market. In this context, Rohde sees the first-class manufacturing technology and intensive cooperation between the individual departments as central success factors for Weidmüller. In light of this, the company took the opportunity presented by the purchase and handover of a new BRUDERER high-performance stamping press in Frasnacht to organise a training day for all departments involved. “In our company, it’s not about individual

results – what counts is what the whole team achieves,” Rohde explains, “and this community spirit is what has driven us so far. We all get on as a team, and that is where all of our success has come from.” What a perfect summary.



More below

www.weidmueller.com



The machine park is constantly being optimised, including new stamping presses and retrofit solutions courtesy of BRUDERER.

TECHNOLOGY BUFF COOKS UP A STORM



For some three years now, Dirk Heimes has been the face of BRUDERER in northern Germany. Based in Lennestadt, in North-Rhine Westphalia, his sales area ranges from the Westerwald mountains on the Rhine up to the North Sea. We had heard of his formidable reputation as a cook and thus decided to pay him a visit to discover the secret of his success.

The Thermomix makes light work of chopping the bright red pepper into fine pieces. Dirk Heimes, an experienced toolmaker and stamping press expert, is in his element. In his spare time, he gladly swaps his suit for an apron and takes on the cooking duties at home. He is a keen chef and always on the look-out for the latest in kitchen technology, such as the new generation of Thermomixes made by Vorwerk.

A love of technology – at work and at home

“The Thermomix caught my attention right from the word go,” says Dirk. “Back when the kids were still very young, we prepared all of their baby food in the blink of an eye with the first generation of Thermomix.” Dirk also has a passion for tools and technology, which quickly becomes apparent when you step inside his workshop and take a look at all of the machinery, some of which is being used to make a scaled-down VW T1 as a toy for his children.



Thermomix representative Tanja Winterhoff and BRUDERER sales representative Dirk Heimes combining their love of technology and fine food.

“The Thermomix caught my attention right from the word go.”

After training as a toolmaker, he began his career in the Sauerland region not far from his current home in the beautiful village of Lennetal. After finishing vocational school, he worked as head toolmaker, factory manager, project manager and finally sales representative for large and medium-sized companies. Since June 2020, Dirk has been BRUDERER’s sales representative for all of northern Germany, and customers all around the area have come to appreciate his experience in tooling, production and employee management.



Attention to detail in the scale model of the VW T1.



Something to whet men’s appetites ...

Specialists in the region

“All of my customers are seen as specialists in their own sectors, and that means that they are often asked to provide special solutions in terms of machinery. Whether we are talking about combinations of different feed systems integrating multiple servo-axes or customer-specific custom-made attachments with special interfaces – virtually nothing comes straight off the peg. The same applies to a customer like Vorwerk,” says Dirk of the long-established company in Wuppertal which is also one of his customers. All of the rotors and stators for the electric motors of the Thermomix and other products are produced in Vorwerk’s electric motor works in Wuppertal. It features a number of high-performance stamping presses with press forces of up to 80 tonnes operating in shifts. “Vorwerk asked for an all-in-one solution from us with fully equipped lines, including a Kohler strip-feeder, special equipment such as



A tasty fruit sorbet that is so easy to make!



With the Cookidoo app, the Thermomix has all kinds of recipes at the ready.

Siegfried stacking control devices, noise protection cabins and more besides.”

Along with the motor, the components made on the BRUDERER presses are the heart of the Thermomix, a versatile device whose inventor – like BRUDERER – also comes from Switzerland. It was towards the end of the 1960s that Hansjörg Gerber developed the first heatable Thermomix for Vorwerk France. Its originally intended name was Soup Boy since it was the perfect appliance for making nourishing home-made soups.

Technology to make cooking more enjoyable

Having such close ties with Vorwerk as a customer made Dirk keen to upgrade the technology in his own kitchen. Since the early days of the Thermomix,

the leading manufacturer of household and kitchen appliances has certainly not rested on its laurels, with the all-in-one kitchen device establishing itself as essential for cooking and baking and enjoying enormous popularity around the world. Anyone who has enjoyed the advantages of this jack-of-all-trades at first hand will certainly not be able to imagine ever doing without it again – as well as mixing, blending and pureeing, it can cook, steam, weigh, knead, grate and much more. It means that the Thermomix saves not only space in the kitchen but also time and effort when cooking. Entire meals – starters, main courses and desserts – can be prepared using just one device. Special dietary needs such as vegetarian and gluten-free dishes can also be made just as easily.

“Along with the motor, the components made on the BRUDERER presses are the heart of the Thermomix, a versatile device whose inventor – like BRUDERER – also comes from Switzerland.”

Direct sales with digital support

As well as using the best materials and striving for the utmost in quality, with BRUDERER of course playing its part, the success of Vorwerk’s products can also be attributed to a unique mix of direct sales and digital marketing. As such, the Thermomix is not sold in stores but exclusively via a direct distribution network. The device’s high levels of reliability are also down to the service side of the business. For years now, Vorwerk has

been providing customers with a constant supply of all necessary replacement parts – a strategy which the company shares with BRUDERER, with the high-performance stamping press specialist guaranteeing customers a steady stream of replacement parts, and more, for over a quarter of a century.

Vorwerk's sales staff always take the time for their customers and also offer cooking courses and recipes for home chefs to get to know the functionalities and potential of the Thermomix a little better. Recently, Dirk got in touch with Tanja Winterhof, the Thermomix representative in the area, who then arranged to drop by his kitchen with the latest model – the Thermomix TM-6. As well as bringing the device, Tanja also provided all sorts of handy tips and of course ideas for recipes.

The latest generation of appliance

"The latest generation of Thermomix contains a number of improvements and new functions compared with its predecessors," Tanja explains. "For example, the TM6 has a larger display as well as having the Cookidoo recipe app already integrated. The Thermomix TM6 also has built-in scales and lets you weigh directly in the mixing bowl rather than having to go through the tiresome measuring process for ingredients beforehand. It has more comfortable WLAN connectivity, which enables the Thermomix to be updated online with new recipes and cooking programmes. The TM6



The Vorwerk Thermomix combines durability with the ultimate in functionality.



Motor components produced to top-quality standards using a BRUDERER high-performance stamping press.

also has a new sous-vide function to cook food delicately in a vacuum pack and a browning mode for meat and vegetables. Then there is the Cookidoo app, where you can choose from over 90,000 international recipes, so there's something for everyone in there. I don't think that there's a quicker, easier and more versatile kitchen device on the market."

Two talented chefs, one device

In minutes, the two of them were preparing barbecue sauces, steaming vegetables and whipping up delicious salads. After that, all they had to do was fire up the barbecue out on the terrace, with tender spare-ribs, steaks and kebabs ready to be browned to perfection all over. The piece de resistance was the frozen fruit which, with a little added sugar and cream, was transformed in the Thermomix into a beautifully smooth fruits of the forest sorbet. Everyone was amazed at what Vorwerk, the Thermomix and of course Dirk and Tanja's talents had managed to create. Here's hoping for another invitation sooner rather than later ...



EDEN INVESTS IN NEW BRUDERER HIGH-PRECISION PRESS TO ADVANCE INNOVATION AND SUSTAINABILITY

Taking advantage of new export opportunities has seen the Middlesex manufacturer invest in a new high-speed precision stamping press line.

Eden Limited, a specialist in optical air-blown fibre and cable fittings for the telecommunications industry worldwide, renewed a 35-year working relationship with BRUDERER UK by placing the order for the BSTA 180-36B press with the latest high speed precision servo feeder.

This latest addition is being utilised to drive innovation of new product ranges and supply the existing telecoms contracts to help ensure sustainability and development of the legacy network in the UK and abroad.

This machine already delivers greater accuracies with BRUDERER's latest quick lift-ram technology that automatically adjusts the ram's bottom dead centre position while under operation, meaning the business can guarantee process stability and part quality to their customers regardless of required volumes.

"A pre-owned BSTA 30 was one of the first machines I bought when I started the business back in 1993," explained Dave Hawkins, Chairman of Eden.

"It has given us tremendous service and reliability, so when we were looking to advance our press

shop technology to make parts 10x quicker, so we are able to compete with Far East made products, there was only one investment I was going to make and the new BRUDERER press is going to be fantastic for us." Dave Hawkins continued: "We have built our reputation on innovative products that have become and continue to be the go-to industry standards for over 20 years and as such are frequently copied worldwide so investments like the BRUDERER press ensure we keep ahead of our competition and are paving the road forward"

"We have seen since lockdown demand increase significantly as we are one of the very few companies worldwide that control all elements of the manufacture in house giving us a unique position in the market to supply when others could not, so much so we have invested significantly over the last 18 months which culminated in the acquisition of the high-speed precision press from BRUDERER."

The BRUDERER UK technical team headed by Scott Baker worked with Eden to spec the BSTA 180-36B to their exact requirements, adding a state-of-



"It has given us tremendous service and reliability, so when we were looking to advance our press shop technology to make parts 10x quicker, so we are able to compete with Far East made products, there was only one investment I was going to make and the new BRUDERER press is going to be fantastic for us."

The new BSTA 180-36B press being installed at Eden.



The BRUDERER UK Team (f.l.) Bob McSorley, Scott Baker, Andy Cole, Andy Fischer, Adrian Haller, Paul Tandy and Mark Crawford.

“What is really pleasing about this project is that Dave Hawkins and his team first purchased a BRUDERER back in 1993 and that press has given them unbelievable service and will continue to do so.”

the-art high speed precision BSV 75 servo feeder which included automatic material thickness adjustment among many other options to help speed up tool development, tool changeovers and ultimately the efficiency of the whole process.

Adrian Haller, Managing Director at BRUDERER UK, picked up the story: “This machine will future-proof Eden’s press capability for decades and delivers the unrivalled performance and repeatable accuracy it needs when manufacturing precision components. What is really pleasing about this project is that Dave Hawkins and his team first purchased a BRUDERER back in 1993 and that press has given them unbelievable service and will continue to do so. When the time came to add even further capability, there was no hesitation in coming back to us – these strategic partnerships are what our company is all about.”

Pam Gill, Managing Director at Eden, concluded: “The entire project was seamless and the BRUDERER service and support remains second to none. Everything was project-managed for us from start to finish, meaning we could concentrate on meeting the increases in production and putting in place the platform we needed to maximise several new product and export opportunities.”



More below

www.edenltd.co.uk

YOU NEVER STOP LEARNING

BRUDERER training day.



No-one knows their product better than the manufacturer themselves, as the team from Weidmüller was well aware. So when they came to Frasnacht to pick up a new BRUDERER machine, they made the most of the occasion to spend a day in-house learning more about the technology.

BRUDERER specialists and Weidmüller experts in tool manufacturing, maintenance and production put their heads together for a whole day to discuss current process and manufacturing optimisation topics. Meetings of this kind help BRUDERER customers not only to further fine-tune their own production processes, but also provide an important source of information to gain a better insight into current tasks and demands, making technology days like this one a genuine win-win situation.

If you, as a current or potential customer, are interested in reaping the benefits of BRUDERER developers' expertise to help drive improvement in your own manufacturing output, we would be delighted to hear from you.



info@bruderer.com

+41 71 447 75 00

www.brunderer.com/en/service/trainings

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CUSTOMER SATISFACTION
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IMPROVED SAFETY REC
ENHANCED IMAGE
IMPROVED REPUTATI



Significantly lower process costs thanks to increased productivity were what convinced us to invest in the BSTA 280-88B2 with a double servo feed solution.

INVESTING IN INDIA'S FUTURE

Since it was founded in 1999, Indian company Dhoot Transmission Pvt. Ltd. has established itself as one of the leading manufacturers of wiring harnesses, automotive switches, electronic sensors and controllers, connectors and terminals, automotive cables and power cords for the international automotive industry. Part of their success in achieving this has been a reliance on BRUDERER high-performance stamping presses.

Dhoot Transmission is a conglomerate headquartered in Aurangabad, in the Indian state of Maharashtra. The company was founded over two decades ago by Rahul Dhoot, and in recent years it has consistently expanded its international presence. The acquisition of an engineering and marketing consultancy in the UK and a manufacturing facility in Slovakia, combined with further strategic alliances, has turned Dhoot Transmission into one of today's leading global providers of cabling solutions.

At the forefront of technology

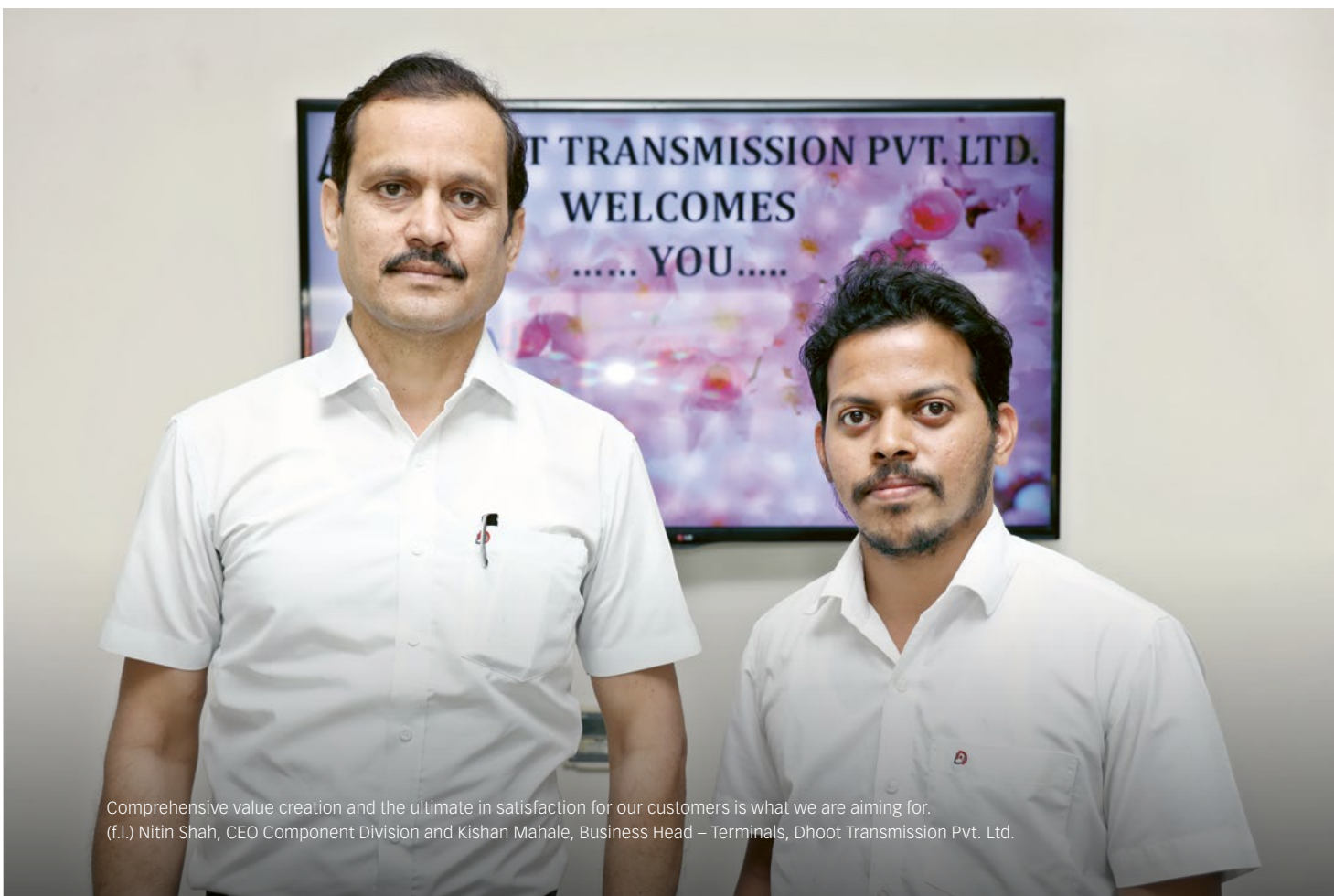
"We currently have the latest in product design and technology that enables us to meet the most stringent international quality standards," says the company's founder Rahul Dhoot, and he has the certifications to back up his claim in the form of ISO 9001:2015, IATF 16949:2016, ISO 14001:2015 and ISO 45001:2018. As one of the most important players and suppliers for the international automotive industry, Dhoot Transmission looks after customers in eight different countries across three continents, with the company currently employing over 10,000 people. "All 23 of our production locations and offices in India, USA, Mexico, the UK, Thailand, South Korea, Japan and Thailand are linked via SAP S/4 HANA," Dhoot adds.

"We are continually working on our infrastructure to simplify the ongoing growth in terms of space, human resources, machinery and suppliers."

Working hard on new ideas

The development that Dhoot talks of is nothing less than spectacular, as he explains. "We have a significant presence in the global automotive and consumer goods industry and we are one of the leading producers for OEMs. We offer a comprehensive portfolio of automotive products which cover all of the major segments. You can only do that if you have top-class quality and new ideas, and it is no coincidence that some of our latest bridging technologies have been designed directly

"Dhoot Transmission aims to be a global preferred supplier of wiring harnesses and electronics for the two-wheeler industry, the light and heavy commercial vehicle industry, tractors, off-road machinery, household appliances and the industrial sector."



Comprehensive value creation and the ultimate in satisfaction for our customers is what we are aiming for.
(f.l.) Nitin Shah, CEO Component Division and Kishan Mahale, Business Head – Terminals, Dhoot Transmission Pvt. Ltd.

in-house." As well as employing over 100 engineers in its own R&D department, Dhoot Transmission also has some impressive production figures, with around 900 million terminals produced in the 2022/23 financial year.

New capacities at Aurangabad headquarters

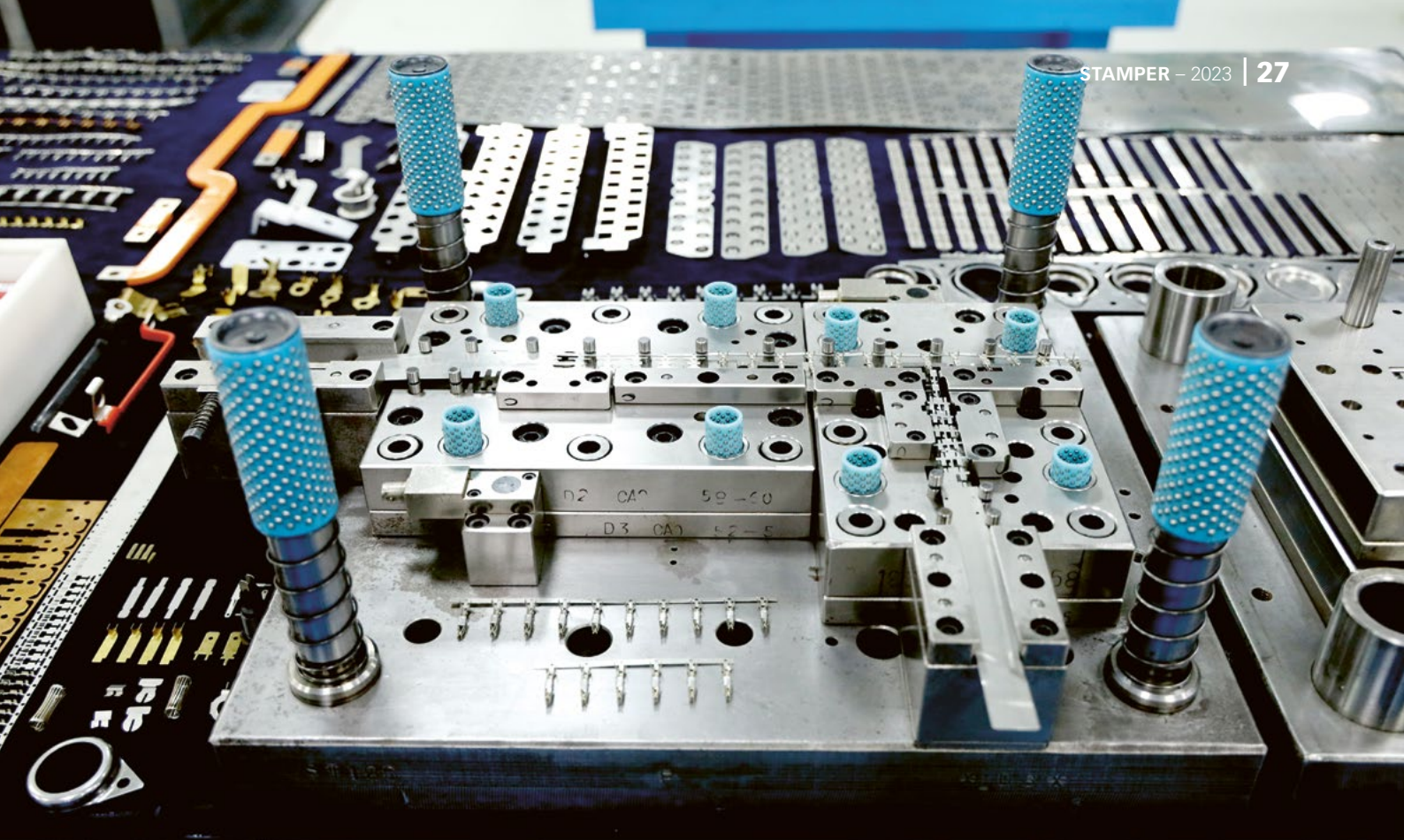
The Aurangabad production facility is now being expanded. It currently houses 16 stamping presses and 26 injection moulding machines, firing out 100 million terminals and 6.5 million connectors every month, at a rate of three shifts a day, six days a week. Tonnages range from 300 kN to 1,500 kN, with material thicknesses of 0.15 mm – 3.0 mm and widths of 11 mm – 250 mm. Stamping is only carried out in Aurangabad, but as Dhoot explains: "Our tool-manufacturing is also located here. We currently have 15 tool-workers in our development department, making precision tools for our high-performance stamping presses with a maximum tolerance of five micrometres."

Crucial quality criteria

Demands like these are one of the reasons why the company opted to acquire more BRUDERER high-performance stamping presses. "Dynamic ram adjustment during the process, high-speed stamping courtesy of dual-feed technology, the



Dhoot Transmission Pvt. Ltd. and BRUDERER – a partnership with a future.
(f.l.) Nitin Shah, CEO Component Division, Rahul Dhoot, Managing Director, Miodrag Stojic, Managing Director Asia-Pacific – BRUDERER AG, Kishan Mahale, Business Head – Terminals, Gopinath Anandan, Deputy General Manager – BRUDERER India.



Dhoot has 15 employees in in Aurangabad producing progressive tools for in-house stamping.

easily adjustable feeder unit and the intuitive controlling of the machines were all important criteria when it came to choosing BRUDERER," says Dhoot. "And then you add in the good levels of coordination, timely delivery and last but not least, the excellent support from the local team in India when it comes to installing and getting the machines up and running."

Significant investment in India

The benefits to be gained from working with BRUDERER can be seen at Dhoot Transmission most clearly in the increase in productivity and maintaining of high quality. "We have considerably lower process costs thanks to the incredible speeds, as well as reducing tool wear at the same time," Dhoot says. "The precision in the deep marking and the long lifetimes of our tools speak for themselves. What we are aiming for is a zero-error culture, and with ultramodern technology and first-class machinery as well as high levels of automation, we are very close to achieving that goal." As far as Dhoot is concerned, this decision is not merely an investment in the future success and growth of his company, but also in the ability for

"As a leading cabling solutions company, we support our customers by focusing on trust, value creation for them, quality innovation and customer satisfaction."

– Managing Director, Rahul Dhoot

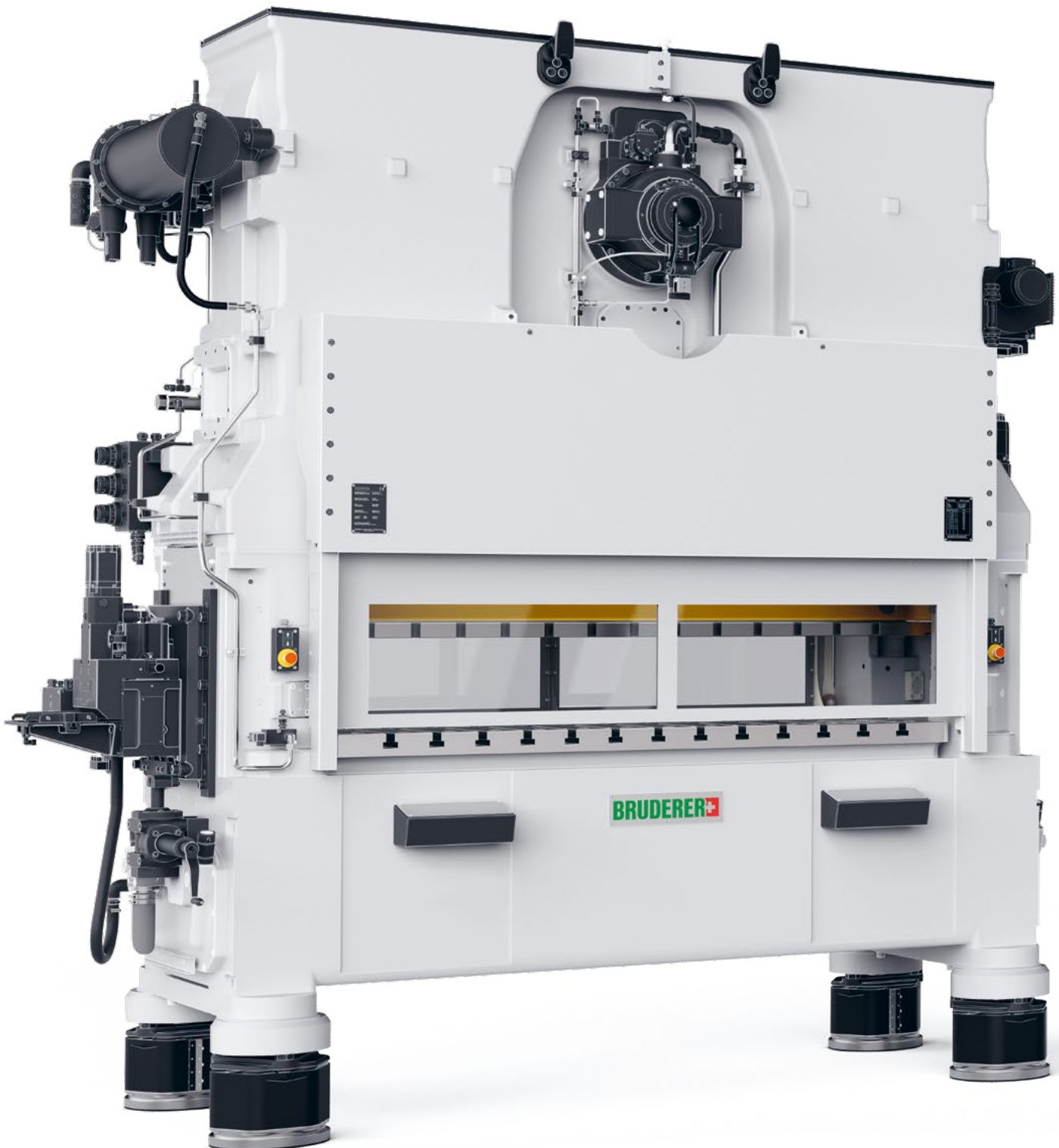
India as a location to be competitive. "With our expertise, top-class technology and plenty of commitment, we can continue to heighten India's reputation as an international production location that is highly sought-after." And in that, we wish him and his employees every success.



More below

www.dhoottransmission.com

THE NEW BSTA 710-220.



Lots of space for lots of power



BSTA
710-220



Tool loading area
2,200 mm

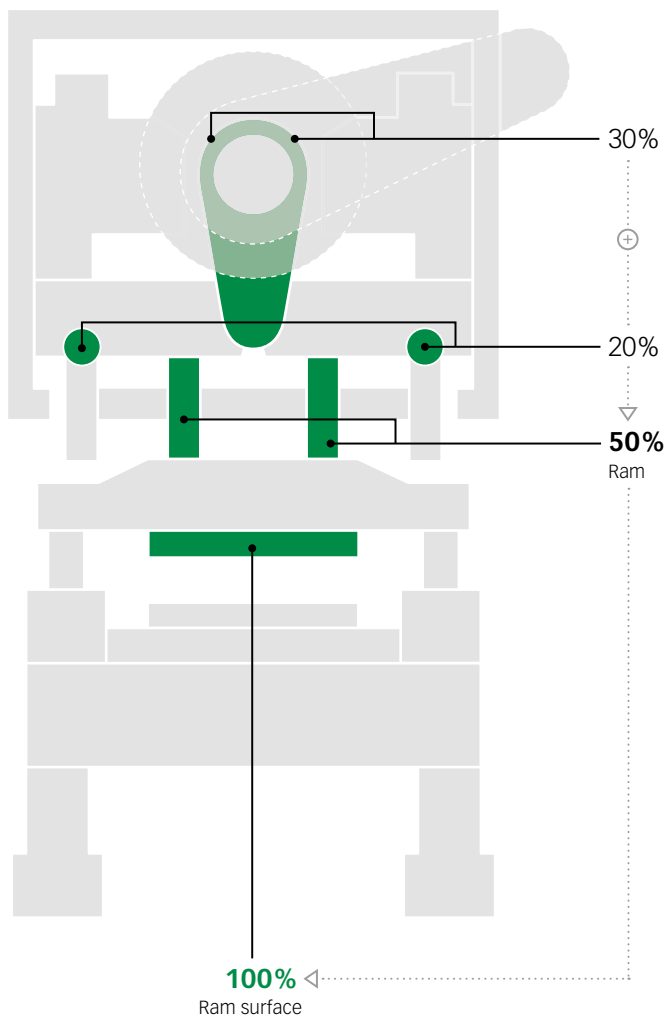


Speed
Min. 100 spm
Max. 850 spm



Press force
710 kN

Patented productive precision



Versatile implementations

Wherever you need the utmost availability and precision at low or high stroke rates, you will find the BSTA 710-220.



We keep our promises!

The new BSTA 710-220 also guarantees original BRUDERER replacement parts, connectivity to peripherals and global servicing.



GOING THE EXTRA MILE

BRUDERER has a highly flexible sales and customer service network, ensuring expert support and personalised advice around the world. We are here to help and always ready to give you all the support you need.

Overhauls.

BRUDERER products have proven to have a life-span of several decades, even when in constant use around the clock. Nevertheless, despite extremely high standards in terms of manufacturing quality and tool selection, even first-class precision-manufactured materials occasionally need an overhaul as the years go by. We can overhaul either entire machines or individual component groups such as feed units. Talk to our experts and see what they advise.



Find out more about overhauls

www.bruderer.com/en/service/overhauling



Stamping trials.

Nothing beats the results you get from practice, and we are always keen to demonstrate our expertise when it comes to producing BRUDERER stamping presses by way of a stamping test trial. A “trial run” with one of our machines is the clearest way of demonstrating the potential to be found in your stamping tool and the kind of output that can be produced. Regardless of whether you come to us with a new stamping tool or one from your current production range, our stamping presses will enable you to achieve higher stroke rates and longer tool lives, as well as a quality of stamped parts that you would not have believed possible. Leading companies around the world have come to rely on BRUDERER – let us show you why.



Find out more about stamping trials

www.bruderer.com/en/service/stamping-trials

Welcome to the **PREMIERE,** featuring two incredible stars!

It is our pleasure to invite you to a major premiere. From 7 – 10 November 2023, we will be presenting two brand-new stars of the BRUDERER range at the Blechexpo in Stuttgart.

The Blechexpo is always a very special event for us. The trade fair is the ideal location to meet our customers in person – after all, nothing quite beats a one-to-one conversation. And in these times of virtual meetings, this is something that we have come to appreciate all the more.

At this year's Blechexpo, the spotlight will be on our two new stars from Frasnacht. Firstly, we will be unveiling the BSTA 710-220, a stamping press that is the latest development of our tried-and-trusted BSTA range, with the longest bed length to date for its tonnage, providing more space for your demanding tool technology.

Secondly, we will be celebrating the global unveiling of the new BSTL 350-88. Yes, you did indeed read that correctly: the BSTL is a completely new BRUDERER model, combining everything that you have come to appreciate from our high-performance

stamping presses over the decades, namely precision, high levels of performance, reliability, maintaining of value and of course maintenance all around the world. Nevertheless, this is a completely new stamping press, and one that has been pared down to the essentials, as it were.

Come and take a look for yourself at this surprising new development. We look forward to your questions and feedback.

Come and pay us a visit at Stand No. 6309 in Hall 6 of the Blechexpo 2023 in Stuttgart.

We look forward to seeing you!



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