

*SEHA AIR*<sup>®</sup>  
**aerotech**<sup>®</sup>

PRODUCT CATALOGUE



**SEHA AIR**  
SUSPENSION AIR SPRINGS



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# Product Information

## TRUCK / TRAILLER

Trucks of all types, particularly container vehicles and vehicles with interchangeable bodies, are fitted with air spring with great success, here there is a wide variety of possible uses on the front, rear and tag axle, as well on the leading axle in the of semi-trailer trucks.



Apart from low natural frequency wich protects the vehicles, load and road air-prings after the possibility of raising and lowering the vehicle body for loading and unloading.

## BUSS

buses benefit the advantages offered by air spring to achieve consistently high degrees of riding comfort and vehicle heights independent irrespective of load.



other countries the usage of air suspension systems is increasing.

This application generally involves two airspring being fitted to the front axle and four to the rear axle in the buses.

In Europe and USA, all buses are fitted with air springs, whereas, in mony

Airsprings are developed according to do specified conditions, such as load capacity characteristic and spring deflection. For commercial vehicle a distinction is made between basic types of air springs, namely rolling lobe air springs and convoluted.

# Rolling Lobe Air Springs

## With Conical Beads

Depending on their height, they achieve high strokes resulting in high comfort without a major change in diameter. This high stroke advantage of conical bead rolling lobe air springs enables the loading / unloading and assembling / disassembling operation easier for these vehicles.

The conical sealing surfaces of these springs make them to be reused when the air spring bellows are replaced.



## With Clamping Beads

Rolling lobe air springs with clamping beads differ from the ones with conical beads by the method of fixing. The fixed connection prevents the air springs from being detached from the plate even under excessive movement conditions.

Rolling lobe air springs with clamping beads are supplied by Airtech as a system, i.e. the air spring bellows, plates and the internal bumper, where necessary assembled as a complete unit.



## Traceability



Complete product codes can be differentiated according to piston material

- If order number ends with C means Steel Piston
- If order number ends with CP means Plastic Piston
- If order number ends with S means Service Assembly

# Rolling Air Springs

## With Semi - Assembly

**AIR FITTING**

The part that inlet the air

**TOP PLATE**

Connects the air spring to the vehicle chassis

**CORD REINFORCED FABRIC**

Maintain the loading capacity of air spring

**RUBBER LAYER**

Cover and strengthen of Cord - Reinforced fabric as inner and outer layers

**BUMPER**

A solid rubber bonded to plate or piston in order to prevent damage of air spring of the vehicle

**BOTTOM PLATE**

Holds the rubber bumper and connects the airspring to the piston on the vehicle



## With Piston

**AIR FITTING**

The part that inlet the air

**TOP PLATE**

Connects the air spring to the vehicle chassis

**CONNECTION STUD**

Connects the air spring to the vehicle chassis

**BUMPER**

A solid rubber bonded to plate or piston in order to prevent damage of air spring of the vehicle

**RUBBER LAYER**

Cover and strengthen of Cord - Reinforced fabric as inner and outer layers

**CORD REINFORCED FABRIC**

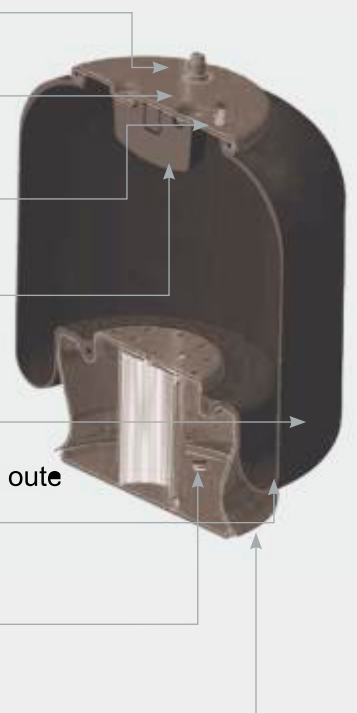
Maintain the loading capacity of air spring

**PISTON BOLT**

Connects the air spring to the vehicle axle

**PISTON**

The lower part of the spring assembly that the rubber roll over





# Working Condition

## Preventative Maintenance

All surfaces including the air spring and the installation area should be free from oil, petroleum and solvents.



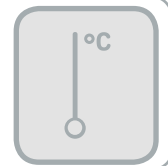
Hydraulic and pneumatic lines of the air supply systems should be leakproof.



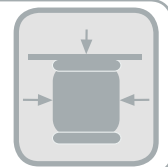
Air pressure should not exceed 7 bar / 101 psi

MAX  
7BAR/  
101PSI

Ambient temperature should be between -40° C to +70° C



There should be sufficient clearance around the air spring to prevent any contact.



All bolts should be tightened according to the required torque specifications.



Vehicle should be loaded as per factory specifications and loads should be properly secured.



Air springs should be kept clean. Use water and soap for cleaning.

