



Air Spring Expertise

For the Commercial Vehicle Aftermarket





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Quality and range

Pooled know-how in air spring technology

Acknowledged worldwide for its air spring systems

As a specialist in air spring systems, we are sought-after worldwide as a development partner and OEM. Our customers benefit from a technology lead based on experience, close contacts with our customers, knowledge and sound expertise in delivering solutions.

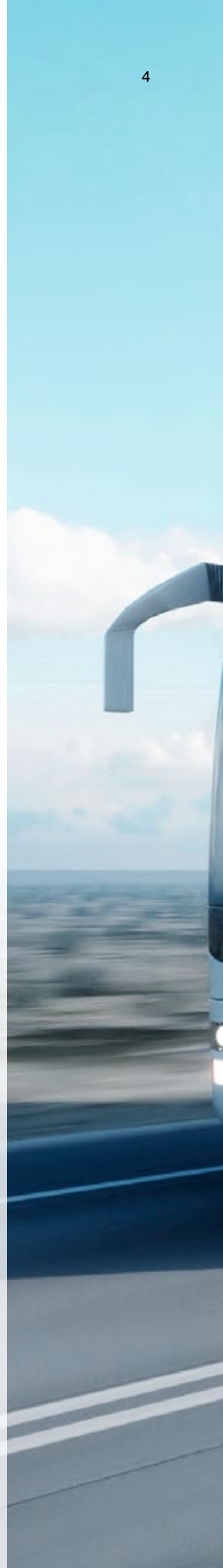
Back in 1955, Continental was the first company to market air spring bellows for buses and trucks.

Today, we develop innovative components and complete systems for adjustable air springs in commercial vehicles, buses, trailers, rail vehicles, stationary machines and construction foundation mounts. In Europe, we have lastingly shaped the market with our solutions.

In commercial vehicles, Continental air springs have a significant impact on driving safety, cost effectiveness and ride comfort.

To achieve this, we call on our constantly expanded materials and process expertise and on state-of-the-art production and test facilities. Our input as a development partner and OEM has been creating added value for our customers for decades.

ContiTech and PHOENIX –



strong brands for the challenges of the future.

We have many years of outstanding experience in supplying air spring systems as original equipment for commercial vehicles. Our ContiTech and PHOENIX product brands provide individual solutions to meet your needs in almost all commercial vehicle aftermarket applications.

The comprehensive range comprises:**Rolling lobe air springs and convoluted air springs for**

- › Buses
- › Trucks
- › Trailer

and sleeve-type rolling lobe air springs for

- › Drivers' seats
- › Cab mounts

Our air springs offer a high level of quality and reliability. Numerous renowned commercial **vehicle manufacturers** therefore fit them as **original equipment**.



Our core competencies

For fail-safe, reliable and cost-effective air spring developments

High-quality materials satisfy extreme operational demands

Continental air spring bellows are made of high-quality elastomer materials, giving them their excellent dynamic properties and their reputation for long, reliable service.

Systems competence in the service of our products

Air springs are designed to provide the load-carrying capacity, suspension characteristics and spring travel required in a given situation. All individual components, including the bellows, piston and ancillary parts, are designed to produce a perfectly harmonized system, ensuring optimal suspension characteristics and the widest possible margin of safety.

Process competence in manufacturing

Our state-of-the-art production processes guarantee our products' top performance and high quality. Our value-added chain is governed throughout by all-encompassing quality planning for all products and processes:

- › Advanced Product - Quality Planning
- › Quality Function Deployment
- › Feasibility and manufacturing analyses
- › Risk assessments (design and process FMEA)
- › Advanced Control Planning
- › Processability analyses
- › Product and process certification using standardized methods (PPAP, PPF).

The sequential linking of procedures in the production stations without interim storage points guarantees short throughput times and optimum processability.



High-tech test center sets benchmarks for modern air spring technology

We are constantly optimizing our products and devising innovations. Our central development and testing center in Hanover puts extensive research and technological resources at our disposal. Our design engineers take into account the customer requirements, of course, but also the material properties and the production processes.

This involves using calculation programs developed in-house as well as the finite element method (FEM), which simulates real-life load conditions, identifies possible weak points early on and supplies specifications for optimum product design.

Multi-stage inspections and tests accompany product development and are part of the quality assurance process in series production. Durability tests conducted in tempering chambers and on dynamic, seesaw and burst pressure test rig systems as well as in corrosion testing enable us to simulate a whole vehicle life in accelerated form. One of our outstanding test stations is the multi-axial characteristic curve test rig. It can be used for 1:1 simulation of every possible combination of axle and steering systems, kinematics and load profiles in a given vehicle under all the various road conditions.

The results obtained in these tests and simulations allow for reliable predictions as to the interplay between air spring and chassis and thus allow us to design for maximum service life under the most rigorous demands.

Certified quality

Our product quality and all our processes are regularly audited and certified by our OEM customers. Certifications to EN ISO 9001, IATF 16949, VDA 6.1 and EN 14001 confirm, moreover, that our process capability measures up to the high demands an automotive supplier must fulfill.



Quality on the move

The right product for every application

Our complete range for the aftermarket – air springs for buses, trucks and trailers



Air springs for bus and truck applications

- › Air spring with cone interface
- › Contoured steel piston with fully utilizable volume for maximum comfort



Air spring/damper module for the front axles of trucks and buses

- › Air spring and hydraulic damper in ready-to-fit unit for optimal comfort and roll stability



Air springs for maximum weight savings and comfort

- › Air spring with bead plate
- › Polyamide piston with fully utilizable volume



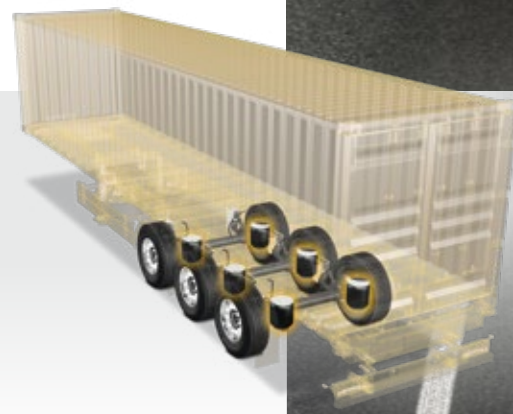
Convoluted air spring for lift axles

- › Compact design for heavy loads



Air spring for trailer axles

- › Air spring with bead plate
- › Polyamide buffer
- › Polyamide piston without utilizable volume





Buses

In buses, air springs deliver safety and ride comfort. Thanks to the self-leveling system, the vehicle maintains the same level, which means that the boarding level also remains unchanged, regardless of the number of passengers. With additional control functions, the vehicle body can “kneel”, which aids entry and alighting. This generally entails fitting two air springs to the front axle and trailing axle and four on the rear or drive axles.

Trucks

The weight of a truck, and thus the axle load, fluctuates greatly depending on the payload at any given moment. To satisfy the resulting suspension requirements, virtually all commercial vehicle manufacturers now employ air springs. In conjunction with a level control system, air springs guarantee that the vehicle body remains at a constant distance from the road. That, in turn, ensures safe driving regardless of the load carried. By actuating optional manual controls, the vehicle body can also be raised or lowered by means of air springs. This is of advantage particularly when adjusting the vehicle body height to the level of a ramp or for mounting an interchangeable platform.

Trailer

Air suspension on trailers ensures not only gentler treatment of the load being hauled and the vehicle body, but also less wear and tear on the roads. This aspect is of increasing significance as traffic volumes grow. As a rule, each axle has two air springs. In multi-axle combinations, one axle is frequently provided with an axle-lifting device to protect the tires on empty runs or with partial loads. Air springs – as a rule, of convoluted design – are also used for raising and lowering lift axles.

Driver's seats

Air-sprung seats ensure a more ergonomic and comfortable working situation, while at the same time helping to ward off driver fatigue or health impairment.

Cab suspension

Air suspension of the cab has a major impact on ride comfort. These air springs are designed as sleeve-type rolling lobe air springs and take the form of a two- or four-point suspension between the driver's cab and the chassis frame.

Our range

One stop for
two strong brands





We offer air springs from the premium brand ContiTech in original equipment quality, as well as air springs from the quality brand PHOENIX. You benefit from:

- › Many years of worldwide development excellence and experience for OEMs and the aftermarket
- › Continual expansion of the product range
- › High production capacities
- › Reliable availability of all products – today and in the future



ContiTech • PHOENIX

ContiTech

The premium brand

The ContiTech premium brand brings together our pooled expertise as a development partner to, and OEM for, the major companies worldwide. ContiTech air springs are specially developed as original equipment.

The brand therefore guarantees the ultimate in quality criteria and meets the stringent requirements of vehicle manufacturers in the international aftermarket.

The ContiTech premium brand offers you:

- › OE quality
- › Global availability
- › Complete OEM range, also for the aftermarket
- › Precisely configured suspension characteristics
- › Maximum service life
- › Maximum load capacity
- › Simple and precise fitting
- › ContiTech air spring range:
 - EMEA 550 types
 - USA/NAFTA 950 types



ContiTech

www.continental-industry.com

PHOENIX

The quality brand

With more than 60 years' experience as an OE supplier or in the air springs aftermarket, PHOENIX has established its position as a strong brand.

The extensive offering of air springs also includes numerous niche products. We are therefore able to offer our customers an extensive range with attractive cost benefits.

The PHOENIX quality brand offers you:

- › Top quality
- › Global availability
- › Extensive commercial vehicle product portfolio
- › Proven suspension characteristics
- › Long service life
- › High load capacity
- › Simple and precise fitting
- › PHOENIX air spring range:
 - EMEA 350 types



PHOENIX
Air Springs

www.phoenix-airsprings.com



The right tools for the job

Air spring press and ScrewKits

Air spring press

Continental has expanded its workshop portfolio. The company can now supply its own air spring press for fitting aftermarket air springs in commercial vehicles. This simplifies the work for the mechanics in folding the air spring in on itself and therefore fitting it in the truck or bus.

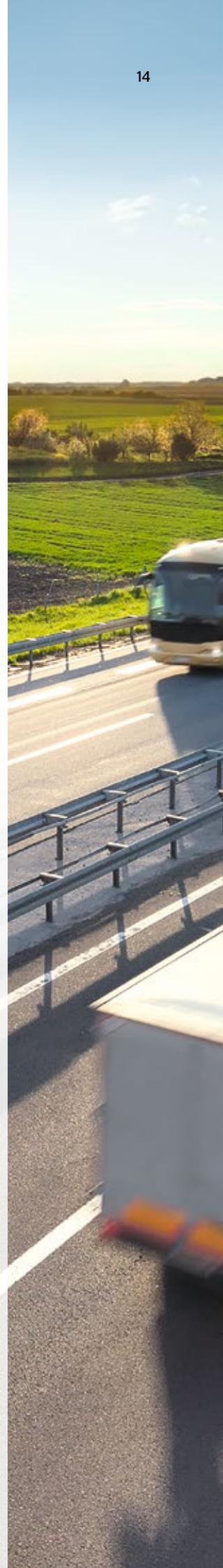
- › Suitable for the ContiTech and PHOENIX brands
- › For folding air springs in on themselves and fitting bellows onto pistons
- › Time savings thanks to easy, fast fitting
- › Compact design, ergonomic handling
- › Avoidance of damage to air springs
- › Safe operations in the workshop



Alternatively: foot pump



Go to application video:
www.continental-industry.com/aspress-en





ScrewKits

Continental offers complete fastening kits for ContiTech and PHOENIX air springs. They cover the main applications in trucks, trailers and buses.

Having the exact reference numbers for the matching air springs makes selecting the right kit straightforward. You no longer need to spend time compiling the various components. ScrewKits therefore make it easier for retailers to match the kits to the air springs and for workshops to fit them. In addition to the standard screws and nuts, the ScrewKits also include special fastener versions.

- › Fastening kits for ContiTech and PHOENIX air springs
- › Precision fit
- › Precisely referenced
- › High-quality components
- › Tested to ISO standards
- › Standardized box for optimized logistics



Service for our partners

Professional and comprehensive

Everything needed for efficient communications

We provide our partners with extensive marketing materials, both online and in hard-copy form. Our ContiTech technical literature, sales promotion material and leaflets and flyers on products and services offer effective support.

You can order your information material including print catalogs from us or download them as PDFs from the download area at

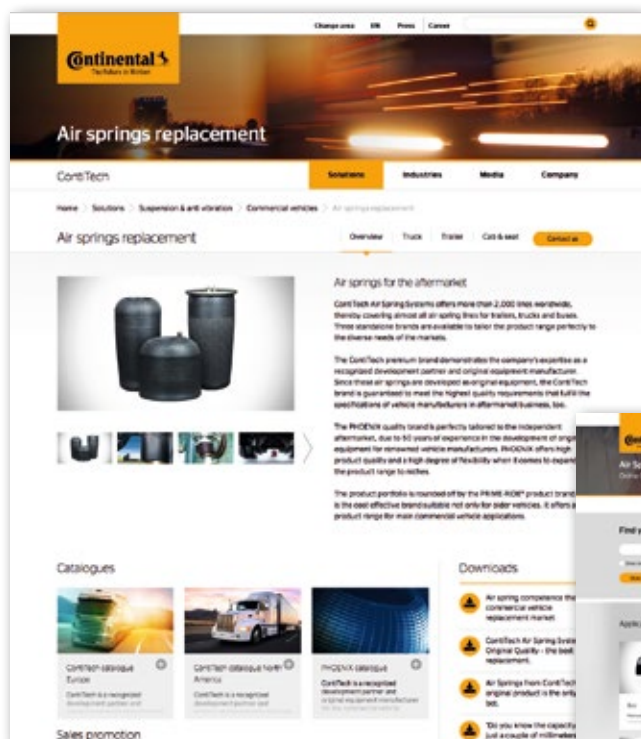
www.continental-industry.com or directly from **www.luftfederersatz.de**.

From there, you can also reach the website of the PHOENIX brand (**www.phoenix-airsprings.com**).

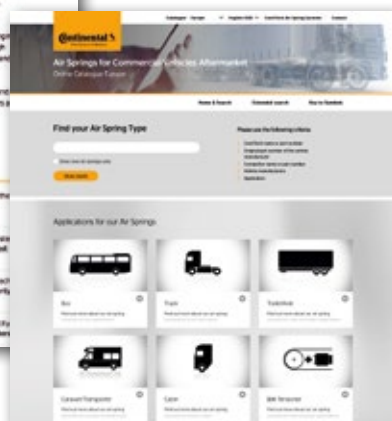
In addition, **www.luftfederkatalog.de** enables you to directly access the ContiTech online catalog, which provides an in-depth product database.



↑ Catalogue
Product Range



↑ www.contitech.de
www.airspringreplacement.com



↑ Online-Catalogue
www.airspringcatalogue.com



Talking with our partners

We deliver training worldwide to inform and qualify our partners. We showcase our products at all the important national and international trade shows and will gladly discuss your particular needs and provide in-depth advice on them.



ContiTech Air Spring Systems

Global presence



USA

- Montvale
- Indianapolis

Mexico

- San Luis Potosí

Brazil

- São Paulo

UK

- Rugby

Sweden

- Stockholm

Belgium

- Antwerp

France

- Gennevilliers
- Le Chambon-Feugerolles

Spain

- Cornellà

Germany

- Hanover
- Hamburg

Austria

- Vienna

Switzerland

- Dietikon

Hungary

- Nyiregyháza

Turkey

- Nilüfer-Bursa

Russia

- Moscow

India

- Haryana

Singapore

China

- Shanghai
- Changshu

Korea

- Cheonan

Japan

- Yokohama



● The business unit's companies and production locations

■ ContiTech Service worldwide

We have production plants in Germany, Hungary, China, Turkey, Mexico, Korea and India. Thanks to flexible production management at our plants, we are always able to respond to fluctuations in market demand. A central warehouse for the aftermarket additionally guarantees the optimal supply capability for our entire range. We manage sales by region, with our local offices collaborating closely with ContiTech's international sales organization. This ensures flexible local attention to our customer's needs and creates a high degree of customer satisfaction – worldwide.



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Please contact us:

[www.continental-industry.com/
contact-forms/general-contact-form](http://www.continental-industry.com/contact-forms/general-contact-form)



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IATF 16949
ISO 9001
ISO 14001

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