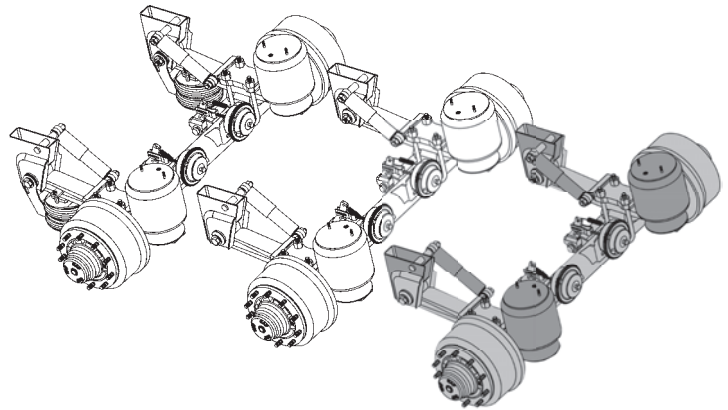


# SAF AIR SUSPENSION SYSTEM

HIGH QUALITY  
COMPONENTS  
FOR TRAILERS  
AND  
SEMI-TRAILERS



**THE PROVEN TECHNOLOGY TO IMPROVE  
YOUR TRAILERS EFFICIENCY**



# THE SAF AIR SUSPENSION –

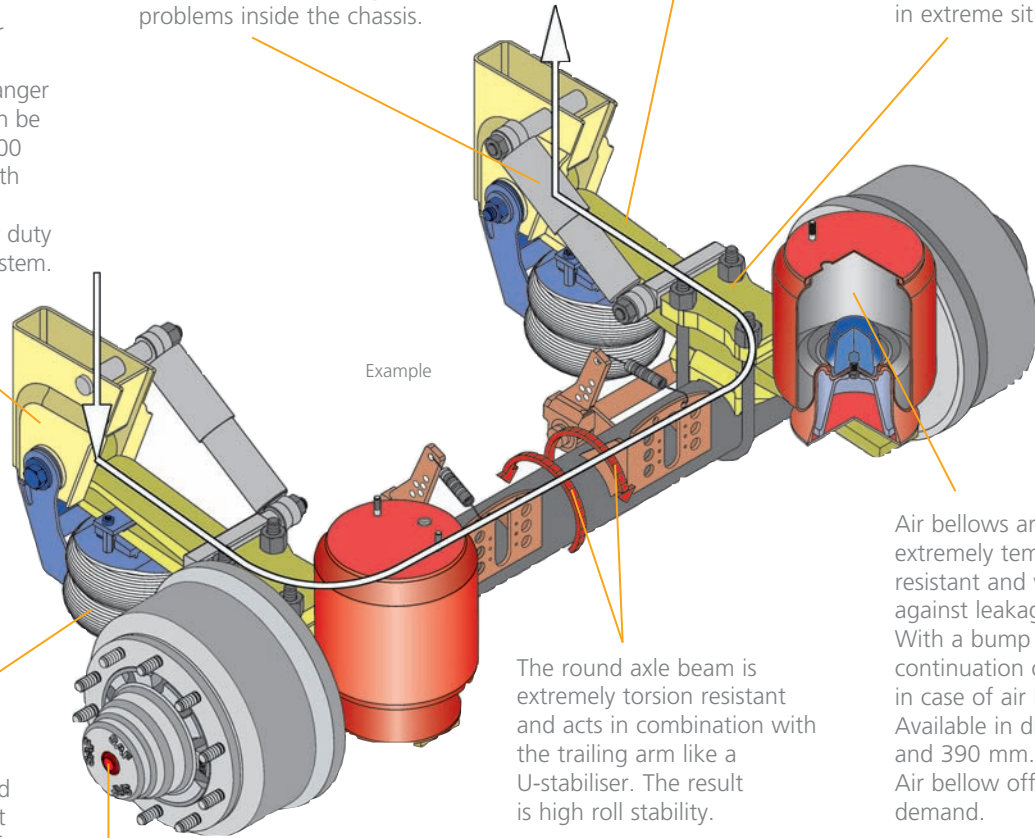
Slim hanger brackets for 120 mm chassis width. By choosing different hanger brackets ride heights can be achieved from 200 to 500 mm. Optional with length adjustment. Maintenance-free heavy duty trailing arm clamping system.

Heavy duty double-acting, laterally placed shock-absorbers – easy to maintain. Optional screwed shock-absorber fixings – the solution for dismantling problems inside the chassis.

Parabolic trailing arms are available for 6–13 tons axle capacity and centre of gravity heights.

Axle seats + clamping plates provide safe positioning also in extreme situations.

Example

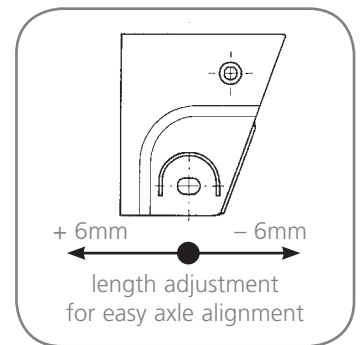
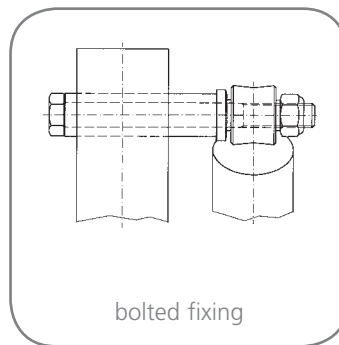


The optionally integrated 2 sided axle lift does not require space in front of the hanger-bracket and can easily be installed as retrofit. A centre lift and 1-sided lift are available where needed.

The round axle beam is extremely torsion resistant and acts in combination with the trailing arm like a U-stabiliser. The result is high roll stability.

Air bellows are reinforced, extremely temperature resistant and vulcanised against leakage. With a bump stop allowing continuation of the journey in case of air loss. Available in dia. 300, 350 and 390 mm. Air bellow offset upon demand.

Extremely maintenance friendly and economically during the whole lifetime. Available from 8 to 13 tons axle-capacity.



# THE ADVANTAGES OF IT'S FUNCTION

## AIR-SUSPENSION WORKS ON THE PRINCIPLE OF COMPRESSED AIR

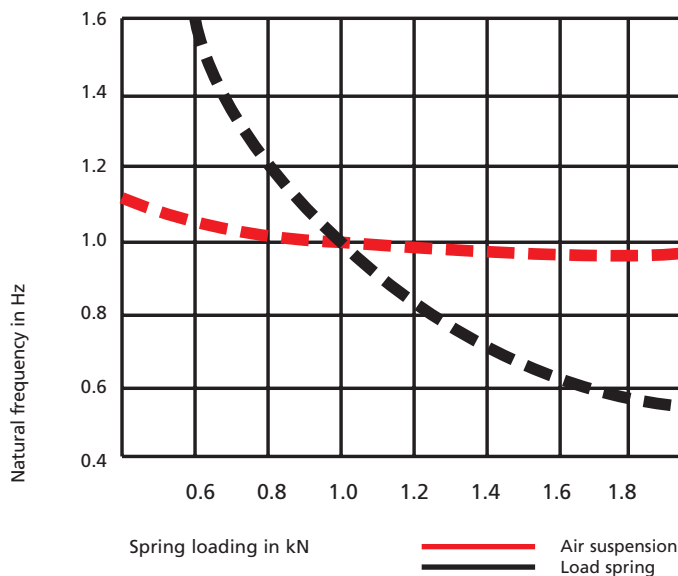
The basic principle is the use of air bellows positioned between the vehicle's axles and chassis so as to use the elastic properties of the air as a suspension medium.

Heavy duty shock absorbers minimize potential shocks to the trailer. The air supply is generated by the brake system and passes via the levelling valve into the air bellows.

## THE LEVELLING-VALVE

maintains a constant ride height in all loading situations by adding or releasing air to/from the system

Each air suspension module can be combined to form a single/tandem or triaxle configuration. All suspension modules are mechanically independent.



## A SPRING RATE ACCOMODATED FOR CHANGING LOAD CONDITION

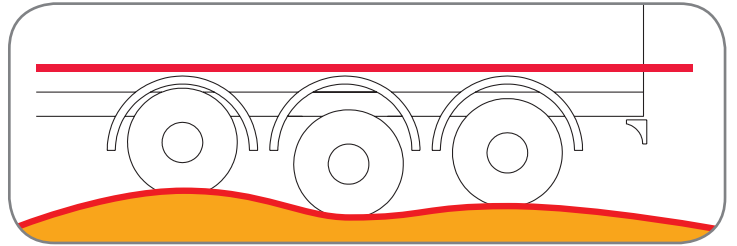
- no wheel bounce – reduced tyre wear
- comfort for driver
- extended lifetime of chassis and
- optimum protection of load, chassis and road under all driving conditions



# THE BENEFITS FOR YOUR BUSINESS

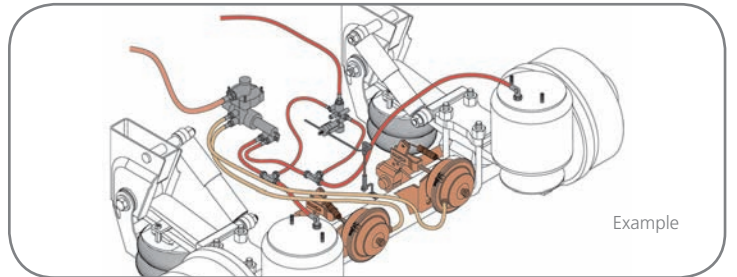
## PERFECT LOAD-DISTRIBUTION

- axle travel per module up to 420 mm
- identical load on all axles
- road friendly
- load friendly



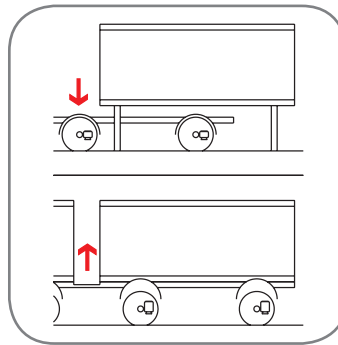
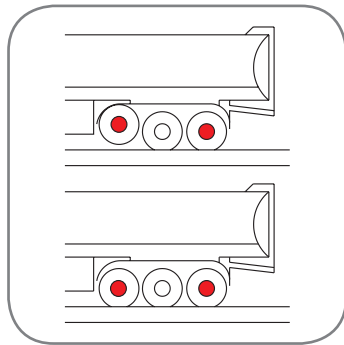
## BRAKE SAFETY

- load-dependent brake pressure via the load sensing valve
- balanced braking
- reduced wear of friction materials and tyres



## OPTIONAL AXLE LIFT(S)

- reduced tyre wear
- less fuel consumption

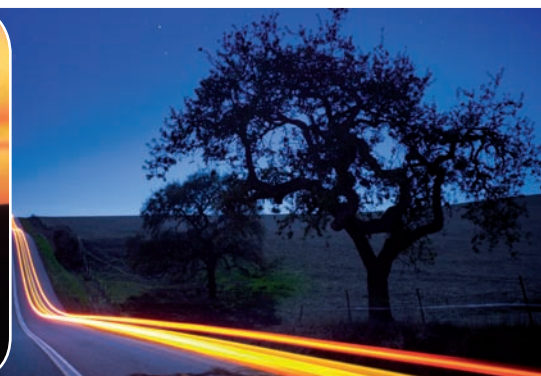


## OPTIONAL CHASSIS RAISE AND LOWER FACILITY

- time saving loading on different ramp heights
- swap body operation

As early as 1964, SAF was the first European manufacturer to develop and introduce workable air suspension systems. The main features of today's modul suspension:

- robust construction, although light in weight
- high lateral stability
- low maintenance
- full product range including, useful options.





SAF's history begins in 1881 in a village forge in Germany with the invention of a new plough. The family business soon starts building steel axles for agricultural vehicles, and under the name Otto Sauer Achsenfabrik (SAF) develops into one of the leading manufacturers of trailer axles and suspension systems in Europe.

A safety coupling between plough and horse team can be found at the beginning of Holland's history. The Safety Release Clevis Company was founded in South Dakota, USA, in 1910. After its move to Holland, Michigan, the company emerges as one of the largest supplier companies to the commercial vehicles industry under the name The Holland Hitch Company.

The merger of the two companies to form SAF-HOLLAND in 2006 creates one of the leading global suppliers of high-quality components and services for the commercial vehicle industry. Alongside axle and suspension systems for trailers and semi-trailers, the product range also includes kingpins and landing gear as well as fifth wheels for tractors, air suspensions, coupling products and numerous other components for buses and trucks.

In 2008, SAF-HOLLAND takes over Georg Fischer Verkehrstechnik, a leading supplier to the commercial vehicle industry, expanding its product range with GF fifth wheels and kingpins as well as the TRILEX wheel system and accessories for tractors, semitrailers and trailers.

Today the SAF-HOLLAND group is represented on all continents and distributes its products and services worldwide under the brand names SAF and HOLLAND as well as GF, TRILEX and NEWAY. It possesses its own distribution network with global service and dealer locations.

## HIGH QUALITY COMPONENTS AND SYSTEMS FOR THE COMMERCIAL VEHICLE INDUSTRY



EUROPE · NORTH AMERICA · SOUTH AMERICA · AFRICA · ASIA · AUSTRALIA

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