

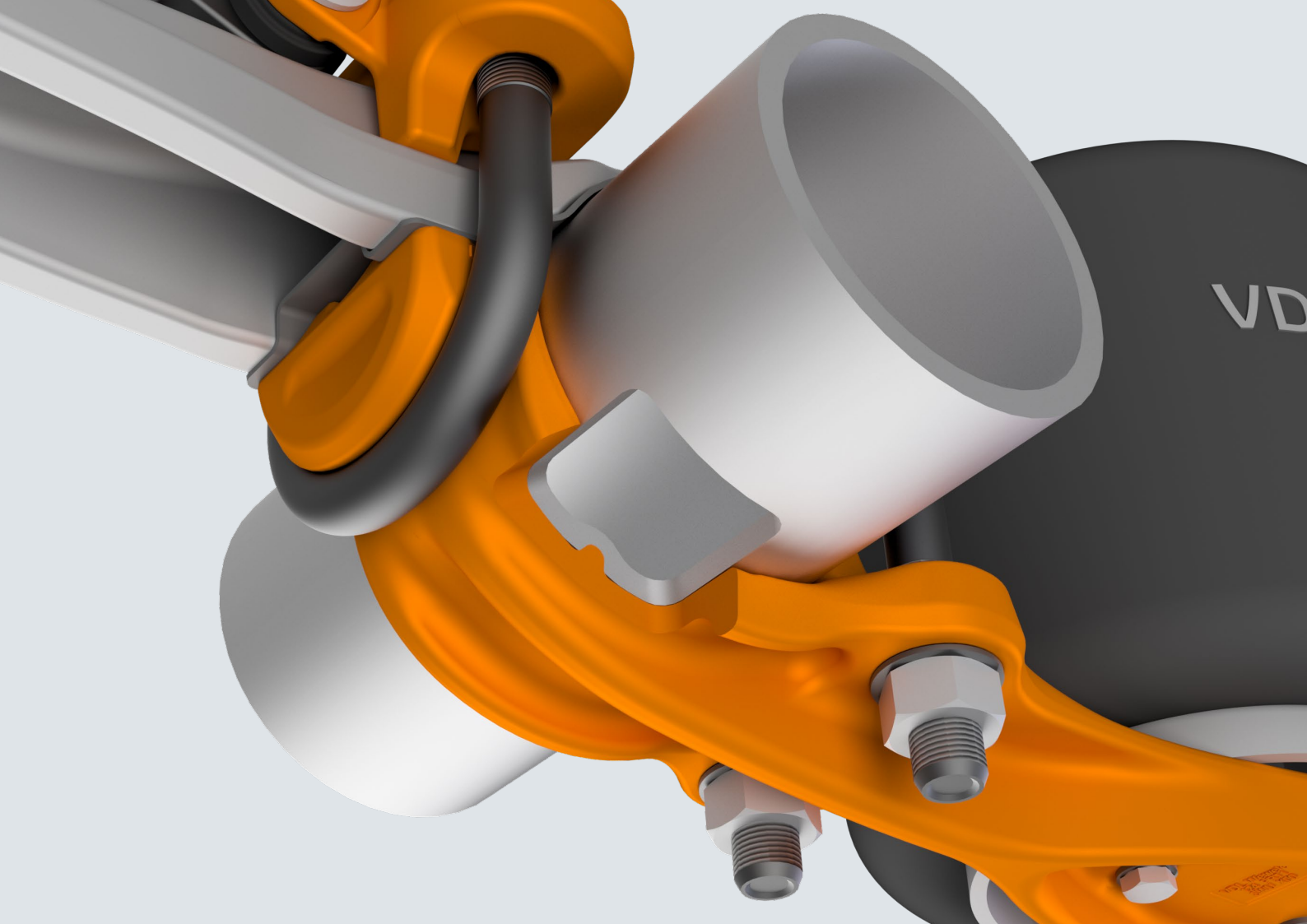


VDL WEWELER



MBS OMEGA RANGE

STRENGTH THROUGH COOPERATION



MBS OMEGA RANGE

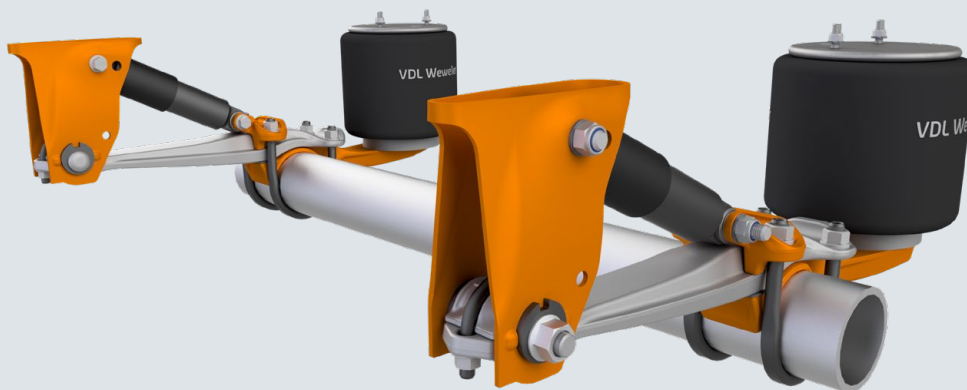
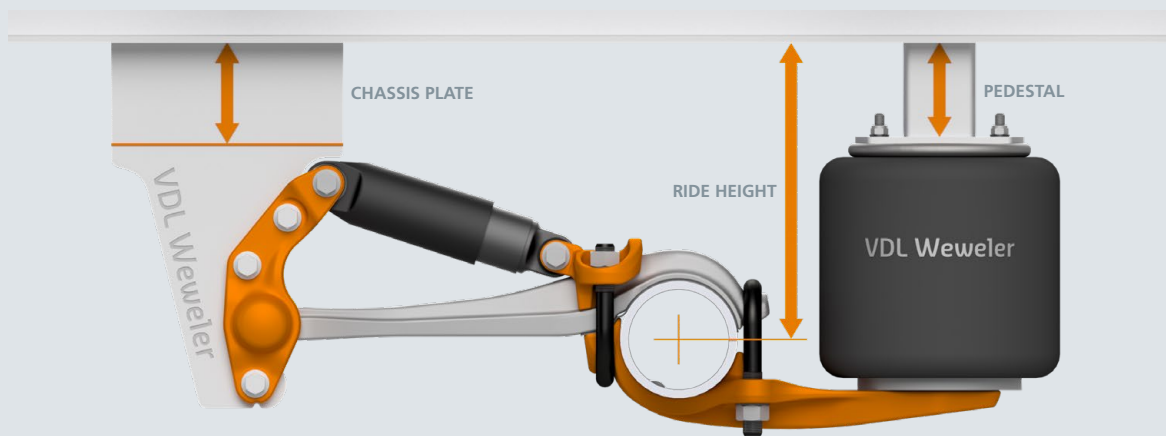
For nearly 100 years, VDL Weweler has been renowned for its expertise in the development and production of air suspension systems, axle-lifts systems, parabolic springs and special non driven axles. VDL Weweler is proud to introduce a new modular bolt-on solution. The MBS OMEGA is the latest revolutionary range of air suspensions for the future.

The MBS OMEGA air suspension range consists of re-alignment and maintenance free 9/10 tonnes air suspension systems that have been developed in house in accordance with VDL Weweler's philosophy: multi -purpose, robust, but still extremely light weight.

UNIQUE CLAMPING

The air suspension is clamped around the axle using U-bolts. The clamping is firmly held into position by an ingenious, cold-formed recess in the axle beam (Patent-pending). The recess in combination with the counter clamping part ensures an extremely robust and durable connection, and if new fastening parts are required, the recess can easily be reused.

The recess can be pressed in virtually every Ø146 axle beam in the market. This can be done after the axle is completely finished or during the production process, offering both trailer builders and axle manufacturers the needed flexibility to optimise their manufacturing process and choice of spring track.



The machine needed to press the recess in the axle beam is developed in-house by VDL Weweler and, depending on the customer's business model, this can be done at the customer or at VDL Weweler's production facility in The Netherlands. For on-site use at a customer the machine can either be purchased or leased.

LIGHT WEIGHT VS EXTREME PERFORMANCE (BEST OF BOTH WORLDS)

The MBS OMEGA air suspension systems house a revolutionary new "omega" shaped spring steel trailing arm which, in combination with the other elements of the suspension, make it very light suspension systems. Weighing approximately 100 kg per axle row, the MBS OMEGA systems are the lightest 9/10 tonnes spring steel suspension systems available in the European market today. In terms of weight vs performance, there is no comparison and the OMEGA range is in a class of its own.

BLADE SOLUTION

Especially for trailer builders who want to optimize their chassis production, VDL Weweler has also developed the MBS OMEGA "BLADE" solution. The only difference with the rest of the range is the special chassis connection, which is called "BLADE".

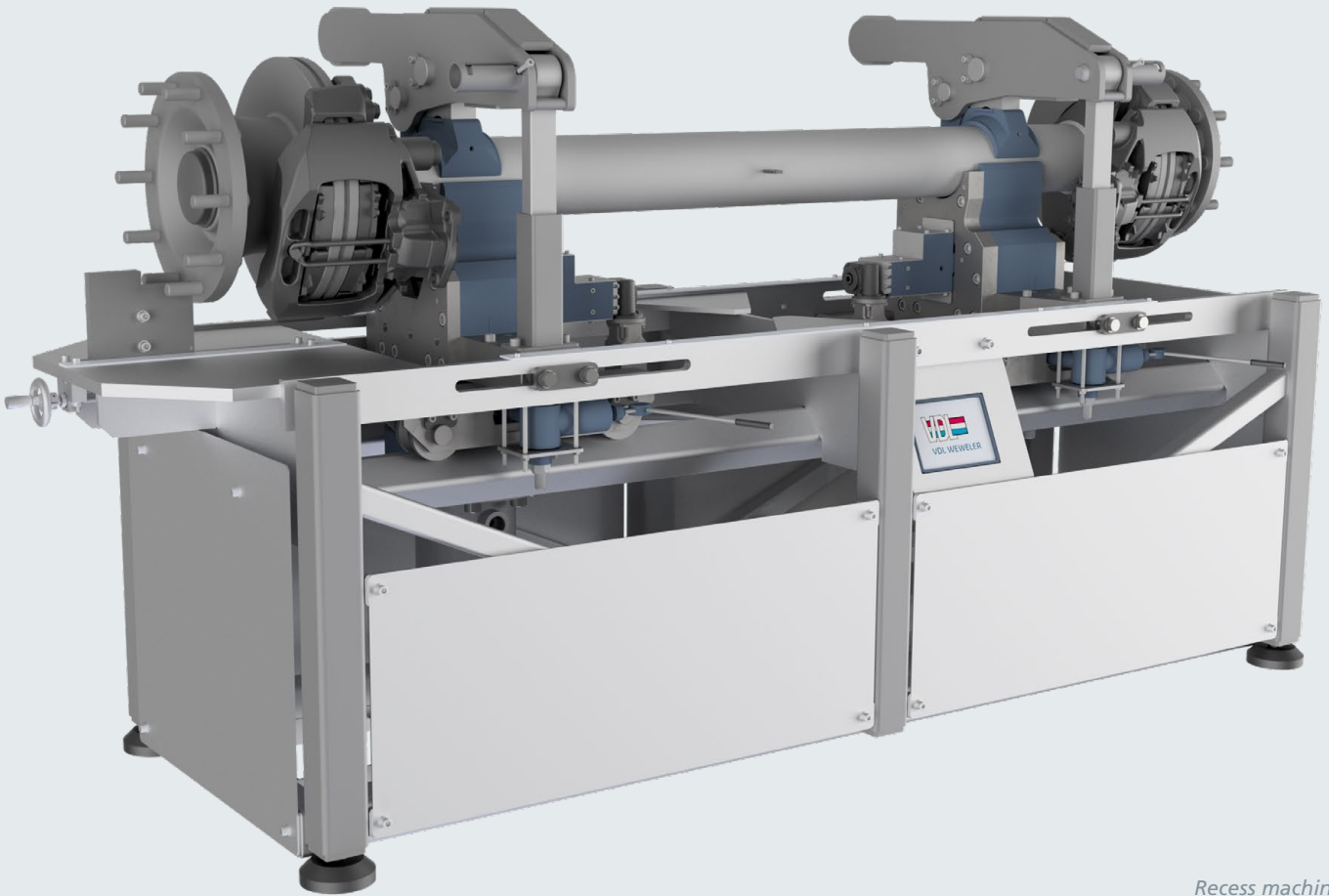
This "BLADE" bracket design is a patent-pending chassis mounting, which allows the customer to make their own sheet-metal hanger bracket plate and incorporate this in their finished chassis. As the MBS OMEGA systems are end-coated, they can simply be bolted to the finished chassis. The unique alignment feature of the "BLADE" includes a new pivot bush design, in which the classic pivot bush is eliminated and replaced by two conical shells that are clamped between the hanger bracket mountings and the conical-shaped front section of the spring steel trailing arm. The system alignment is very easy and done by rotating the hanger brackets mountings over the center top bolts.



Besides being unique, the Blade-style hanger bracket design is light weight and welded in the middle of the chassis rail, meaning fewer reinforcements are required in the chassis beam.

APPLICATION AREA

The MBS OMEGA air suspension systems can be used worldwide for 9 tonnes on- and off-road single and twin-wheel applications, 10 tons on- and off-road super-single applications worldwide and 10 tonnes twin-wheel on-road applications in Europe.



Recess machine

RIDE HEIGHTS

A range of ride heights from 180mm to 550mm can be achieved by using the low, standard or high version of the MBS OMEGA range. The whole range exists of just two trailing arms, several hanger bracket heights, a few shock absorbers, air springs and tail-ends. For the "BLADE" version the height variation comes from changing the length of the chassis plates and pedestals.

CUSTOMER SPECIFIC

Depending on the requirement, the MBS OMEGA air suspension systems can be adapted to the specific needs of the customer.

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