

HD-O / MD-O

Off-Road
Suspension



The lube-free suspension for
off-road use



Winning advantages

The hydraulic suspension for off-road use such as agriculture & forestry or roadworks

When transporting heavy loads off paved roads, the chassis is subjected to the hardest test of resilience and stability. At the same time, comfort, manoeuvrability and maintenance properties should not be sacrificed either. TRIDEC HD-O and MD-O suspensions have been developed specially for off-road use and offer unique advantages.

At home off-road

- All-terrain
- Large range of spring in all directions (longitudinal and transverse oscillation)
- High horizontal roll axis
- Torsion-free suspension
- Optimum stability
- Top control
- Levelling
- Large ground clearance

Increased comfort

- Maintenance-free joints
- Maximum roll and directional stability
- Easy towing in both on-road and off-road use
- Optimum manoeuvrability and agility
- A great deal of ease while driving at higher speeds

Noticeable savings

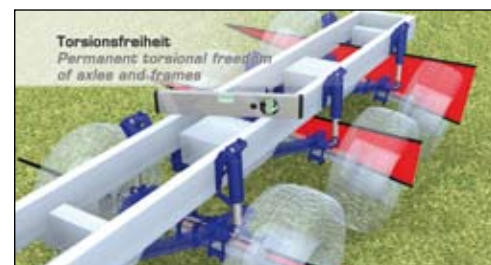
- Reduced fuel consumption
- Less wear and tear on tires
- Low-maintenance

Resilient

Axle load:

- MD-O up to 10 t
- HD-O up to 14 t

Tridec is an innovative company specialised in the development and production of mechanical and hydraulic steering systems as well as suspensions for all types of trailer and semi-trailer. Tridec has been part of JOST-World since 2008.





Winning technology

The construction of the TRIDEC HD-O and MD-O suspensions is unique and a product of TRIDEC's long-standing experience in developing axle systems. The HD-O and MD-O can be combined with axles from various manufacturers. The axle beams are simply placed into the appropriate bracket in the delta connecting roads and screwed tight.

A rubber-mounted ball joint secures the drawbar to the chassis. This ball joint accommodates the braking forces and absorbs vibrations. To protect the axle, the drawbar forms a delta together with the axle. This prevents the axle and drawbar from bending while driving over potholes or when facing obstacles. Special hydraulic cylinders are utilised as a suspension element. Shear forces are absorbed by a Panhard rod. The body roll centre of the suspension is located at the exact height of the middle of the central ball joint. When using multiple axles, a high horizontal roll axis is created, which is thus located close to the loading centre of gravity. This helps prevent the vehicle's angle of inclination from being too large and, at the same time, protects the chassis because no torsional forces are transferred. In addition, it allows torsion-free construction.

Simple assembly and maintenance

- Parts are delivered pre-assembled
- Low maintenance due to high quality materials and solid construction
- Maintenance-free rubber bearings

Versatile use

- Modular construction
- Usable in single or multi-axle vehicles
- Wheelbase 1600 / 1700 / 1810 mm

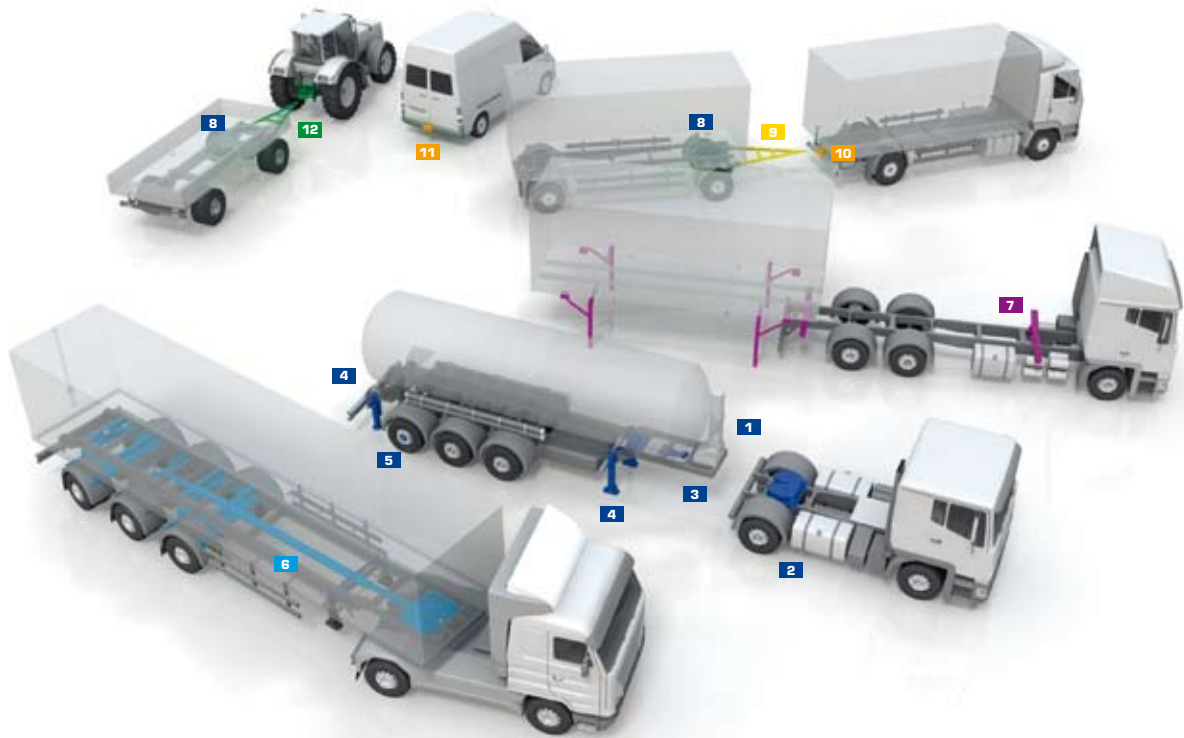
Ideal adjustability

With the tritronic steering system

- Automatic height adjustment
- Water level function
- Axle alignment
- Eight additional dual action hydraulic functions possible (or 16 electric functions)



Products JOST-World



1 Systems

Sensor-controlled systems monitor and automate manual processes, thus providing for more safety and efficiency in your fleet.



2 Fifth wheel couplings

We offer a wide selection of fifth wheel couplings, 2" and 3 1/2" in a wide variety of mounting heights, bearing types and models. The program is completed by mounting plates, sliders and dual height fifth wheel systems.



3 King pins

King pins are available in 2" and 3 1/2" for all systems in various models.



4 Modul landing gear

Any customer specs can be fulfilled thanks to the landing gear's modular construction with variable mounting and bolting heights, its differing crank and connection shaft lengths and its four different foot types. Furthermore, JOST offers a multitude of special landing gears for special applications.



5 Hubodometer

The range of products includes various hubodometers for calculating the distance driven, independent of the vehicle, for all types of wheeled vehicles.



6 TRIDEC

TRIDEC develops and produces independently manufactured mechanically and electronically controlled steering systems for trailers and wheel suspension systems.



7 Container equipment

Parts for alternating systems, supports, locks and bolsters, swap body lifting devices, guide rollers and bearings – all components required in a flexible fleet.



8 Ball bearing turntables

The ball bearing turn tables and slewing rings were the first products that JOST produced. The wide range of top-quality ball bearing turntables is based on this experience.



9 Drawbars and drawbar eyes

Drawbars and towing eyes are available in various models and can be designed to suit the customer's specific needs.



10 Towing hitches

There is a multi-faceted range of products for road traffic available – towing hitches, hook trailer hitches, towing eyes, accessories and special models.



11 VARIOBLOC

VARIOBLOC is a multi-functional alternating system for transporters, cross-country vehicles and busses. Courtesy of a quick-change plate, it enables towing hitches, hitch balls or hook trailer hitches to be changed rapidly.



12 Agricultural hitches

An extraordinarily extensive range of products for agriculture and forestry: Towing hitches, trailer trestles, clutch carriers, towing eyes, drawbars and accessories.

JOST



REGENSBURGER
ZUGGABEL

TRIDEC