



**Integrated
high-quality
solutions
for the steel
industry**



KALTENBACH

POWERFUL SOLUTIONS - PASSIONATE PEOPLE

 www.kaltenbach.com



■ POWERFUL SOLUTIONS - PASSIONATE PEOPLE

Sawing, drilling, thermal cutting, shot blasting or painting - working with steel means creating for the future. With more than 135 years of experience, KALTENBACH is one of the leading companies in high-quality steel processing and conservation equipment, worldwide.

Creative and innovative solutions to guarantee the quality of your steel products. Durable and robust. Most environmentally friendly machines, with considerable savings on energy and consumables and best costs of ownership. Special attention is given to a safe, healthy and pleasant working environment.

Our passionate teams have worked for years to create and optimize products that give you a competitive advantage in your business.



Integrated high-quality solutions for the steel industry First class, sustainable steel products

Steel processing stands for the fabrication of new long lasting structures. While producing such durable materials and products, you will need the most powerful and reliable machines.

From locksmith's shop to steel construction, from bridge building to automotive industry. Our enthusiastic team of professionals knows your business and the challenges you have to face every day. Many years of experience and high innovation rates enable us to set the standard in the industry, especially in the areas of sustainability and cost effective processing. As a trend setter and technology leader, we are able to supply premium quality solutions, combined with an attractive and functional machine design.

Our product ranges bring total solutions and special machines for sawing, drilling, plate processing, as well as shot blasting and painting, including logistic and control systems. Powerful, highly versatile systems, whereby quick return on investment is made possible by means of a high level of performance and productivity.

Our software, machinery and skilled service and spare parts department enable to install and run your machine with the highest uptime and lowest cost of ownership.

■ Cutting-edge steel processing and conservation technology



EXCEPTIONAL RELIABILITY AND MAXIMUM UPTIME

Our systems are characterized by an outstanding and industry-leading durability. The robust and reliable design enables extraordinary operating times, even with the most intensive loads.



MOST ENVIRONMENTALLY FRIENDLY SOLUTIONS

Our systems are designed to be robust, energy friendly and require little maintenance. This ensures a long service life, with minimal wear and tear. Your products will be produced with most durable constructions, including significant energy saving possibilities.



LOWEST COST OF OWNERSHIP

Thanks to our efficient machines, your products will be produced with the lowest possible energy consumption, a minimum usage of consumables and reduced maintenance costs. High-quality steel products made at the lowest cost of ownership.

Markets

AT HOME IN YOUR INDUSTRY

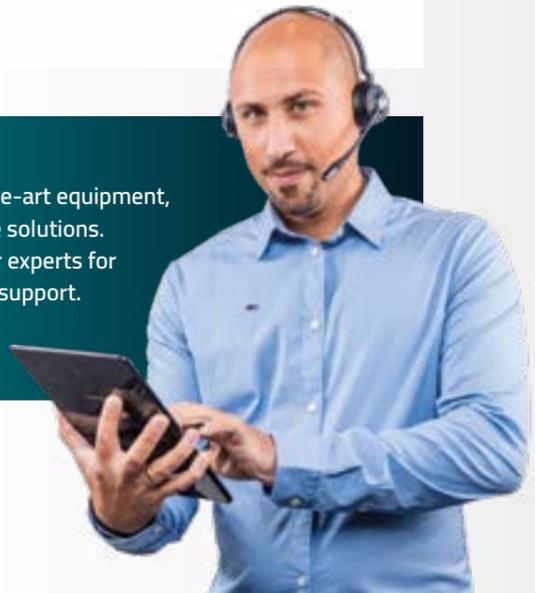
Process innovation, cost reduction, a safe and healthy environment are key elements in the various branches of steel processing. KALTENBACH has an in-dept knowledge of the challenges you have to deal with, worldwide.



MARKETS

-  Automotive
-  Bridge Building
-  Crane Building
-  Locksmith's Shops
-  Machine Construction
-  Metal Construction
-  Ship Building
-  Steel Fabrication
-  Steel Service Center
-  Structural Engineering
-  Surface Treatment Service Center
-  Transmission Towers

State-of-the-art equipment, sustainable solutions. Contact our experts for advice and support.



Product groups

Universal Sawing Machines (USM)



In order to produce high-quality steel products, speed, quality and precision are crucial factors. From simple straight or mitre cuts to multiple overlapping saw cuts at different angles, KALTENBACH USM can help you to find the perfect saw for your requirements.

The USM delivery programme consists of a wide range of universal sawing machines, from fully automatic systems to reliable allrounders, including special designed saws for aluminium and aluminium alloys. Highly efficient, precise processing. Powerful systems with a huge flexibility.

Systems for Steel Processing (SSP)



Powerful, reliable steel processing lines and machines which provide a high level of production safety, day in day out.

Sawing, drilling, milling, marking, coping, plate processing, punching and shearing. KALTENBACH has the right solution for your requirements. In our demo area or at site, we work together with you, our customer, to explore all opportunities for optimization of your production process.

Creating added value by high-end automation solutions, including complete process monitoring and pro-active information on need, for service and spares.

Systems for Surface Treatment (SST)



Surface treatment makes materials durable. Established in 1922, KALTENBACH | GIETART designs, produces and supplies highly sophisticated production lines and machines for shot blasting and painting in order to guarantee the quality of your steel products.

As a technology leader, we are setting standards in the industry, especially in the areas of innovation and sustainability, reduction of cost of ownership. Robust and reliable systems, with an attractive machine design.



High performance sawing systems

PERFECT ALLROUNDERS AND FULLY AUTOMATIC CIRCULAR SAWS

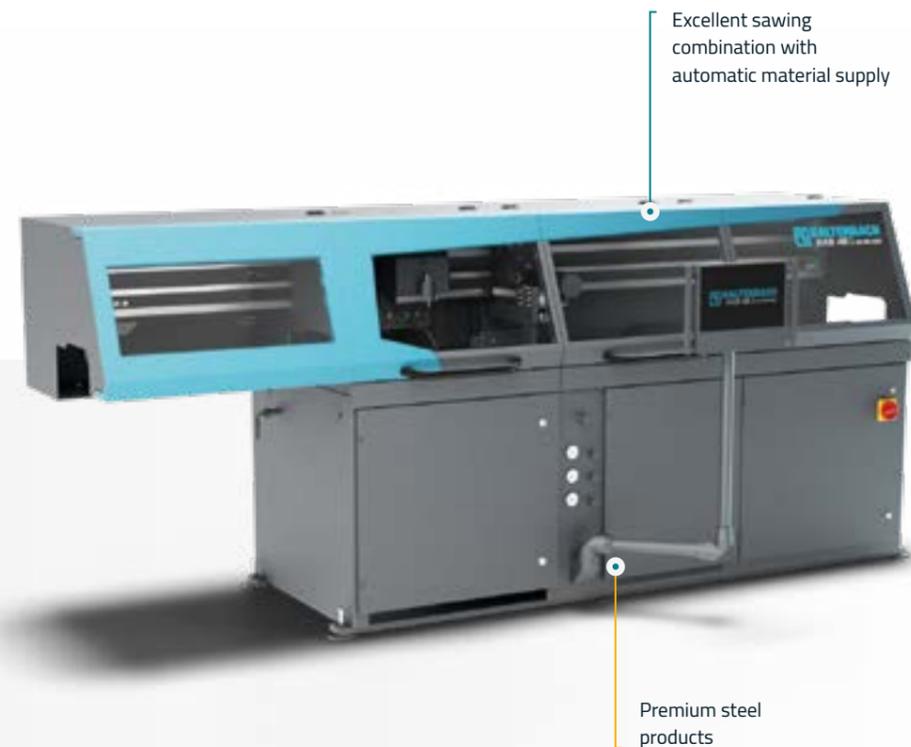
Reducing cutting times in steel or aluminium processing while ensuring an unrivalled quality. You can do it with our KALTENBACH circular saw machines. Thanks to their automatic and semi-automatic systems you will achieve a perfect bonding, cutting and opening.

High-performance, thin-section sawing systems, specifically designed for your business. Contact us for all interesting details!

EXCELLENT MACHINES FOR MAXIMUM PERFORMANCE

For highly efficient processing of flat, angular and solid material as well as tubes, choose **KALTENBACH's fully automatic universal mitring circular saws.**

Material feed as well as positioning to the desired cut lengths is carried out fully automatically. Operations can be carried out with less staff or via a fully unmanned sawing cell. With their superior cutting performance, low maintenance design and minimal running costs, you will find the best solution suited to your process.



The KALTENBACH semi-automatic universal mitring circular saws are world's most reliable allrounders

Highly flexible machines, suitable for both single cuts and batch processing. Solid materials can be sawn with the same performance as tubes and profiles. Robust and durable systems, energy efficient solutions, with precise straight and mitre cuts. Our experts will help to find the perfect saw for your requirements.

Get to know our **unique sawing systems for aluminium.**

KALTENBACH offers a wide range of manual, semi-automatic and fully-automatic circular saws, specifically designed for aluminium and aluminium alloys. Exceptional versatile systems, for straight and mitre cuts. Provided with an optimal chip flow.

Powerful machines with a long service life. Most environmentally friendly with lowest cost of ownership.

■ Total versatility, high-end cutting techniques



■ Enhanced productivity in demanding applications

- Superior performance
- User-friendly operations
- Highly versatile sawing systems
- Lowest total costs in use
- Unique reliability

Integrated high-quality solutions for the steel industry

OVER 135 YEARS OF ACCUMULATED KNOW-HOW

With complete high-performance lines and special machinery, we know how to boost your efficiency and productivity. You will be assured of the right solution for any requirement. Safe, effective and reliable.

Circular and Band Sawing

In order to produce high-quality products, speed, quality and precision are crucial factors. From simple straight or mitre cuts to multiple overlapping saw cuts at different angles. Circular or band, KALTENBACH will have the perfect saw for your business.

Drilling

Improved drilling performance. Efficient and accurate milling of notches, chamfers, slots and pockets. Thanks to powerful drives, high torques and fast rotational speeds, you will get the best model for your needs.

Coping

Unique coping robots with various cutting technologies, perfectly adapted to your material and accuracy requirements. Consistent high quality, even with complex cutting processes. Modern software components enable simulations, feasibility tests and collision control.

Plate Processing

Easy production of even complex shapes can be realized with the help of the modern configurations of KALTENBACH. Highly effective technologies for cutting plates. Guaranteed speed, efficiency and profitability.

Punching and Shearing

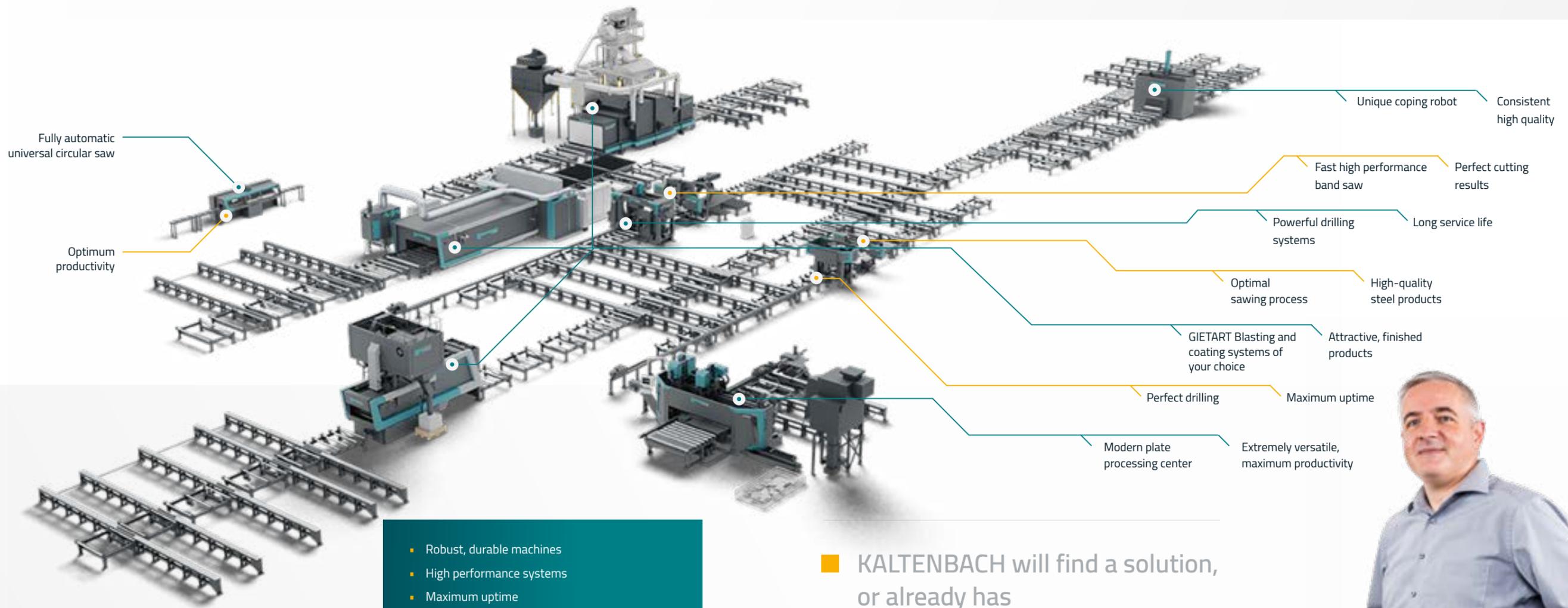
Compact machines including sorting system for good parts. Sturdy constructions with a modern design take care of optimum punching and shearing results.

■ We know how to boost your efficiency and productivity

Transporting and Measuring

Efficient material handling and precise measurement not only ensure the quality of your products, they also increase your productivity. Thanks to our modular design, individual solutions can be easily combined to realize a successful plant integration within your production environment.

Help and advice from our staff in Sales, Technical Services and Support are an integral part of KALTENBACH systems. Whatever your question and wherever you are in the world – we are there for you.



- Robust, durable machines
- High performance systems
- Maximum uptime
- Lowest cost of ownership
- Intelligent automation possibilities

■ KALTENBACH will find a solution, or already has



Highly efficient surface treatment systems

DEVELOPED FOR STRONG PERFORMANCE

Rust. Mill scale. Impurities. Before steel is fit to be processed, it has to be cleaned. With over a century of experience, KALTENBACH | GIETART is the leading, innovative expert for steel surface treatment, with most reliable, high-quality shot blasting and conservation equipment.

High-end blasting process

Cleaning of steel, in this case shot blasting, is carried out by hurling shot, such as small metal balls or cut wire, against the product at a velocity of approx. 80 m/sec. With our unique GIETART high performance turbines we are able to design the most effective blasting pattern and impact. The well proven construction with its triple layer housing ensures an high stability and a long lifetime of the entire system.

Innovative painting technology

Our painting systems are characterized by maximum economy, thanks to reduced throughput times and paint consumption, as well as considerable space saving, because of minimized drying times.

Automated painting process

The leading systems in the market for automated continuous coating systems for steel parts. Our cutting-edge technology enables you to work with highly cost-effective, environmentally friendly solutions in combination with a precise coating technique. Innovative equipment which offers you energy-efficient and resource-saving products, characterized by consistent paint layers, limited overspray and short drying times.

Advanced powder coating techniques

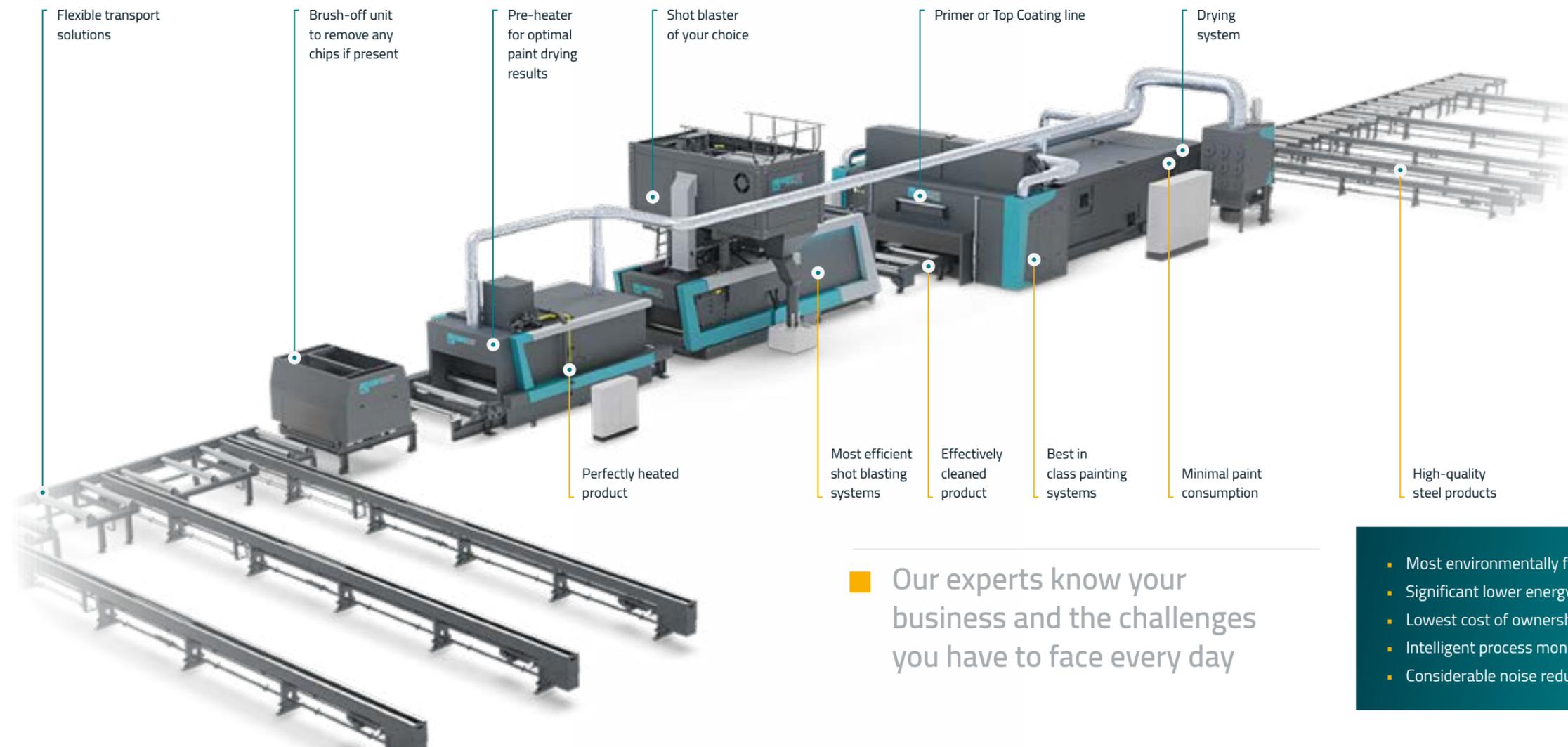
New in our delivery program. High-quality powder coating systems, for a long lasting finish.

Energy saving systems

In all steps of the shot blasting, painting and coating process, important energy saving elements have been integrated.

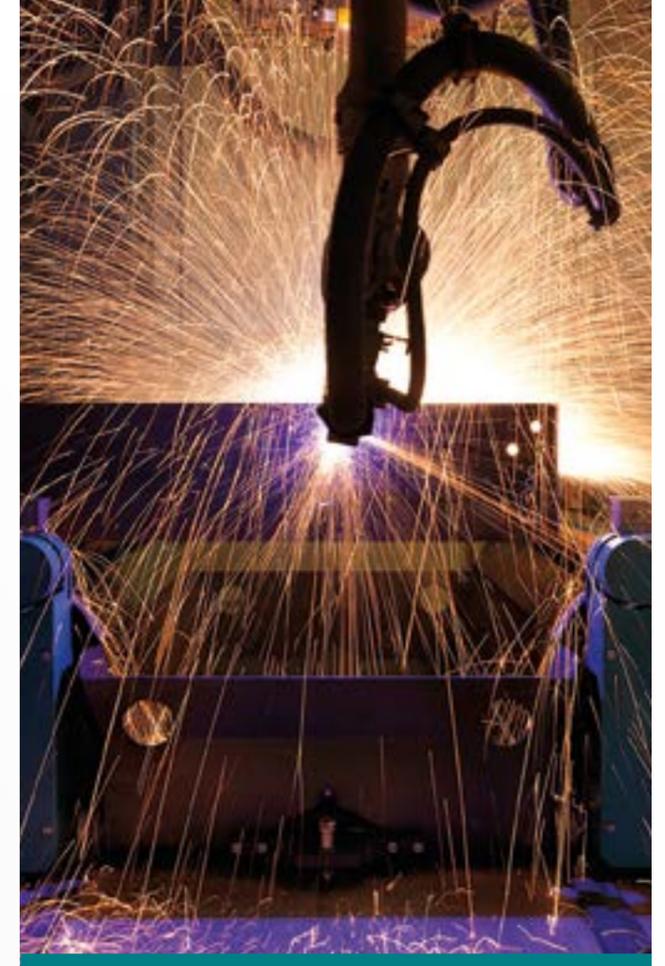
Our drive and pride is to protect and guarantee the quality and durability of your steel products. Every day, we continue to improve sustainability and reliability in all aspects.

■ Total design consultancy and customized solutions



■ Our experts know your business and the challenges you have to face every day

- Most environmentally friendly
- Significant lower energy consumption
- Lowest cost of ownership
- Intelligent process monitoring and control
- Considerable noise reduction



Circular Sawing

Effective cutting, smooth operation

Our advanced circular sawing machines are there to meet your stringent specifications. Based on years of experience, these KALTENBACH machines are ideal for straight and mitre cuts, as well as cutting heavy duty profiles.

The robust design will ensure that the machine remains a long-term asset in your production area. Sophisticated equipment, with a strong construction, suitable for sawing single, layer and bundled cuts. Characterized by a high cutting performance, low maintenance and long blade life.

H T L U - O □

Band Sawing

Precise cuts, even with the shortest cutting lengths

KALTENBACH band saws are ideal for cutting profiles straight or mitre. High cutting quality and performance are ensured by a robust double-column design. The band saw machines are provided with NC controlled cutting incline settings, user-friendly control and software. Low maintenance design, with a reliable, low-vibration construction. If you need extraordinary performance, it is possible to apply carbide saw bands in combination with our Auto-Feed-Control system. The system is suitable for single, layer and bundle cuts. Stand-alone or in line with our drill.

H T L U - O □

Drilling

Suitable for large variety of applications

The KALTENBACH Profile drilling systems are available in various versions, depending on your needs and applications. The KDB series reveals its economic benefits primarily in plant and light to medium steel construction. The KDM series is particularly suitable for more stringent demands. With the use of automatic tool changers and carbide drilling tools, the KDL series is ideally suited for large-sized and heavy profiles. Followed by KALTENBACH's flagship KDP, optimized for today's high performance tooling, including milling. Efficient machining, pop-marking, counter-sinking and tapping, scribing and milling, if desired, in combination with our powerful saws.

◆ H T L U - □

Coping

High speed system, ready-to-fit parts

The KALTENBACH beam coping system is one of the most advanced and productive machines on the market today. High speed plasma cutting of ready-to-fit parts, which can be used for any desired connection, both welded and bolted connections.

The machines are provided with a perfect hole and bevel technology, 3D scanning of material for optimum cut path generation, as well as an on-the-fly measuring system. KALTENBACH is setting the standard by offering an entire fabrication shop in a single machine.

H T L U - O □

“Together we will find a solution to make your company even more profitable.”



 **Plate Processing**

Full processing of specific steel and system constructions
Extremely versatile systems for a wide range of treatments: drilling, burning, counter-sinking, tapping, milling, marking and hard stamping. Especially designed for the full processing of specific steel and system construction components, such as top plates, base plates, gusset plates, ribs, flanges etc. Characteristic elements: high quality end products, maximum productivity, maintenance-free drilling, separate disposal of chips and scrap, common-cut and grid cut for trimming optimization, flexible scribing system, hydraulic hard stamping and easy machine operation by high-end software packages.



 **Punching and Shearing**

Compact machines, maximum uptime
The KALTENBACH Punching and Shearing systems are especially suited for applications in case of masts and steel constructions, as well as steel trading. Based on years of experience and developed for requirements such as low maintenance, speed and robustness. With a sturdy construction for a high punching and shearing force. Compact machines with quick tool change devices for maximum uptime, provided with user-friendly software packages.

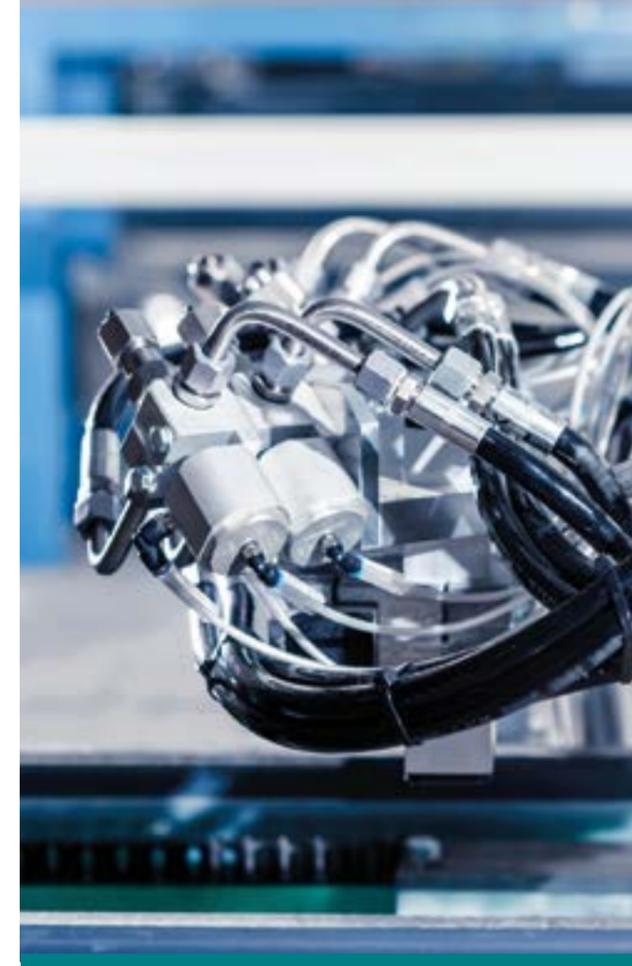
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 **Shot Blasting**

Highly effective cleaning, perfect end products
Shot blasting is used to remove rust, mill scale and similar undesirable side effects of working with steel. During the process, a stream of abrasive material (small metal balls or steel wire shot) will be directed at the surface of the material. Next to plates or profiles, it is also possible to clean welded constructions. In this way, you are able to optimize results even after fabrication. With the GIETART shot blasting systems, we have the right solution for both applications. Systems with cleverly designed GIETART turbines for optimum cleaning and a high material throughput, boosting efficiency and cost effectiveness.

H T L U - O Q X



 **Painting**

Optimal protection, long service life
Painting is one of the final stages of steel processing. Painted finishes protect steel structures from external influences and ensure a long service. The GIETART Primer and Top Coating systems are especially designed for pre-heating, painting and drying plates and tubes, as well as profiles. Together with the GIETART shot blasters, they build a complete preservation line. Paint consumption is reduced to a minimum, thanks to an ideal spray gun concept. Material can be painted in one single movement. An optimum concept in respect of paint use, drying times and maintenance to achieve a highly economical operation.

H T L U - O Q X

“Individual solutions can easily be combined to ensure successful plant integration within your production environment.”

Automation

AUTOMATED SOLUTIONS FOR EACH LEVEL OF REQUIREMENT

Process optimization and a wide range of automation possibilities enable an individual adjustment of production and transport processes, according to your requirements. From unique machine software to complete management information systems, KALTENBACH will be your system supplier. Please get in touch, anytime!



INTELLIGENT AUTOMATION POSSIBILITIES

- > Creating valuable information on process optimization
- > Digital tracking and visualization of material in production
- > Complete management information on performance of the machine (uptime, energy consumption etc.)
- > Pro-active information on need for service and spare parts
- > Pro-active management of quality/material flow
- > Automated infeed/outfeed, transport and storage

BENEFITS OF AUTOMATION

- > Low staffing requirements up to low staffed shifts
- > Faster material transport for higher tonnages
- > Full transparency about material position and production progress



Service

OPTIMAL AVAILABILITY AND PERFORMANCE

With 135 years in business, we are the experts in steel processing and surface treatment. Our custom made service solutions guarantee that you benefit from an optimal performance, availability and continuous high quality output of your investment.

■ EXCELLENT PREVENTIVE MAINTENANCE PACKAGES

Maximum uptime can be ensured thanks to our excellent preventive maintenance packages. Together with you, our skilled engineers will keep your equipment up to date, improve your process efficiency and give advice to meet new market demands.

■ ADVANCED PROCESS MONITORING SYSTEMS

With the help of advanced process monitoring systems, you will get a clear insight in your machine performance, and preventive maintenance can be planned in time.



■ PROFESSIONAL HELPDESK

For fast and immediate assistance, you can rely on our help desk. Spare parts and assistance will be quickly on site, whenever and wherever needed.

■ ORIGINAL SPARE PARTS AND STARTER KITS

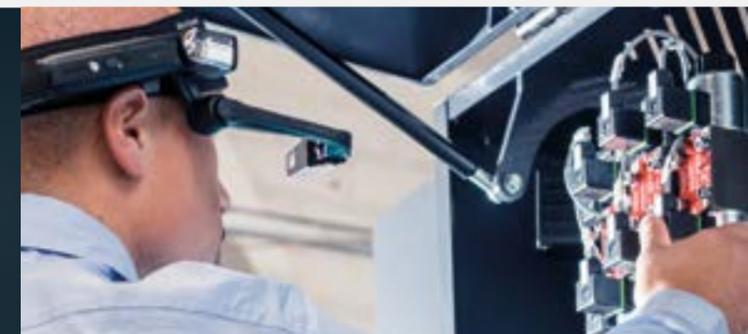
Original spare parts stand for optimum efficiency, higher uptime and a longer service life of your machine. In order to safeguard production continuity and short down time, you can make use of various starter kits. In that case you will have all parts you need on stock.

■ FIRST CLASS ASSISTANCE ON SITE

Knowledge, experience and a passionate commitment to support our customers in the best possible way is what makes our service strong. Together, we will look for the best manufacturing methods for your products.

■ EFFECTIVE TRAINING

Taylor-made training programs will improve the productivity of your machine, as well as the skills of your employees.



GET IN TOUCH WITH OUR SERVICE DEPARTMENT!

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Project approach

TRUSTWORTHY PARTNERSHIPS



PROJECT SPECIFICATION

Creating a clear scope of supply and functionality, including interfaces is always our basis. Taylor-made solutions.



PROJECT MANAGEMENT

We are always with you, from the first approval of the project till Site Acceptance Test, including preparations at your site.



ENGINEERING

Product, process and production line. We will design a working and robust solution within the agreed specifications of the project.



MANUFACTURING

Every day, our employees are dedicated and passionate about producing quality equipment that brings you an obvious added value.



INSTALLATION AND COMMISSIONING

With our team of experts you will be assured of quick production starts and excellent knowledge transfer to your employees.



AFTER SALES

Preventive maintenance, expert advice and extensive training, driven by a relentless focus on improving the quality and value of your installations.

Contact us!

WE ARE THERE - WHEREVER YOU NEED US

As technological leader in the field of steel processing systems, KALTENBACH excels in product quality, innovation and design. It is our passion to supply the most reliable solution against the lowest cost of ownership, worldwide.

This includes a clear focus on the environment and saving energy and material. With our latest automation devices, you will get an optimal insight into your production process. Operation and maintenance of our solutions will be easy and user-friendly. For all questions and in all cases you can rely on the fact, we are there. Wherever you need us.



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www.kaltenbach.com



Convince yourself of the knowledge from 135 years of experience

With 135 years of experience in steel processing and surface treatment, KALTENBACH is able to face the challenge of a constantly changing global market with relentless innovation, high-quality process systems and an outstanding machine design.

Most environmentally friendly. Effective, safe and reliable. Our production lines and machines guarantee the right solution for any requirement in your business. Benefit from our industry expertise and generate added value - every day.

www.kaltenbach.com

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www.youtube.com/kaltenbachGroup

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