

BUILD ON RAILWAY EXCELLENCE

**YOUR
SLEEPER PLANT
ON DEMAND**





RAIL.ONE – THE WAY TO GO

In track-based transport, the name RAIL.ONE stands for innovation, experience, and reliability. Our tailored solutions for passenger and freight transport as well as for construction of sleeper factories, make progress highly evident in Germany, Europe, and around the world. And where do you want to go with us?



WE EXPORT TURNKEY KNOW-HOW

On railway tracks people, freight, and raw materials reach their destinations faster and more reliably than ever before. New rail networks are being built everywhere to interconnect cities, countries, and continents. The basis of any successful transport-infrastructure project is always the quality of component production – it decides cost effectiveness and sustainability early, during the initial project phase. Factory construction by RAIL.ONE exports to the entire world the experience of one of the leading providers of concrete sleepers and rail track systems – always tailored exactly to the requirements of its customers. In addition to the highest standards of technology, logistics, and quality, one additional key factor systematically belongs to the basic outfitting of all sleeper plants by RAIL.ONE: decades of leadership in competence – Engineered by RAIL.ONE.



RAIL.ONE IS CLOSE TO YOU – WORLDWIDE

AMERICA, ASIA, ARABIA:

RAIL.ONE is always on the scene, even far away from Europe. The company, after all, is represented with large-scale projects in all time and climate zones – for passenger as well as freight transport. In the construction of factory production facilities, this not only means short paths, but also assures that specific national standards, requirements, and regulations are embedded from the start in plant operations. On the basis of long years of global activities, RAIL.ONE enjoys the benefits of experience – from which its customers directly profit. As early as the planning phase of a RAIL.ONE factory, regional purchasing and logistics knowledge is used, in addition to development and production know-how, to assure maximum efficiency. Whatever sleeper type, system, axle load, or top train speed – and whatever the subgrade or the climate conditions – RAIL.ONE has already paved the way.

CITY, COUNTRY, LOAD

Effective mass rapid transit makes it comfortable to move around in a pulsating metropolis. High-speed rail lines make the exhausting trips of yesterday into pleasant day trips. Heavy-haul transport supplies factories with resources, even at the most remote sites. Just as the railroad opened up the New World in the United States by connecting the East to the West Coast, it opens our world today in all directions of the compass, city by city, continent by continent. And wherever rail lines are built, advanced factories are required to serve growing infrastructure requirements. RAIL.ONE offers solutions for the entire spectrum of railway transport and implements its expertise in every newly founded production site. As a result, plant operators directly profit from RAIL.ONE experience from the countless transport-infrastructure projects.







DESIGNED FOR YOUR NEEDS

TIMETABLE FOR THE FUTURE

Beginning already in the planning phase of a production plant, RAIL.ONE employs insights gained in countless projects and makes good use of its total adaptability: ballasted or ballastless tracks, passenger or freight traffic, main-track or turnout sleepers – and small, large, or even twin production facilities. With standardized concepts for all assigned objectives, requirements, and all climatic as well as geological conditions, we make the factories a calculated success already before the cornerstone is laid. The individual conceptions of our customers are restricted here only by the limits of feasibility. Our production plants can be economically adapted to the existing infrastructure of the region. They can be constructed on undeveloped sites or in existing factory halls – and they are tailored exactly to the wishes of the customer with respect to scope of services, output, production processes, and degree of automation.

GET READY, GET SET, PRODUCTION!

Major international projects frequently demand fast reaction times. Facilities often must be put in place within a very narrow window, and they must take full account of external conditions. They are required to satisfy country-specific standards and, above all, must function reliably at the highest level. With RAIL.ONE, customers can trust a partner that knows the overall conditions in a great number of areas. Under consideration of the infrastructure, the terrain, and the resources available, we provide consulting on site selection and create concepts for raw-materials, warehousing, and product logistics. In addition, we implement made-to-order quality management and support our customers in obtaining official approval of the sleepers produced. From signature of the agreement to production: RAIL.ONE provides a reliable timetable to success.



3 ... 2 ... 1 ... YOURS!

RAIL.ONE offers three standardized production processes that are individually adapted and optimized according to the needs of the customer. With full consideration of regional concrete quality, human-resources costs, and the requested capacity, RAIL.ONE provides tailored solutions for all expectations.

LATE DEMOULDING IN THE CAROUSEL SYSTEM

Top quality, low costs, simple operation: this classical process in sleeper production is characterized – even under the most difficult of conditions – by outstanding productivity with minimal costs. The production process can output between 350 and 800 sleepers per shift, depending on the degree of automation. Individually matched concepts guarantee great productivity here and still offer a maximum of adaptation flexibility. This allows flexible and fast integration of various sleeper types and their accommodation to the respective demand.

- Great flexibility
- Extensive diversity of types
- High productivity levels





LATE DEMOULDING ON A LONG-LINE SYSTEM

This production process enables production of around 300 sleepers per day per production line. The moulds are arranged here in lines of over 100 m length. Turnout sleepers can also be produced by this long-line prestressing bed process, with lengths of 80 up to 100 m.

- Demand-driven production
- Maximum compatibility with rail-fastening components
- Best quality

IMMEDIATE DEMOULDING WITH POST-TENSIONING

This process is characterized by low investment and add-on costs, since only one small number of moulds is necessary. New forms can be likewise integrated very quickly into the production process.

- Great flexibility
- Extensive diversity of types
- Low investment and add-on costs



PERFORMANCE DRIVEN BY EXPERTISE

The strengths of RAIL.ONE are based on its products and on its production processes. We are the only manufacturer to offer four different production processes. With our high degree of automation, we are well prepared for all challenges.

PRODUCTION FACILITIES BY TRUE PROS

During the construction phase for new production facilities, RAIL.ONE emphasizes safety and speed: we can very quickly erect new factories at many sites of the world. The time from signature of agreement to plant commissioning takes just five to nine months, depending on extent and equipping of the factory. But even for work under time pressure, the thoroughness is never neglected that has for decades made RAIL.ONE a proven partner of numerous large railway companies. Throughout the world our production plants bear the European CE standard mark, which also means that they conform to the strict health and safety guidelines of the European Union.

PRODUCTION TAKES OFF

Consulting and support by RAIL.ONE enables a key advantage in start-up of your plant: each of our highly professional staff has at least ten years of experience in the production of main-track and turnout sleepers. Our specialists start your production and check the manufacturing processes and the overall plant in every detail. We begin already in the test phase here with the optimization and adaptation to the customer's wishes. We remain not only supportive at the side of our customer, but also apply our empirical values on a proactive basis for the fine-tuning of the production facilities.



NO ONE NOTICES THE BEST SPARE PARTS

Even under conditions of top-quality implementation, the need for spare parts cannot be eliminated in complex and sophisticated plant systems. Our international contacts enable us to develop spare-parts concepts that guarantee effectively functional production at all times. Selected and globally active manufacturers deliver all components and therefore guarantee international availability within the strictest of deadlines. Indeed: assurance of smooth process activities is something we – and our customers – can take for granted.



YOU CAN ALWAYS COUNT ON GERMAN EFFICIENCY



WHEN PREJUDICES GUARANTEE QUALITY

If there is positive prejudice about German companies – widespread pre-conceptions that we gladly confirm by our work on a daily basis – then it also includes our efficiency and the top quality of our products. Our quality control assures that processes and products not only stay at the highest level, but also that they are continuously improved. And since our focus is likewise on customer satisfaction and individual consulting in quality management as well, we adapt our QM measures to the special requirements of our customers. With our proven system, customers handsomely profit from our international quality leadership.

RECOGNIZING THE DETAILS THAT IMPROVE THE WHOLE PROCESS

A proverb states that a chain is only as strong as its weakest link. RAIL.ONE accepts responsibility for vigilance at any possible weak points in the process chain – and for continual improvement of all production procedures. Our process-optimization tools systematically analyse every area in the raw-materials, production, and logistics chain. We offer solution approaches and ensure that cost efficiency, throughput times, cost effectiveness, and productivity are optimized day by day.

TRAINING MAKES PERFECT

Success at RAIL.ONE was always the fruit of the efforts of outstandingly well trained, creative, and highly motivated staff. Our customers profit from the professional know-how and the experience of these experts: in a new production plant, they take over the individual training of production staff and employees in key positions. In this way we effectively support our customer's team in the critical start-up phase. With this training and supervision from our specialists, the factory will from day one onward be operated by staff that is marked by efficiency, sustainability, and quality in the tradition of RAIL.ONE.



RAIL.ONE – YOUR ONE-STOP PROVIDER

We offer a broad portfolio of products and services involving all aspects of railways and infrastructure, tailored to individual requirements.



RAILWAYS



For construction of track systems and for upgrading of existing rail lines, RAIL.ONE develops track solutions individually matched to the customer's requirements: and RAIL.ONE offers all these services on a one-stop basis. In the field of high-speed railways, patented RHEDA 2000® ballastless track technology has already achieved an internationally leading position. RHEDA 2000® has developed into standard technology for mainline routes with high-speed transport and heavy-haul conditions. In the classical market segment for monoblock sleepers as well, RAIL.ONE offers a unique product portfolio for all requirements.

URBAN TRANSIT



Underground, surface, and tram rapid transit not only relieves metropolitan areas from the burdens of private vehicle traffic and assures tolerable living conditions in residential regions: it also contributes appreciably to reduction of emissions and energy consumption. For track installation on concrete, ballast, or asphalt, RAIL.ONE offers high-performance and reliable railway systems that are optimally integrated into their surroundings.

FREIGHT AND HEAVY-HAUL



With high energy prices and increased demand for raw materials, freight and heavy-haul railway transport has assumed a key function in intermodal competition. For these exceptional demands placed on track technology, RAIL.ONE has developed special concrete sleepers designed for static axle loads up to more than 40 metric tonnes.

ENGINEERING



Requirements placed on the cost effectiveness of advanced track systems have become more demanding: engineering innovations are expected to assure the quality and the productivity of the overall system. Low maintenance expense and reduction of life-cycle costs will become increasingly important. For planning of all solutions for rail lines – whether at grade, over bridges, or in tunnels – RAIL.ONE engineers effectively adapt overall track design to local requirements: from the design development phase up to detailed planning.

SLEEPER PLANTS



RAIL.ONE specialists in plant engineering have transferred decades of experience in the manufacturing of concrete sleepers to all time and climate zones of the world – on a turnkey basis and exactly tailored to your wishes and requirements. As a result: a plant from RAIL.ONE also means a solid investment in the future.



