

Pfaff Verkehrstechnik Workshop Equipment



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**YOUR PARTNERS
IN MOTION CONTROL**

Pfaff Verkehrstechnik: safe and secure to meet your highest expectations.

Pfaff Verkehrstechnik always takes the right track: aiming to make our precious contribution so that the departure and arrival of a train remain on schedule.

Pfaff Verkehrstechnik offers a vast variety of products for this, such as lifting jacks, underfloor lifting systems, roof working platforms and workshop equipment for rail vehicles. All equipment complies with international standards and aims to meet the highest standards of quality one would hope to expect. This lays the groundwork perfectly for ensuring that you as our customer are able to maintain and repair your rail vehicles quickly and ergonomically. We also fully understand that different tasks call for individual solutions.

The brand of Pfaff-silberblau enjoys a 150-year tradition, replete with innovation. This brand has a global name for producing high-quality systems associated with lifting technology. The first underfloor lifting system for rail vehicles was built back in the sixties. Since that time, many hundreds of rail industry customers from around the world have placed their trust and confidence in jacks and lifting systems from what is now the company Pfaff Verkehrstechnik GmbH.

The comprehensive range of services reflects our firm belief in strong partnerships. Expertise, individual customized solutions, close consultation for turnkey systems and dependable service are what characterize the abilities of Pfaff Verkehrstechnik. The positive result for you and your vehicles is a long product life cycle and a return on your investment within a short period of time.



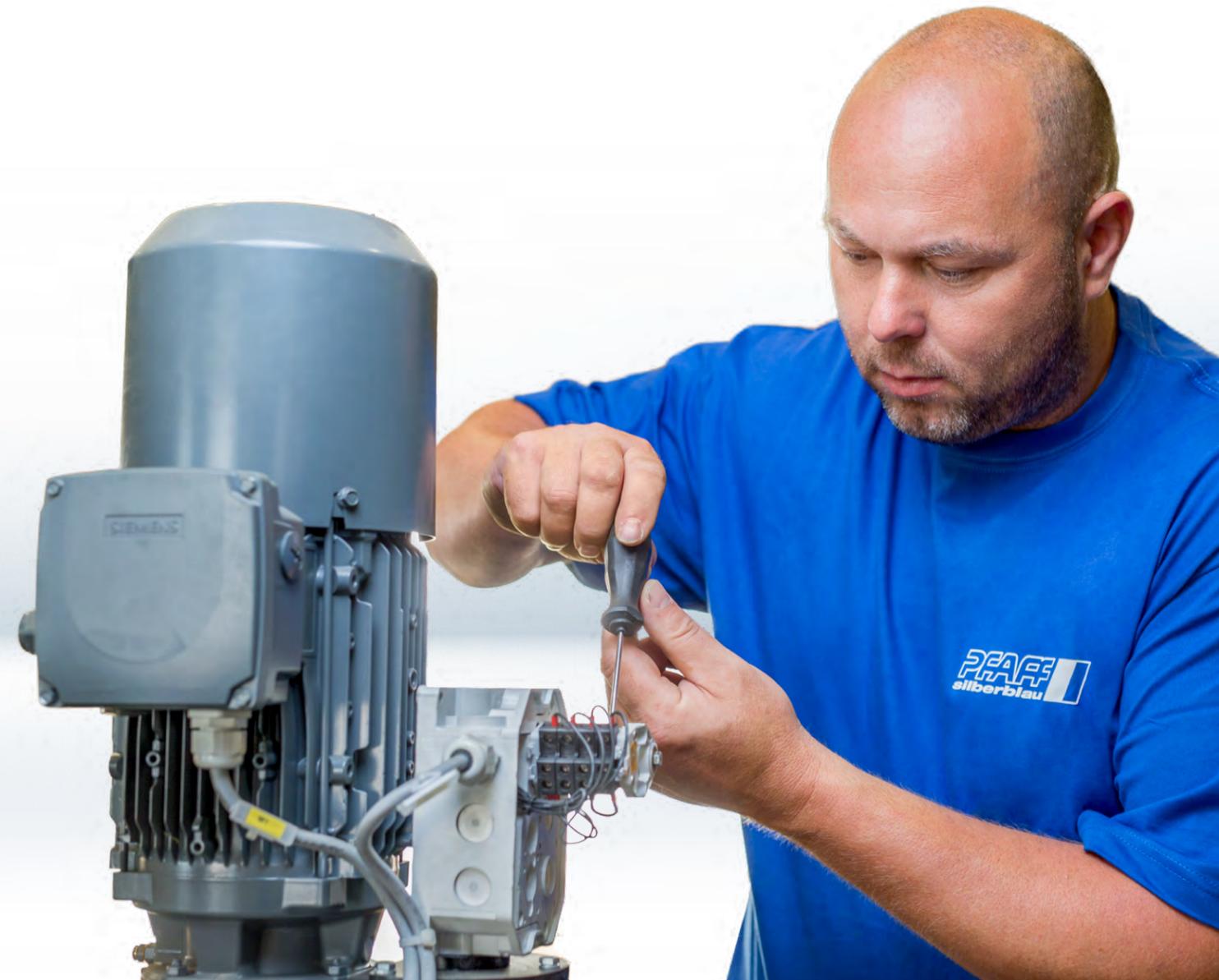
Pfaff Verkehrstechnik: service partnership without restraint.

Service from Pfaff Verkehrstechnik always runs full speed ahead. As a welcoming result, operational safety of the lifting equipment remains in the forefront throughout its entire service life. Service is an integral part of our business for all systems. When a customer purchases our products, we in turn offer them a comprehensive range of support services. This comprises of expert support and advice, rapid delivery of spare parts and on-site installation and assembly services.

All stages of the product life cycle are fully covered with this know-how and experience of Pfaff Verkehrstechnik. Our tailor-made service contracts with professional preventive maintenance in mind help your business operations run reliably and economically.

Needless to say, provision of wear and spare parts is assured at all times. Pfaff Verkehrstechnik is well known for its fast and prompt response time for the supply of individual and customized spare parts with a resounding effect.

As a result, customers can plan operations dependably and process orders quickly and reliably. Our skilled service technicians professionally install spare parts and optimally rectify the systems. Their specialized knowledge is always up to date and they are on site rapidly.



Roof Working Platforms: right at the top in terms of safety.

With the roof working platforms from Pfaff Verkehrstechnik, you can get right up there: flexible and absolutely safe. With their ergonomic access to the roof area, these working platforms simplify the tasks of inspection and maintenance on a vast range of rail vehicles.

With their lightweight structures, the load of these working platforms can be absorbed easily by the building structure. Electro-mechanical cassettes integrated into the roof working platform provide an extendable gap bridging capability measuring 750 mm or beyond. This gives the service staff more freedom of movement while at the same time enhancing workplace safety.

Safety in the design of the roof working platform takes absolute priority. This explains why the robust and durable load-bearing construction complies with the most stringent quality standards. A safety package in demand is as tailor-made as the working platform itself – Pfaff Verkehrstechnik puts all of this together to the customer's utmost satisfaction.



Ergonomic: the roof working platforms provide convenient access to the roof area on all types of vehicles.

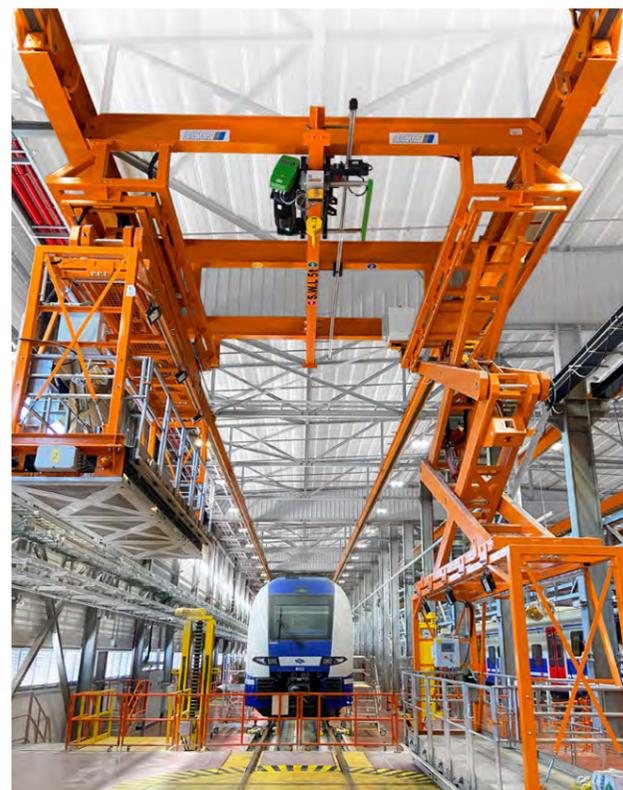


Mobile Roof Working Platforms: “Flying carpet” for ergonomic work

Maintenance and repair work on roof areas of trains can be carried out ergonomically and comfortably. This is possible thanks to the ideally positionable “flying carpet” cradles. They are suspended from crane runways that are attached to the structure of the hall ceiling. For flexible use, they can be moved along any length of hall and, therefore, along the entire length of a train.

Each “flying carpet” has two hydraulically lowerable gondolas that can be operated in pairs or individually.

Their intelligent design contributes to workplace safety.



The gap area between the gondola and the train can be completely closed with electric extension modules. When both gondolas are positioned at roof level in paired operation, telescopic railings can be used to create a working area for all-round safe and comfortable work on the roof.

Cranes simplify the removal of components on the vehicle roof. They are mounted between the two gondolas on a chassis: as a monorail crane on an S-bend or as a monorail crane on a straight runway. The employee does not necessarily have to climb up into the gondola for crane work: an optional radio control system allows the cranes to be operated remotely.



Lifting Technology: permanently safe for efficient maintenance.

Reliable and forceful lifting: among the things that Pfaff Verkehrstechnik lifting jacks and underfloor lifting systems can do superbly. With their robust design, they can lift up individual carriages or entire trains for inspection and maintenance purposes. Their secret lies in the versatility, and their ability to suit customer requirements. Configurable in various ways, lifting jack systems can either stand erect inside maintenance depots, or can be recessed into the floor of those buildings as underfloor lifting systems.

The capacity of this jacking technology from Pfaff Verkehrstechnik is impressive: trains measuring 400 meters can be positioned with precise accuracy of 5 mm throughout its entire length. As well as satisfying minimal tolerances, lifting jacks and underfloor lifting systems offer other genuine competitive advantages in terms of performance, ergonomics, operational reliability, and low maintenance costs.

Lifting Jack Systems: powerful enough for every train.

Lifting jack systems deliver total performance for entire trains. This is made obvious to customers through their proven design and dependable control system technology.

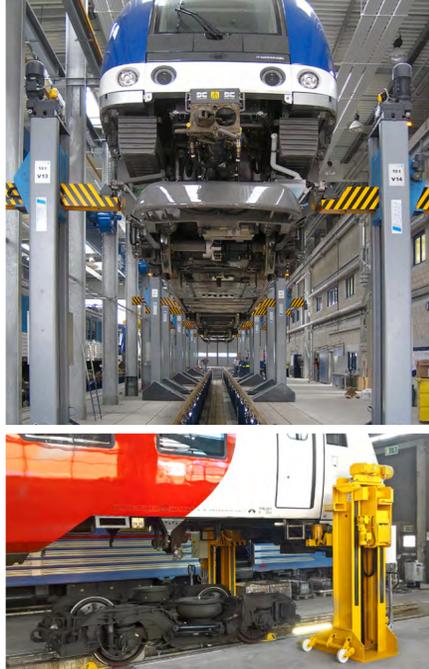
For the maintenance staff this ensures ultimate standards of system reliability and optimum ease of operation are met.

This couples together the lifting jacks into a universal system for conducting maintenance work on all types of rail vehicles.

Lifting jack systems from Pfaff Verkehrstechnik possess superior benefits. This includes the load capacity, exceptional workplace convenience and a broad range of equipment options. Customers can choose between various capacities of lifting jacks. These range from 5 to 50 tons, with a diverse range of options and system configurations. The lifting jack is designed to meet operational requirements. The versatile system is proven to be very flexible for your everyday workshop operations.

Huge range: lifting jack systems are available in various lifting capacities, ranging from 5 to 50 tons.

Lifting jack systems are the universal solution for maintenance work on all types of rail vehicles.



Underfloor Lifting Systems: maintenance on a higher level.

Underfloor lifting systems bring trains up to the level needed to conduct inspections. Their proven design and their ultra-modern control system technology assist staff in the safe and efficient maintenance of all kinds of rail vehicles, including subways, trams and high-speed trains. Maintenance and repair work can be comfortably carried out under the raised train. Underfloor lifting systems can lift any desired number of coupled cars.

Underfloor lifting systems from Pfaff Verkehrstechnik save customers a great deal of valuable time. Suitable for configuring in a highly flexible number of ways, one of the different design variants will always result in the establishment of the optimum solution for the customer. These benefits include the long beam lifting system, suitable for universal usage, or the custom-built system with a cantilever beam for unique applications. Customers appreciate underfloor lifting systems since they remain absolutely level with the floor in their retracted position, which means that they can be driven upon without any restrictions.



With underfloor lifting systems from Pfaff Verkehrstechnik, maintenance work can be comfortably performed on anything from trams to high-speed trains.

Flexible: underfloor lifting systems make it possible to replace bogies, to work underneath the train and to carry out all kinds of inspection tasks.



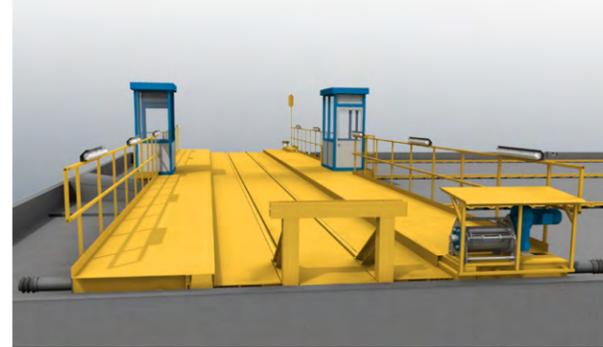
Turntables and Transfer Tables: maintenance runs smoothly all around.

This robust equipment is what you need for moving heavy loads such as rail vehicles. Turntables and transfer tables from Pfaff Verkehrstechnik assure smooth, easy and therefore cost-efficient movement during the transport of trains and bogies. Transfer tables are able to transport rail vehicles weighing in excess of 200 tons between rail connections, either within the maintenance shed or outdoors.

Pfaff Verkehrstechnik offers turntables for various maintenance tasks for axles, bogies, individual carriages or locomotives. No matter what the turntable is used for, it always works towards one goal: to assure a time-efficient and reliable flow of materials.



Axles, bogies and locomotives: turntables for each customer demand.



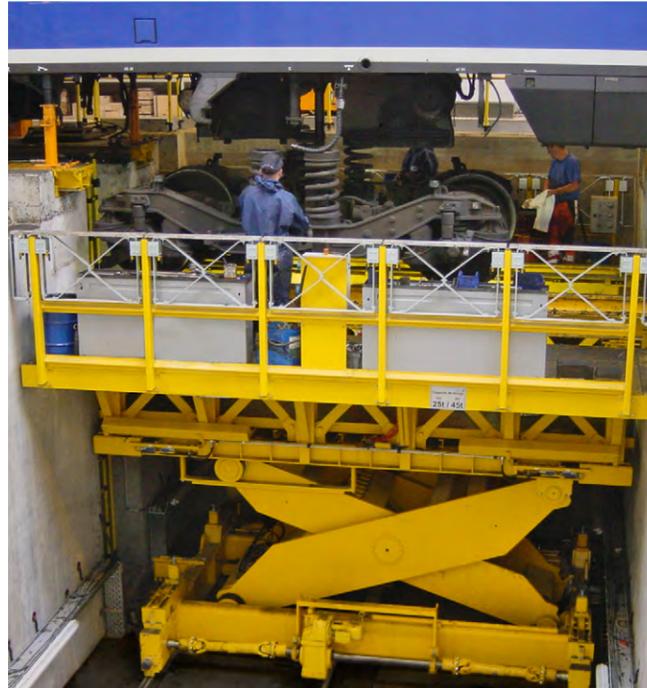
Transfer tables transport heavy loads reliably between different track lines.



Bogie Drop Tables: offer fast and safe overhauls.

Adaptable and versatile like no other: bogie drop tables are ergonomically designed for facilitating the fast replacement of bogies as well as for performing maintenance work underneath the vehicles.

Pfaff Verkehrstechnik offers a series of bogie drop tables with various configuration options available. There is a choice between different lifting methodologies that can be incorporated, either by scissor-lift tables or by spindle-lifting elements. The customer can also decide which version of bogie drop table he prefers.



Wheelset Exchange Systems: maintenance that is safe and efficient.

Safe and efficient wheelset exchange: the wheelset exchange systems by Pfaff Verkehrstechnik are ergonomically designed and guarantee work expedience. Installed in a variety of ways, these wheelset exchange systems can be mounted within elevated rails, or recessed into the ground. If the system is not in use, your rail bridges are securely latched and your vehicles can drive over them.



Workshop Equipment: capable of tackling any task.



Lifting table: for the removal of bogies, axles and components.



Supports: mobile and vertically adjustable.



Transport vehicle: moves loads of up to 50 tons.



Auxiliary bogies: can be used flexibly.

From elevated or embedded tracks, Mobile Scissor Lifting Tables, Dummy Bogies, Support Stands, Bogie Transporters up to Carbody Lifting Beams nearly all sub-equipment can be supplied by us.



Bogie Lift & Turning Systems: ergonomic in all positions.

Always ideally positioned for pending maintenance work:

bogie lifting systems and lifting & turning systems make it easier to work on the bogie. The gain in comfort and safety for maintenance and repair work is enormous.

The lifting & turning device brings bogies, bogie frames and other vehicle components into an ergonomic working position. The lifting & turning devices with proven drive and control technology ensure that overhaul and repair work to bogies and bogie frames can be carried out swiftly.





A member of COLUMBUS McKINNON Corporation

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