

GIGANT 



AXLE SYSTEM SPECIALIST

GIGANT

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Introduction

GIGANT – On the road since 70 years.

GIGANT – One of the leading manufacturers of axles for the international trailer market.

We produce customised axle system solutions for various trailer types, which are continuously optimised and further developed within our extensive product portfolio.

GIGANT customers appreciate the flexibility, many years of experience, and count on the trusted “Made in Germany” quality.

We look towards the future with confidence and want to continue to develop the topics of digitalisation, electromobility and sustainability over the next few years and remain your reliable industry partner thanks to state-of-the-art production technologies and innovative logistics concepts.

Get to know the full variety of our axle systems and be inspired by our comprehensive aftermarket offers!

THOMAS VEISMANN
Managing Director of GIGANT GmbH

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MORE THAN
200
EMPLOYEES



FACTS AND Figures

» **GIGANTIC** «

59.000 sqm

» PRODUCTION AREA «

THREE
production halls

with **MADE IN GER-**
MANY production

MORE THAN
5 
SERVICE
PARTNERS
worldwide



- New double-head friction welding machine
- Modern machinery
- High vertical integration
- Digital system solutions
- Innovative logistics concepts

» Production

At GIGANT, everything revolves around axles

With our product portfolio of 5.5 to 12 t axles and axle system solutions customised to meet your special customer requirements, GIGANT counts among the reliable drivers of innovation in the heavy-duty and low-loader sector.

At the same time, we are continuously evolving – with new production technologies such as the fully automated friction welding machine, the commissioning of the axle assembly line or with the new corporate strategy 2025, which will implement innovative projects in the areas of production and logistics, amongst other things.

Thanks to investments in new production technologies and digital system solutions, GIGANT continues to evolve and therefore remains a reliable partner for the future. Our factory is certified according to DIN ISO 9001:2000 and can optimally implement individual customer requirements with its modern machinery.

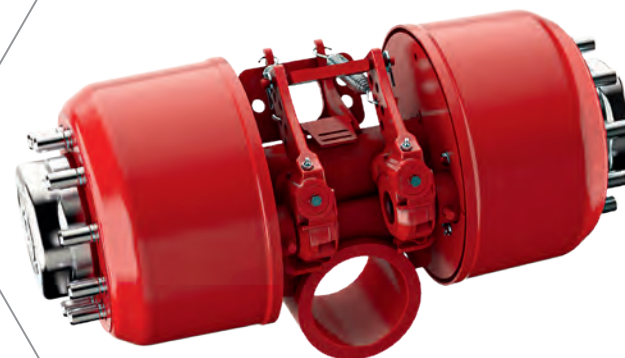




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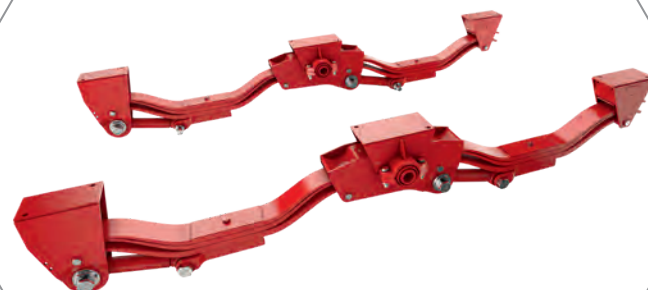
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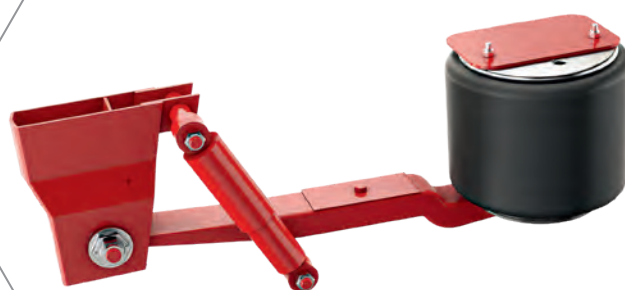
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6

» Product overview

GIGANTic product diversity

GIGANT has a wide, modular product portfolio that contains different axles sizes. The axles are available as rigid, self-steering and steering versions with drum or disc brakes. The axle loads vary from 5.5 t to 12 t and wheel sizes of 15 inches to 22.5 inches are possible. The axles are equipped with low-maintenance compact bearings and can be optionally upgraded with ABS as well as GIGANT Steady Pressure.

1 - Rigid axle

Weight-optimised and proven: service-friendly and low-maintenance design make this axle a universal all-rounder for standard trailers.

2 - Steering axle

Robust and versatile: the particularly compact steering axles are suitable for large steering angles.

3 - Pendle axle

Reliable and service-friendly: ideal for particularly high bearing loads and extreme steering angles.

4 - Axle stub

Sturdy and compact: more volume and loading area thanks to space-saving design for DLS and inloaders.

5 - Mechanical suspension

Extremely sturdy and durable: flexible and reliable damping for high loads.

6 - Air suspension

Space-saving and universal: effective suspension and pleasant driving comfort



» GIGANTic advantages

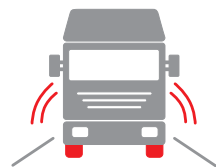
GIGANT has an extensive product portfolio, which can be used as modules for various trailer types. GIGANT customers can configure their technical requirements and rely on low-maintenance and robust products from GIGANT axle system solutions, which do their jobs reliably even after years of operation. We rely on light construction that still withstands the roughest conditions.

Individual customer axle system solutions



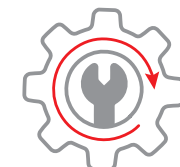
Particularly in the heavy-duty sector, GIGANT offers a broad modular system with different tonnages, optimal space solutions with very low driving height ranges and other flexible components, to be able to offer ideal solutions even for special customer requirements.

Easy track adjustment with eccentric bushing



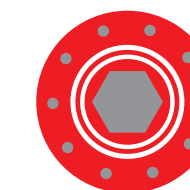
With the eccentric bush from GIGANT, you can adjust the track quickly and easily. An optimally adjusted track reduces the rolling resistance, tyre wear, and fuel consumption. The patented track adjustment from GIGANT that has proven itself for more than 50 years also guarantees the familiar setting comfort even after many years of use.

Service-friendliness and maintenance advantages



All important components of GIGANT axles are designed for optimum service-friendliness and low maintenance requirements.

Outboard drum



Our brake drums and wheel hubs are designed such that the hub unit and the wheel bearing do not need to be removed when changing the brake linings. Thus, the adjustment work there is no longer necessary. Possible sources of error are therefore avoided, enabling easy and quick changing of the drum or brake linings without special tools.

Compact bearing



GIGANT equips its axles with low-maintenance and environmentally friendly compact bearings, including a comprehensive warranty. The low maintenance requirements minimise costs and extend the service life without additional adjustment work.

GIGANT quality



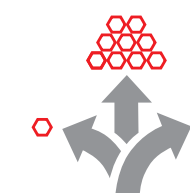
Our products, tested and certified according to the strict criteria of the DIN ISO 9001:2000 quality standard, offer our customers the highest standards and greatest possible safety. In the intra-group validation centre, the axle systems' technical parameters are carefully calculated, inspected and tested.

Weight-reduced axles



Our goal is to always produce the lightest axles for the commercial vehicle sector, while being robust in the heavy-duty sector, to create a lower tare weight and higher payload for our customers.

Flexible quantities



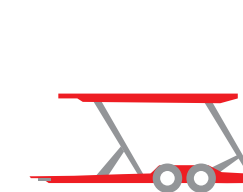
Thanks to innovative production technology at GIGANT, deliveries of small quantities as well as single-item productions are possible. As a result, individual customer requirements, such as different track widths, can be implemented without any problems.



Applications

GIGANT offers customers optimum axle system solutions for their transport business. This comprises a wide product range from the light 5.5 t axle and the 9 t standard axle for commercial vehicles to a sturdy 12 t axle for the heavy-duty truck market.

GIGANT produces axles and suspensions for the following applications:



Car transporter



Animal transporter



Container chassis



Special vehicle



Low-loader



Disposal/
recycling vehicle



Tank vehicle/
silo vehicle



Curtainsider/refrigerated
transport/push floor



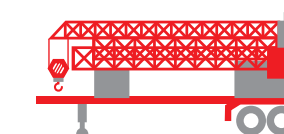
Central axle/
volume trailer



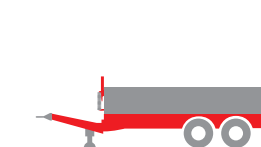
Tipper



Wood transporter



Crane running gear



Gardening and
landscaping

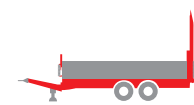


Modular vehicle



Inloader





Rigid axle

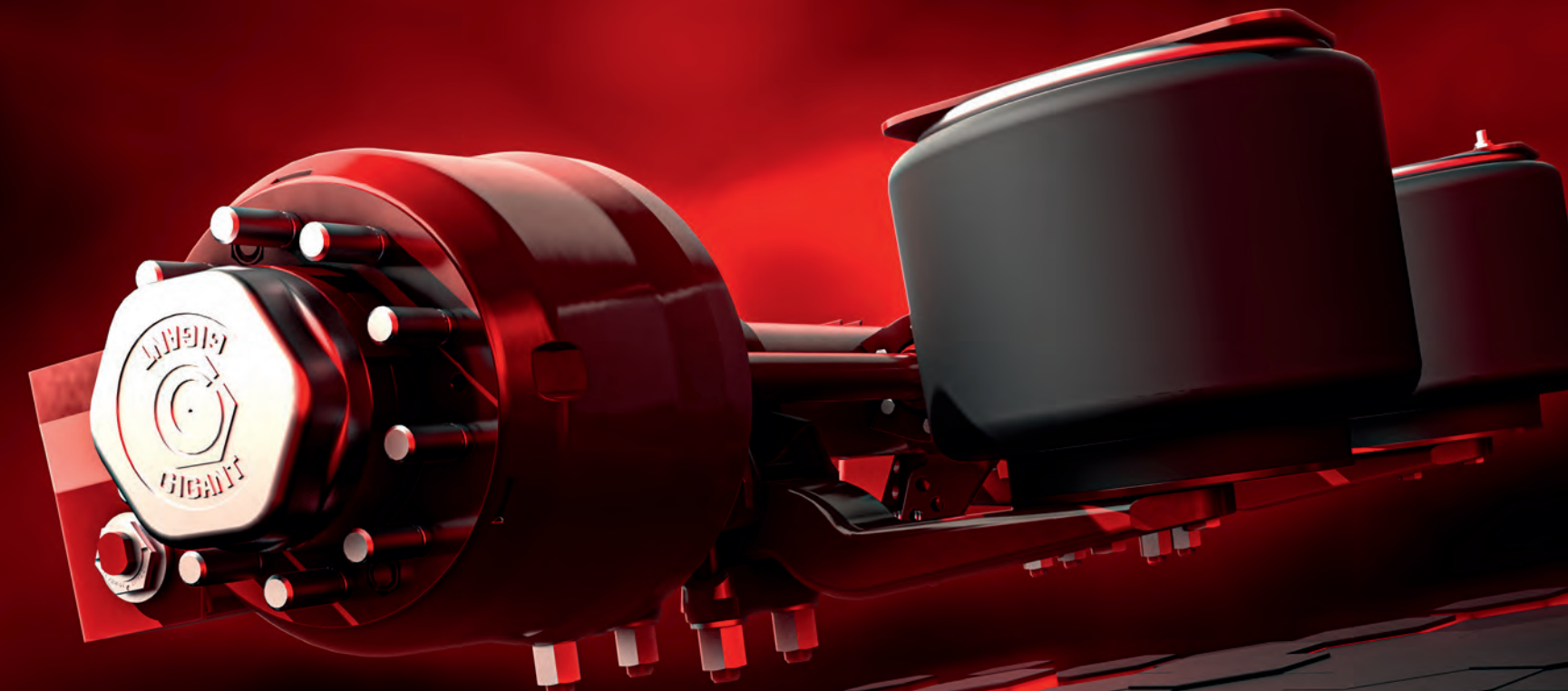
GIGANT produces diverse rigid axles, both for high-volume use and individual solutions for the heavy-duty sector. The GIGANT low-loader axle is suitable for all heavy-duty and low-loader applications that do not require steering. It enables very low overall heights with axle loads of 9 t to 12 t and is designed for tyre sizes from 17.5 inches to 19.5 inches.

The rigid axle meets the highest requirements for robustness and reliability and is available both in the version with the drum brake and with the disc brake. A weight-optimised wheel bearing staged hub unit with an extended warranty finds its optimal purpose in the disc-braked rigid axle.

Lightweight axles

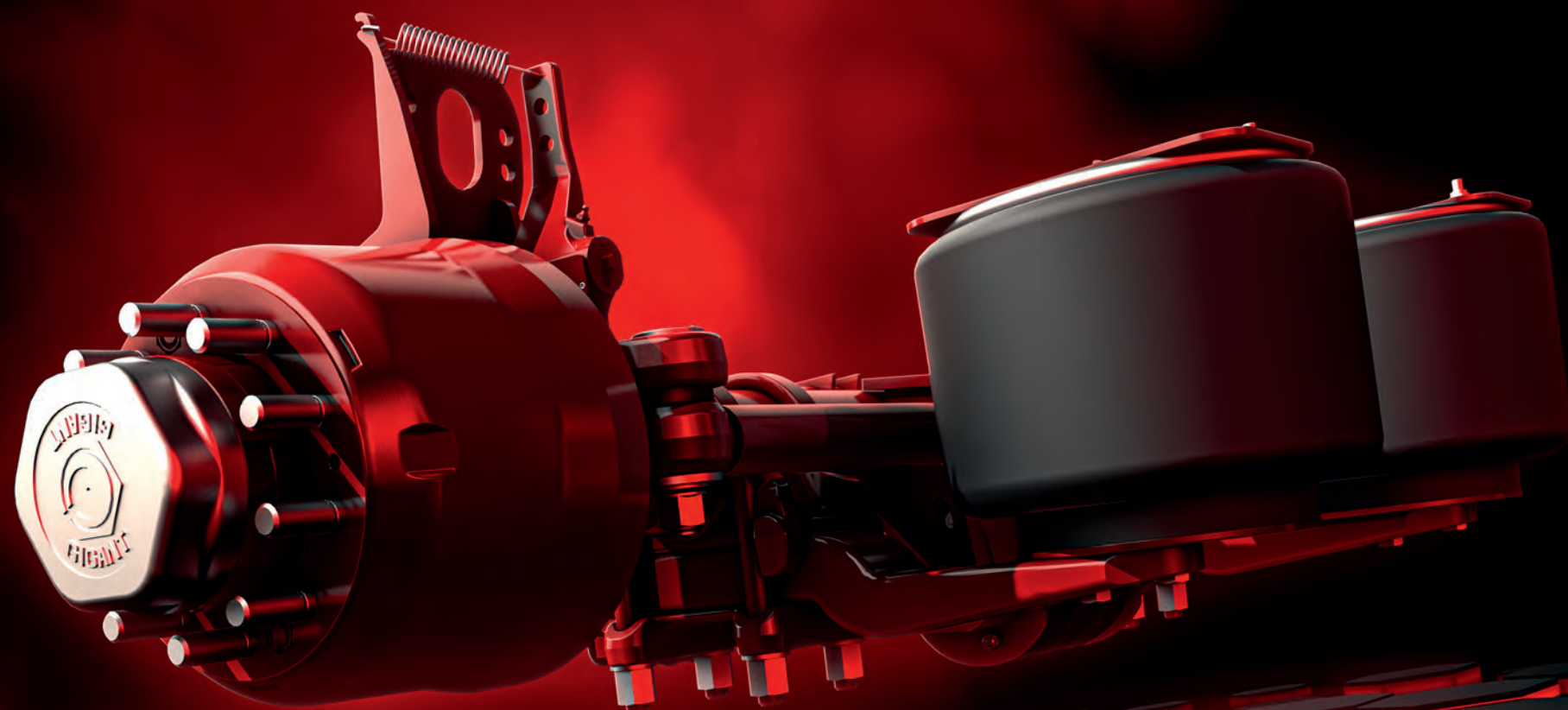
For light operations, GIGANT offers the 5.5 t to 7 t axles with drum and disc brakes. They are available for tyre sizes from 15 inches to 19.5 inches, and despite the optimised net weight, they are extremely robust and reliable.

Even with the number of wheel connections, no customer wishes are left unfulfilled. As a result, the axle is suitable for different rim combinations.



» RIGID AXLE





» STEERING AXLE



Self-steering axle

GIGANT steering axles are divided into power-steering axles and self-steering axles. The robust and low-maintenance GIGANT self-steering axle is designed for axle loads of 9 t to 12 t.

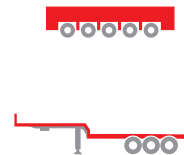
Thanks to the compact design, steering angles of up to 22 degrees can be achieved, depending on the tyre size and track width. In the standard version, GIGANT offers the self-steering axle with drum brakes. With 19.5 inch tyres, it is also available with disc brakes.

Steering axle

The GIGANT steering axle is designed for axle loads of 10 t to 12 t and can be adapted to all conventional steering systems. It was specially developed for the use in the low-loader and heavy duty sector.

This leads to more options when installing, more assembly space as well as the option of a larger steering angle of 40 degrees and more. The GIGANT steering axle is available for tyre sizes of 17.5 inches and 19.5 inches.





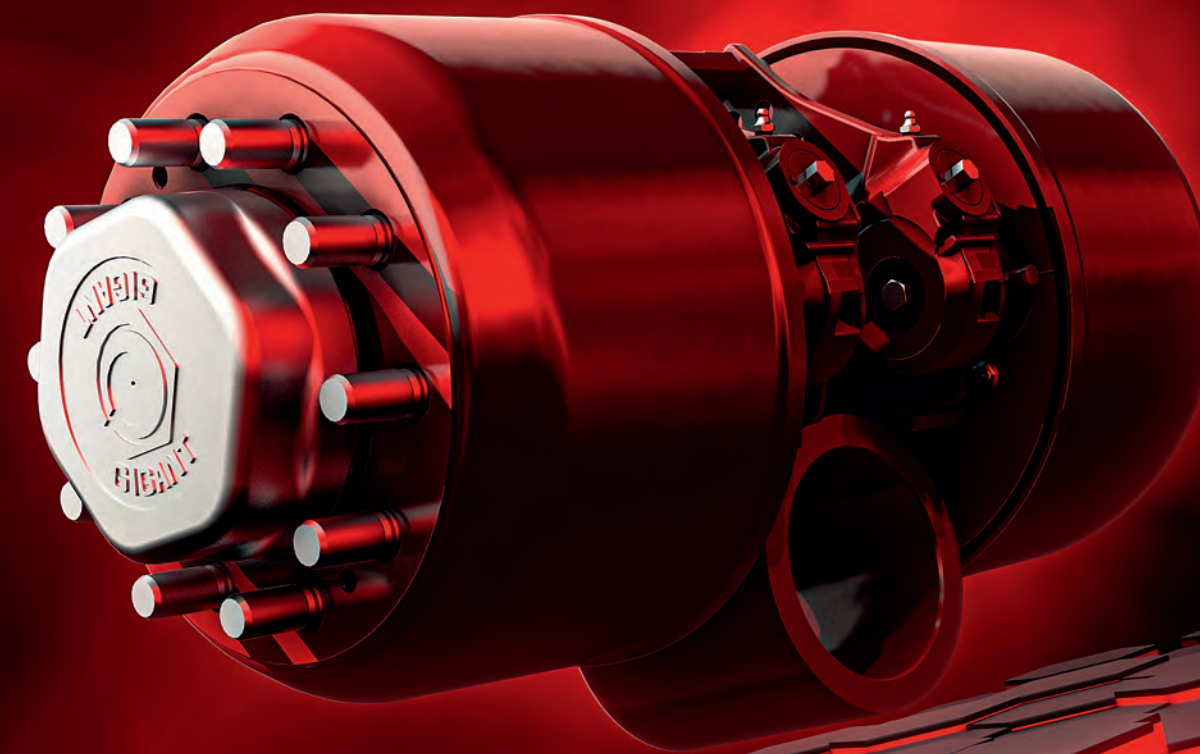
Pendle axle

GIGANT has continuously adapted the pendle axle with drum brakes over the years to customers' limited assembly spaces and therefore enables an extremely compact design, which stands out with a minimum track of 495 mm.

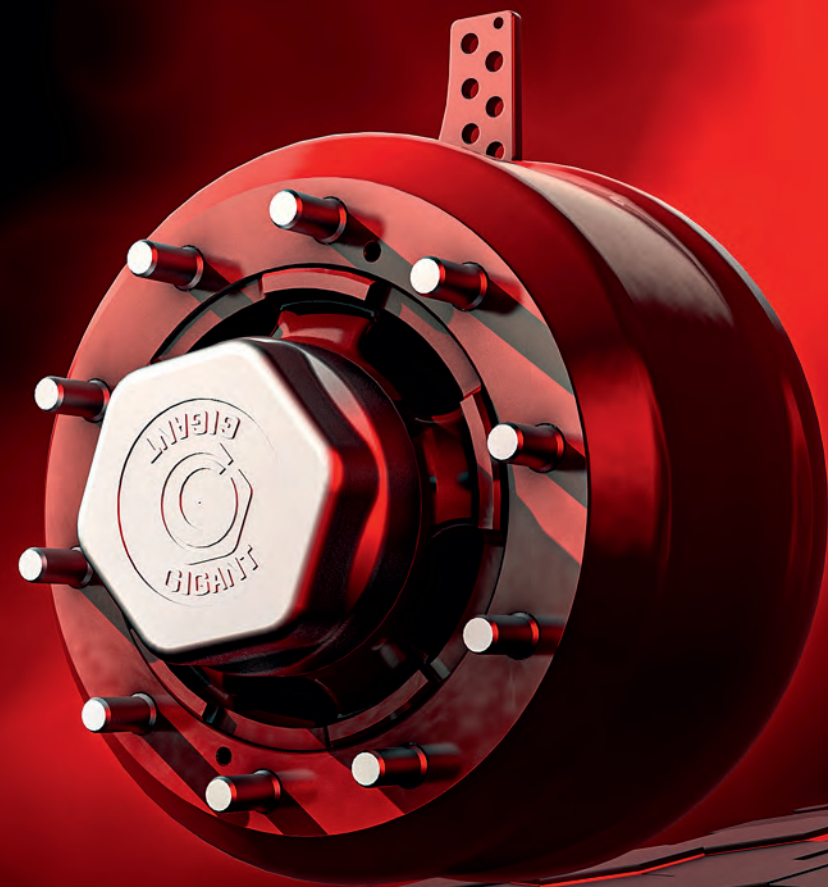
The pendle axles with drum brakes are equipped with a maintenance-free SKF compact bearing, which guarantees proven high mileage without maintenance. Moreover, the drum is installed in front of the hub, which enables quick and easy changing of the drum or brake pads without special tools.

They have two different rim types, which can be used with an offset of 55 and 66 mm.

Reliability and ease of service are particularly important when it comes to pendle axles, which GIGANT has demonstrated over the course of many years and with numerous large vehicle manufacturers.



» PENDLE AXLE



» AXLE STUB



Axle stub

The GIGANT axle stub is perfectly suited for all trailer types where the largest possible loading area and optimum cornering ability must be achieved.

In vehicles, such as livestock transporters and inloader vehicles, increased capacities can be achieved by enabling additional loads with the same road use.

Thanks to the compact and weight-optimised design, customers can benefit from considerable cost and resource savings. The axle stub is also optionally available in the 10 t version.



Mechanical suspension

Our mechanical suspensions enable an application range of 4 t to 16 t and offer ideal suspension comfort both in a loaded and unloaded state. With our mechanical LK suspensions, our customers get low wear on all axles and therefore optimum braking deceleration.

The LK suspension series has dynamic axle load compensation, so that the weight is not transferred onto the trailers. With consistent stability, the offset rocker offers greater steering angles when using steering axles. The components of the mechanical suspensions can be used at different ride heights and therefore enable versatile design methods.



» MECHANICAL SUSPENSION



» AIR SUSPENSION



Air suspension

Our product portfolio in the air suspension area covers axle loads of 3.5 t to 14 t and ride heights of 80 mm to 550 mm. Their proven robustness is not only demonstrated on the road, but also on difficult terrain, since GIGANT air suspensions enable optimal driving comfort and an effective suspension.

With the eccentric bush from GIGANT, you can adjust the track quickly and easily to reduce the rolling resistance and tyre wear. GIGANT also offers a screwed version of the air suspension bracket.



Steady Pressure

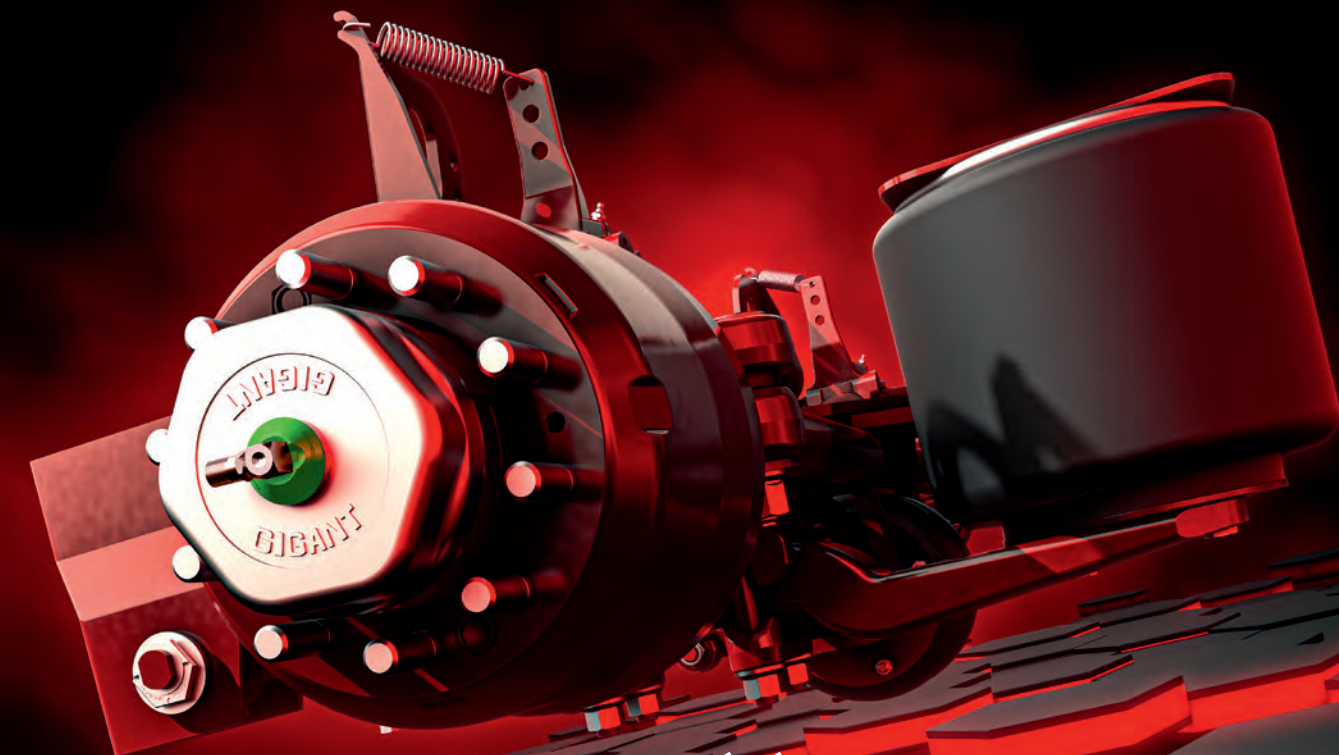
The new “GIGANT Steady Pressure” tyre pressure monitoring system constantly optimises the tyre pressure while driving and therefore extends the tyres’ service life.

The regulated pressure compensation minimises the risk of accidents and lowers the risk of failure for your vehicle. Cost-intensive repairs and downtimes are avoided and your logistics processes can be implemented more efficiently.

Integration of the “GIGANT Steady Pressure” system inside of the axle body offers ideal protection against soiling and damage of the cables and accessories. Quick and easy installation by inserting the hose and bolting on the rotor prevents installation errors and therefore reduces maintenance costs.

“GIGANT Steady Pressure” is directly connected to the trailer’s compressed air supply and ensures automatic tyre pressure monitoring and filling of the tyres. Constant optimisation of the tyre pressure considerably reduces tyre wear and fuel consumption as well as CO₂ emissions.

All rigid and steering axles from GIGANT are optionally available with the “GIGANT Steady Pressure” system.



» STEADY PRESSURE



GIGANT

PARTS & SERVICES



» GIGANT Parts & Services

The aftermarket area at GIGANT reliably supplies customers with the required original GIGANT spare parts and provides quick and competent support for maintenance and repairs thanks to the global service partner network.

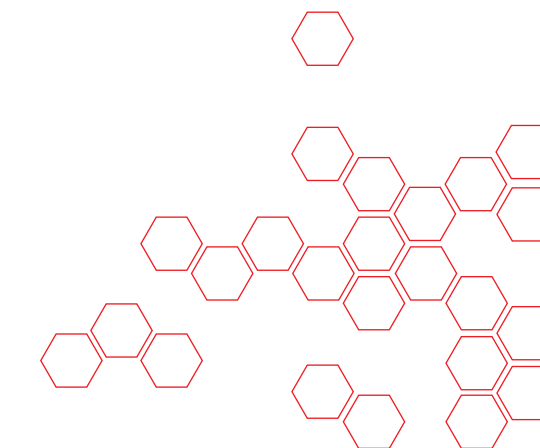
The Spare Parts online shop shows the entire range of GIGANT spare parts and allows customers to easily identify and directly order the required spare parts.

After successful registration, GIGANT customers are given access to all product information and technical drawings, and can order the required original GIGANT spare parts through the Technical Directory or the linked online shop.

The Technical Directory contains the entire GIGANT product portfolio from the last several decades, so that older axle generations can also be classified without problems and suitable spare parts can be rapidly reordered.



Our Parts & Services Team is happy to answer any other questions you may have.
More information at www.gigant.com

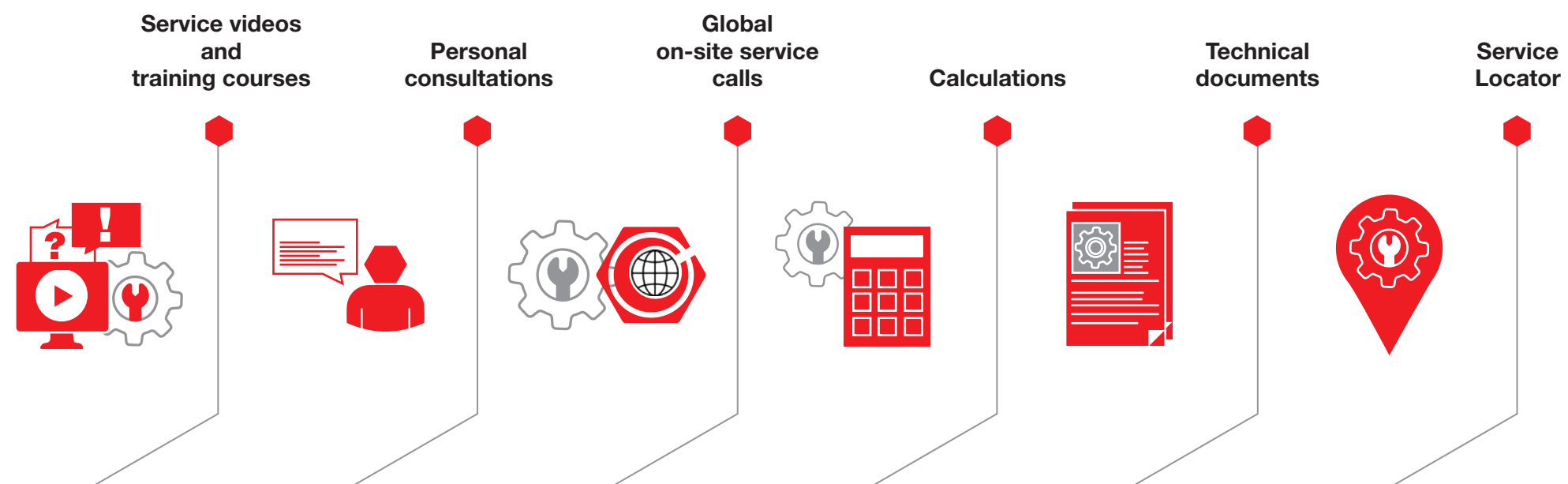


» GIGANTic service

GIGANT's operational activities focus on customised, rapid and excellent service to meet their customers' requirements. To ensure that all customers worldwide are also able to efficiently install, operate and use the highly technical innovative products, we offer extensive technical documentation in several languages and additional personal consultation from our competent service staff. Moreover, GIGANT assists their customers with mobile service technicians who perform installation and repair work as well as provide technical training.

GIGANT has a large international service partner network that is continuously expanded and optimised. Our collaboration with experienced and reliable service partners ensures rapid maintenance, repairs and supply with the required spare parts anywhere in the world. The digital aftermarket area with the Spare Parts online shop, the Technical Directory and the Service Locator optimally complete the GIGANT service offer.

All services can be found at www.gigant.com





» Training

We have the right vocational job for anybody!

To generate long-term competitiveness, numerous investments were made in the areas of Human Resources and Training at the Dinklage site in recent years. Currently, GIGANT has more than 200 employees, including 20 trainees in 10 vocational jobs at a full-fledged industrial company. To goal is to qualify young people with training, dual study programs, trainee and continuing education and to promote the next generation of skilled manpower with our extensive training program.

- Intensive preparation for final exams
- Inter-divisional trainee projects
- Attractive salary with additional benefits
- Flexible working hours arrangement
- Additional qualification as commercial manager for foreign business
- Free driver safety training
- Regular feedback discussions
- Practical training abroad with a partner company







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