



Industrial and construction machinery

Spirit meets you
*We know what
you'll need tomorrow*



BPW FAHRZEUGTECHNIK



Running gear is our passion

Life is motion



Being alive means constantly being on the move. We dedicate all our skill and passion to this motion. It is our goal to make products that are useful to people and that take them forward, wherever they are heading. At the same time, the latest development and production technology is used in accordance with our principle of uncompromising quality and safety. We would like to know what else is possible: Can things be made even more stable, comfortable, flexible or safe? Can we offer our customers even greater dynamics, quality and comfort? Then we set about planning, calculating, developing and testing. And each time we find: yes, it is possible to achieve even more.

As a professional in the optimised designing of processes in all areas, BPW Fahrzeugtechnik is a trend setter in running gear technology. We are proud of this.



Robust running gear technology

Sophisticated details and customer-specific solutions to meet the most extreme requirements.



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This is where we spark you

How we support you

BPW Fahrzeugtechnik is your expert partner for running gear technology



Consulting

With BPW Fahrzeugtechnik, your ideas are in the best hands. We offer you a wide range of sophisticated solutions for technical applications. We are happy to advise you on the development of complete running gear systems, standardisation of vehicle frames and selection of axles and axle units for your products that are appropriate for the market and the requirements.



Development

The development team at the Paderborn site possesses decades of expertise and experience in the development and design of the latest running gear technology.

The specialists at BPW Fahrzeugtechnik develop new products and find specific, tailor-made solutions for our customers. They offer engineering services such as FEM or brake calculations and carry out driving and proving ground trials.



Production

The BPW Fahrzeugtechnik production system makes it possible to provide the necessary quantity in the highest quality and at the lowest possible cost.

The synchronous production system based on the pull principle makes optimum use of all resources, as a result of which the production process can be precisely aligned to the customer's wishes.



Quality

The BPW Fahrzeugtechnik is geared up to operate according to its quality culture. This is based on prevention, fault avoidance and transparency in all processes and procedures. The objective is reliable and consistently flawless quality. All our employees take a consistent and open approach to errors, and regard themselves as duty-bound to comply with agreed quality targets. Our processes and procedures are regularly measured, evaluated and optimised according to the principle of continuous improvement.



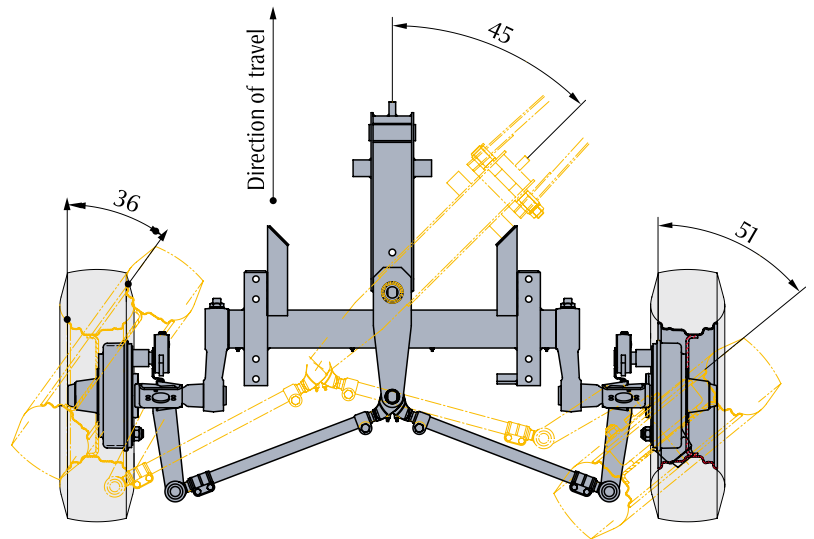
Mobile energy

BPW kingpin steering

For greater stability

Prevents rolling and pitching

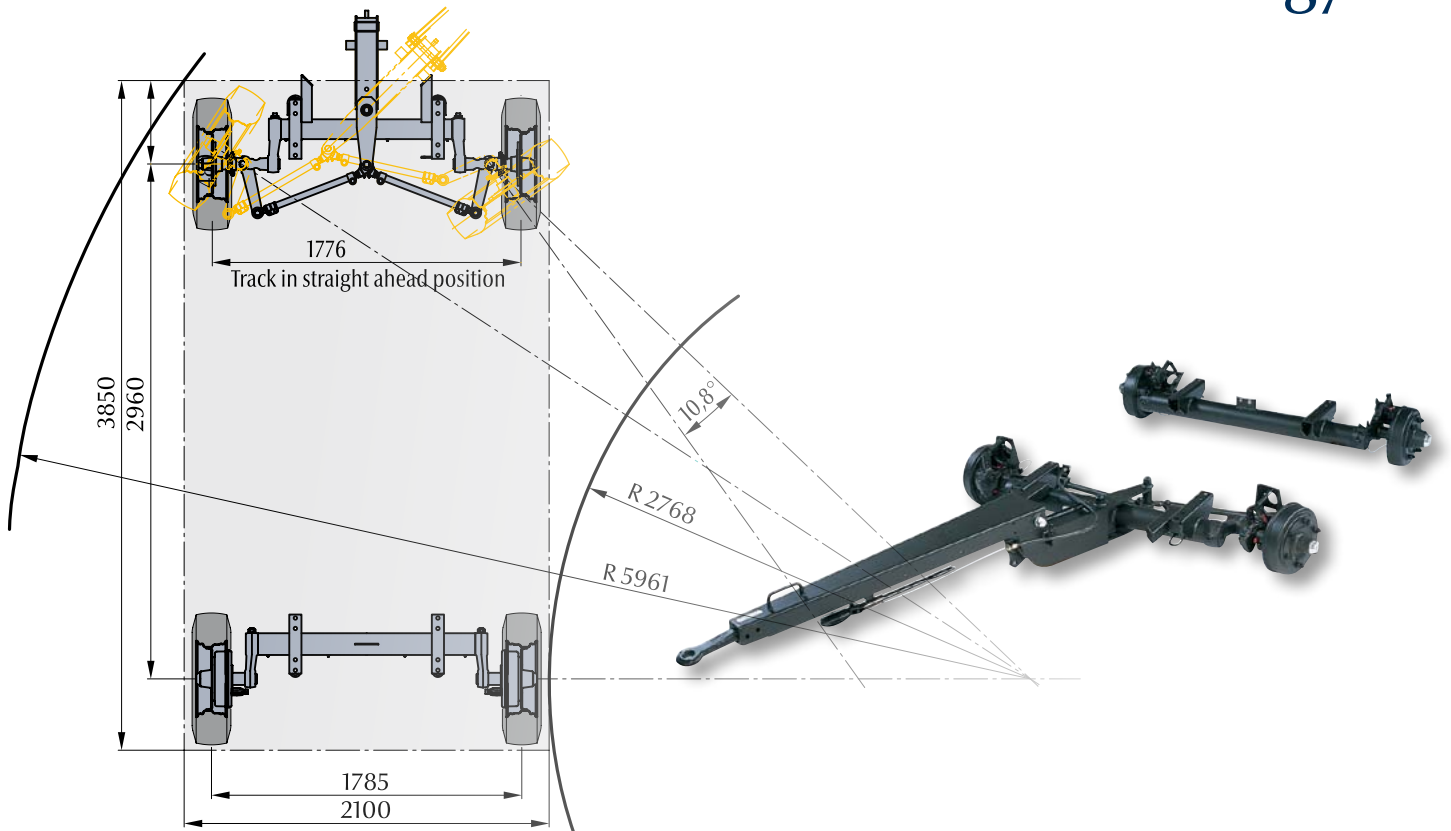
In contrast to centre-pivot steering our torsion bar axles with kingpin steering limit the change in the tyre contact point in curves to a minimum.



This ensures that the vehicles remain stable and highly manoeuvrable even at extreme steering angles in off-road use.

Advantage: Ensures absolute roll stability even on vehicles with high centre of gravity and unequal weight distribution.

Mobile energy



Braking like the big ones

The design of our long-life, robust brakes profits from our experience with the BPW agricultural and truck range.

The cam brakes used here are equipped with automatic slack adjusters and ABS sensors to ensure maximum safety and longer maintenance intervals. A simple version of this technology is also available for intra-company use.



Comprehensive testing for safety

Every new axle from BPW Fahrzeugtechnik is required to complete a comprehensive series of tests. Whether on the test bench or on the road, our test engineers always ensure that only axles meeting the highest quality standards are installed on your vehicles.

Axles from BPW Fahrzeugtechnik with kingpin steering guarantee particular driving stability.





Mobile energy

BPW drawbars – adjustable

Serrations up

Show your teeth ▼

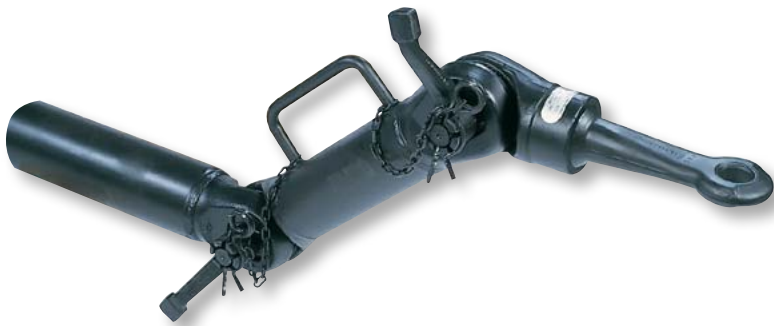
Our reliable tooth-tip adjustment allows the trailers to be coupled to various towing vehicles with different coupling heights. These robust drawbars have proven themselves over decades and can be used for almost all areas of application. All adjustable BPW drawbars are available with ball couplings or various towing eyes as an option.



Mobile energy

Space saving ▶

Tight construction sites and short parking spaces? In this regard we recommend our overrun hitch with rear offset and adjustable height to reduce the vehicle length. This shortens the overall length by up to one-half metre.



◀ Heavy-weight

Our height adjustable, 5 t BPW drawbar ensures maximum flexibility for heavy trailers in combination with various towing vehicles. This allows optimal combination using axles with compressed air brakes from the BPW agricultural and truck range.

Removable ▼

Our removable drawbars reduce the required space by 1.4 metres when parked. Examples of applications include container loading or market booths, where every centimetre costs money. This version is perfect for such applications.





www.wm-meyer.de/english



Transport

BPW raise and lower systems

Lowrider

Simple loading

Use of our BPW lowering unit allows reduction of the loading height for vehicle or machine transporters by up to 200 millimetres.

Operating safety

A check valve is used to arrest the trailer at ride height to ensure maximum operating safety. The vehicle can be lowered by releasing the pressure in the hydraulic circuit.



Transport



Comfortable suspension

In addition to the optimum suspension comfort of the RONDO torsion bar axle, a raise and lower system also provides the advantages of load compensation and therefore a perfect adaption to surface irregularities. This prevents the wheels on one axle from lifting off the ground when driving over obstacles.



Manually or electrically

The vehicle can be lifted and lowered with a simple-to-operate hydraulic system. This is available optionally with an electric (12V) or manual drive.

Optimum corrosion protection

Galvanized axle tubes, axle plates and hydraulic cylinders guarantee permanent corrosion protection.





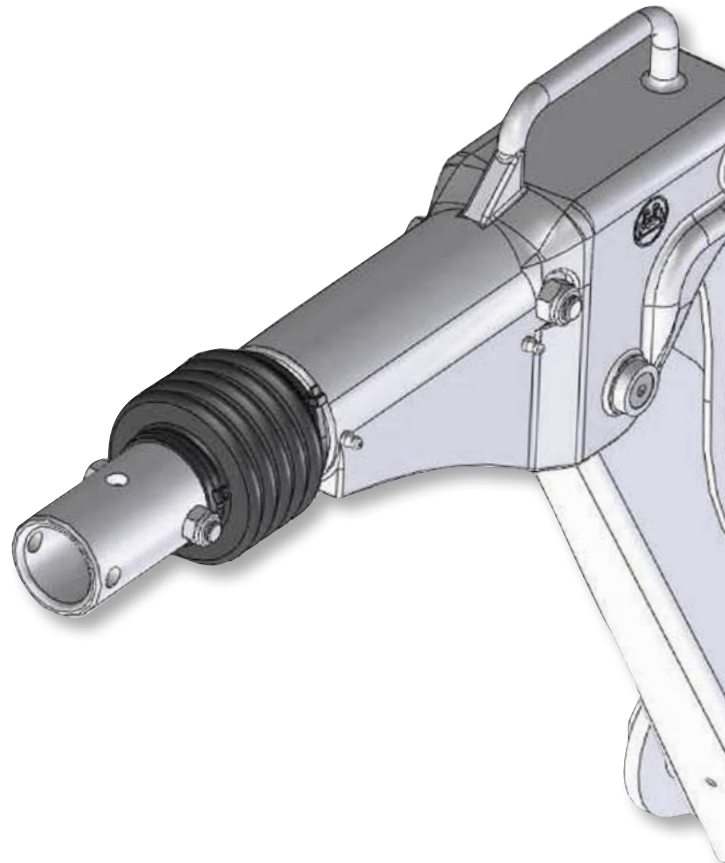
Nature

BPW height adjustable drawbars

Parallel at all heights

Always fits

The principle of parallel adjustment ensures that the head of the overrun hitch is always automatically in the horizontal coupling position. All operating units are arranged centrally at a comfortable height to facilitate work for the user.



Nature



Customer-specific flexibility

For our height adjustable overrun hitches we also offer adjustable torque arms in various lengths to ensure that you can find the right relationship between height adjustment and vehicle length, allowing you to react to all requirements.

Single hand operation

The height can be adjusted with one hand, because a gas pressure spring always supports the weight of the drawbar, allowing the coupling height to be adjusted with minimal force.



Height adjustment easy as child's play

Our optional „Easy Adjust“ lever replaces the conventional tommy screw allowing the adjustment mechanism to be opened and closed in seconds and making additional tools, such as extension pipes, superfluous.



Mobile production

BPW SWING rubber suspension axles

Off-road and on-road

Robust equipment, which has proven itself in operation for decades

The extremely robust functional design of BPW rubber suspension axles has proven itself on the market for decades.

Long-life rubber suspension

The long-life rubber suspension ensures optimum handling in all situations.



Mobile production

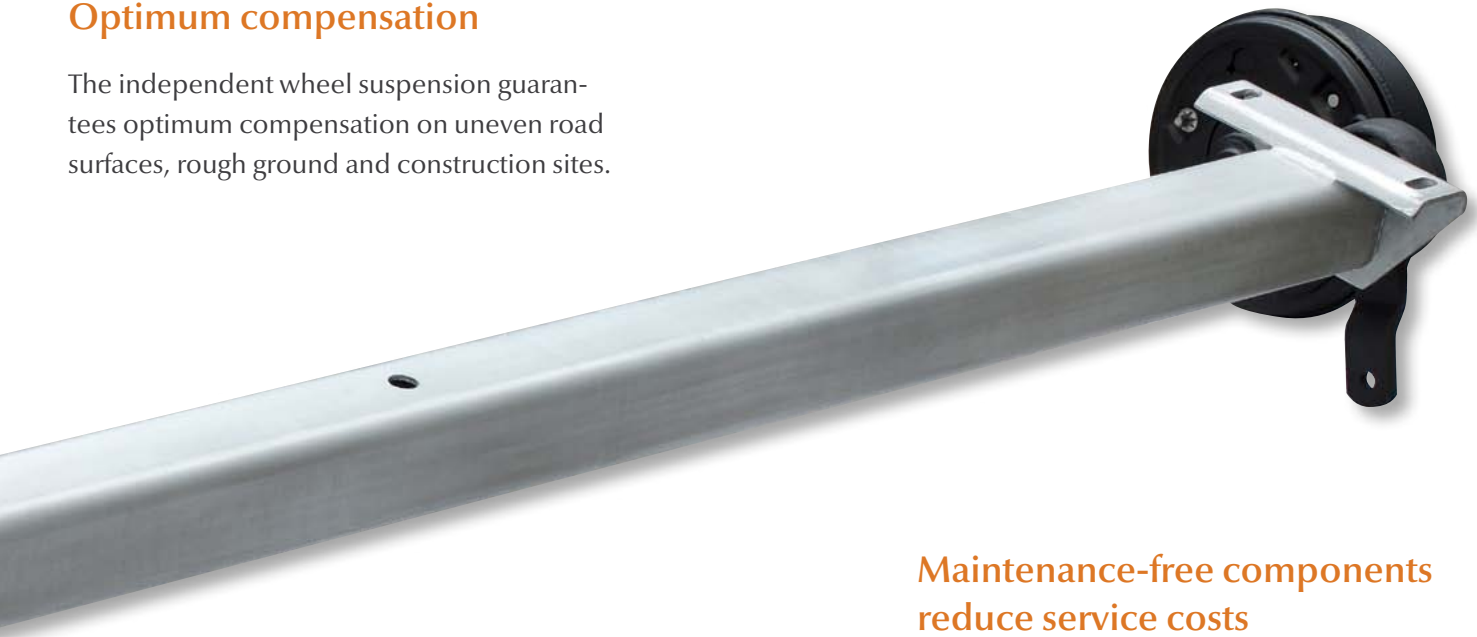


Easy and safe

This sophisticated system ensures optimum suspension and damping when driving over uneven spots. Our running gear ensures that your trailer can always be towed easily and safely.

Optimum compensation

The independent wheel suspension guarantees optimum compensation on uneven road surfaces, rough ground and construction sites.



Sturdy taper roller bearings

All heavy-duty BPW rubber suspension axles with ratings over 2.0t are equipped with sturdy taper roller bearings.

Maintenance-free components reduce service costs

To better serve our customers, BPW Fahrzeugtechnik continuously works to reduce the service required and increase inspection intervals. BPW rubber suspension axles up to 2.0t have maintenance-free bearings. The wheel bearings consist of compact bearings with life-time lubrication, corresponding to the high standards in the automotive industry.



www.karcher-futuretech.com/futuretech_en

Military and civil defence

BPW RONDO torsion bar axles

Over hill and dale



Perfect suspension

Our torsion bar suspension is a state-of-the-art suspension system in the commercial vehicle industry. The spring steel torsion bar, borne fully protected in the axle tube, acts as a spring element ensuring optimum suspension even on rough terrain.

Military and civil defence



The difference

In comparison to rubber suspension, the improved torsion bar suspension reduces the stress on your trailer by up to 25% during operation. A further advantage of our technology from the automotive industry is the significant reduction in weight, allowing more vehicle payload.



Particularly durable

Our hot-dip galvanised axle beams guarantee permanent corrosion protection. Constant track and camber values reduce tyre wear, because the spring elements do not „settle“ during operation.

Low maintenance

All bearings used ensure maximum life expectancy. They are protected against dirt and water and lubricated with special grease. The suspension is maintenance-free; only the sliding bearings require service from time to time.

Coatings

All our axles are hot-dip galvanised as a standard feature. If desired they can also be painted in all conventional RAL colours or finished with F90 coatings, which allows an easy integration in your product design.



We connect

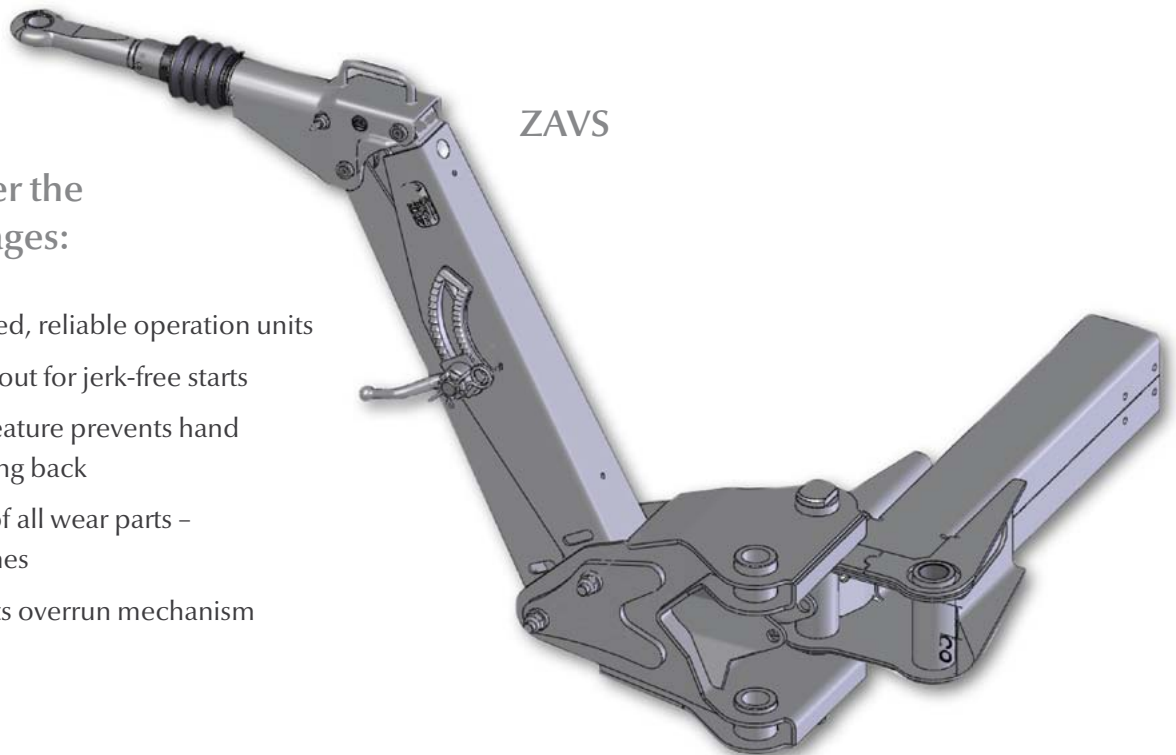
BPW drawbar devices at a glance

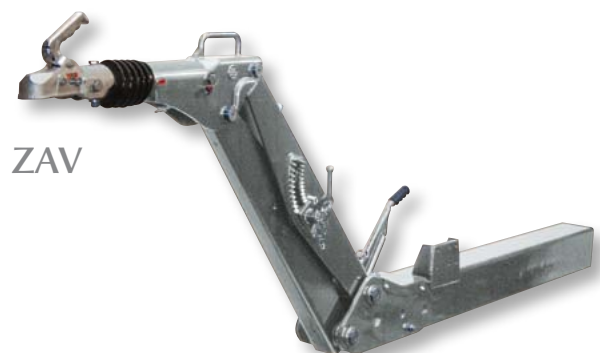
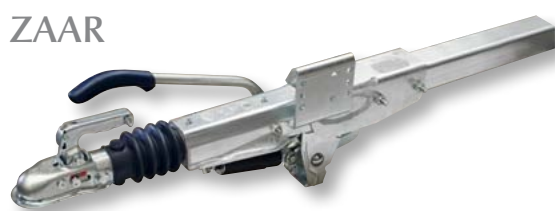
Regardless of your requirements, we always have the right drawbar device for you.

Our drawbars offer the following advantages:

- Ergonomically designed, reliable operation units
- Optimum damper layout for jerk-free starts
- Integrated damping feature prevents hand brake lever from kicking back
- Simple replacement of all wear parts – for reduced down-times
- Robust design protects overrun mechanism

ZAVS

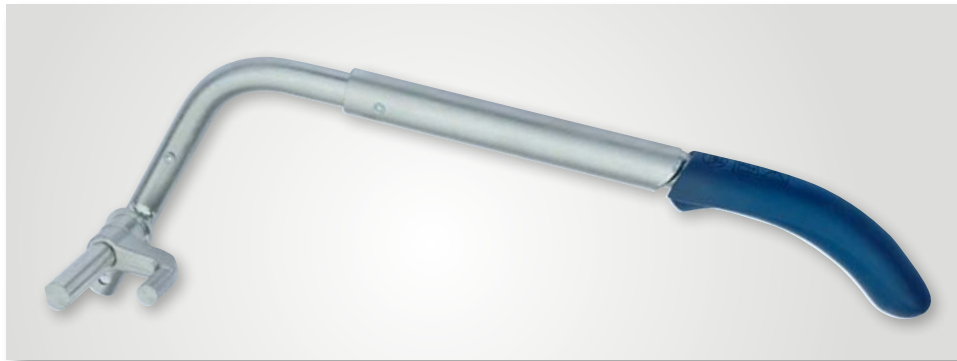






Everything included

BPW accessories



„Easy Push“ telescoping hand brake lever



„Easy adjust“ lever



Spare wheel carrier



Wheel shock absorber



Towing eyes



Cranked and quick-lift supports



BPW ball couplings



BPW integrated Move Control - iMC



Heavy-duty jockey wheels



We're there for you

Our services



Service

At the BPW Fahrzeugtechnik, service is not just defined by words but actions.

Our Service Team constantly pursues the approach of offering you the best possible service in the most straightforward and fastest way possible.



Customer service

Since the start of 2012, our own customer service has been available to you directly at our Paderborn site. This gives us the opportunity to deal with your issues with even greater speed, flexibility and efficiency.



Application consulting

With BPW Fahrzeugtechnik, your ideas are in the best hands. We have a whole host of sophisticated technical solutions for you.

We look forward to advising you on developing complete running gear systems, standardising vehicle frames and selecting chassis components that meet the requirements.



Product training

Our seminars, designed “from practical experience for practical applications”, allow you to improve your specialist knowledge of running gear technology together with other specialists. The experts at BPW Fahrzeugtechnik provide you with the expertise you need to cope with tomorrow’s challenges.

Through dialogue with you, we will shape the innovations of the future.

BPW

One of the most prized brands in the world of transport

The BPW Group is the leading manufacturer of axles and running gear systems for trailers and semitrailers. We have the right solution for nearly every application.

We specialise in all kinds of running gear systems from heavy truck trailer axles to industrial machinery and plant to commercial and agricultural trailers as well as caravans.

We use the synergy effects in our development work. A strategy that has paid off in truck trailers and semitrailers, for example, can also yield positive results in all other applications. Every running gear system incorporates over 100 years of experience from the entire BPW Group.

BPW has its own development and research facility as well as cutting-edge test systems. This means that we reduce the development times not only of on-going developments but, of course, also of new and innovative solutions.

All of our products undergo extensive testing on the road and in the laboratory, using an extremely wide variety of test programs such as simulating driving on a rough road.

Especially for caravans, BPW uses a unique modular test rig for single-axle trailers. Different route profiles can be simulated on the modular test rig, thus allowing tests to be performed around the clock, no matter what the weather.

Our products are in use all over the world. It is therefore natural for us to have a global presence too. Over 3200 service partners are thus at your disposal around the world.

You benefit from more than 100 years of experience – our products have been tried and tested under the harshest conditions, and have undergone repeated testing and refinement by specialists in the industry. Successfully!



BPW FAHRZEUGTECHNIK

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