



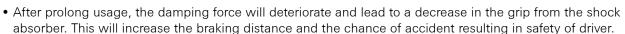
ZF COMMERCIAL VEHICLE SHOCK COMPLETE SOLUTION OFFERING TYPE OF APPLICATION

All types of commercial vehicle mechanical transmissions and automatic mechanical transmissions

	Cabin shock absorbers	Chassis shock absorbers
Features	Original German Quality Customized design according to the vehicle model High share of OEMs	Original German quality Excellent primary/auxiliary oil seal design ensures that the product is suitable for various complex working conditions
Product Specs	 Unique damping tuning effectively reduces the adverse effects of road vibration on the cab Rubber formula with high temperature resistance and ozone resistance 	Built-in multi-stage piston foot valve system to effectively counteract road vibration, Protect the cargo and the driver 140°C resistant oil seal, bringing longer service life
Customer Value & User Experience	Helps reduce driving fatigue and lower back discomfort caused by vibration Improve driving comfort on congested road sections Longer service life and reduced maintenance costs	Reduced maintenance costs Increase safety by reduced braking distance due to shock absorber wear Improved tire lifespan, reduced tire wear caused by shock absorber degrading

Hazards of using worn chassis shock absorbers

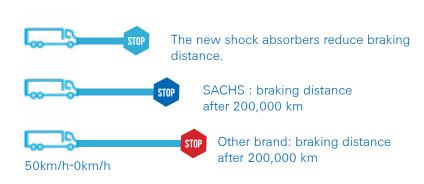
Reduced safety performance





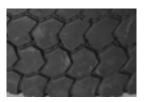
The right image shows a comparison of SACHS shock absorbers after 200,000 km of use versus regular shock absorbers.

Under the same conditions, the damping force reduction of regular shock absorbers produced with non-OE standards can reach maximum 20%. In contrast, high-performance SACHS shock absorbers exhibit only a 10% damping force reduction, enabling vehicles to maintain stable safety performance over longer periods.



The hazards of using worn-out chassis shock absorbers

- Cupping wear typically linked to worn shock absorbers. When these
 components can no longer absorb road shocks effectively, the tire
 bounces as it travels over bumps, creating these scalloped wear
 patterns
- Unbalanced tires also lead to irregular cupping wear.





SACHS shock absorbers : Safety & cost saving solution to your vehicle

New Tires Worn Tires