



GOLDSCHMIDT

Smart Rail Solutions



MAGNETIC TRACK SAFETY

In cooperation with



RAIL SAFETY SYSTEMS



TRACK SAFETY MADE EASY CHANGING HARD WORK INTO SMART WORK

Our innovative magnetic track safety barrier consists of just two components. It can be installed and dismantled easily and quickly, ensuring maximum efficiency.

Our solution is easy to use and versatile. It is ideal for track construction sites, including around switches and 3rd rails. It also provides additional safety for the safety guard and enables the installation of signals for temporary speed limits. Our system also effectively prevents the crossing of tracks in railway stations. Find out the reliability and user-friendliness of our system for yourself.



OUR SYSTEM IS APPLIED ALL OVER THE WORLD



TRACKSAFE BARRIER

MAGNETIC TRACK SAFETY BARRIER

FOR ABSOLUTE SAFETY DURING

TRACK WORK AND MAINTENANCE

The Tracksafe Barrier from Goldschmidt guarantees absolute safety during track work. The patented magnetic safety barrier can be installed and dismantled quickly and easily without having to remove the ballast. The fixed barrier always remains securely in place on the track, even in high-speed areas. A separate kit has been developed for the switch sections of tracks. Of course, the standard product can be extended with additional components to increase the protection area upwards or downwards (e.g. in curves or during excavation work).

TECHNICAL DATA

SPECIFICATIONS

- A stanchion made of galvanised steel equipped with a neodymium magnet
- Weight of the stanchion: 8.0 kg
- Weight of the fibreglass handrail tube: 4.0 kg
- Fibreglass tube with a length of 3 m and a diameter of 48 mm
- Fibreglass tube with bayonet coupling
- Coloured plastic tube in various colours
- Complies with the European standard EN 16704-2-2, Safety measures during track construction work: General solutions and technology – Requirements for barriers
- TÜV-approved

BENEFITS

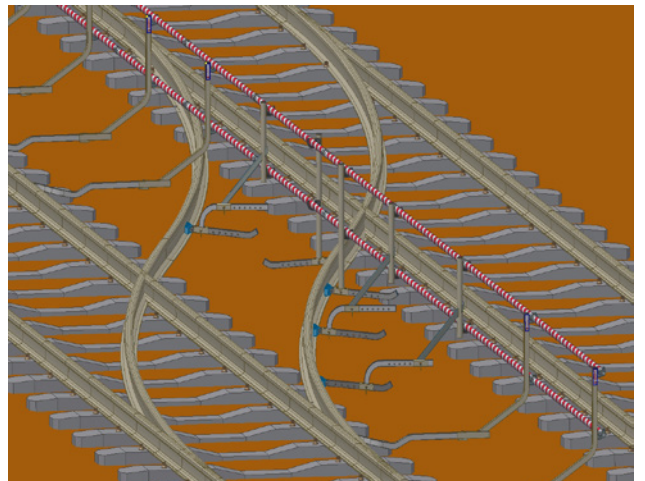
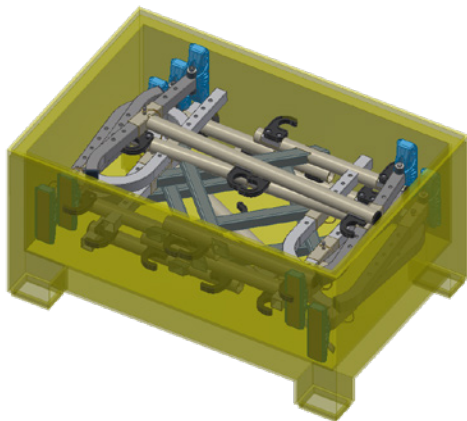
- Installation and dismantling up to 20 times faster than with other systems
- Increased worker safety, as it is impossible to accidentally step onto the neighbouring track
- Cost and time savings
- Fewer delays and disruptions to railway operations
- No damage of the ballast bed.
- Simple, efficient and safe storage and transport



SWITCH KIT



The switch kit has been specially developed for installing the fixed barrier within the switch sections of tracks. The clamping brackets can be rotated from -45 degrees to +45 degrees. It consists of 10 stanchions and 20 fibre-glass tubes. This covers a track length of 30 meters. Generally switch sections stretch 60 meters. Therefore one will need 2 switch kits.





USE OF THE 3RD RAIL SAFETY BARRIERS

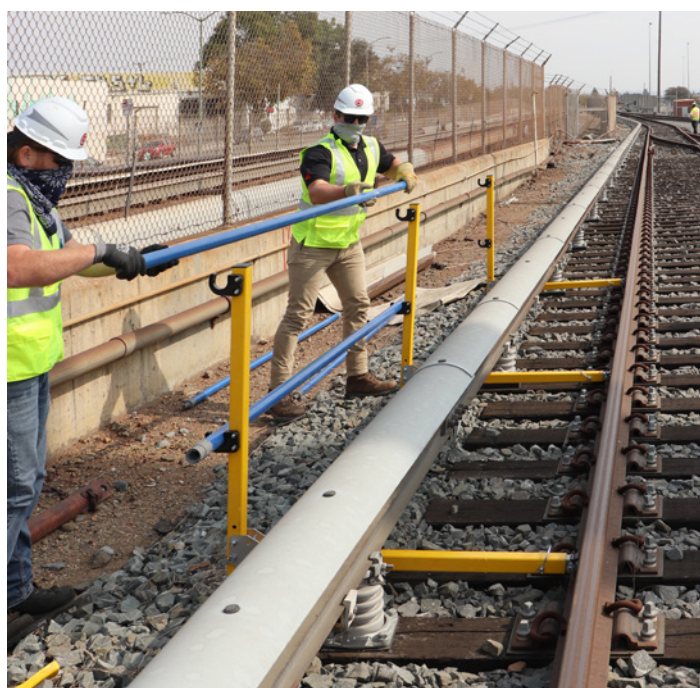
The stanchions can be quickly and easily dismantled using a locking pin. This enables installation under the 3rd rail. The components are made of insulated materials. It is also possible to integrate a third handrail tube to prevent people from passing through even more effectively. This is particularly important in track curves or on elevated tracks.



FIXED PARTITION WALLS IN THE RAILWAY STATION

Traveller's safety in railway stations is a top priority. To prevent people from illegally crossing the tracks track safety barriers can also be used as fixed/permanent partitions. These innovative partitions consist of three handrail tubes. Our track tests have shown that the system remains stable even at train speeds of up to 250 km/h. With the Tracksafe Barrier, railway stations can be made safer and accidents can be avoided.





TSR BOARD

MAGNETIC STANCHION FOR THE QUICK INSTALLATION OF RAILWAY SIGNS

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With the TSR Board from Goldschmidt, slow speed signals for temporary speed limits as well as sound and light signals can be installed quickly and easily – whether on track construction sites, in railway stations or marshalling yards. The product offers all the advantages of the magnetic track safety barriers. The patented fastening system uses magnets that enables quick installation and removal without having to remove the ballast. The TSR Board always remains securely attached to the track, even at high train speeds.

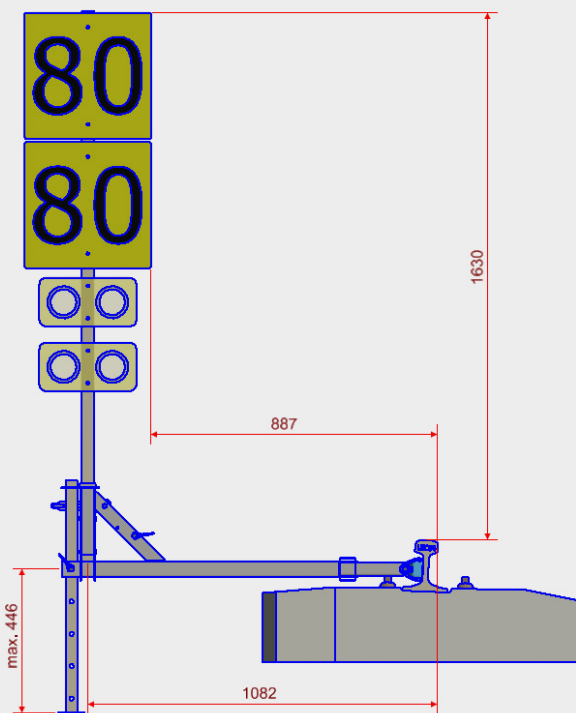
TECHNICAL DATA

SPECIFICATIONEN

- Horizontal stanchion with two durable neodymium magnets
- Vertical aluminium mast with pre-drilled holes for attaching signs, lights etc.
- The horizontal and vertical bars can be separated
- The components are made of galvanized steel.
- Weight of the sign stanchion: 14 kg
- One magnet can withstand a pulling force of 600 kg
- The lower support bar has an extendable support base to adapt to the different ballast beds heights
- Optional locking clamp with padlock to prevent theft

BENEFITS

- Much quicker and easier installation and dismantling than any other system
- Railway workers are only in the danger zone for a very short period of time. This significantly increases worker safety
- Cost and time savings
- No interference or damaging of the ballast bed
- Simple, efficient and safe product storage and transport
- Product approval from Network Rail (PA05/05982)



WE ARE GOLDSCHMIDT

The Goldschmidt success story begins with the invention of the Thermit® welding process which today still defines the worldwide standard for the welding of rails. A global company group was established based on this expertise and passion for innovation which together with you will shape the rail-bound mobility of tomorrow.



FINDING SOLUTIONS TO BRING YOU FORWARD

Goldschmidt is a unique global network of experts for your railway track requirements and develops smart applications for the railway industry which are exactly matched to your requirements, ranging from the Original Thermit® portion to our digital Dari® products and systems.

Customers on all continents trust in the excellent quality, first-class engineering expertise and proven reliability of Goldschmidt, with the trams of the European transport companies running on the same know-how as the high-speed trains in China. Goldschmidt is your strong partner when it comes to the future-oriented planning and practical development of solutions for railway infrastructure projects according to your respective national requirements with local implementation.



SMART RAIL SOLUTIONS

Goldschmidt offers a comprehensive range of products and services worldwide for the joining of rails, modern construction of railway track, and inspection and maintenance of your track infrastructure:

**Original Thermit® • Insulated Rail Joints • Welding
Grinding • Inspection • Tools & Equipment
Road-Rail Vehicles • Digital Solutions**



SMART RAIL SOLUTIONS

Together with you, Goldschmidt masters the challenges of modern, railbound mobility – for safe, sustainable and long-lasting railways of premium quality. As with Thermit®, Goldschmidt is also a pioneer in maintenance, inspection and digitalization and continues to improve processes and extend the lifecycle of railway infrastructure. Goldschmidt benefits from its global expertise and cross-disciplinary thinking to create tailor-made local solutions for you. The global presence of Goldschmidt gives you access to its whole portfolio – with one goal: to lead your railway infrastructure into the future.