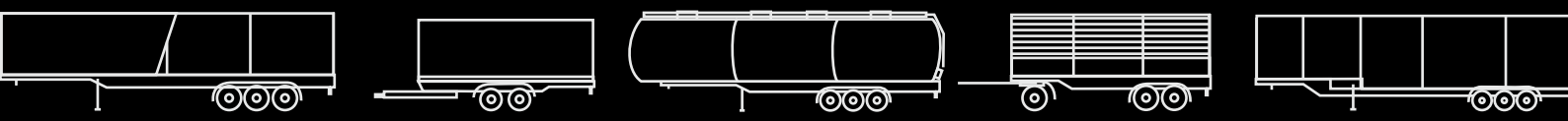
gigant

the driving force

gigant axles with PDC

(pneumatic damping control)



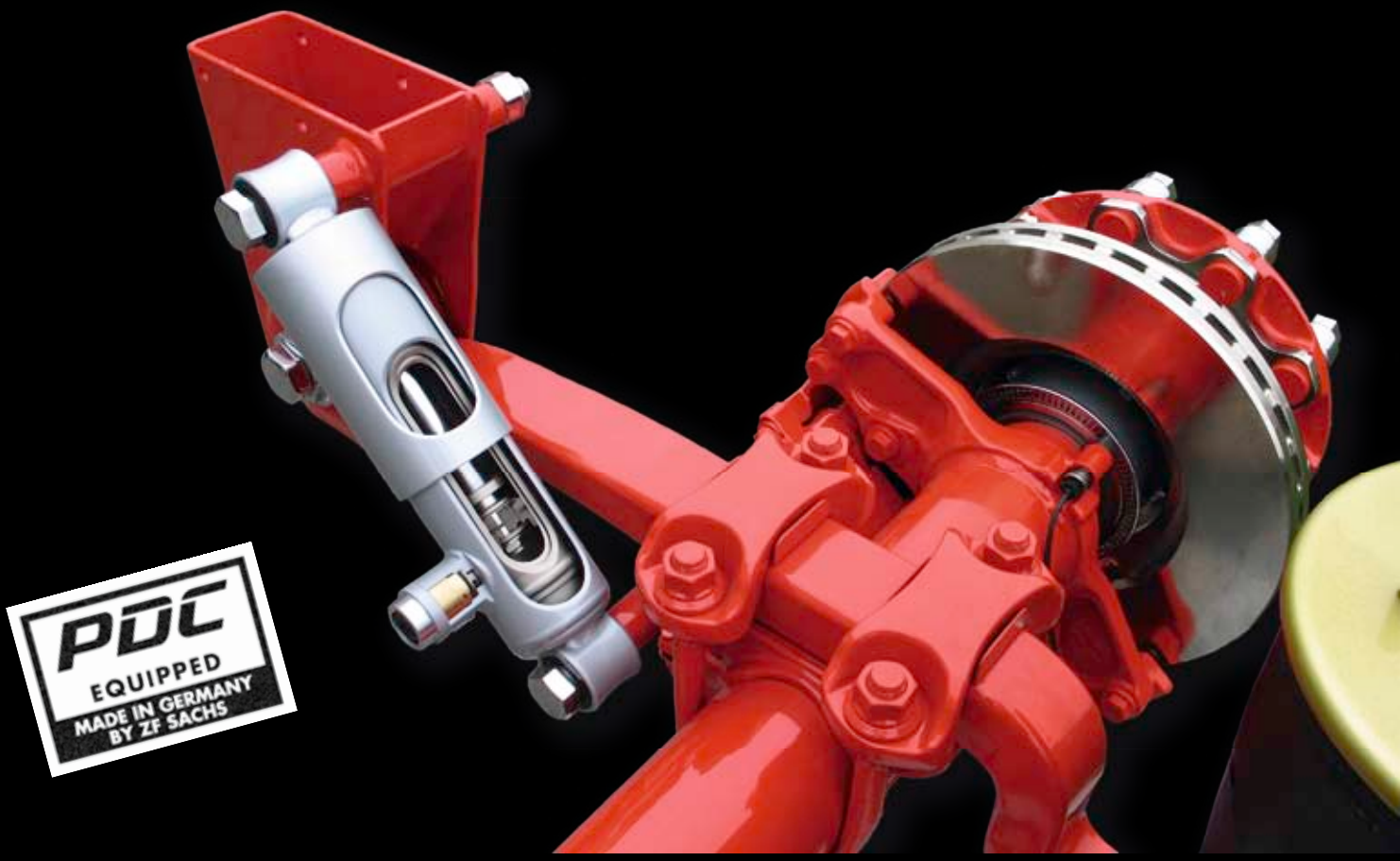
gigant
the driving force

driving

PDC (pneumatic damping control) designates a load-independent, controlled shock absorber.
It ensures that the vehicle is dampened to the optimum in any trailer load condition (full, part-load, empty).

This technology has 4 main advantages compared to standard shocks absorbers:

- PDC increases the safety of the vehicle,
- Protects vehicle and load,
- Reduces noise and
- Increases road-compatibility



with safety

Improved control of critical driving situations

Today, less than 5% of traffic accidents with heavy trucks are caused by technical defects. Driver error is the cause in the vast majority of cases. Therefore, the main aim in the development of PDC is to assist the driver in avoiding critical vehicle situations.
Trailers have a decisive impact on vehicle stability. However it is difficult for the driver to control the performance of the trailer. Critical situations are often recognised too late.

Intelligent trailer damping

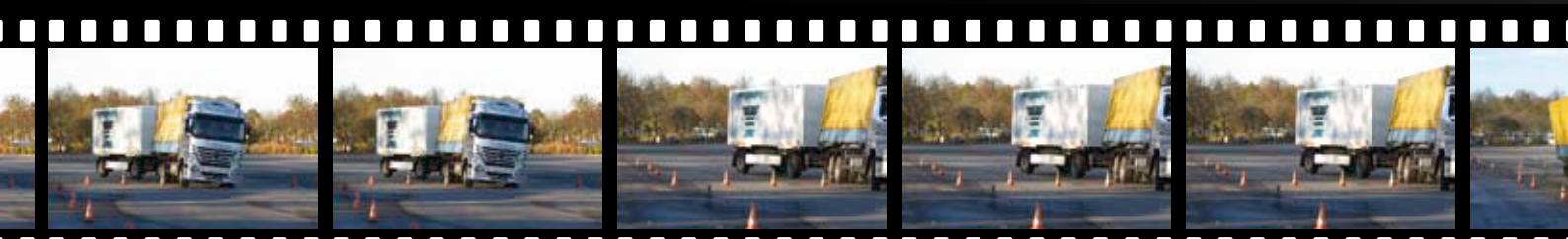
gigant axles with load-dependent PDC improve the performance of any trailer. We particularly recommend use of PDC in vehicles with:

- A high centre of gravity (beverage, silo and refrigerated vehicles)
- Greatly varying loading situations (container chassis, swap body vehicles)
- Moving centre of gravity (liquid transports, hanging goods such as clothing, meat etc.)

PDC helps

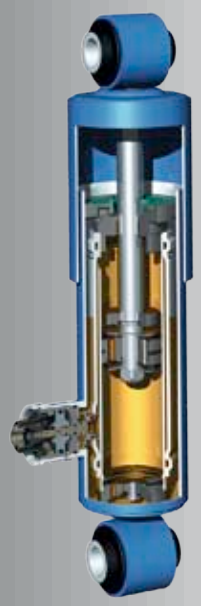
- Prevent oscillation build-up of the loaded trailer
- Prevent jumping or hazardous wagging and
- Reduce the hazard of the vehicle tipping over.

Measurements at the RWTH Aachen, Germany have shown that the maximum cornering speed increases by approx. 8%. The body sways less and evasive manoeuvres similar to the well-known Moose Test become easier to control.



High-tech can be so easy !

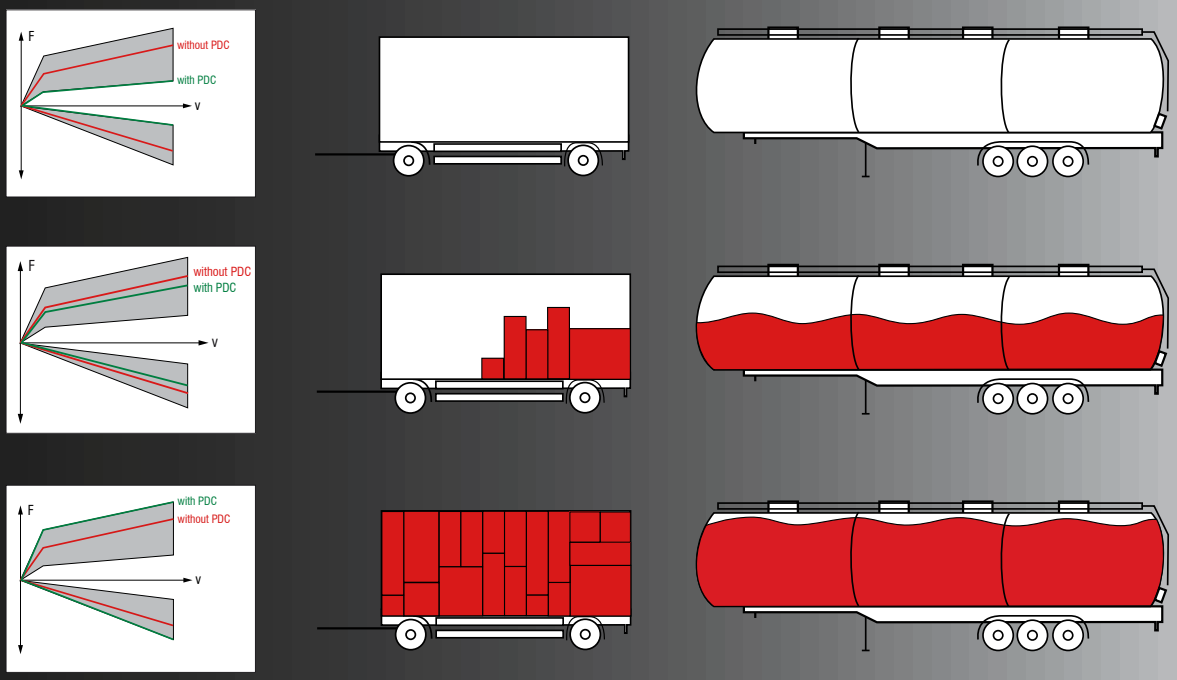
The load-dependent, pneumatic control PDC is a further development of the electronic CDC (Continuous Damping Control) which is today standard in buses and cars.
A robust, cost-effective and efficient solution for trailers is aimed at. This goal has been achieved by dispensing with control electronics and coupling to the air suspension.
In principle, the conventional shock absorbers only have to be replaced by PDC dampers and connected to the air suspension.



PDC - no compromises!

Normal shock absorbers can only be set for one load situation. Therefore a compromise between comfortable damping (empty vehicle) and hard (loaded vehicle) i.e. safer driving must be found. Setting to a hard characteristic is mostly selected to be able to drive the vehicle safer when loaded.
When unloaded, the trailer jumps and lurches behind the towing vehicle. It is over-dampened. The vehicle causes considerable noise and the impacts accelerate aging.
When loaded, the vehicle sways to a greater extent with normal absorbers; the cornering speed possible decreases and the tipping hazard increases.

PDC is the solution to this conflicting situation.



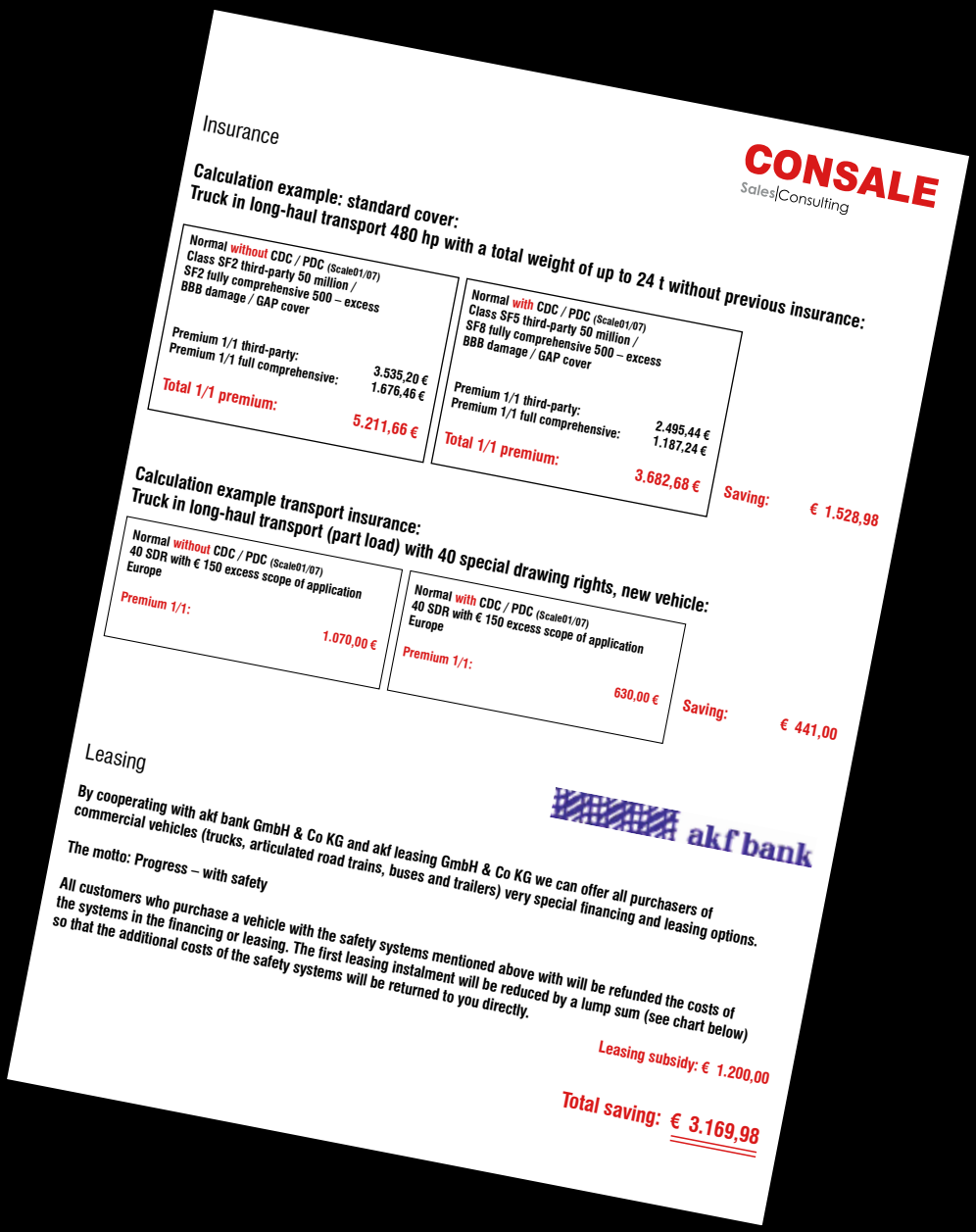
saving with safety

Have PDC technology supported

Insurance companies calculate the frequency of damage. The insurance premiums are reduced with favourable trends. Since today 95% of damage is due to driver error, the insurance companies support technologies which reduce this damage.
gigant axles with PDC represent one such technology.

And since gigant axles with PDC also protect the vehicle it retains its value for longer. Therefore leasing companies also compensate the use of gigant axles with PDC.

Real money can be earned when purchasing safety and vehicle protection:



Insurance

CONSALE
Sales|Consulting

Calculation example: standard cover:
Truck in long-haul transport 480 hp with a total weight of up to 24 t without previous insurance:

Normal without CDC / PDC (Scale01/07) Class SF2 third-party 50 million / SF2 fully comprehensive 500 – excess BBB damage / GAP cover		Normal with CDC / PDC (Scale01/07) Class SF5 third-party 50 million / SF8 fully comprehensive 500 – excess BBB damage / GAP cover	
Premium 1/1 third-party:	3.535,20 €	Premium 1/1 third-party:	2.495,44 €
Premium 1/1 full comprehensive:	1.676,46 €	Premium 1/1 full comprehensive:	1.187,24 €
Total 1/1 premium:	5.211,66 €	Total 1/1 premium:	3.682,68 €

Saving: € 1.528,98

Calculation example transport insurance:
Truck in long-haul transport (part load) with 40 special drawing rights, new vehicle:

Normal without CDC / PDC (Scale01/07) 40 SDR with € 150 excess scope of application Europe		Normal with CDC / PDC (Scale01/07) 40 SDR with € 150 excess scope of application Europe	
Premium 1/1:	1.070,00 €	Premium 1/1:	630,00 €

Saving: € 441,00

Leasing

akf bank

By cooperating with akf bank GmbH & Co KG and akf leasing GmbH & Co KG we can offer all purchasers of commercial vehicles (trucks, articulated road trains, buses and trailers) very special financing and leasing options.

The motto: Progress – with safety

All customers who purchase a vehicle with the safety systems mentioned above with will be refunded the costs of the systems in the financing or leasing. The first leasing instalment will be reduced by a lump sum (see chart below) so that the additional costs of the safety systems will be returned to you directly.

Leasing subsidy: € 1.200,00

Total saving: € 3.169,98

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