

**WORLDWIDE PARTNER OF THE  
RAILWAY INDUSTRY**



# ON TRACK FOR YOUR SUCCESS



The global railway network is long enough to travel to the moon and back twice! This impressive length demonstrates how our world is linked together by rail-based vehicles. These dimensions clearly illustrate the demand for advanced, environmentally responsible, safe and comfortable mobility and for fast, efficient transportation of people and cargo.

With our products and services, we ensure that our customers all over the world can meet the increasingly complex requirements in the global railway industry. Based on 120 years of experience, we provide support for your success with outstanding quality, the highest degree of precision and the best service, and by moving into the digitalization of important processes, we are already creating the technologies of the future!



*Sebastian Kanz*  
Managing Director (CFO)

*Dr. Hans-Jürgen Munding*  
Managing Director (CEO)

*Dr.-Ing. Martin Niederkrüger*  
Managing Director (CTO)





The world is becoming smaller, markets are becoming more complex and more transparent, competition more dynamic. Also in the railway industry, you and your modern company are confronted with global responsibilities and you must face new challenges every day.

Here you can trust the Goldschmidt Thermit Group, the leading provider of products and services for the construction, repair, modernization and intelligent, predictive maintenance of railway tracks. Over 120 years of experience, great quality consciousness and the passion of a global network that is always growing make the Goldschmidt Thermit Group your worldwide partner of the railway industry.

## **OUR MISSION**

BETTER RAILWAY TRACKS,  
HIGHER COMFORT, GREATER SAFETY.

PAGE 4/5

## **YOUR COMPLETE PACKAGE**

EVERYTHING FOR YOUR TRACKS.

PAGE 6/7

## **BENEFITS AND PORTFOLIO**

CONSTRUCTION, MODERNIZATION, MAINTENANCE.

PAGE 8/9

## **THE FUTURE IS DIGITAL**

DARI® DIGITAL CONNECTED.

PAGE 10/11

## **GOLDSCHMIDT WORLDWIDE**

THINK GLOBALLY, ACT LOCALLY.

PAGE 12/13

## **A FUTURE WITH TRADITION**

OUR ROOTS, OUR ASPIRATIONS.

PAGE 14/15

# FOR THE BEST RAILWAY TRACKS ...



The most advanced and future-oriented technologies make it possible: Greater cost-effectiveness and increasing earnings for you and your customers, greater safety and last, but not least, the best traveling comfort possible on rails – these are the parameters and goals that motivate us and our work every day.





## OUR MISSION: YOUR SUCCESS

The invention of the THERMIT® process for continuously welded tracks in 1895 started the success story of our patented technology, which has lasted to this day, and which has driven the development of rail-based transport forward ever since. This advanced experience in the railway sector guarantees you the highest degree of quality and the best service. In addition to this expertise, our complete services for the entire railway industry as well as our innovative, sustainable ideas for advanced technologies with digital interfaces in all key processes make us your number one choice.

For this reason, the Goldschmidt Thermit Group is already developing the digital construction site of the future, both together with and for our customers. In doing so, we are again setting impressive and pioneering standards within the history of railway construction.

# ... WORLDWIDE!

# FOR A LONG SERVICE LIFE OF YOUR TRACKS

RAIL JOINING

RAIL SERVICES

MEASUREMENT

TOOLS & MACHINES

EQUIPMENT

Take advantage of a product portfolio designed to meet your needs exactly! For new construction, maintenance or modernization – you can rely on our experience and successfully extend the lifecycle of your high quality railways.





## YOUR SUCCESS IS OUR BUSINESS

Whether for high-speed, cargo, heavy haul, tram or underground: as a worldwide recognized and proven supplier, we offer products and services to meet every railway need in the areas of Rail Joining, Rail Services, Measurement, Tools and Machines, and Equipment. This way you get the best for your tracks from a single supplier and always state of the art. Many patented innovations demonstrate that the continuous development of existing as well as new products and services for railway track systems of all types form the foundation of our shared success.

In this way, taking pioneering steps into the digital construction site is the logical consequence of our dedication to research and development. In the future, more and more processes and tools will be connected so that they can communicate intelligently with each other to achieve the highest degree of precision, quality, efficiency and comfort in new construction and maintenance. Take advantage of this expanded, unique product and service portfolio for greater safety, reliability and availability for your tracks and discover new potential for added value together with us by digitalizing work processes in all facets of the railway infrastructure.



# THE INNOVATION LEADER WELCOMES YOU

**Because the companies of our globally operating group are networked, the resulting worldwide strength enables us to offer all of our products everywhere, adjusted precisely to country-specific requirements.**

## AN OVERVIEW OF YOUR BENEFITS WITH GOLDSCHMIDT

### WHAT

- » 120 years of experience and development
- » Guaranteed quality, thanks to certified international standards
- » Our own innovation department with activities in research and development
- » Continuous product optimization and quality inspection
- » Continually expanding product portfolio
- » Our own expertise in digitalization

### HOW

- » A strong, global service network
- » Experienced and appreciated internationally
- » Global positioning, regional action
- » Everything from a single source across the entire lifecycle of your tracks
- » Customized training/seminars, highly professional consultation
- » Continual, consistent and respectful cooperation







## RAIL JOINING

- » THERMIT® welding processes for flat bottom rails, grooved rails and crane rails including all consumables and equipment
- » Insulated rail joints for all common rail profiles

## RAIL SERVICES

- » Joint welding of tracks and switches (THERMIT® welding, arc welding)
- » Intelligent predictive maintenance of rails and switches
  - Maintenance and repair welding
  - Grinding services
  - Measurement services
- » Grinding Technology
- » Weld tempering of new rails
- » Ballast stabilization and sleeper rehabilitation

## MEASUREMENT AND INSPECTION TECHNOLOGY

- » Measurement devices and services for
  - Track and switch geometry, longitudinal track profile, rail cross profile
  - Rail tension, rail defects, rail temperature
  - Wheel measurement
- » Eddy current and ultrasonic inspection technology

## TOOLS & MACHINES

- » Machines for track construction and maintenance
- » Special tools for THERMIT® welding
- » Power units (petrol, diesel, electric)
- » Road-rail vehicles for installation, inspection and maintenance of overhead lines, inspection of bridges and tunnels, heavy duty cranes and flash butt-welding machines

## EQUIPMENT

- » Rail lubrication
- » Magnetic barrier
- » Switch heating
- » and many more



# DARI<sup>®</sup>

## DIGITAL CONNECTED

**New standards for quality, reliability, transparency and efficiency place increasing requirements on the construction and maintenance of modern railways every day.**

### **DISCOVER THE NEW DIMENSIONS OF THE TRACK CONSTRUCTION SITE**

The digitalization of work processes has become indispensable on the track construction site. In the course of our digital product initiative GOLDSCHMIDT GOES DIGITAL we have further developed our ideas and solutions into a digital network of intelligent devices: **DARI<sup>®</sup> BY GOLDSCHMIDT.**

Our database solution DARI<sup>®</sup> – Data Acquisition for Rail Infrastructure – enables us to make our products smarter and more effective and your track construction projects sustainable, more efficient and safer. Our modern, high performance stand-alone solutions create a digital network of intelligent products with completely new advantages and added value for your track construction site. All DARI<sup>®</sup> compatible products from Goldschmidt which in future will include many of these new functions, are still conveniently using the GOLDSCHMIDT DIGITAL APP.

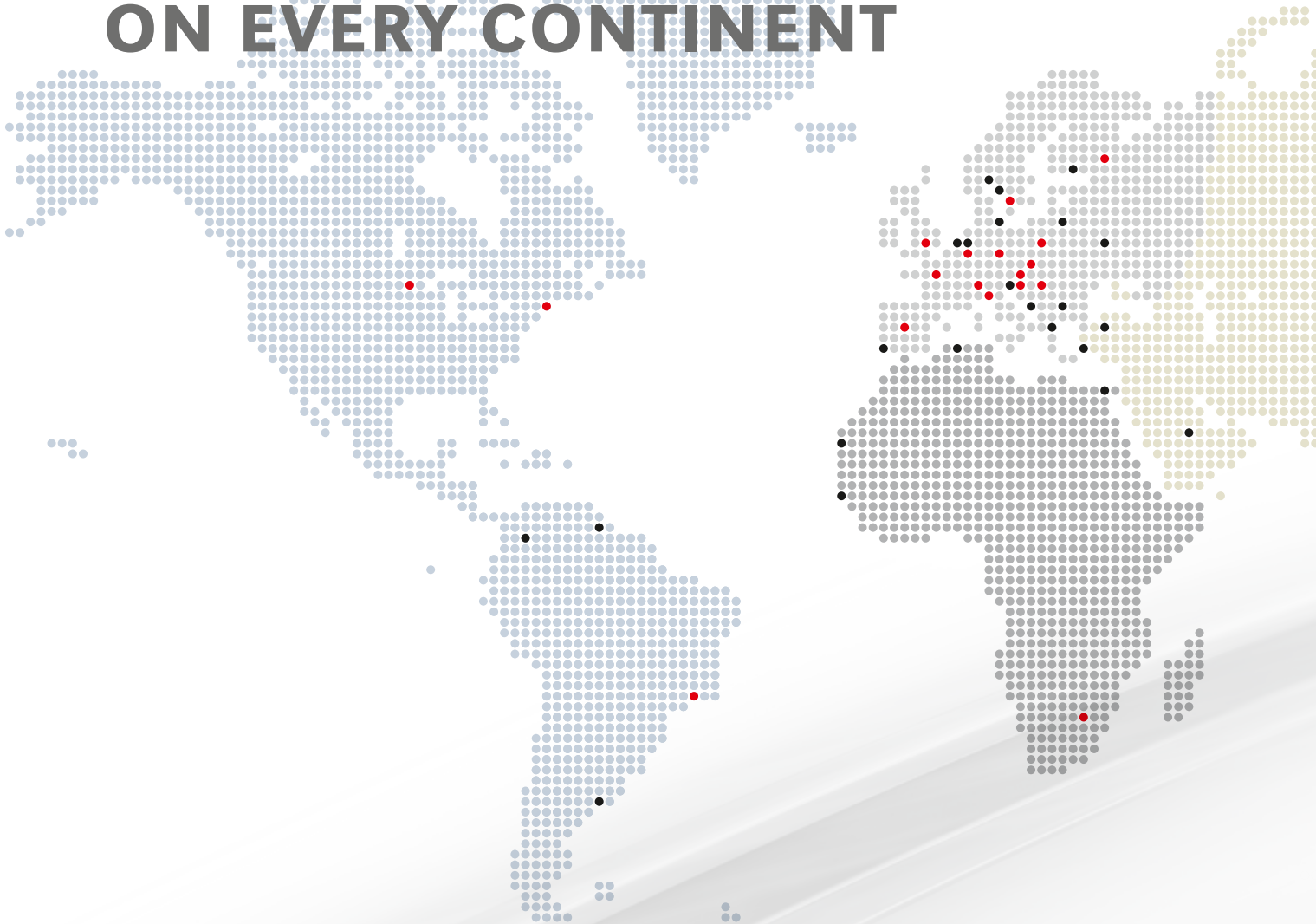
- » DARI<sup>®</sup> centrally archives work and measurement data in real time.
- » Linked measurement and control data allow immediate forecasts and automated inspection processes.
- » Intelligently linked devices create a globally accessible network of knowledge and key figures.
- » The always available track history, the “life story for the track”, enables a predictive supervision for tracks which are subject to intensive maintenance.

VISIONARY IDEAS NEED POWERFUL SOLUTIONS:  
**DARI® BY GOLDSCHMIDT.**

**DARI®** – Data Acquisition for Rail Infrastructure – enables us to make our products smarter, more effective and sustainable. GOLDSCHMIDT has therefore taken the next logical step and combines a collection of **modern, high performance stand-alone solutions** into a **digital network consisting of intelligent products.**

This innovative edge, based on the future-oriented technology of **DARI®**, is the special and unique added value offered by our GOLDSCHMIDT products. Experience the new dimensions of the track construction site. With **DARI® BY GOLDSCHMIDT.**

# A STRONG PRESENCE ON EVERY CONTINENT



## ❖ EUROPE

**Elektro-Thermit GmbH & Co. KG**  
Germany, Halle (Saale)

**Form-Thermit spol s.r.o.**  
Czech Republic, Brno

**Goldschmidt Thermit GmbH**  
**Oficina Ibérica**  
Spain, Madrid

**Goldschmidt Thermit Polska Sp. z o.o.**  
Poland, Toruń

**Goldschmidt Thermit  
Railservice GmbH**  
Germany, Leipzig/Essen

**Goldschmidt Thermit Railservice  
(France) Sarl**  
France, Saint-Ouen-l'Aumône

**Goldschmidt Thermit Railservice  
(Österreich) GmbH**  
Austria, Vienna

**Goldschmidt Thermit Railservice  
(Switzerland) GmbH**  
Switzerland, Zürich

**GRAW Sp. z o.o.**  
Poland, Gliwice

**GT-ATS OOO**  
Russia, St. Petersburg

**MÁV-THERMIT Kft.**  
Hungary, Erd

**PLR Prüftechnik  
Linke & Rühle GmbH**  
Germany, Magdeburg

**SRS Sjölanders AB**  
Sweden, Osby

**Thermit Italiana s.r.l.**  
Italy, Rho Milano

**Thermit Welding (GB) Ltd.**  
Great Britain, Rainham/Derby





As a reliable, innovative, global partner of railway operators and the rail industry, we work together with our customers to master all of the challenges of a modern and networked rail based transportation infrastructure. You benefit from our global presence and the efficient cooperation of our group companies.

We have 1,200 employees at 24 locations who ensure that your rail operations are safe, reliable and cost-effective. With the Goldschmidt Thermit Group on your side you will experience our 120 years of expertise and the knowledge of a strong group that takes action both locally and globally.

The rail industry is undergoing change, markets are developing and merging together, and everything is happening at a breathtaking pace – these are the challenges of globalization. Our response is cooperation between dynamic companies: The companies of the Goldschmidt Thermit Group are market leaders in their respective regions – and they make this continuously growing group to your number one choice.

**Think globally, act locally.**

**AMERICA**

Orgo-Thermit, Inc.  
USA, Manchester

PortaCo, Inc.  
USA, Moorhead

Thermit do Brasil Ind. e Com. Ltda.  
Brazil, Rio de Janeiro

**AFRICA**

Thermitrex (Pty) Ltd.  
South Africa, Boksburg East

**ASIA**

Goldschmidt-Thermit Japan Co., Ltd.  
Japan, Tokyo

Thermit China Co. Ltd.  
China, Kunshan

**AUSTRALIA, OCEANIA,  
SOUTH EAST ASIA**

Thermit Australia Pty. Ltd.  
Australia, Somersby/Clontarf

Thermit New Zealand Ltd.  
New Zealand, Wanganui

Worldwide partners



# FROM CONTINUOUSLY WELDED TRACK TO CONTINUOUS DOCUMENTATION

## THE FUTURE IS OUR TRADITION

The imperial patent of 1895 and the THERMIT<sup>®</sup> process for continuously welded tracks was the foundation stone laid by the Th. Goldschmidt AG at the time for the success story of our company, which continues today and which we have been rewriting every day since then with continually new ideas and innovative products and technologies.

In the future, the Goldschmidt Thermit Group will continue to see itself as a driver of innovation in the industry. Building on the experience and successes of the past, we are creating the future of track construction sites, and along with this, the future of all rail related construction, modernization and maintenance processes. With our products and services, our transformational ideas, our continuing curiosity regarding anything new, and the absolute will to provide expert support for our customers, we remain completely in the spirit of our tradition: Goldschmidt Thermit Group – worldwide partner of the railway industry.

1895

TODAY

*Prof. Hans Goldschmidt Imperial patent no. 96317*



*Precision measuring device with digital interface*



*THERMIT<sup>®</sup> welding in Graz, before 1914*



*THERMIT<sup>®</sup> welding in 2016*



*Digital construction site*





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