

## Press release

### High technology for railway networks and rails – digitalization is driving innovation at Goldschmidt Thermit Group at InnoTrans 2016

Berlin/Leipzig, 20.09.2016: The Leipzig [Goldschmidt Thermit Group](#) is pushing the digitalization of work processes and will present numerous new developments at the [InnoTrans 2016](#) in Berlin, the leading trade fair for the railway industry. Under the motto "GOLDSCHMIDT GOES DIGITAL", the global leader in the area of joint welding and maintenance and repair of rail systems will focus on high technology solutions using Industry 4.0 to allow the highest precision, reliability and speed for work in the field.

"Modern standards governing quality, safety, transparency and efficiency are constantly setting higher requirements for the construction and maintenance of modern railway lines. We are a pioneer for the digitalization of work processes in the service of our customers. We offer modern and efficient solutions which enable customers to organize their processes with greater safety and efficiency and simplify their complete working process", explains Dr. Hans-Jürgen Mundinger, CEO of the Goldschmidt Thermit Group. "The digital networking, control and monitoring of devices, processes and production results at the construction site represents an enormous leap forwards in terms of quality and productivity. Industry 4.0 has become a reality for us. It contributes towards increasing customer satisfaction and cost effectiveness through the highly efficient use of human resources and materials."

#### Overview of the new developments:

The GOLDSCHMIDT DIGITAL APP enables the automated recording and editing of data in real time. The app allows the monitoring of highly complex processes at the construction site with practically just one finger. Customers of the Goldschmidt Thermit Group can use the app to conveniently and securely record, check, document, compare and archive relevant measurement data and process parameters directly on their smartphone or tablet. In this way intelligent control units with a digital interface sustainably improve the quality of the welding processes on the track and safety of rail operations. The implementation of these digital systems in the welding process enables convenient and reliable direct access to databases with reference values for numerous types of welding processes. The app is suitable for installation on all smartphones or tablets which run on an Android system.

The new SMARTWELD RECORD for the intelligent monitoring and documentation of the preheating process of the THERMIT® weld with the aid of the GOLDSCHMIDT DIGITAL APP enables the documentation of the complete welding process including traceability and reproducibility of the THERMIT® weld. Using SMARTWELD RECORD the preheating parameters for the THERMIT® weld are recorded and documented via the GOLDSCHMIDT DIGITAL APP. The subsequent process steps are prescribed and recorded in a user-friendly and error-free manner for the responsible welder. The result is the ideal use of welding materials and correct execution of the process to achieve a high quality weld. The process parameters can be centrally saved and evaluated using the GOLDSCHMIDT DIGITAL APP. The SMARTWELD RECORD contributes towards documentation of the high quality of the weld.

The innovative SMARTWELD JET propane air burner further automates the preheating process of the THERMIT® weld and ensures the highest safety, economy and quality of the weld. The burner works without compressed oxygen, automates the preheating and thus guarantees error-free and safe work processes. The economy of the welding activities is increased through lower costs and reduced weight

due to the elimination of oxygen bottles and also by the avoidance of execution errors and the generation of documentation of the complete welding process on site using the GOLDSCHMIDT DIGITAL APP. The SMARTWELD JET ensures secure and reproducible execution of the preheating process to guarantee the highest quality for the weld.

TRACKSAFE LUBE, the Goldschmidt lubrication system for improving the wheel/rail contact, has now been connected to a new intelligent control unit. Connected via Bluetooth, the unit enables control of TRACKSAFE LUBE via mobile devices and connection to the GOLDSCHMIDT DIGITAL APP. This in turn enables the receiving of data and parameters on the device status and saving and export of data and statistics including the dosing settings of the lubricant with the possibility of a quick status query and configuration on site with the setting and receiving of warnings on critical parameters.

The RAILSTRAIGHT precision measurement devices with the variants COMPACT, WAVE and DUAL allow for the highly precise measurement of the straightness and surface quality of rails and local corrugation of the tracks. They are connected to the GOLDSCHMIDT DIGITAL APP via Bluetooth. In addition to the high precision achieved using a micro-magnetic measurement process, the devices also impress through their robust design suitable for use on railway tracks with high mobility, a high-performance internal lithium ion rechargeable battery and automatic calibration at 30 second intervals.

In the area of Goldschmidt Tools, the company will present the newly developed RAIL DRILL RD 330 P. It is one of the lightest machines on the market and allows the efficient drilling of holes in rail webs with flat bottom and grooved rails. The rail drill RD 330 P is driven by a powerful petrol engine and enables the shortest of drilling times. It has a patented quick clamp device which allows it to be set up and released in no time at all. Its light weight and ideal center of gravity make it easy to handle.

### **About the Goldschmidt Thermit Group**

The Goldschmidt Thermit Group is a worldwide leader in the area of joint welding and the servicing and maintenance of rail systems. The roots of the company go back to the invention of the Thermit® process by Prof. Hans Goldschmidt at the end of the 19th century. Today the Goldschmidt Thermit Group consists of over 20 medium-sized individual companies which serve the international growth market for rail infrastructure. The company has approx. 1000 employees and maintains an international network of production and service locations. In 2015 the group achieved a consolidated turnover of more than 135 million euros.

Further information in the internet is available at [www.goldschmidt-thermit.com](http://www.goldschmidt-thermit.com).

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