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**THOUGHT-LEADER IN STEEL PROCESSING AUTOMATION**

# REFERENCES FOR STEEL PROCESSING PROJECTS



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# KALTENBACH SYSTEMS FOR STEEL PROCESSING

Enhance your efficiency and productivity with our complete high-performance lines and specialised machinery at Kaltenbach. We understand the importance of delivering the right solution for your requirements - effectively, reliably, and safely. Achieve high-quality results with speed, precision, and flexibility in circular and band sawing. Whether it's simple straight cuts or complex angled cuts, Kaltenbach offers the perfect circular or band saw to suit your business needs.

Experience improved drilling performance with our efficient and accurate milling solutions, tailored to your specific requirements. Unlock new possibilities with our unique coping robots, offering automated cutting of complex parts with precision and minimal rework. Maximise efficiency with multiple technologies integrated into one machine for the most effective plate processing. Ensure quality and productivity with efficient material handling and precise measurement solutions.

Our modular design allows for easy integration of individual solutions, tailored to your production environment. Discover how Kaltenbach solutions have transformed operations in our reference projects. Experience the difference with Kaltenbach - where innovation meets reliability.







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## DUNSTEEL INVESTS IN KALTENBACH SYSTEM

For more than 50 years has been, Dunsteel remains a proudly family-owned and operated business. Dunsteel specialises in complex projects for leading building firms and architects and is at the forefront of prefabricated stairway design for large multi-storey buildings.

According to Dunsteel's Director, Jonathon Dunlop, they invested in the Kaltenbach steel processing system, to help improve productivity and bolster efficiency.

### **INCREASED PRODUCTION**

"Our ambition is to have the machine working two shifts per day—to load it up and then leave it alone. Depending on the complexity of the job, this outcome is achievable and does happen."

### **LAYOUT MARKING**

By automating layout marking, the fabrication schedule can be improved by as much as 30 per cent, without increasing headcount or footprint. It also improves accuracy on-site, helping to eradicate rework.

### **EXTRA SERVICE**

A couple of the extra features that Kaltenbach offered were the additional X-axis on the drilling line, allowing for multiple operations to be conducted at once, and a function called AFC (Automatic Feed Control) on the saw line that enables a pivoting action on the band saw," said Dunlop.

### **CUSTOMER SERVICE TO COUNT ON**

"We chose to partner with Kaltenbach because we felt that their culture was a good fit with our 'family business' style of operating. Kaltenbach felt like a small, tightly managed organisation, as opposed to some of the other players in the market that are much bigger," said Dunlop.







## INCREASE AUTOMATION, REDUCE PRODUCTION TIMES, CUT COSTS

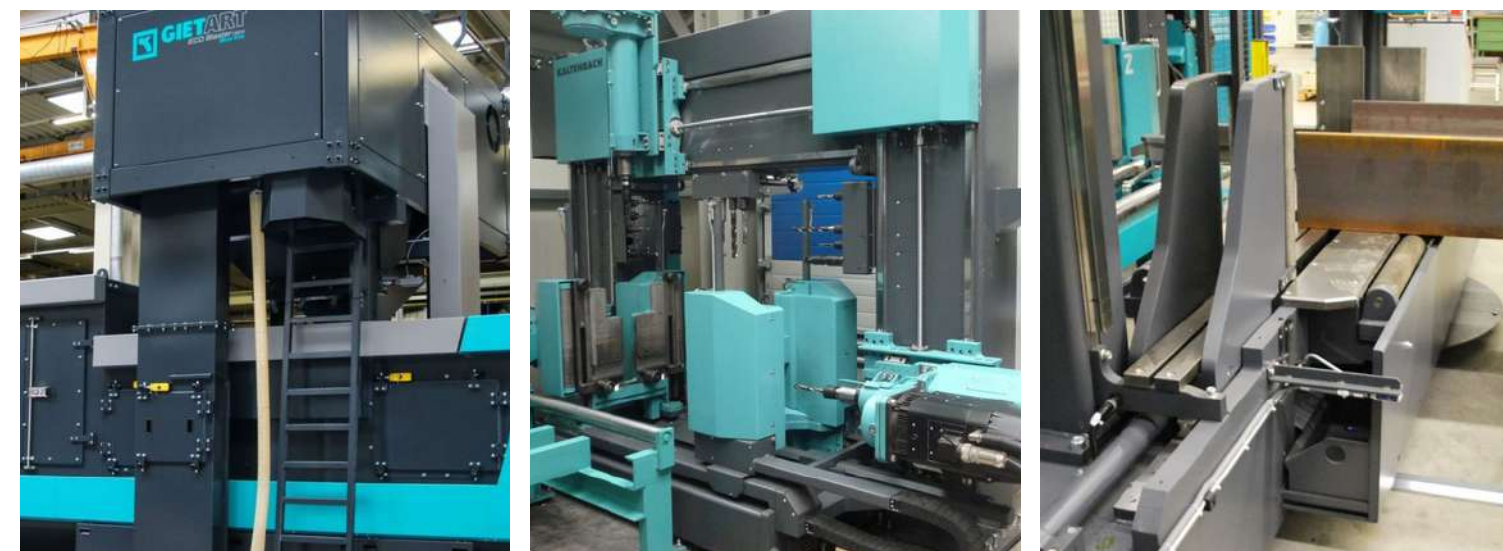
When faced with numerous simultaneous challenges, C+P Stahlbau GmbH & Co. KG in Breidenbach, Germany, needed a swift and comprehensive solution. As part of the CHRISTMANN & PFEIFER Group, this steel fabrication specialist had to adapt to changing market conditions and update its technical parameters. Established in 1925, the company rebuilt after a fire in 1962 and expanded significantly, maintaining a high standard of quality.

Operating three production plants with a total area of 250,000 m<sup>2</sup> and an annual output of 30,000 tonnes of steel, the company needed to modernize its equipment to stay competitive. The Breidenbach plant, with a capacity of 12,000 tonnes and a 16,500 m<sup>2</sup> production area, produces conventional and large steel structures. This requires precise and durable equipment, which led to the decision to invest in new machinery.

ALTENBACH was chosen for their expertise and quality. The investment included a KDM 1015 high-performance profile drilling machine, KBS 1051 DG precision saw, M 151 G measuring carriage, and a SPRINT 1504 shotblasting system.

These machines provide powerful, precise, and automated solutions, significantly improving throughput times and reducing costs. The advanced equipment also facilitates automated material marking, enhancing downstream processes and reducing errors. The switch to a compact saw-drill combination and increased automation has boosted productivity, reduced manual workload, and maintained high-quality standards.

This investment has enabled C+P Stahlbau GmbH & Co. KG to process multiple orders in parallel, enhancing quality, speed, and precision. Project manager Daniel Pfeifer confirms the success, emphasizing the sustainable boost in productivity and the valuable partnership with KALTENBACH.





## IMPROVED PRODUCTIVITY AND EMPLOYEE SATISFACTION

Ammann Asphalt GmbH in Alfeld plays a key role in asphalt production worldwide, manufacturing a range of stationary and mobile asphalt production and mixing equipment. To meet global demand, the company's prefabrication department preps and fabricates numerous sheet metal and steel components with precision and efficiency.

Ammann aimed to optimize production by increasing automation, reducing costs, and accelerating throughput. This led to the acquisition of a new cutting and drilling unit from KALTENBACH, a reputable manufacturer of metalworking machines. The chosen system, consisting of a KBS 750 band saw, a KDM 615 profile drill, and an M152 GG measuring system, was selected for its compact design and advanced capabilities. The KBS 750 band saw, designed for light-to-medium steel, features automated guidance and cut adjustment, ensuring efficient operation and high cut quality. The KDM 615 drill complements the band saw with automated tool changers, precise drilling capabilities, and an advanced software package for efficient operation. The integrated material-marking tool enhances subsequent processing steps, such as welding.

Together with the M152 GG measurement system, the new equipment has improved precision and reduced error rates. Ralf Knopf, Operations Manager at Ammann, reports a 10% increase in production rates and significant cost savings, with employees appreciating the user-friendly, advanced machinery.







## ALL-ROUND VERSATILITY - FROM STEEL BEAMS TO COMPLETE BUILDING SOLUTIONS

Stahlbau FASSHAUER GmbH exemplifies the success of family-run businesses, blending tradition with innovation. Founded in 1961 as a modest metal fittings business, it has evolved into a renowned steel construction company.

With a workforce of 50 and a 5,500-square-meter production facility, FASSHAUER delivers diverse projects across Europe and beyond, from car towers to industrial buildings. Recognized for their commitment to quality and efficiency, they sought to modernize their equipment.

Opting for KALTENBACH, renowned for reliability, FASSHAUER integrated a KDM 1015 drill and KBS 1051 DG saw, enhancing precision and productivity. The seamless integration within four weeks underscores KALTENBACH's expertise and commitment to customer satisfaction.

Managing Director Gabriele Fasshauer's confidence in the equipment's longevity reflects the enduring partnership between FASSHAUER and KALTENBACH, ensuring continued success in the years ahead.





## STATE-OF-THE-ART SAWING SYSTEMS DRIVE UP PRODUCTIVITY

For over a century, the name Salzgitter has epitomized excellence in steel production. With a global network of subsidiaries, Salzgitter Group's Gladbeck facility, under Salzgitter Mannesmann Stahlhandel GmbH, stands out as a key player in steel cutting.

Leveraging KALTENBACH's cutting-edge machinery, the plant ensures seamless operations and timely deliveries, crucial in today's just-in-time production landscape. The longstanding partnership between Salzgitter and KALTENBACH underscores the latter's commitment to delivering tailored solutions and unparalleled support.

From the robust HDM 1432 circular saw for heavy steel sections to the versatile KBS 1010 bandsaw for light to medium profiles, KALTENBACH's engineering prowess continues to drive productivity and precision at the Gladbeck plant. Mr. Zschuckelt's endorsement reaffirms the value of this collaboration, highlighting KALTENBACH's indispensable role in Salzgitter's steel processing operations.

This enduring partnership underscores the significance of productive alliances in today's competitive steel industry.







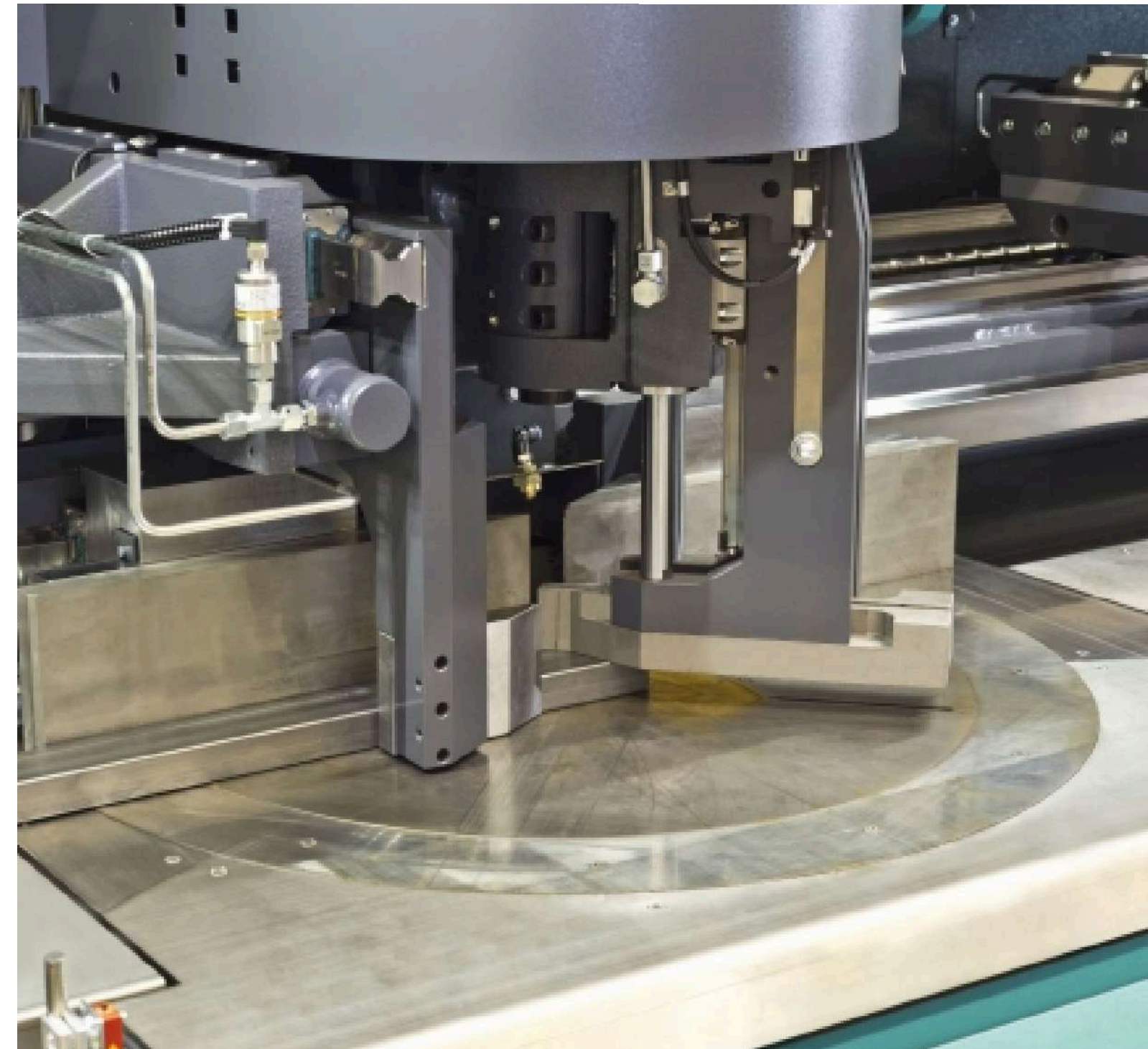
## **GREAT CRAFTSMANSHIP COMBINED WITH INNOVATIVE TECHNOLOGY FOR EXCEPTIONAL DESIGN IDEAS IN METAL**

Rosenhagen Metallbau, situated in Burgwedel near Hannover, is a beacon of innovation in metal fabrication. Specializing in indoor and outdoor staircases, the company, under third-generation leadership, blends tradition with advanced technology to bring unique designs to life.

The integration of KALTENBACH's universal miter saw, the KKS 463 NA, has revolutionized precision cutting, enabling the realization of complex projects with utmost efficiency. Equipped with state-of-the-art software and automated features, this saw optimizes material usage, enhances productivity, and reduces error rates, providing Rosenhagen with a competitive edge in the market.

Furthermore, smart accessories like the inkjet labeling system and modular material feeding ensure seamless operations and facilitate accurate component identification during shipping and installation.

For Rosenhagen, partnering with KALTENBACH signifies a commitment to quality, innovation, and customer satisfaction, essential values that drive their success in the industry.







## **BUNDLING PRODUCTION STAGES, REDUCING THROUGHPUT TIMES, CUTTING COSTS**

gsd Großanlagen- und Schwermaschinenbau Dessau GmbH, now part of the TMGROUP, epitomizes adaptability and customer-centricity in heavy steel fabrication. The subsidiary SFB Schönebecker Fahrzeugbau GmbH, nestled in Saxony-Anhalt, boasts a workforce of 110 and a modern facility spanning 20,000 m<sup>2</sup>.

Specializing in sheet metal/welded assemblies and cab chassis fabrication, SFB processes 4,500 tonnes of steel annually, catering to global demand, including prestigious projects like wind turbines for industry leaders such as Enercon. The company's success hinges on its ability to meet evolving customer needs through cutting-edge technology and efficient processes.

Recognizing the need for advanced machinery to meet rising demand, SFB partnered with KALTENBACH, drawn by its reputation for quality and performance. The KALTENBACH KBS 620 bandsaw and KDM 615 high-performance drilling machine form the backbone of SFB's production line, offering precision, flexibility, and increased productivity.

These machines, equipped with innovative features like material marking functions and intuitive operation via Profiline software, have revolutionized SFB's operations, slashing manufacturing times by over 60% and optimizing manpower capacity.

The success of this collaboration underscores KALTENBACH's commitment to providing tailored solutions that empower businesses like SFB to thrive in a competitive market. With a focus on performance, quality, and long-term reliability, KALTENBACH ensures that its partners can meet the demands of today's dynamic industry landscape while preparing for future challenges.





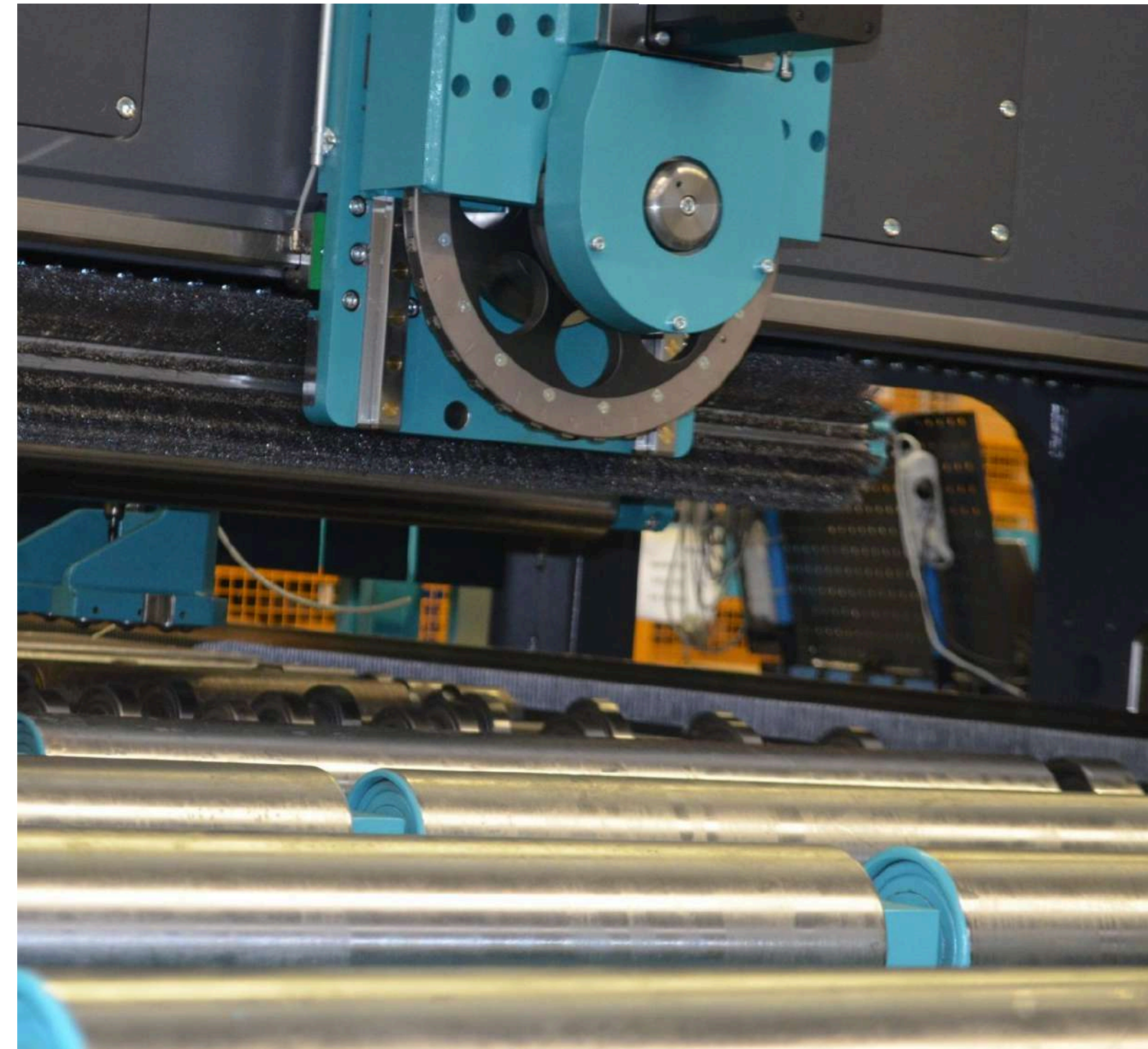


## PROFESSION AND PASSION IN STEEL DEMAND THE BEST IN PROCESSING TECHNOLOGIES

Biedenkapp Stahlbau GmbH, renowned for its diverse steel structures, showcases a legacy of nearly seven decades marked by innovation and adaptability. With a workforce of 80, the company specializes in industrial construction, offering planning, manufacturing, and installation services. From classic stairway railings to monumental projects like the Bregenz Opera Festival stage, Biedenkapp's portfolio is vast and varied.

To meet evolving demands in architectural creativity and individuality, Biedenkapp partnered with KALTENBACH, a leading metalworking equipment manufacturer. The result is the KF 2612 sheet metal processing center, designed to handle a wide array of tasks quickly, economically, and with precision. Equipped with innovative features like dual processing heads and integrated plasma and oxy-fuel cutters, the KF 2612 enhances productivity while ensuring flexibility in handling varying steel thicknesses, setting new standards in the industry.

Intelligent design choices, such as embossing wheels for easy component identification and compatibility with multiple CAD software, streamline operations and increase efficiency. Rudolf Schweiger, Biedenkapp's maintenance chief, highlights the fruitful collaboration with KALTENBACH, emphasizing the importance of incorporating customer feedback into product development. This synergy between technology and passion not only fosters creativity but also strengthens long-term partnerships, exemplifying the transformative power of innovation in steel fabrication.







## UNIQUE RESIDENTIAL ENVIRONMENTS THANKS TO UNMATCHED QUALITY IN PROCESSING

Schlosserei und Metallbau Hirt GmbH, based in Villingen, prioritizes customer satisfaction and innovation in crafting sunrooms, stairs, railings, and steel facades. Founded in 1984, the family-run business has grown into a 23-employee company with a focus on quality and precision in steel processing.

To meet increased demand without compromising quality, Hirt partnered with KALTENBACH, a renowned metalworking machinery manufacturer. KALTENBACH's cutting/drilling unit with a measuring cart marked Hirt's entry into CNC technology, enhancing productivity, safety, and precision.

The Kaltenbach KDE 603 drill, used for various operations including thread cutting, offers economic advantages and high precision with features like hydraulic clamping and intuitive operation. Complementing this is the KBS 620 miter band saw, known for its excellent cutting quality and low maintenance design, ideal for light-to-medium steel construction.

The integration of sophisticated technology from KALTENBACH, including the sliding measurement cart with dual gripper tongs, ensures precision and efficiency, even in restricted workspaces. This collaboration reflects Hirt's commitment to continuous improvement and innovative solutions, setting new standards in steel processing.







## SAFETY AND SECURITY FOR POORLY ACCESSIBLE WORKPLACES

FORTAL, a leading French developer and manufacturer of access products and safety equipment, emphasizes precision and customized solutions for challenging workspaces.

With a dedicated team of specialists and advanced machinery, they produce a wide range of products, from ladders to guardrails, for industries like construction, petrochemicals, and aviation.

To meet rising demand and enhance productivity, FORTAL chose KALTENBACH, renowned for metalworking machinery. They selected a high-performance cutting/drilling unit, comprising the KBS 620 DG precision saw and the KDM 615 high-performance drill, along with the M 151 G measurement gripper system.

The KBS 620 DG mitre band saw excels in light-to-medium steel construction, providing precise cuts and high throughput. Additional features like the cut monitoring system ensure efficiency and minimal material waste.

The KDM 615 drill, designed for demanding applications, offers precise milling on all axes and high-speed machining capabilities. FORTAL also invested in a contour marking system for material marking and a tools cart for project flexibility.

Operated through advanced software, these machines enable efficient drilling, milling, and counter-boring, meeting FORTAL's expectations for precision and productivity. FORTAL's managing director expressed satisfaction with the partnership, highlighting KALTENBACH's passion for finding the right solutions.







## UNIVERSAL - ALL IN A SINGLE PASS: THE KF 2628 PLATE PROCESSING CENTRE

Guangdong Huatai Steel Structure Co., Ltd, a leading Chinese steel fabricator, sought to enhance productivity and quality while reducing costs through modern machinery. With KALTENBACH, renowned for metalworking equipment, they found a partner capable of meeting their needs.

Facing intense competition in global markets, Chinese companies like Huatai require advanced technology to maintain competitiveness. KALTENBACH's machines, especially the KF 2628 plate processing center, proved ideal for Huatai's requirements.

The KF 2628 offers versatility and efficiency, performing multiple tasks such as drilling, counter-sinking, milling, and cutting on various steel plates. With features like two drilling units and a rapid tool changer, it maximizes throughput and reduces setup times.

Capable of handling large plates and offering automatic measurement and tool length adjustment, the KF 2628 ensures consistent precision. Its integration with LANTEK software enables seamless programming and real-time monitoring, aligning with Industry 4.0 standards.

Huatai's manager, Mr. Xuri Li, praised KALTENBACH for their attention to detail and international expertise in implementing tailored solutions. Expecting continued collaboration, Huatai looks forward to KALTENBACH's innovations meeting the demands of the Chinese market.







## **STEEL AND METAL PROCESSING THE KALTENBACH WAY: RELIABLE SERVICE AND ADVANCED TECHNOLOGY ARE OUR PARAMETERS FOR SUCCESS**

Plauen Stahl Technologie GmbH, a leading steel construction company in Germany, relies on KALTENBACH's advanced machinery for its steel processing needs. With a focus on precision and quality, Plauen Stahl chose KALTENBACH's SPRINT 1504 blasting unit to meet its high standards, despite limited space.

The partnership between Plauen Stahl and KALTENBACH extends beyond blasting equipment. Plauen Stahl boasts an array of KALTENBACH machinery, including the HDM 1432 circular saw and the KDX 1215 beam drill, which have proven reliable and cost-effective in heavy steel construction.

KALTENBACH's sheet-metal-processing centers, like the KF 2506 machining center, offer versatility and reliability, handling various tasks such as drilling, cutting, and marking. The close partnership between KALTENBACH and Plauen Stahl ensures tailored solutions that meet specific job requirements, reflecting a commitment to service and customer satisfaction.







## INNOVATIVE METALWORKING SOLUTIONS: PROCESS CHAIN AUTOMATION

KALTENBACH, a German company with over 125 years of experience, is renowned for its quality, performance, and reliability in the steel and aluminum processing industry. Originally known for circular sawing machines, it now offers a complete range of metalworking products, including shotblasting and preservation systems.

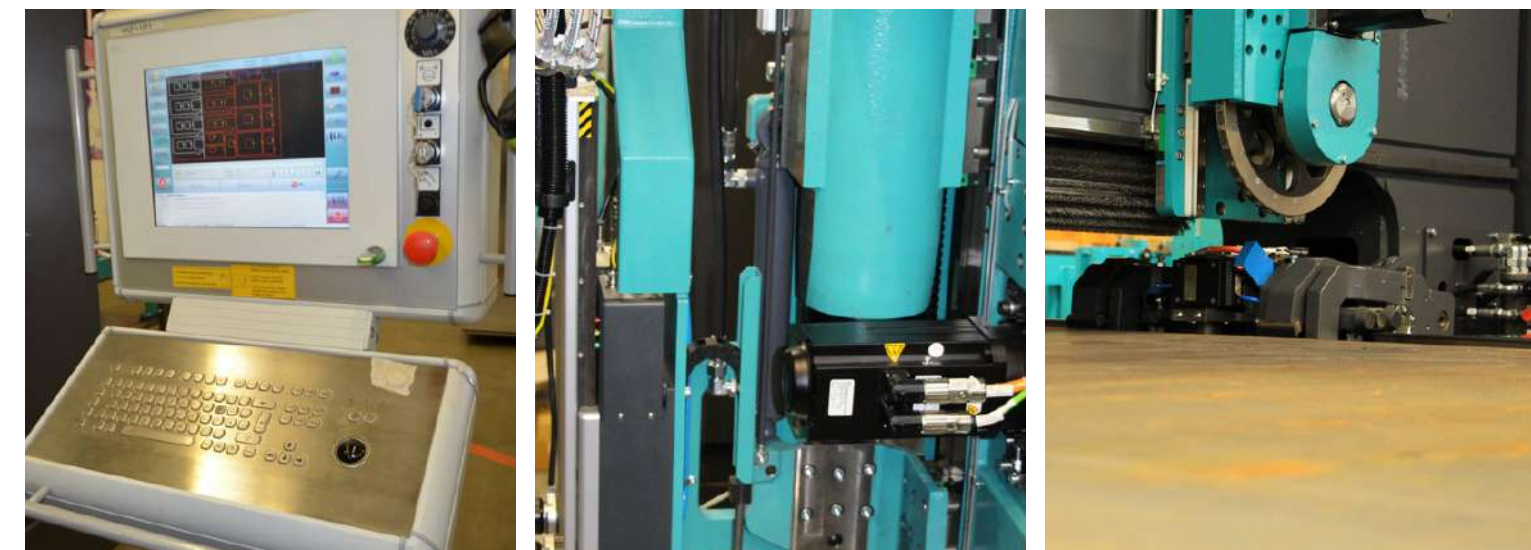
With a strong focus on innovation and high standards, KALTENBACH has become a market leader, with over 120,000 machines installed worldwide. The company's vertical integration, from product development to servicing, ensures quality throughout the process.

One of KALTENBACH's latest innovations is the KF 2606/12 series of plate processing centers, tailored to the needs of steel fabrication industries. These efficient machines can process sheet steel, metal strips, and flat steel with precision and automation, enhancing productivity.

The KF 2606/12 series features up to 2 drilling units and 4 gas cutting units, capable of machining sheet steel up to 2600 mm wide, 12,000 mm long, and 100 mm thick. Automatic tool changers enable various operations such as drilling, milling, and cutting in a single pass, while an integrated gas cutting unit ensures efficient processing.

KALTENBACH relies on modern drive systems from STÖBER to meet its exacting standards. Servomotors with planetary gear units ensure precise positioning, torque, and reliability during drilling operations.

The collaboration between KALTENBACH and STÖBER, based on quality, reliability, and compatibility, has been expanding since 2000. STÖBER's wide variety of drives and gear units provide optimum results, even in small batch numbers, making them an ideal partner for KALTENBACH's innovative solutions.







## IMPROVING PRODUCTIVITY AND JOB SATISFACTION

Friedrich Bühler GmbH & Co., based in Altensteig, has evolved from a small country smithy into a leading steelworks, handling ambitious steel structures with technical expertise and modern equipment. With a focus on innovation and automation, the company remains competitive in the steel processing market.

To enhance productivity and attract skilled personnel, Bühler prioritizes continuous automation development. When choosing a new cutter, the company opted for KALTENBACH due to their reputation for innovation and responsiveness to customer needs.

The KC 1201 notching unit from KALTENBACH was chosen for its ability to relieve workers of physical strain and its compatibility with existing machinery. This compact unit, with up to 8 axes, efficiently notches various profiles, improving productivity and workplace attractiveness. The integration of robot technology has significantly improved cutting precision and reduced physical labor for Bühler employees.

Erdmann Rath, the production manager, praises KALTENBACH's quality and service, emphasizing the partnership's success over the past decade and the potential for continued collaboration in the future.







## **CUSTOMER NEEDS ARE BEST SERVED WHEN EXTENSIVE CONSULTING EXPERIENCE IS COMBINED WITH ADVANCED TECHNOLOGY**

Stürmsfs AG in Goldbach, Switzerland, is a key player in steel and metal processing, serving industrial manufacturers and suppliers across sectors. With a history dating back to 1835, Stürmsfs has evolved into a leading production and service company, offering a wide range of steel and metal products and processing services.

To meet customer needs and stay competitive, Stürmsfs invests in the latest processing methods and technologies. Recently, the company integrated a new drilling-notching line from KALTENBACH, renowned for innovative solutions. This decision was based on KALTENBACH's expertise and ability to customize solutions.

The new drilling-notching line enhances flexibility and efficiency, overcoming space limitations and integrating seamlessly with existing systems. Equipped with KALTENBACH's high-performance drill, the line significantly reduces production times, offering economic advantages. The line includes a notching robot, KC 1201, designed for precision notching of various profiles. Customized software ensures optimal cutting efficiency, while additional features like contour marking enhance functionality.

Despite space constraints, the equipment's configuration allows for smooth material handling, facilitated by a sliding measuring trolley and a transport system. This ensures efficient processing of even complex orders.

Marcel Wilhelm, the production manager, praises the equipment's contribution to the company's competitive advantage, emphasizing its precision, efficiency, and durability. With minimal maintenance requirements and careful component design, KALTENBACH's equipment proves to be a valuable investment for Stürmsfs, reflecting the manufacturer's customer-centric approach.







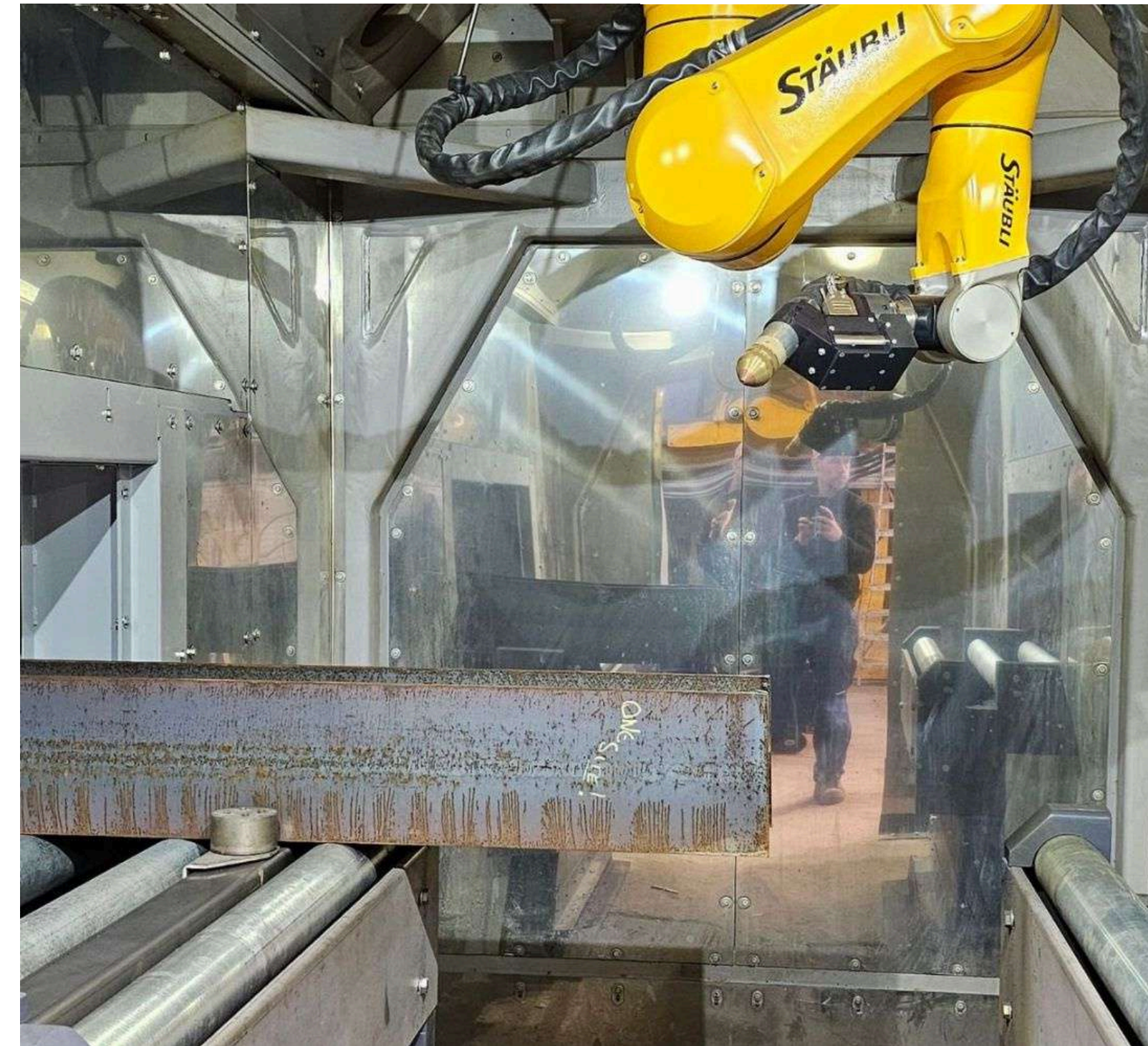
## CRUCIAL BENEFITS DERIVED FROM MARKET-DRIVEN RETROFIT

Reesink Staal b.v. in Zutphen, Netherlands, experienced a remarkable increase in plasma cutting throughput times after integrating an update for their KALTENBACH notching robot, the KC 1201. This update, part of KALTENBACH's continuous improvement process, enhanced the robot's software and hardware to meet current standards.

The update process, which took only one day for installation and four days for training, minimized production downtime and impressed the Reesink team with its speed. André Buiting, Chief Manager at Reesink Staal, highlighted the significant productivity improvements resulting from the update.

The update package brought numerous improvements, including a more powerful PC for faster processing, enhanced software for high-precision contours, and a "cut manager" feature for automatic corrections. Additional features like tailored cutting options, beam tolerance corrections, and cutting angle compensation further optimized the production process.

The update significantly increased program generation speed, resulting in a fourfold improvement in processing efficiency. Overall, the UPDATE PACKAGE KC 1201 proved to be a valuable investment for Reesink Staal, showcasing KALTENBACH's commitment to providing cutting-edge technology to meet customer needs.







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## KALTENBACH/GIETART SURFACE TREATMENT SYSTEMS

KALTENBACH | GIETART, with over a century of expertise, is a leader in steel surface treatment, providing top-notch shot blasting and conservation equipment. Our high-end blasting process uses high-performance turbines to effectively clean steel, ensuring it is free from rust, mill scale, and impurities. Our systems feature a durable triple-layer housing for exceptional stability and longevity.

Our painting technology maximises economy by reducing throughput times, paint consumption, and drying times. We offer market-leading automated painting processes that deliver efficient and precise coatings with minimal overspray. Our advanced powder coating systems ensure long-lasting finishes, and our energy-saving systems enhance efficiency and sustainability throughout the blasting, painting, and coating processes.

Discover the reliability and effectiveness of KALTENBACH | GIETART equipment through our reference projects.

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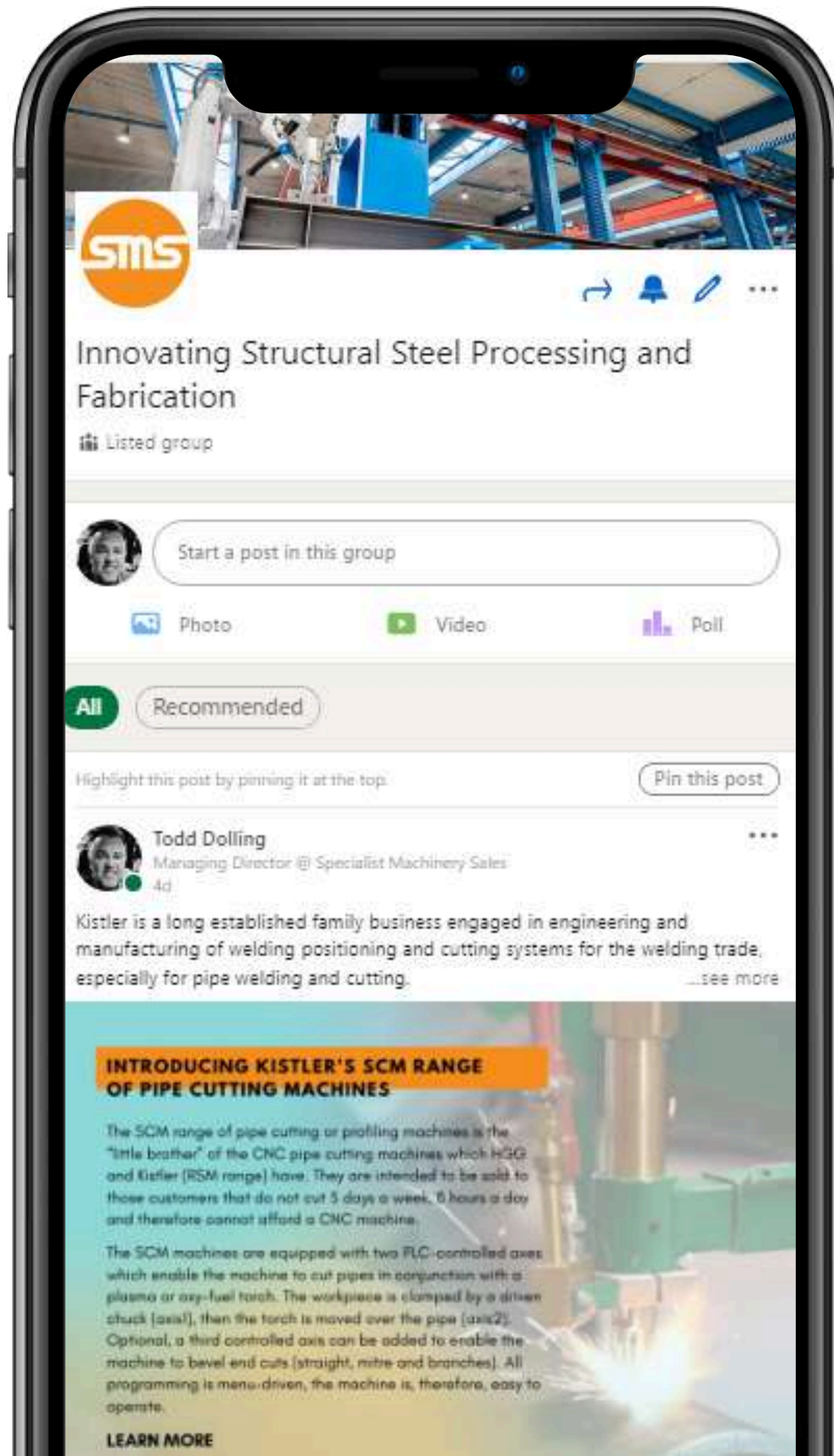
Specialist Machinery Sales offer second-hand or used structural steel processing machinery from Kaltenbach, Gietart, Haeusler, SLF and more.

Generally, the machines that SMS has access to are from trading for new machines offered from the machine tool builders to clients of SMS in Australia and New Zealand. Most machines are between 5 and 15 years of age with full-service history available. Some machines can be inspected under power or in their shipping packing ready for immediate delivery to Australasia.



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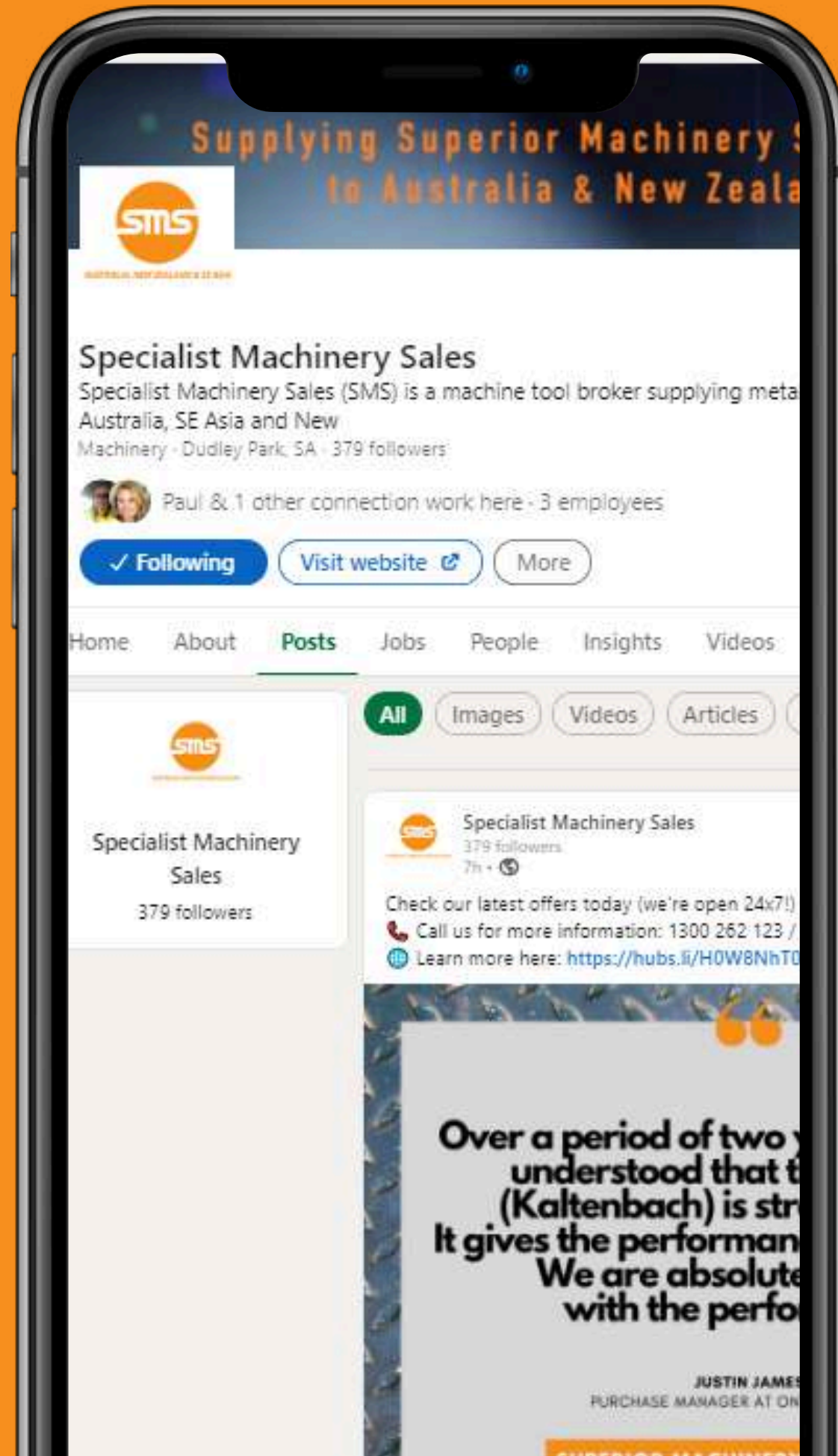
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In this group, we bring in thought leadership content, topics, trends and challenges within the steel industry and steel processing automation. We encourage everyone to share your business challenges and solutions that you have encountered and how steel processing automation had helped achieved your business objectives.

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