



ERDWICH

... SHREDDING UNLIMITED ...



INNOVATION COMES AS STANDARD

ERDWICH. RECYCLING AND SHREDDER TECHNOLOGY



THE COMPANY

WHY ERDWICH.



YOU ARE AT THE CENTRE OF OUR DECISIONS AND ACTIONS.

As a highly specialised engineering and manufacturing company, ERDWICH can draw on over 30 years of experience to offer superior services in recycling and shredder technology.

Shredders, custom solutions, turnkey recycling facilities and a global service form our core competences, all supported on a day-to-day basis by our passionate and committed team.

More than 6,500 machines in over 80 countries throughout the world are the calling card for our unique and successful corporate philosophy.

This places our customers and their needs at the centre of our decisions and actions – with no ifs or buts. Fairness, honesty and a target-oriented approach shape our work both inside and outside the company. For us, innovation is our daily benchmark. Our long-serving, experienced employees work with our customers to create perfect, customer-specific solutions for every application.

Owner-managed with personal, dedicated support, short response times and a comprehensive service portfolio, we give you first-class quality „Made in Bavaria“.

■ INNOVATION IS OUR STANDARD

We design individual, customer-specific machines and plant to match every material and volume specification. We don't simply sell a product: pursuing our goal of maximum customer satisfaction, we create the best possible solution from both a technical and business perspective.

■ QUALITY MADE IN BAVARIA

Our modular machines and systems are of an impressively high quality, are long-lasting and require little in the way of maintenance. Rugged, reliable, energy-efficient and durable: that's our goal, developed out of many long years of experience.

■ PERSONAL AND HONEST ADVICE

Experienced project managers provide you with support from planning to commissioning. Honesty, fairness and a sense of responsibility towards our partners guide the decisions we make and the actions we take.

■ DIRECT MANAGEMENT STYLE

A direct management style and long-serving staff with the authority to think for themselves promote rapid decision-making and accelerate project completion.

■ WE'RE PASSIONATE ABOUT SERVICE

We offer you a comprehensive service package – from the handling of your initial enquiry through to technical service and professional maintenance. Driven by our primary objective of customer satisfaction, we always strive to be better.

PROCESS COMPETENCE

**HIGHEST OPERATING
EFFICIENCY
GUARANTEED BY
EFFICIENT PROCESSES.**



■ CUSTOMISED ADVICE FOR THE BEST SOLUTION

Our specialists provide you with personalised advice designed to identify a solution perfectly matched to you and your needs.

■ LIVE TESTS CREATE CONFIDENCE

If required, our Test Centre enables us to trial your materials under real-world conditions. This ensures we choose the optimum strategy for your investment decision.

■ SOLUTIONS DESIGNED FOR YOUR SUCCESS

Taking this strategy, we use the latest technology to design and develop an optimum solution from both a technical and economic perspective. And one that is naturally fine-tuned to match your individual needs, protect the environment and conserve resources.

■ YOUR PERSONAL PROJECT MANAGER IS RESPONSIBLE

Your personal project manager ensures punctuality and reliability throughout the entire process. Your permanent contact is always available for you.

■ PROUD TO COME TO INITIAL START-UP

This package of services consists of factory approval, installation, commissioning and start-up support. It naturally also includes test runs, training for your operating and servicing personnel, clearly intelligible operating instructions and spare parts catalogues.

■ WE'RE PASSIONATE ABOUT SERVICE

You can call our Service Hotline to talk to one of our highly motivated employees at any time. Our service technicians work day and night to guarantee maximum availability for your plant.

As a manufacturer of shredding machines and recycling facilities, ERDWICH inspires with product solutions that are well known for their sophisticated technology, outstanding quality and unique innovative character.

Yet the secret of our success is not only to be found in our products. It is based on our employees who develop, produce and sell these products. Their satisfaction and expertise are required to produce first-class services for you. The special team spirit and great freedom people experience in our company moves them forward.

Globalisation of the markets increases the complexity of requirements day by day. They demand highly efficient processes, speed and flexibility from all those involved in the market.

We recognised this at an early stage and have interlinked our process steps in such a way that our customers benefit from maximum efficiency. Like a cog in a wheel, each step in the process fits neatly into the next, ensuring the high ERDWICH quality.

Our resulting process solution proficiency guarantees you all-round support with uncompromising dependability, first-class functional reliability and punctuality.





**DEVELOPMENT
AND DESIGN**

**YOUR EXTREMELY
EXPERIENCED ERDWICH
DESIGN TEAM DEVELOPS
CUSTOMISED SOLUTIONS.**



Experience counts. This is particularly true for the development and design of our custom-made machinery and plant solutions.

And it requires employees who can work together constructively as a team to turn unconventional new ideas into outstanding innovations. The ERDWICH team is characterised by just such employees, who of course use the latest 3D software to professionally implement their solutions.

Customised solutions in the best possible hands.

■ **CUSTOMER ORIENTATION RIGHT FROM THE WORD GO**

Machinery or plant planning begins with the quotation and joint cooperation with the customer. Every customer enquiry is a new challenge.

■ **INTENSIVE INTERNAL COMMUNICATION**

Our great success is due to what we have in common. Constant dialogue between Sales, Design and Development allows ideas to mature into innovations.

■ **INTERNAL AND EXTERNAL PARTNERSHIPS**

Our long-service suppliers and partners for plant components are an inherent part of the ERDWICH team. They are just as dedicated to their work as our own employees are.

■ **GREAT SENSE OF RESPONSIBILITY**

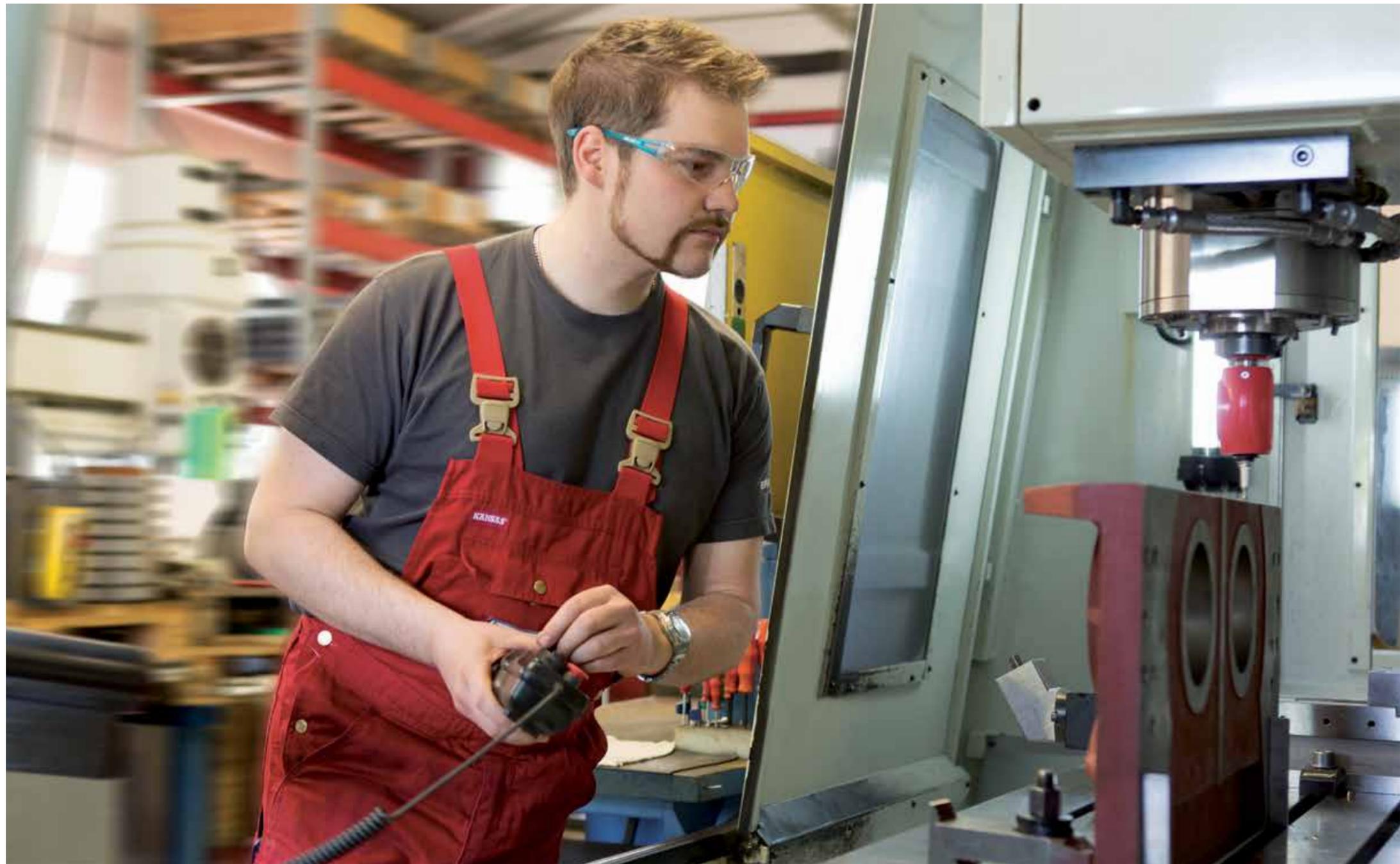
Only a team that can work responsibly and independently can face up to the challenges of the market. The expertise of our long-serving staff allows a more direct management and great sense of responsibility.

■ **INNOVATIONS FOR A SUCCESSFUL FUTURE**

We develop technologies for the future, intensively tracking the markets and orienting our developments consistently towards them. For both individual machines and complete plant solutions. Always focusing on maximum operating efficiency and use of energy.

PRODUCTION

**OUR DEPTH OF PRODUCTION
WILL ENSURE YOU HIGH
FLEXIBILITY AND SHORT
REACTION TIMES.**



Our company is able to carry out all major manufacturing processes on the premises, thus ensuring that quality and innovation can undergo continual development in a positive process under our responsibility. Production covers machining and the mechanical engineering this involves as well as the manufacturing of plant-specific machine components.

This depth of production also allows us a great degree of flexibility to react quickly to short-term customer wishes. Every machine or plant is tested under real-world conditions at ERDWICH and only released for delivery following a technical internal acceptance process.

It goes without saying that ERDWICH is certified to ISO 9001 and 14001.



THE AREAS OF APPLICATION

WE DEVELOP THE **PERFECT SOLUTION** FOR YOU.
FOR **EVERY REQUIREMENT**
AND **EVERY MATERIAL.**



METAL SWARF

In metal-working shops with swarf-producing manufacturing techniques, the swarf generated is an important cost factor. Machine downtimes caused by swarf blockage is a killer factor for the productivity of any company.

Yet efficient swarf discharge presents a real logistic challenge. Here, company size, the number of machines and swarf volume in particular are the decisive criteria for economic and process-reliable solutions.

ELECTRONIC WASTE/REFRIGERATION PLANT

The ozone-depleting chlorofluorocarbons (CFCs) and combustible hydrocarbons (HCs) used in PU foam production make special demands on recycling processes. Currently we can reclaim hydrocarbons (e.g. pentane) from the foaming agent mixture produced with almost 100% purity.

The generation of fuels and combustible materials and the maximum reduction of the remaining CFC quantities are the main concerns here.

However, valuable primary materials can also be recovered from general electrical/electronic devices, small/large household appliances, PCBs, LCD monitors and PV modules.

CARDBOARD

Every year, Germany produces around 10 million tonnes of cardboard and paperboard for the packaging industry.

To optimise in-house production processes, large-volume, bulky boxes are reduced in volume directly at source once emptied and can thus be passed on to a controlled recycling cycle by downstream presses.

Depending on requirements, different machine sizes are required so that they can be put to optimum use in the production processes of the corrugated cardboard industry.

SURROGATE FUELS

Analytical shredding systems for QA work are a fundamental preliminary component in the production of surrogate fuels.

Businesses that buy in their surrogate fuel from external suppliers are faced with two key analytical requirements before putting it to use: pollutant analysis and calorific analysis.

To ensure the proper handling of these analyses, a sophisticated sampling system is required.

SPECIAL WASTE

Large quantities of special waste are produced by the pharmaceutical and chemical industries as well as in other industrial operations. Due to the health and environmental hazard presented by such waste materials, they have to be destroyed in special plants or stored in special landfills.

The main objective is to shred this waste to such an extent that it is no longer useful on the one hand and can be prepared perfectly for destruction in high-temperature incineration plants on the other.

FURTHER AREAS OF APPLICATION FROM A-Z

The significance of primary materials results in the creation of new areas of application every day. Our technology even covers areas as diverse as dashboards, bank notes, disposable plates, catering waste, bottle closures, plastic containers, milk packaging, oil filters, nappies, cans, packaging of all kinds, cigarettes and much more besides.

There is almost no application we can't find a suitable solution for.

Talk to our specialists about what you need!

SHREDDING MACHINES

**INNOVATIVE
SOLUTIONS SET
GLOBAL STANDARDS
IN TECHNOLOGY
AND PERFORMANCE.**



SINGLE-SHAFT SHREDDER

Precise material breakdown in just a single operation.

The material is taken up by the cutting rotor and shredded repeatedly against the stator blade, using the tried-and-tested rotor/stator cutting principle. This continues until the desired size has been achieved.

TWO-SHAFT SHREDDER

Continuous-process shredding of large quantities and volumes.

The secret is our ERDWICH rotor-blade cutting principle, honed to perfection over decades. The material is taken up by the barbed blade, pulled unceremoniously into the machine and then shredded between the blades on the two opposing shafts.

THREE-SHAFT SHREDDER

This machine technology is especially suitable for shredding larger quantities or large-volume materials to a defined size.

The three cutter shafts and their individual sets of blades rotate at different speeds, so as to continuously pull in and precisely shred the feedstock material.

COARSE SHREDDER

The slow-running, low-noise two-shaft rotor/shredder system for resource-saving and low-wear material shredding allows resources and pollutants to be salvaged almost undamaged during the subsequent sorting process.

HAMMER MILLS

ERDWICH hammer mills are the answer to the challenge of selectively shredding hard and brittle materials as well as pelletising rubbery materials as preparation for downstream separation systems.

They are especially suitable for metal, electrical and electronic scrap or swarf from steel, aluminium or other materials.

CARDBOARD SHREDDER

With the EKZ cardboard shredder in different sizes we provide the optimum solution for shredding large-volume cardboard in a reliable process directly at the point where the waste is created.

The FKZ paperboard shredder processes residue from punching machines or corrugated cardboard waste directly at the production line, allowing it to be disposed of directly through existing extraction-based systems.





SHREDDING SYSTEMS

THE EXAMPLES OF OUR SYSTEM SOLUTIONS ARE AS INDIVIDUAL AS YOUR REQUIREMENTS.



REFRIGERATOR SYSTEMS

As one of the leading manufacturers with dozens of systems installed around the globe and more than 35 million refrigeration units processed, ERDWICH repeatedly sets standards in this sector.

ERDWICH supplies systems which can handle 15 to 150 refrigerators per hour. They include the automatic pre-dismantling line and the closed-system plant with shredding and separation of the individual fractions without adding liquid nitrogen. The ERDWICH range also includes thermal separation plants for foaming agents.

SYSTEMS FOR ELECTRICAL AND ELECTRONIC SCRAP METAL SWARF SYSTEMS

With its complete plant solutions, ERDWICH has also specialised in recovering valuable primary materials from electronic waste.

The recycling steps cover all the necessary processes.

These include the pre-sorting and selection of valuable primary materials, pollutant decontamination and gentle coarse shredding with material breakdown. Automated separation of the various fractions through to the ultra-fine separation of all the required processes is also a constituent part of ERDWICH solutions.

ERDWICH can supply both centralised and decentralised solutions for efficient swarf management based on decades of experience.

These solutions immediately lead to greater process reliability for the machine tool and lower transportation costs thanks to the higher bulk weight of the swarf waste.

At the same time, occupational safety is improved and personnel costs for swarf handling are significantly reduced.

SURROGATE FUEL SAMPLING SYSTEMS

Complex sampling processes are required before the production of surrogate fuels. ERDWICH has developed an automated, integrated system for this application. This system sets new standards in the areas of sampling and process reliability.

It covers all steps from sampling through shredding to a defined particle size through to the automated return of sample waste to the stove feeder system.

SYSTEMS FOR SPECIAL WASTE RECYCLING

ERDWICH system solutions range from simple shredding machinery for waste volume reduction through to complete turnkey facilities for shredding and sorting for further processing steps.

They can handle hospital waste, blister packaging, paint and varnish containers, filter dusts, laboratory chemicals and special waste in liquid and paste form. ERDWICH systems can also deal with potentially explosive waste in the form of aerosols and cans, as well as medicines and much more besides.

FURTHER SYSTEMS FROM A-Z

Tried-and-tested and mature technology is the basis for ongoing further developments of new plant solutions and applications.

Our number one priority is to design systems with maximum operating efficiency and use of energy which are tailor-made to the requirements and wishes of every single customer. This applies to both stationary and mobile solutions. Make the most of our long years of experience!

THE TEST CENTRE

YOUR TEST RUN
UNDER **REAL-WORLD**
CONDITIONS CREATES
A **SOUND INVESTMENT.**



Testing materials under real-world conditions, performing fine-tuning, exploring alternatives – that is the world of the ERDWICH Test Centre. For you as our customer, this results in a firm foundation for your investment decision.

The ERDWICH Test Centre gives you the full range of our product expertise: single-, two- and three-shaft shredders, coarse shredder, cardboard shredders and hammer mills. The test material can be tipped directly into the chosen machine. To optimise subsequent production quality test results, you can also choose from a broad spectrum of highly varied machine equipment. Pneumatic systems can be used to simulate material separation in individual components during testing, too.

Separate versions of machine controls mean that various running speeds are possible, and key parameters such as power consumption, pressure, reversing behaviour and many more besides can be documented to ensure process quality.

This lets us work with you to achieve optimum reporting on test results, which yields the decisive criteria for the ideal design of your machine or plant.

Video and photo documentation, films and test logs all play their part in generating ample evidence for reporting on individual test runs.



WORLDWIDE SERVICE

ERDWICH AND ITS PARTNERS ARE AT HOME IN MORE THAN 80 COUNTRIES.



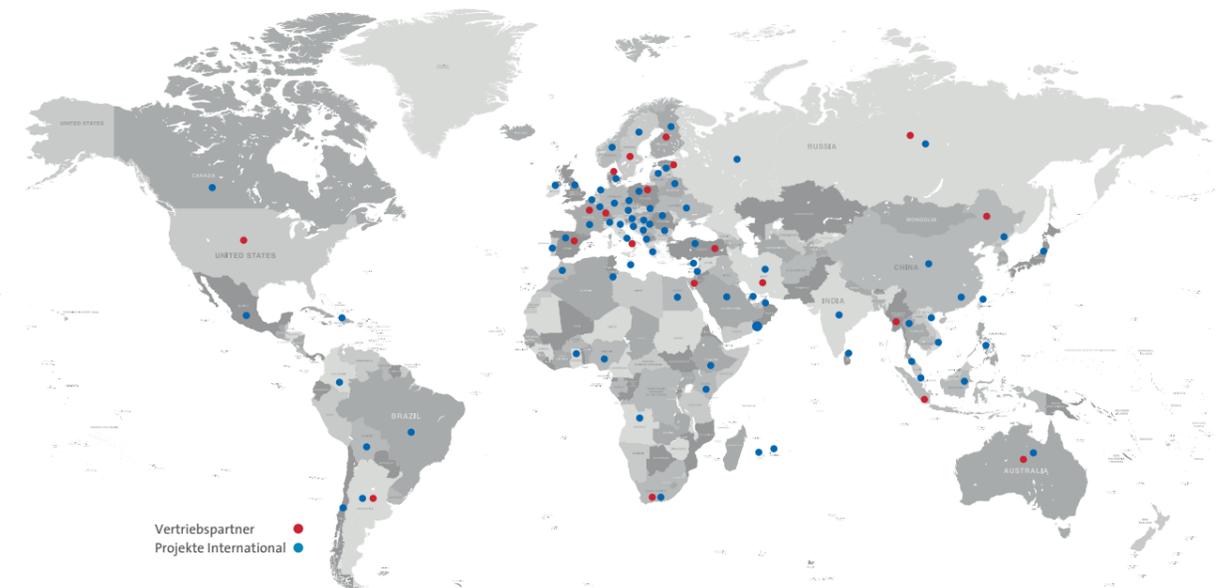
As a long-standing, successful manufacturer of machinery and plant, our own experience reminds us of the importance of sincere, high-quality and lasting service.

Whether factory approval, installation, commissioning or start-up support – we handle the details. Of course, our service also includes all test runs, training for your operating and servicing personnel, clearly intelligible operating instructions and spare parts catalogues.

Thanks to our rapid logistics network, our spare parts service is just as first-rate as our service technician support – available on site at short notice.

Our global partners have received intensive training and provide perfect on-site maintenance and service completely in tune with our corporate philosophy. ERDWICH machinery and plant do their best day in, day out, in more than 80 countries around the world.

ERDWICH Service.
When you need us, we're there – worldwide!



YOUR PROJECT IS IN SAFE HANDS WITH US.

Owner-managed with personal, dedicated consultation, short response times and a comprehensive service portfolio, we give you first-class quality „Made in Bavaria“.

We are ready to take on any challenge.

Are you?

Then just ask us and get to know our team.

WELCOME TO ERDWICH!

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