



PHOENIX Air Springs

The strong brand
in the replacement
market



 **PHOENIX**
Air Springs



A strong brand - quality for the replacement market

For more than 60 years now, air spring systems from the PHOENIX brand have proven themselves on the international commercial vehicle market. Our strengths are our broad product range and the consistent expansion of the portfolio, combined with perfect service and the high levels of availability in our central warehouse.



Production location

Our plant in Hungary has been manufacturing PHOENIX air springs for many years now. The standard of quality in this plant meets the demanding requirements of vehicle manufacturers, which we regard as the standard for the replacement market as well. Products for various applications are manufactured on modern production lines.

Service

Our primary goal is to guarantee our partners rapid availability and reliable delivery of PHOENIX air springs. That's why we attach so much importance to a strong service team and effective warehousing of all the most frequently ordered models. The air springs are usually delivered directly from our central warehouse in northern Germany.



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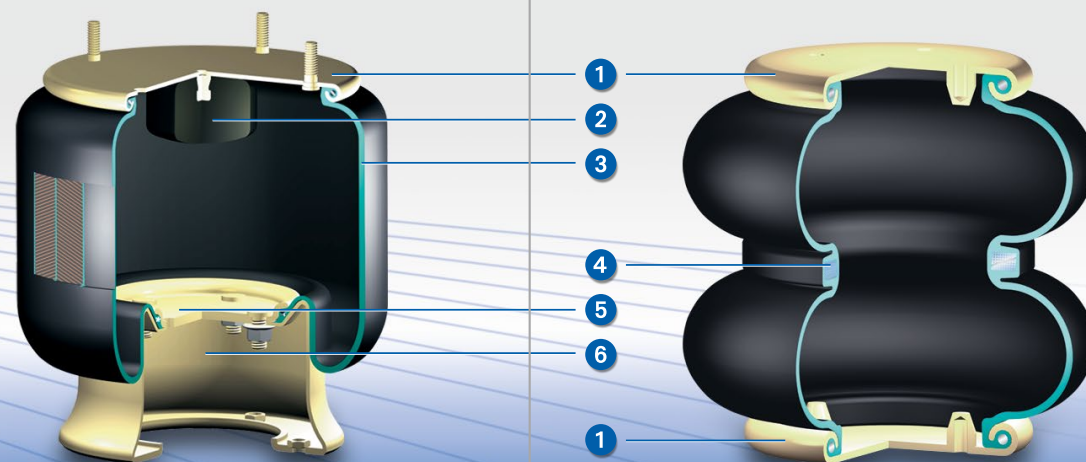
PHOENIX air spring systems for commercial vehicles

The PHOENIX brand's product range is being continuously expanded and new arrivals are regularly added to it. Available in a broad assortment of common models, air springs from the PHOENIX brand are specifically tailored to the exacting requirements of the replacement market.

PHOENIX air springs have proven their effectiveness over many years and represent a very reliable choice, because the suspension properties are designed according to the specifications for the vehicle in question and therefore provide the highest levels of comfort and effective level control. What is more this is achieved in tough everyday use, on all roads all over the world and under all manner of climatic conditions.

As well as traditional applications in commercial vehicles such as buses, trucks, trailers and semitrailers PHOENIX air springs are also used in cabs and driver's seats as well as in rail vehicles and machine mounts.

The high-performance air spring



Components in detail:

- 1 The crimping plate is used for attaching the air spring to the vehicle frame.
- 2 The bumper is used for limiting the compression travel and provides limp-home capabilities.
- 3 The air spring bellows, which is the actual spring element, consists of an inner layer, the reinforcement material and the outer covering layer.

- 4 The middle ring is used for stabilizing the air spring.
- 5 The clamping plate is the connecting element between the air spring and piston. Depending on the model, it can be vulcanized into place or designed as a true clamping element.
- 6 The piston is the connection between the air spring and the axle.

Air suspension in trucks

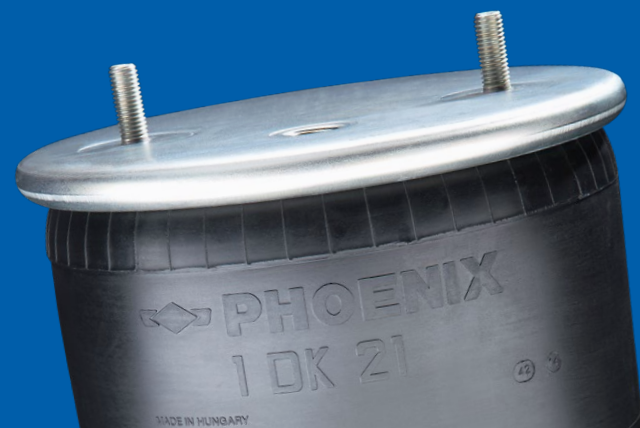
Nowadays, heavy-duty trucks (> 16 t) in particular are equipped with air springs as a matter of course. Increasingly, however, manufacturers are also equipping even medium-duty trucks (7.5 -16 t) with air springs.

Air suspension systems in buses

Manufacturers first realised that air springs could be used to enhance comfort in buses and began to fit them in production some 60 years ago. Nowadays, almost 100 % of buses in Europe are equipped with air springs. In this case, the air springs not only ensure a high level of ride comfort, but also a constant vehicle height. Furthermore, they offer the possibility of lowering the bus when passengers are boarding or alighting.

Modern trailers/semitrailers

Trailers and semitrailers are now almost exclusively equipped with air suspension in order to protect the cargo and the vehicle's body as well as to guarantee safe driving characteristics. It is now also common knowledge that semitrailers with air suspension cause much less damage to roads than equivalents with steel suspension.



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