



INDUSTRIEVERBAND FEUERVERZINKEN E.V.
SPONSORING MEMBERS





Boliden is a metals company with a commitment to sustainable development. Our core competence is in the fields of exploration, mining, smelting and metals recycling. Our roots are Nordic, but our business is global.

Boliden has four mining areas and five smelters. Our main metals are zinc and copper and we also produce some lead, gold and silver and other by-products. Boliden's business concept is to extract minerals and produce high-quality metals in a cost-effective and environmentally friendly way, in order to meet the market's long-term demand for metals and create value for our shareholders. The operations are conducted in two Business Areas: Mines and Smelters. The number of employees is approximately 4,400.



SHG zinc (min. 99.995% Zn) is one of Boliden's core products. Boliden's zinc is produced by an electrolytic process in our world-class smelters in Kokkola, Finland and Odda, Norway. Our annual production exceeds 450 000 tonnes, making us the sixth biggest producer in the world. Boliden produces Zinc according to the EN 1170 standard and both of our Zinc brands, Kokkola Zinc SHG and Norzink Made in Norway are registered in the LME. In addition we produce Zinc alloys for the steel-, galvanizing- and die-casting-industry. All products are available in various shapes or forms, from 25 kg slabs up to 4t jumbos.

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Boliden's experienced technical support drives the development and production process of the metal and our Technical Consultant is ready to answer your questions with regards to your individual application of the product. Through reliable deliveries, high quality products and professional customer service, we want to be a long - term supplier of preferred choice and work with our customers for a more sustainable future.





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www.bottaro.org



IRON WIRE is at the heart of our experience.

Our slogan: “wired to our Customers needs”

Since 1956, Bottaro has been engaged exclusively in the production and transformation of wire rod - derivatives:

Black Annealed - Galvanized - Drawn - Steel Wire.
We have studied the right solution for all our customers' needs, whatever the clients do use.
We believe in providing the highest standards and can guarantee a committed and flexible service.

Browse through our website and find out more about our products, company and our passion for sport.
Stay wired.



Services to the customer: consultation, efficient handling of your enquiries, short delivery times, technical study with material analysis, after-sales service/ customer visits, delivery for complete supplies and also for small quantities, framework agreements.

Certified Company for production and sale of hanging iron wire: black annealed or galvanised Products: cut length wire from 200 to 6000 mm; coils; florist wire; diameter from 0,80 to 6,00 mm; steel strap

Priorities: quality, reliability, service



OHNE
ENERGIE

GEHT NIX ...



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Without energy, nothing happens

Founded in 2004 the team of 20 employees with two CEOs in the top management
Since 15 years we advice small and medium sized companies in all tax aspects.

We discover your refund and potential savings and put them into practice.

Our performance (bwh purchase and taxes)

1. analyze, reveal and show Potential savings and refund of energy tax
2. analyze of special processes in production
3. analyze of reduction of network charges
4. check of limiting and tax exemption possibilities
5. implementation of purchasing analysis

Our performance promise

Our compensation is based on our success.
During the entire process you have no financial risk

In addition we offer

6. energy efficient consulting and energy management (bwh audit)
7. implementation and evaluation of measurement points (bwh data)
8. charging stations for ebikes and ecars (bwh mobility)
9. energy infrastructure consulting for solar, LED, CHP, heat pump, infrared heating systems, renewable energy equipment, direct marketing, assistance for financial support (bwh infrastructure)



References

The collaboration with bwh stands out for know-how reliability and friendliness. It is a pleasure to work with this team.

Dietmar Heinz, MGH Guss Tec GmbH

Many thanks for the perfect collaboration. Always fast and with a lot of know-how the refund was made easy.
Martin Zieger, Quadrimex Sulfur Chemicals GmbH

Dear Hot-Dip Galvanizers, dear friends of „beautiful surfaces“,

The Chemische Fabrik Wocklum was founded in 1822 and has been active in the hot-dip galvanizing industry for decades. Optimizing various processes, together with customers, is our highest priority in order to guarantee perfect, environmentally friendly and sustainable galvanizing.



Therefore we offer an extensive service package:

Wocklum supplies:

Hydrochloric acid
Degreasing
Zinc chloride
Ammonium chloride
Flux
Passivation
Inhibitors
Pumps
Tubes

Wocklum disposes:

Iron-containing acid
Stripping bath
Mixed acids
Rinse water
Flux baths
Degreasing
Flue-gas dust
Filter tubes
Special wastes

Wocklum offers:

Analytics
Counselling pre-treatment
and after-treatment
Training
Transport and Logistics with
about 30 own tankers
Use of vacuum tankers
Asset labeling
24-hours-emergency service

Apart from shipments of all important components necessary for the pre- and after-treatment, we also dispose arising residual waste. Thus we close business cycles. This process generally occurs as a “voluntary return”, WITHOUT enormous bureaucratic effort. In addition to classical shipments and disposals we also advise and school, moreover we develop new methods and products together with our partners.

We target maximum supply, disposal and process security. An important basis for this kind of security is our own vehicle park with approximately 30 special trucks. Consequently we offer a widely extended flexibility regarding technical concerns and deadlines. To mention is our ability to carry out great actions in a short-term. On this base we certainly guarantee a 24-hours-emergency service seven days a week. Chemie Wocklum proudly presents a motivated team that stands for a customer-oriented “Full service package” for galvanizers.

We are looking forward to seeing you!



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Kluthe was established in 1950 and has its headquarters in Heidelberg, Germany. The family-owned enterprise, managed by Martin Kluthe, has nowadays 44 sites globally and approximately 700 employees. The annual turnover results to 220 Mio. Euros.

More than 80 specialists in our R&D department guarantee to the benefit of our clients to be always one step ahead our competition



Harmony in Chemistry

Chemicals are all around us.

The question is, how much is necessary and useful. The surface pretreatment with chemical technical products cannot be carried out with just a few standard products, nor should treatments, often consisting of several processes, be disregarded. This is where our process responsibility for integrated treatment processes comes into play – we determine the optimal product and process sequence and the best application type for you to achieve optimal efficiency and economic viability. Only the best performing product has the greatest potential to save costs.

Many hot dip galvanizing companies use raw materials for make-up and replenishment of their process baths. This incorporates risk regarding the surface quality of the processed parts, the process sequence and for productivity. The future of surface preparation and finishing of surfaces belongs to formulated chemical compositions, designed to fit tailor-made to customers' requirements. We develop individually designed formulations and products to optimize your processes and to meet the increasing demands of your customers. In order to facilitate a closed-loop material flow we are at your disposal for questions concerning recycling and disposal.

Welcome to DRIESCH Anlagentechnik GmbH

Founded in 1930, we are a 90-strong family business, now run by the third generation. For decades, we have been planning, manufacturing and installing plants worldwide for every type of pre-treatment and surface treatment, on every scale.

Our years of experience distinguish us. For our customers we are known for our above-average quality.

Our delivery spectrum includes e.g.

- Pickling
- Anodizing plants
- Electroplating plants
- Small parts galvanizing plants / centrifugal galvanizing plants
- Centrifuge plants
- Control cabinet and control system
- Host computer and PLC controls
- Container construction
- Pipeline construction
- Transport and conveyor technology (also robot-supported)



Together with our efficient partners, we also offer you:

- Supply and exhaust air technology including heat recovery
- Heating and cooling of processes
- Enclosure of facilities
- etc.

DRIESCH

Anlagentechnik GmbH

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www.driesch.de



Our very high manufacturing Level allows us a maximum of flexibility.

From planning through design, manufacture and assembly.

All from a single source!



How can we help you?

Visit us at www.driesch.de

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Customer Service

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www.helmut-fischer.com



Hard metal probe tips guarantee significantly longer product life, even when used on rough surfaces. With the convenient FISCHER DataCenter software, test results are easily transferred to a computer for evaluation, recording and storage, making it easy to fulfil future proof and documentation requirements for coating thickness measurements.

fischer

The internationally renowned Helmut Fischer GmbH Institut für Elektronik und Messtechnik specialises in high-precision measuring instruments for coating thickness measurement, material analysis, material testing and micro hardness determination. While research, development, and production are based at the company's headquarters in Sindelfingen near Stuttgart, Germany, FISCHER provides expert consultation, practical application advice and extensive service – worldwide, through local subsidiaries and distribution partners.



Especially for flexible, on-site applications in the field of hot dip galvanised coatings, FISCHER offers easy to maintain and robust measurement technology ranging from the compact and cost-effective MP0/MP0R gauges to the powerful FMP models with exchangeable probes.





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Visit our Homepage at
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Tested Round Steel Chains And Special Components as Slings in Galvanizing Plants

As traditional company, based in Sundern-Hövel, Germany, we manufacture round steel chains. Our tested sling chains are being successfully applied in galvanizing plants worldwide for feeding pickling and zinc baths.

We offer our round steel chains in grades 2 and 4 or made from austenitic or Duplex grades. For minimal remains of zinc on the chains we use specially selected steel melts only.

Given a particularly high persistence against hydrogen embrittlement, stress corrosion cracking, and intergranular corrosion, our continuously refined chains provide our customers with the highest safety standards.

Due to the most modern methods of heat treatment we ensure durable operating times.



Our Product Range for Galvanizing Plants:

- Durable Sling Chains
- Slings Approved acc. to BGR 150 and DGUV 109-004
- Sling Chains in Grades 2 and 4 acc. to EN818-5 and -6
- Special Custom-Built Products
- Hooks and Suspension Links
- Two and Three Dimensional Special Bent Wire Parts or Special Lifting Gear
- Stainless Steel Chains



Thermal engineering with system

In 1986 GEWA Wärmetechnische Anlagen GmbH was established as a heating and plumbing company in Lähden. Through continuous enhancement in the field of thermal engineering the company GEWA Wärmetechnische Anlagen GmbH now is one of the few system providers for all thermal components for the galvanizing industry. 22 employees are responsible for the design, construction, assembling and putting the plants into operation as well as the resulting synergy effects.



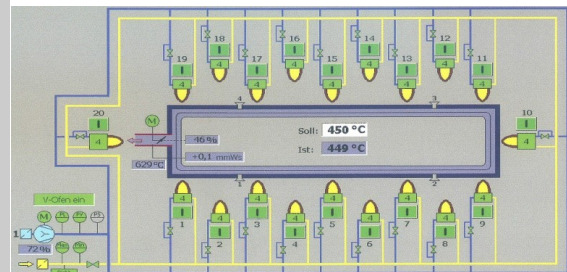
As a supplier of furnaces, provider of services and plant manufacturer GEWA Wärmetechnische Anlagen GmbH takes care of the organization and carrying out of all your work concerning thermal engineering and declared this as its business philosophy. Galvanizing furnaces, dryer, heat recovery systems, enclosures and heating systems for the pre-treatment tanks are custom made and designed in such a way that the efficiency and rentability is increased by improving the thermal overall efficiency.

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Additionally, as a supplier for the whole thermal engineering GEWA Wärmetechnische Anlagen GmbH offers services for the periodically necessary kettle change. To evaluate the necessity of a kettle change the wall thickness of the galvanizing kettle can be measured by modern ultrasonic technique. Furthermore, GEWA Wärmetechnische Anlagen GmbH is specialized in pumping the liquid zinc and temporarily store in special heating tanks. During the kettle change maintenance work on the galvanizing furnace can be done.

“By combining our activities as a supplier of all thermal engineering needed in a galvanizing plant, provider of services and plant manufacturer we continue to guarantee all our customers expertise and flexibility.”

Service makes the difference.





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We have a team of more than 75 people dedicated to:

- Equipment designing and engineering.
- Selection and purchasing of raw materials.
- In-house electrical engineering diagrams and writing.
- In-house software creation with wide flexible and best control of systems and quality.
- A clear, simple and user-friendly software interface.
- Critical parts assembly and testing, on-site assembly and start-up supervision.
- Technological process training, after sales service and maintenance.
- Technology research and tests.



Gimeco is an engineering and manufacturing company dedicated to the hot dip galvanizing industry. Founded in 1976, we are involved from the preliminary general layout to the final start-up; we can provide individual components through to a complete plant installation.

We are focused for continuous improvement and innovation to obtain:

- Higher productivity.
- A friendly working environment.
- Lower energies and raw material consumption.
- More fluid materials flow.
- Safer and improved handling of materials.

Our head office, which incorporates a warehouse and machine shop, is located near Milan, Italy. We offer improved quality control and availability of crucial spare parts, backed up with excellent after-sales service.

Our organization also includes:

- Gimeco USA: Branch Office located in Seattle (State of Washington).
- Gimeco China: Branch Office located in Guangzhou (Guangdong Province).
- Gimeco Deutschland: Branch Office located in Eschweiler (District of Aachen).

Gimeco Deutschland GmbH, located in Eschweiler (District of Aachen) was founded in late 2014 and has been operational since beginning of 2015. With a small, highly skilled team that has got many years of experience in the hot-dip galvanizing industry, all requested services for the local markets can be provided to the German-speaking customers (native language contact and support at all times, in technical as well as and commercial and administrative matters).

Beside the Branch Offices, Gimeco is also shareholder in companies focused on research in the field of hot dip galvanizing.

We have already delivered our equipment in more than 40 Countries around the world, helping more than 150 customers. We have supplied more than 100 complete new galvanizing lines (from degreasing to quenching) dedicated to batch hot dip galvanizing, round and squared pipes, lighting poles and transmission towers, guard rails, grates, water boilers, pipe fittings, profiles, nuts and bolts, etc.

grillo- handel

Wil-

helm Grillo Handelsgesellschaft mbH is a nonferrous (NF) metal trading company with worldwide activities. The company was founded in 1919 as a subsidiary of Aktiengesellschaft für Zinkindustrie, formerly Wilhelm Grillo.

In 1947 Wilhelm Grillo Handelsgesellschaft, under the leadership of Herbert Grillo, stood at the beginning of a longer period of establishing an international nonferrous metal trading business.

Our today's activities focus on the exchange traded metals zinc, copper, lead and tin. Beyond that we are trading in nickel and minor metals as well as secondary metals like remelted zinc, brass, gunmetals and bronzes, partly from own production in Tattendorf, Austria.

Trading program Zinc

SHG Zinc according to DIN EN 1179
in slabs and jumbos

| | |
|----|-------------|
| Z1 | 99,995 % Zn |
| Z2 | 99,99 % Zn |
| Z3 | 99,95 % Zn |

GOB – Zink accordy to DIN EN 1179
in slabs and jumbos

| | |
|----|-----------|
| Z5 | 98,5 % Zn |
|----|-----------|

Remelted Zinc

Zinc – Aluminium Alloys

Zinc residues / Zinc scraps

Hard spelter
Zincashes
Zinc top dross
Old zinc sheet scrap

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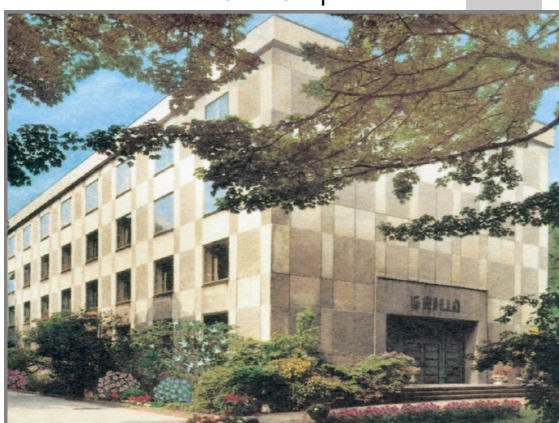
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Certificate: ISO 9001:2008
(waste management company)



☐ NF metals ☐ Secondary metals ☐ NF metal scrap ☐ Metal residues

grillo- handel

-  Zinc
-  Copper
-  Lead
-  Tin
-  Nickel
-  Aluminium
-  Minor metals

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Companies of the **GRILLO**-family

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www.guenther-metall.com

The most important target for us is that providers as well as customers are fully satisfied with our service. This is including, quality standards, latest updates from market information and prices and last but not least environmentally correct recycling of the material. Our philosophy is to convince our providers and customers with our high quality standards which are going further than the official regulations.

Due to our BimSchG certified re-melting plant we are guaranteeing to our providers a correct environmental recycling from their zinc residues.



For the transportation of zinc containing materials Günther Metall GmbH & Co. KG owns several containers with solid roofs, bixes and big bags.



Trading partner for zinc and zinc recycling

As your trading partner we buy and sell primary and secondary zinc as well as all residues containing zinc. Our service is including: highest environmental standards, latest update on market situation, free logistical service due to our own containers.



We are able to provide you with all customarily zinc products, for example SHG Zn 99,995%, secondary Zn, both in plates or jumbos, „Hüttenzink“ as well as Zn alloys (for example ZnAl 85/15) or Zinc Nickel alloys.

We are recycling all residues from hot dip galvanizing industry as hard Zn in all forms, and all treated and untreated Zn residues from the zinc bath.

As a professional recycling company in correspondence to EfbV we are obviously certified with the DIN EN ISO 9002.



Dipl.-Ing. Herwig GmbH – One step ahead in the galvanizing

Dipl. Ing. Herwig GmbH is a front runner in the galvanizing market; the company is one of the world's leading suppliers of chemicals and zinc alloys for the galvanizing industry. The company's personal involvement in this market ensures state-of-the-art research and development, comprehensive problem solving know-how, and the highest possible quality.

We develop new products for the galvanizing industry. Plan and build galvanizing plants, and hold numerous patents in this field.

Research, development and trade

Through our active membership in a wide variety of professional associations worldwide, we are committed to working in the best interests of the galvanizing industry.

In cooperation with international partner companies, we develop special zinc alloys, and chemicals of a quality that meets the very highest requirements. Specialist knowledge and the latest research findings acquired through the close contact with our customers can be successfully integrated in these processes.

Herwig worldwide

In the future we will be committing ourselves even more strongly to the international market, expanding, cultivating, and consolidating its global network of sales outlets and partner-ships. Thus we will be able to offer our customers greater flexibility and greater market transparency.

We show truly global presence. Being a proven specialist in the galvanizing sector, we are operating worldwide, providing a reliable technical consultation service and offering a broad spectrum of high quality products.

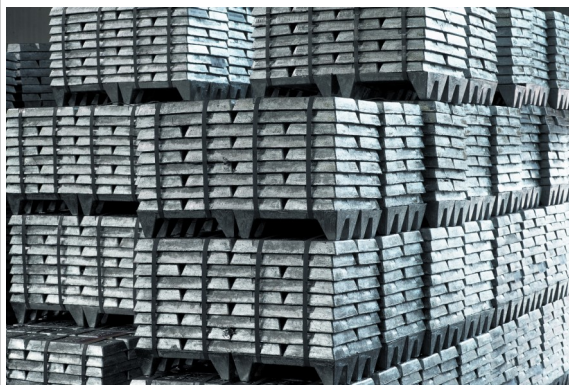
We support our customers through our worldwide network of agents and representatives. Customers all over the world have their own local contact partner – someone who can support them in their own national language, and with an understanding of the local mentality and conditions. The times needed to react to customers' requirements and questions can thus be kept to a minimum.

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Since May 2013, the certification body of the IfO is accredited according to EN 45011:1998 as a notified body for the following certifications

- Constructions and jobs according to Building Rules List A - Part I, 4.9.15 DAST-RiLi 022
- Monitoring of structures made of steel and aluminium according to EN 1090-2, EN 1090-3, DIN EN ISO 1461
- Certification of factory production control (system 2+) in the framework of the Construction Products Regulation
- EN 1090-1



The Institut für Oberflächentechnik ranks among the leading test laboratories in the field of surface technology. For our customers at home and abroad, we examine coating systems and monitor both the quality of production and as well as their products.



For certifications under the DAST RiLi 022 IfO is Europe's leading certification body and performs the annual audits of more than 170 hot-dip galvanizing companies.

The international cooperation with quality organizations and testing institutes requires a qualification. For a large number of analysis and testing procedures our institute in Schwäbisch Gmünd (Germany) holds an accreditation according to DIN EN ISO 17025. Our company is also acknowledged as an accredited test laboratory by the Deutsches Institut für Bautechnik in Berlin (German Institute for Construction Engineering, Berlin) and compiles both Ü-Zeichen (Ü-labels) and general construction-supervision test certificates, when using corrosion-resistant construction materials.

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Precise material flow planning and simulation

An optimal system concept requires the identification and harmonization of all process sequences. This happens ideally before the system goes into operation. In addition, INGENIA already uses an energy management system for small systems, which increases energy efficiency and protects the environment. This achieves maximum output and the best possible cost-benefit distribution

Summa summarum

A broad portfolio that makes INGENIA a reliable and competent partner with global vision.

INGENIA

asmag group

As a general contractor with selected partners, INGENIA has been building environmentally friendly, turnkey hot dip galvanizing plants or special plants of all sizes and requirements for over 15 years - worldwide

Success has several pillars

However, the Linz-based company can also call on nearly 40 years of know-how in hoisting, crane and conveyor technology. INGENIA plans and builds galvanizing shops with demand-oriented material logistics and intelligent automation, which ultimately creates the world's cleanest, most efficient and technically mature plants.



In - house technology centre

INGENIA tests prototypes, components and simulates production processes in its own 1,400 m2 technology center in order to have all the necessary information ready for later trouble-free production in advance. This enables a maximum of investment security. Also regarding the enrollment of the skilled workers, because this takes place also in the technology center.

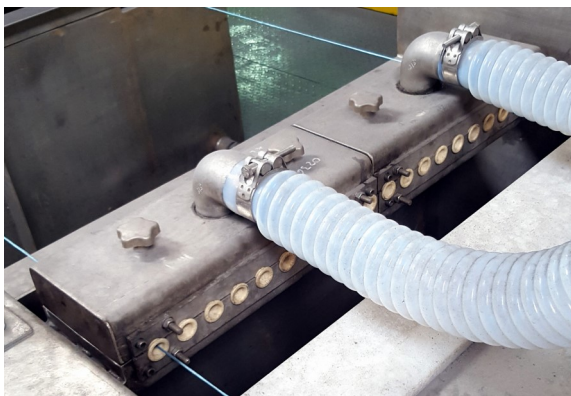


INGENIA – reliably better performance



Part of the product range:

- Chemical Pre-Treatment
- Zinc Dross Distilling Furnaces
- Steel Furnaces
- Ceramic Furnaces
- Galvanizing Machines
- Scraper Systems
- Drying Furnaces
- Annealing Furnaces
- Patent Furnaces
- Lead burning Baths
- and more...



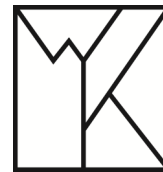
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Decades of experience in furnace construction combined with the know-how of Körner/Hagen.

In industrial applications, for the melting and smelting of metals, for glass processing, for process engineering or for thermal residue disposal, we engineer and build industrial furnace and firing plants and carry out repairs and modifications to such systems.

At the end of 2018, Zink Körner GmbH in Hagen and its affiliated companies unfortunately came to an end.



As a long-standing supplier of Zink Körner for specialised burner systems and exhaust gas heat exchangers and with over 30 years of experience in industrial furnace construction, we have secured and officially taken over the company's technical know-how as part of an asset deal. Also employees of Körner GmbH, with proven expertise in hot dip galvanizing technology, are now working for us.



We supply:

- The professional support of your existing hot dip galvanizing plants and peripheral equipment by our highly qualified service technicians (5 service locations in DE)
- High quality new hot dip galvanizing plants, completely and turnkey
- The optimization of existing plants with the focus on low fuel consumption, using our regenerative burner technology with a possible reduction in consumption of 30% and more



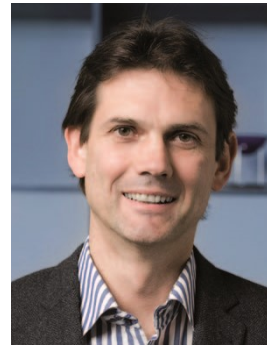
Koerner was founded more than 50 years ago in Austria. The company's headquarters are located in Wies, 30 km south of Graz in Styria and employs approx. 100 people.

The most important branch of the company's business since 1970 has been acid protection and the production of pickling tanks for the hot-dip galvanizing sector and other metal pickling plants.



Nowadays, Koerner is a plant construction company in special niche markets which supplies turnkey industrial facilities or parts of these facilities as General Contractor. As a result Koerner has integrated all the typical activities of an international plant constructor in its corporate organisation: international sales with a network of contacts and agencies throughout the world and a project management department which deals with and is responsible for all phases of the project from planning, production, delivery and installation to commissioning.

The facilities are based for the most part on the company's own Know-How.



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Pickling tanks produced by Koerner under the brand name of 'kvk' are exported to over 40 different countries and are in use on every continent.

Koerner's engineers set new standards with the development of the kvk pickling system, a completely encapsulated pickling plant which guarantees highly efficient pickling operation with optimum utilisation of the bath temperatures and which also meets all environmental requirements.



Koerner assembly teams are deployed worldwide and take over the task of erecting and commissioning these pickling plants. Koerner pickling plants complying with the kvk system are custom designed solutions and are therefore perfectly matched to our customers' requirements. Reference facilities in Europe, Middle East and Japan bear witness to the high level of acceptance and the confidence of the metal-processing industry in Koerner plants. Worldwide patents confirm the innovative potential of the Koerner pickling technology.



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LE()MA und Partner

Founded in 1999, more than 10 years of success in international projects.

Our team of engineers, chemists and process experts provide consultancy services for:

- technical projects relating to energy, water treatment and other resources in industrial processes
- resource savings
- environmental protection
- occupational health and safety
- optimizing industrial processes
- management systems (ISO 14.001, ISO 9.001, OHSAS, 50.001)
- Publicly licensed experts for water protection and emission control



Reliable, flexible and moving forward.

This is the motto of the independent and owner-operated international insurance broker LEUE & NILL in excess of 150 years. With more than 350 employees in field and indoor services the LEUE & NILL Group is one of the biggest companies in the German insurance broking branch. LEUE & NILL operates in all lines with industrial, SMEs and private clients.

With the leitmotif „no policy off the shelf“ the family-owned company runs for five generations until today. Specialists create customised insurance policies and individual risk management processes with the clients. At LEUE & NILL personal account managers are working together with the responsible departments who negotiate with insurers to assure insurance cover at the best possible rate.

As the only German member in the greatest international network of independent insurance brokers (ASSUREX Global) LEUE & NILL accompanies her clients to every place on earth where highly qualified assistance in insurances and risk management is needed.

On a personal and trustful basis the family company builds long-term relationships with their clients, business partners and employees.

Themed by the company's motto "Regional roots. At home worldwide." there is a lot more LEUE & NILL stands for.

- Founded in **1864**
- **Owner-operated family business**
- **Headquarter in Dortmund**
- **80 % commercial and industrial business**
- **More than 350 employees** for personal services
- **Assurex Global network supports multinational clients**

In addition to the performance as an insurance broker such as surveying risks and developing risk management concepts, annual assessments of policies and negotiations with insurers LEUE & NILL offers more services and consulting a conventional insurance broker stands for:



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- Development of technical and organisational loss prevention measures
- Assistance in fire, burglary and environmental protection
- Examination of Quality Supply and Liability Agreements as well as sales contracts
- Customised IT Motor Fleet Management
- Implementation of Crises and Recall Plans
- Insurance Due Diligence for Mergers & Acquisitions
- Alternative Risk Transfer and Financing
- Risk Management Workshops for client's personnel

Pre and Post Treatment for Hot Dip Galvanizing

As one of the world's leading specialty chemical companies, MacDermid offers a comprehensive range of field-proven products for the Pretreatment of metal surfaces. Our goal is not only to offer a wide range of products, but also to understand the short and long-term needs of our customers and tailor the metal preparation process to his particular requirements.



After galvanizing MacDermid Hydroclear provides a unique protective surface for the freshly galvanized parts, eliminating wet staining and maintaining the bright finish of the parts. The water based Hydroclear is applied by a simple immersion operation followed by air drying.

Our long experience of Hot Dip Galvanizing leads to continuously improved products and benefits for your production.



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Although our products work over a wide range of operating parameters we understand the uniqueness of each pretreatment plant and we are able to modify and adapt our processes to provide individual solutions for any application. However individual this solution may be, MacDermid provides products that are production proven, working from the very first bath fill without long and risky experimental phases and offering simple handling and low process costs.

MacDermid offers products specifically developed for the pre and post treatment of Hot Dip Galvanizing. These products cover the requirements for effective cleaning, acid pickling and the protection of the freshly galvanized surface. Alkaline or acid cleaners effectively prepare the metal surface prior to acid pickling, removing oils, greases and paints even on rusty and scaled parts. Highly effective inhibitor additives are available for the acid pickling stage, providing a constant pickling rate, lowering acid consumption and giving a long bath lifetime.



Nyrstar was created in 2007 by combining the zinc smelting and alloying operations of Zinifex (an Australian mining company) and Umicore (a Belgian materials technology company). Whilst we are a relatively young company, most of our operations have long operating histories under previous owners and operators.



Today, Nyrstar is a global multi-metals business, with a market leading position in zinc and lead, and growing positions in other base and precious metals, which are essential resources that are fuelling the rapid urbanisation and industrialisation of our changing world.

Nyrstar has mining, smelting, and other operations located in Europe, the Americas and Australia and employs approximately 5,000 people. Nyrstar is incorporated in Belgium and has its corporate office in Switzerland. Nyrstar is listed on Euronext Brussels under the symbol NYR.

Nyrstar is a leading manufacturer of galvanizing alloys such as for example Technigalva® ZnNi0.5%, Technigalva Plus® ZnNi0.5%Bi0.15% or Technigalva Light® ZnNi0.15% and many more. With our galvanizing alloys, Nyrstar and its predecessors have established long-term and deep rooted relationships with the European galvanizing community.

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Health & Safety plays a pivotal role in our daily operations. Our Health & Safety vision is to provide a work environment where all potential hazards are effectively identified and controlled, and where each employee takes responsibility for their own safety and that of their colleagues. To this end we work pro-actively towards creating a workplace where everyone goes home safe and healthy every day.



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**Innovations of the product series SLODIP
for the field of Hot Dip Galvanizing are:**

- alkaline and acidic degreasing systems
- pickle degreasers with inhibitors for hydrochloric pickles
- passivations and sealants for sustainable appearance after galvanizing

Memberships:

ZVO, DGO, ZOG, DSV, Industrieverband Feuerverzinken e.V.,

**In Tune With Chemistry !**

Plant construction, process chemicals from own R&D and extensive services – with Schlötter you get it all from one single source !

Dr.-Ing. Max Schlötter GmbH & Co. KG is one of the leading specialist companies for electroplating technology.

With app. 750 products in the field of the electroplating technology and now also for Hot Dip Galvanizing we cover a wide range of customers requirements. Furthermore, we realize individual wishes with our plant construction – from reconstruction to turnkey production lines.

Profound research and our 100 % quality control guarantees highest process security in all areas. Testing of electrolyte samples, technical support on site and an extensive warehousing allows a delivery within 24 hours throughout Germany – these are only a few service activities our customers can rely on.

As the Schlötter Group of Companies we ensure together with our subsidiaries in Europe and Asia that our products are available worldwide.



In 1873 blacksmith Ludwig Lüling and Wilhelm Pilling, the proprietor of a restaurant, founded W. Pilling & Co.

The metalworking company started its successful story by supplying the local wire industry with annealing pots, water wheels and similar products.

In the year 2000 Pilling built a new production site for galvanizing kettles in Ihlow-Riepe in the north of Germany in order to supply the growing global demand.



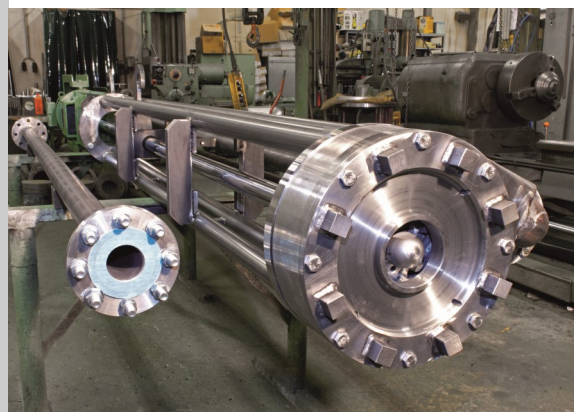
Our scope of products includes

- galvanizing kettles and auxiliary equipment,
- melting pots for zinc and other metals,
- zinc pumping and holding services,
- in-situ kettle wall-thickness tests (USI) of filled galvanizing kettles at operating temperature,
- pumps and agitators for zinc and other nonferrous metals and salts,
- ancillary components for heat treatment furnaces such as annealing bells, muffles, retorts and crucibles and
- a wide range of steel constructions such as cross-beams, stairs and parts/casings for industrial furnaces.

Since 2010 the steel construction company Ruhrtaler Stahl- und Behälterbau GmbH & Co. KG (RSB) in Dortmund is part of the Pilling group.

Finally, Wilhelm Dietermann GmbH, a reputable manufacturer of molten metal pumps, joined the Pilling group as its youngest member in 2012.

In more than 135 years the original black smith company W. Pilling & Co. developed into a world-wide operating industrial enterprise employing today more than 140 people and supplying customers in more than a hundred countries in the world.



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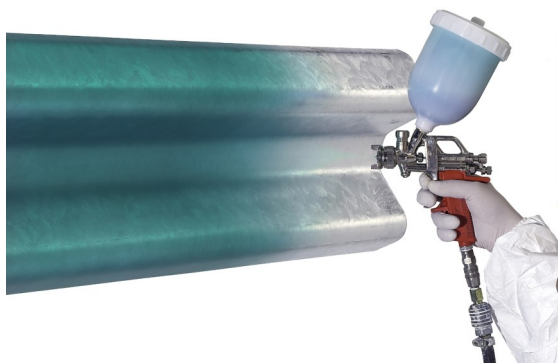
Company Profile

ProCoat Tecnologías is a Spanish Chemical Company based in Barcelona area with more than 40 years of experience in metal Surface Treatments. We were the first company, at least in Europe, who designed chemical treatments for metal surfaces based on acrylic resins (Film Forming treatments) and it was a great innovation on 1972 versus traditional inorganic treatments. Our own Technology is well known around the world under the registered brandname of:

ProCoat supplies different Chemical Treatments to manufacture high added value galvanized products. We introduce innovative **BRUGAL®** solutions from the coil to all the other markets, such as:

BRUGAL® GALVAPAS® Series are passivation products for galvanized parts specially designed to delay white rust appearance using the current dipping equipment in shop galvanizing plants. At the same time these passivations keep the galvanized surface bright and shiny for longer periods of time. The galvanized products can be also safely stored outdoor. With the Cr3+ series we have even experienced better corrosion protection than current Cr6+ passivations.

BRUGALCOLOR® is a worldwide innovative solution applied by gun for galvanized steel based on a Film Forming Coating. It has been specially designed to offer a new coloured but transparent aesthetic appearance to galvanized parts.



Several colours are available, like green, olive green, blue, black, gold, brown, ...

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Location in Spain

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Spain



The colourless version of **BRUGALCOLOR®** allows to passivate galvanized parts on special situations where no dipping passivation can be used : when no cooling tank is available at the galvanizing plant, when parts are formed with several elements and different thickness and when parts are welded and have a heavy thermal mass (high thickness).



Besides all this, ProCoat also offers a complete set of special chemicals, with an extended experience in the market, which optimizes the degreasing, pickling and flux processes with high reduction in residues.

And, for **Duplex Systems**:

BRUGAL® GALVATREAT® is a Cr free Pre-treatment prior to paint for galvanized parts specially designed to obtain a Top Quality in Duplex System.



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RAM Engineering + Anlagenbau GmbH:
Technical competence for zinc coating industry

RAM is an international engineering service supplier with 100 experts and 40 years track record on the field of innovative solutions and technical consulting services for its clients.

Our expertise in plant engineering and construction is the base for long term partnerships with clients of different industrial sectors, including zinc coating industry.

For the development of modern and innovative apparatus we apply latest scientific findings and technologies to secure the highest international benchmark of our products. We develop and optimize our products in terms of resource prevention, cost reduction and optimizing zinc coating processes. We solely adopt best available technical components



Refurbishment of flux: Our flux recycling-plant De-Iron-Unit

Our patented De-Iron-Unit for de-ironing of flux offers the most efficient technology on the market.

RAM exclusively applies baffle plate thickener for liquid solid separation of settleable, ferrous solids and flux. This gravimetric liquid solid separation does not need additional pumping or filtration. The applied chamber filter press solely only dries the slurry without needless re-filtering of the liquid phase.

The continuous separation process of the De-Iron-Unit results in a place-saving layout. The "more" in technical apparatus and innovative process technology leads to a "less" in operational costs, maintenance and manual operation. Although the De-Iron-Unit consists of innovative and efficient technology, the purchase price is that low that it offers best in class return on investment.

We also offer de-ironing services with our mobile De-Iron-Units!



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ReiColor Chemie-GmbH was founded in Nürnberg in 1977. During the last 40 years it has developed to an international operating business company. Our core competence are paints and lacquers for ferrous and non-ferrous metals, formulations for surface treating and specialty technical-ly chemical products.



Especially to mention are our corrosion protection coating materials, based on solvents as well as on water, partly with corresponding manufacturer's certificates.

Coating systems for hot dip galvanised steel parts also reach remarkable production volumes.



Chemische- und Lackfabrik

FARBEN
Oberflächentechnik
LACKE

Besides the production and storage facility in Altdorf near Nürnberg, ReiColor supports an efficiently innovative development division under experienced management.

Quality management and certification according to DIN EN ISO 9001:2008 have successfully supported our product safety for many years.

We also yearly offer apprenticeship training positions to encourage professional junior staff.

The support service of our numerous customers is arranged by a professional field crew system, assisted by the inhouse application engineering.



ReiColor offers his customers high-quality products for individual and complete solutions that either are available from stock or are manufactured object-relatedly for special application cases.



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Benefits of Rezinal zinc:

- available in blocks of 25 kg (1 ton bundle) and jumbo blocks of 1 ton;
- ecological: Rezinal nv tries to find the most ecological production technology. Thus, the energy and water consumption during zinc recycling is significantly lower than when manufacturing primary zinc from ores. Rezinal nv also wishes to set good example in terms of CO2 emissions.
- it is more economical than primary zinc manufactured from ores.



Rezinal nv from Belgium is the trendsetter in sustainable recycling

It transforms zinc sheets, crude zinc skimmings from hot-dip galvanisers and other zinc-containing materials into high-quality secondary zinc. Rezinal has its industrial operations in Zolder, Belgium and serves a global worldwide customer base.

Rezinal nv is a world leader in zinc recycling. Our efficient production process enables us to produce secondary zinc of the highest quality, apart from by-products such as fine zinc ashes and zinc bottom dross. The secondary zinc and by-products are used in high-value applications, such as brass production, hot-dip galvanising and zinc oxide production.



Rezinal nv processes the zinc skimmings generated during hot-dip galvanising of steel structures, steel wire and steel pipes. We are a major player in the zinc bottom dross market and upgrade zinc bottom dross into new raw materials for the zinc-processing industry.

Rezinal nv recycles zinc skimmings and zinc scrap to zinc metal in two different qualities: Rezinal 1 (min. 98.5 % Zn) and Rezinal 2 (min. 98 % Zn). Rezinal nv offers the most suitable quality, according to the application.

Feel free to visit our website www.rezinal.be for further information about our activities. You can also follow us on Twitter (@Rezinal_nv), Facebook and LinkedIn.

Material handling systems for hot dip galvanizing plants

Scheffer Krantechnik is a supplier for cranes and conveying systems for the hot dip galvanizing industry. Starting with jiggging and unjigging stations, Scheffer Krantechnik delivers chain conveyers and manual driven cranes up to complete fully automatically running hot dip galvanizing plants including material flow planning, layout design and real time simulation.



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The customers appreciate our top performance that comes from the extensive engineering expertise predominant in our company. That means that our customers not only have our hardware expertise, but also in electrical engineering, control technology and automation. That's Scheffer Krantechnik stand-alone feature.





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From its founding 1920 as a family trading house for chemical products, a modern company network has come into being. Trading in chemicals and the production of intermediary and special products for industry and commercial enterprises is now our business.

During a development phase we give you comprehensive advice, analyze your requirement profile and formulate custom-built, intelligent solutions in accordance with your demands. All our experienced sales personnel are well trained in the branch and will give on-site advice. To accomplish this we work together with specialists from our development department. The mature quality management complies with the highest requirements in all branches.

The STOCKMEIER GROUP continues to grow into a global player for standard chemical products as well as specialties for numerous industries. At our locations in Europe and overseas, we develop, produce, and distribute superior products out of one Hand.

Along the way we consistently use modern technology. A certified quality management and over 1300 trained employees guarantee a consistently high level of quality.



Products for the HOT DIP GALVANIZING INDUSTRY:

Complete product range for pre and post treatment, e.g. pre cleaners, degreasers (acid or alkaline based), pickling additives (e.g. inhibitors), fluxes and additives, defoamers, zinc cleaners, post treatment products, acids, lye, powder and special chemicals

Registered trademarks: LERACLEN® / LERA-BILT® / LERATENS® / LERAPAS®

Own production, research and development

Services: Analysis, consulting and training, product development



The company is a leading international supplier of a wide range of basic chemicals, innovative inorganic specialty chemicals and high-performance coating systems. The production facilities are located in Mannheim and Hagen, Germany and San Luis Potosí, México. TIB Chemicals has more than 350 highly qualified employees who draw on the company's over 130 years of experience and accumulated expertise. Currently they produce and process more than 400,000 tonnes of chemicals and generate revenues of about 150 million euros a year.



Zinc Chloride products from TIB Chemicals have been proven for decades, mainly in the chemical industry. They are used for example for the production of bactericides, fungicides, plastic stabilizers, zinc carboxylate and much more. We produce zinc chloride powder and solution in concentrations from 35 % to 65 %. We take into account customers' individual requirements when-ever possible.

Our zinc chloride is also the basis material for the production of our flux product range. These fluxes are mainly used for the pretreatment of steel surfaces prior to hot dip galvanizing. They are also used for soldering and welding of various metals. Our portfolio for galvanizing fluxes are of different materials. In addition, we offer the recycling of spent flux baths and the utilization of zinc filter dust, zinc ashes and zinc-rich stripping solution.



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With direct access to the harbor and our large capacity storage tanks in Mannheim, we are able to store ship parts 30-33% hydrochloric acid to bring you this in tankers or rail tank cars to be delivered in the shortest possible time.





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Our range of services includes:

- Pre-treatment tank
- Enclosure and exhaustion of the plant
- Acid management
- Assembly
- Commissioning
- Refurbishment
- Maintenance

We are growing steadily with the requirements of the market - The Weber Group employs a staff of more than 500 people in total.

We use synergy effects cross company and promote the development of our products and services together.



From the idea to success

On 01/10/1967 the foundation for the company, which is nowadays globally operating, was laid - Weber Kunststofftechnik was founded by Gerhard Weber in Minden (Westphalia). Today, our family business is in its second generation. The start of plastics processing was the production of plastic tanks in composite design as well the realisation of GRP coatings.

Since the start of business, renowned companies of all industry sectors are among our customers. A few years after the foundation of the company, the product range was enlarged – from then on, thermoplastic materials were processed as well.



Today, after more than 40 years of existence, we, as a manufacturer of plastic tanks and devices for storing chemicals and handling aggressive media, are qualified due to innovative products and established on the market.

More than 3,000 tons of plastic sheets per year are processed in our factories. Therefore, we are one of the largest manufacturers of thermoplastic tanks and accessories in Europe. The Gerhard Weber Kunststoff-Verarbeitung GmbH is the parent company of the Weber Group which comprises 7 companies in total.

By constantly cooperating with our customers, we plan and work out the individual tank solutions for the different process stages in the pretreatment line. Our tanks are used for example as bath containers for degreasing, chemical stripping, acid cleaning, flushing, flux or post-treatment.

