

WILLBRANDT

Rubber, Vibration & Sealing
for Railway



WILLBRANDT
GUMMITECHNIK

125 YEARS ANNIVERSARY WILLBRANDT GUMMITEKNIK

For more than 25 years WILLBRANDT and partners have been well-known suppliers to the railway industry of rubber and rubber-to-metal parts for the bogie as well as parts for the power pack and sealings for the car body.

WILLBRANDT group supplies parts and components to all the major railway actors, especially in Scandinavia, Baltic states and Germany. WILLBRANDT DENMARK works closely together with our departments in Hanover, Berlin and Hamburg, who provide service and stock locally in Germany. Our area managers have extensive knowledge of the unique requirements for the various trains and bogies.

In cooperation with our partners and an extensive development program, we have a wide product range enabling us to supply most of the products needed in the market e.g., air springs from GMT, Contitech and Toyo. We store a wide range of products in Denmark for swift delivery, thereby enabling our customers to reduce their inventory.

WILLBRANDT handles overhaul, assembly and testing of air spring systems.

The following pages contain examples of some of the parts and solutions, WILLBRANDT supplies to the railway industry or workshops in Europe.



1) Rod with bushes



2) Lateral buffer



3) Conical suspension spring



4) Air spring system



Air bellow



Rolling rubber spring



Chevron spring



Chevron axle springs



Wedge couple



Frame support



Rubber block for wheel



Spherical bearing



Parts for the power pack

Due to vibrations occurring during operation at various points on trains and locomotives especially at the engine frame/power pack it is not possible to have rigid connections. We offer:

- Expansion joints for the connection of water or exhaust gas pipes
- Bellows for air intake
- Pleated hoses/spiral hoses as robust extensions for the connection of pipes subject to pressure or vacuum

- Bends for engines / drives for tight, short connections
- Clamps to mount the hoses
- Belts

Depending on application, different qualities and materials can be processed for the inner tube and outer covering. In additions to these products we supply vibration mounts.



Clamp for cooling hose or expansion joint



Compensator expansion joint



90° elbow silicone hose



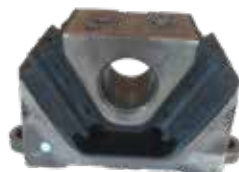
Cavoflex shock wire mount



Silicone cooling hose with PTFE inner layer



Engine mount



Aggregate bearing



Rubber expansion joint & heat cover

Assembly & production

The air spring system is a vital component in vibration dampening, ensuring comfort for passengers. WILLBRANDT supplies various solutions and has taken steps to lower the energy and time cost of providing air spring systems by offering all services related to assembly, repair and replacement.

We press in and out bushings and spherical bearings of rods and housings. Our experts also handle all testing and documentation to ensure optimal performance.

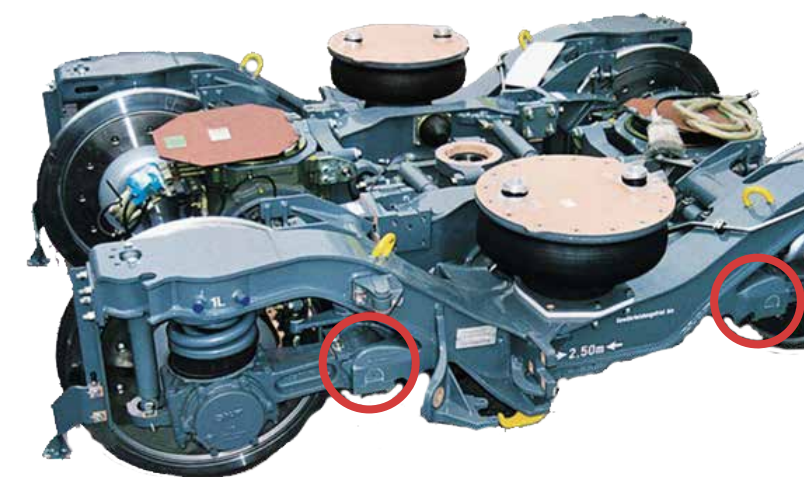


Hydrall®

Hydrall® is an axle guide bush (Hydro bearing) from GMT.

The axle guide bush reduces wear and tear of wheels and tracks/rails. It reduces noise and energy consumption, as well as saving money on repairs and maintenance.

Hydrall® runs in several trains, e.g. type FLIRT.





Rubber profiles & sealings for doors, windows, boxes and floor

We can make your sealing profile from a small sample or drawing according to the newest standards as EN 45545-2/3.

There are numerous applications for profiles, sealings and molded parts in the railcar bodies.

Applications are for example:

- Window & door seal profiles
- Cover and hatch seals
- Seals and gaskets
- Sliding plates
- Cell-foam list
- Slot covers
- Bumpers
- Plugs/frames

WILLBRANDT supplies and develops all the rubber parts for vibration dampening, noise reduction or sealing. In Hanover, we manufacture various bespoke gaskets and rubber frames for windows or doors. In addition to this, we offer a wide range of standard articles such as gangway rubber bellows as seen on the picture for trains or especially for double decker trains, e.g. Görlitz VIII. Other examples are:

- Round cords
- Square profiles
- U-shape profiles
- Edge protection profiles
- Cell or sponge rubber

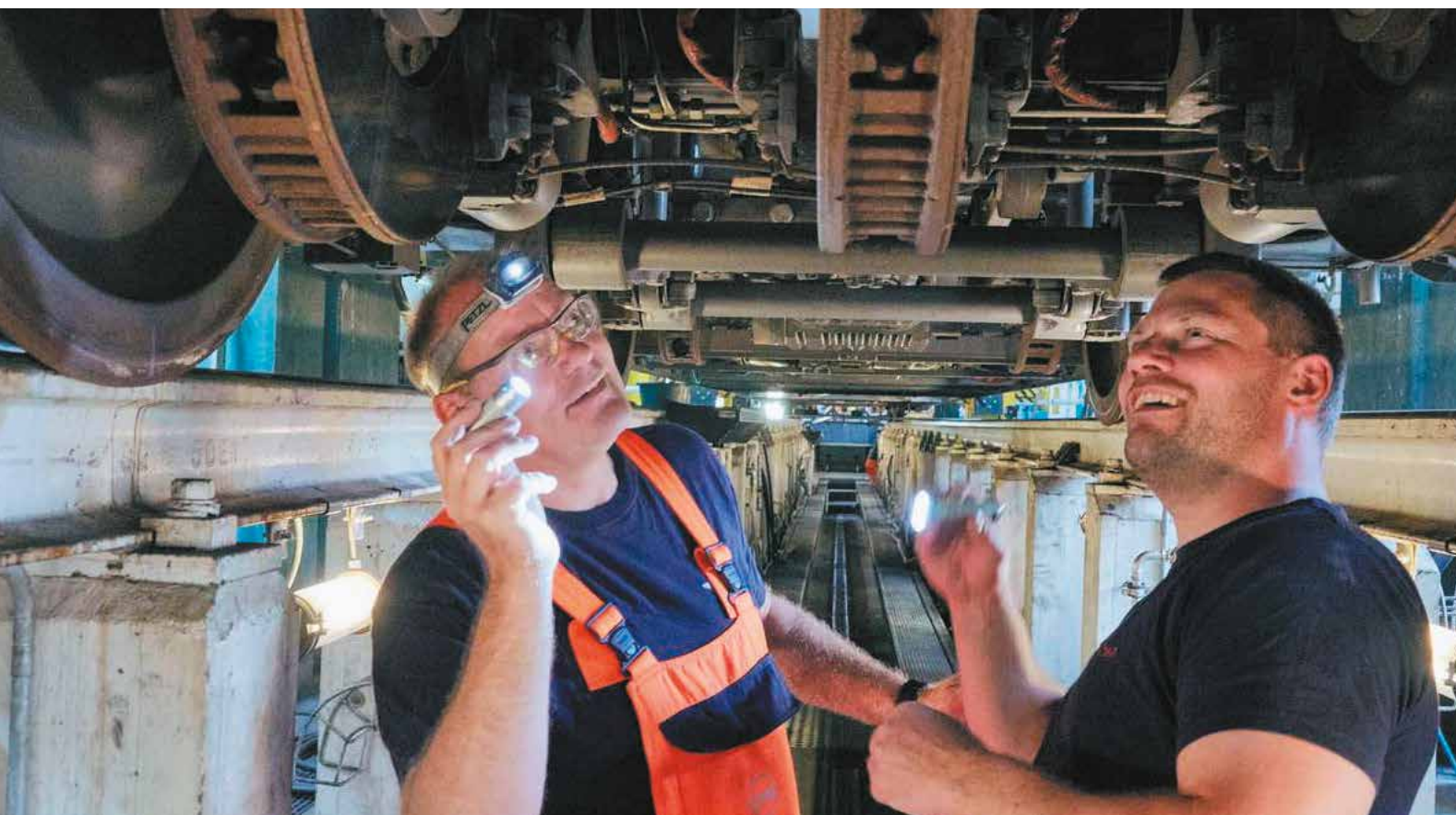
Our experienced engineers are happy to assist in finding a solution to suit individual wishes in different quantities, small or large series.

Examples:

- Snow protection
- Wheel covers for tram cars
- Rubber plates for transportation of coils etc.
- MERP®, axle protection.

WILLBRANDT offers GMT wheel set axle protectors. These rubber elastomer MERPS®, help reduce the amount of expensive repair and repainting needed over time as ice, stones and snow corrode the axle. The MERP® is constructed with axial and radial drain channels to prevent corrosion.



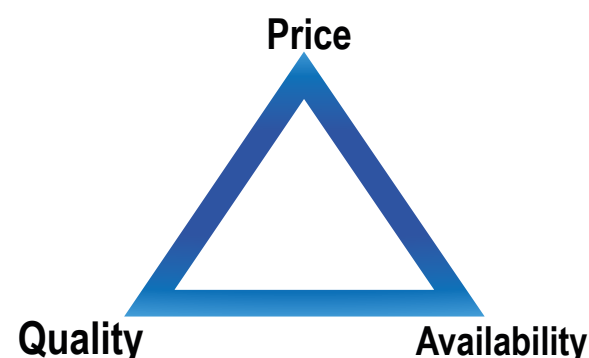


Partners, consultancy, logistic & cost reduction

WILLBRANDT examines and identifies the parts on the train and bogie together with our customers to verify part numbers or suppliers. We establish the condition of the products, prolong the durability and reach the optimal mix of lifetime and performance.

WILLBRANDT and our partners carry out condition evaluations and part testing, providing our customers with data to optimize overhaul, cost reduction and maximize the number of trains in operation.

WILLBRANDT also do on-site training, educate and inform on what to be aware of in connection with our products and especially rubber. Rubber is a natural material, which ages differently according to installation place, climate and performance.



WILLBRANDT Values & mission

„Our vision is to provide all-in-one solutions for our customers, helping them to perform and deliver the best possible products..“

„Our mission is to be a reliable partner to our customers and suppliers to ensure the best quality and exclusive opportunities. We take pride in our knowledge and will do our utmost to find the best solution..“

„Our values:
We develop in cooperation with the customers using our expertise to meet the customer's requirements.

More than 140 highly qualified and motivated employees.

Group turnover: > € 60 million

Our strength lies in tailor-made solutions.

We continuously train our employees both in-house and at our suppliers to ensure we have the broadest possible knowledge in our field.

Our dedicated and flexible staff are passionate about providing good service and focusing on the customers' needs.

Many products have a long production time, why we continuously expand our warehouse to ensure the shortest delivery time possible.

We never compromise on quality..

Certificates

ISO 14001:2015



ISO 9001:2015



TransQ



ISO TS 22163-2017





Production, warehouse, logistics & service

WILLBRANDT has a wide range of products stored in facilities in Haslev, close to Copenhagen, Hamburg, Berlin and Hanover. Many of our customers work with forecasting. In accordance with the forecast, WILLBRANDT plans, purchase as well as handle logistics. This ensure on-time delivery and a short response time guarantees availability for ongoing production and spare parts.

Combined with flexible production and multiple storage locations, our customers experience swift and reliable delivery. Individual customer requirements for service modifications, fitting and assembly, are met with precision and craftsmanship regardless of lot sizes.

For selected product ranges we offer E-commerce and EDI solutions.

Knowhow, testing, documentation & reverse engineering

Our competent engineers are happy to advice in the development stage of new products.

WILLBRANDT offers a wide range of services for the development and modification of rubber and plastic products, such as: spring characteristic calculations, advice from our in-house testing laboratory, FEM calculations, local consultation with our sales engineers, drawings and models in 2D and 3D, airborne and structure-borne noise measurements, e.g. for subsequent apparatus encapsulation.

Our testing laboratory can perform a variety of tests, e.g. to determine specific physical data (abrasion, specific weight, expansion, tensile strength and elasticity) of a rubber quality.

Specialists assigned to all product areas are at your service both technically and commercially. Our sales engineers are located in Denmark, Sweden and Germany. When required, our engineers can assist with on-site consultancy, calculations, reports and documentation. All tests are carried out according to DIN/ISO/EN specifications.

Should you want a second production source or would you like to save money, we can help you by doing reverse engineering. We have the know-how and a proven track record.



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