



Long-Distance Transport. The new Actros.

Endless innovation. The beginning of RoadEfficiency.

Mercedes-Benz

Trucks you can trust.



Mercedes-Benz. Trucks you can trust.



Mercedes-Benz. This name stands for all the experience of the world's longest established and most highly reputed truck manufacturer and for pioneering vehicle technology. A rich fund of engineering expertise "made in Germany" is reflected in particularly reliable, robust, safe and efficient vehicles in which millions of customers worldwide place their trust. We also attach great importance to a trusting relationship, with the aim of making life easier for you as a transport operator. To this end, we offer individual, application-matched vehicle solutions which meet the highest standards in terms of reliability, efficiency and safety, as exemplified by the new Actros. See for yourself! Trucks you can trust.

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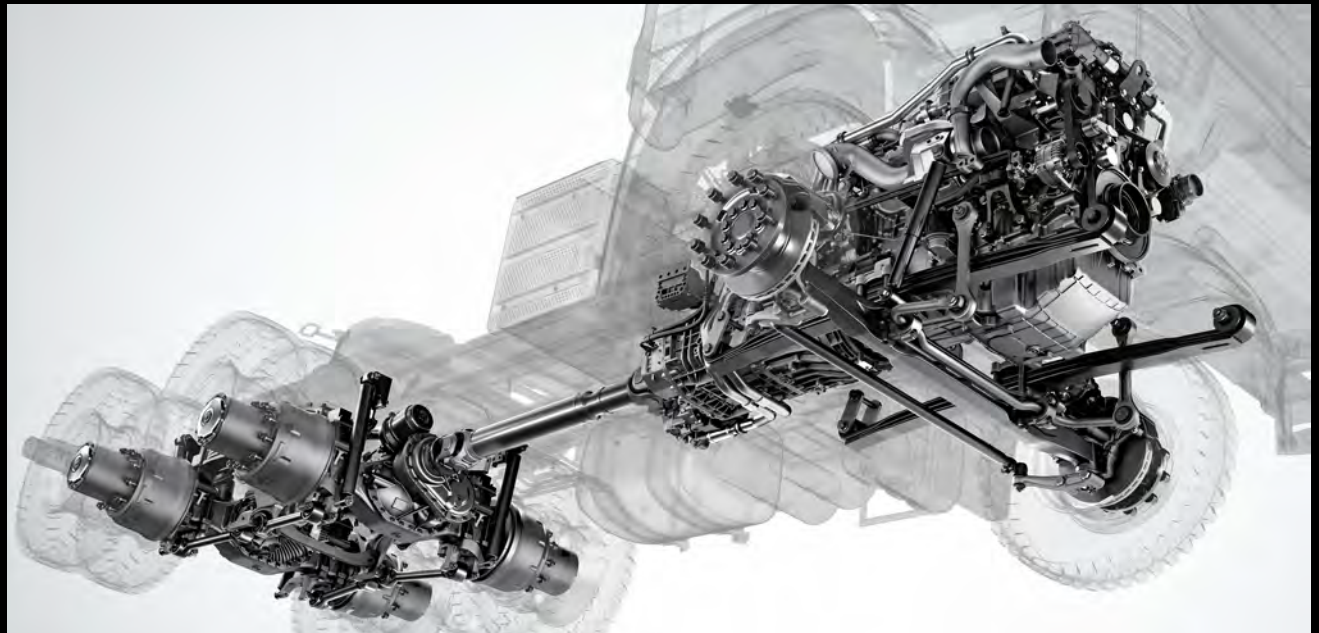
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Reliability - more than just a word for us. It stands for a tradition extending back over more than 100 years.

A tradition which gives rise to vehicles you can rely on, as exemplified by the Mercedes-Benz Trucks range. Trucks which have been built to always deliver top performance, even in the most extreme conditions – with the reliability you rightly expect of a Mercedes-Benz.

Trucks you can trust – for more reliability. Operators who earn their money in road-bound goods transport need absolute reliability – in other words: trucks they can count on. With the new Mercedes-Benz Trucks range, we are able to offer you vehicles incorporating the rich fund of experience and expertise acquired over more than 100 years of German engineering, equipped with leading Mercedes-Benz vehicle technology and components tested under the toughest conditions. This applies to engines, transmissions and drive axles as well as frames, chassis, suspension and cabs. Everything is perfectly coordinated, in order to meet all requirements reliably, even in extreme conditions and difficult terrain. Compelling quality that is immediately apparent the first time you take to the wheel – and which will continue to deliver benefits for many years to come.



Powertrain. In order to meet all the given high requirements regarding durability and reliability, all components of the powertrain on Mercedes-Benz Trucks are ideally matched – and produced exclusively by Mercedes-Benz.

There's no substitute for reliability.

A truck only earns money when it is up and running. As such, the prime requirement in the ever tougher transport business is for trucks that can be counted on to operate reliably. With particularly durable drive components, the new Mercedes-Benz Trucks range is a shining example of how this is done.

Reliable engines. The new Actros is available in three engine variants. Two 12.8-litre 6-cylinder in-line engines: the OM460, based on proven technology, the particularly efficient, latest generation OM471 engine, and the powerful 15.6-litre OM473 – all designed for maximum longevity and optimum performance.

Mercedes PowerShift3. In addition to a high level of driving comfort and ease of operation, the more advanced Mercedes PowerShift3 automated gearshift, which features as standard on board the new Actros, distinguishes itself among other things by virtue of shift times which are up to 20% shorter than those attainable with Mercedes PowerShift and as much as 50% shorter in comparison to the Telligent® automated gearshift. It also offers a further improvement in performance, with its sensitive gearshift sensors, Mercedes PowerShift3 provides precise gear selection appropriate to the driving situation and the load carried at the time.

Clutches. The new Actros features a new 1- or 2-disc clutch generation incorporating overload protection with a warning system which is designed for vast levels of torque up to 3000 Nm. The single plate clutch thickness has been increased by 20% in comparison with its predecessor, resulting in an increased clutch life-time.

Rear axles. The weight-optimised drive axles on the new Actros boast low frictional losses and extremely smooth running. The new Actros is fitted primarily with fuel-efficient hypoid drive axles for axle loads of up to 13 t. The new Actros is also available with planetary axles for axle loads of from 16 t. Vehicle and powertrain configurations are available which allow permissible gross combination weights 44 t up to 120 t.



Durable engines. The new engines of the new Actros boast not only high power, but also a reliable and durable design. The OM460 features particularly robust technology with the pump-line-nozzle injector system.

Brakes. Depending on the type of deployment, for a high standard of safety we equip the trucks either with disc brakes or drum brakes. The high power of the engine brake and retarder boost the available braking power, reduce wear and improve economic efficiency.

Suspension variants. The new Actros always offers the suspension variant which is best suited for the given type of application – steel or steel-air suspension.

Extensive testing. All Actros components are engineered to be particularly durable, repair- and maintenance-friendly and boast a high degree of reliability. This is further ensured by extensive testing at the Mercedes-Benz Development and Testing Centre in Wörth, where worldwide road conditions are simulated, enabling our trucks to be tested under the toughest conditions. The unrelenting test programme also includes summer and winter trials at extreme temperatures and millions of kilometres on rough road tracks and in endurance testing. Overall, the new Actros has demonstrated its durability and reliability over more than 60 million test kilometres.



High-quality production. With more than 120 years of experience in truck production, premium Mercedes-Benz quality is assured at every step of the production process to guarantee maximum reliability.



Advantages at a glance.

- New 6-cylinder in-line engines which are particularly reliable, efficient and durable
- Mercedes PowerShift3 for easy operation, reduced shift times, precise gear selection and fuel savings
- 1- or 2-disc clutches for maximum torque of up to 3000 Nm and for high gross combination weights
- Efficient hypoid axles and robust planetary axles for high axle loads
- Extensive testing and high-quality production process guarantees that every truck earns its star
- Up to 20% longer service life compared to predecessors
- Increased cooling capacity for engine and transmission
- Increased maintenance intervals

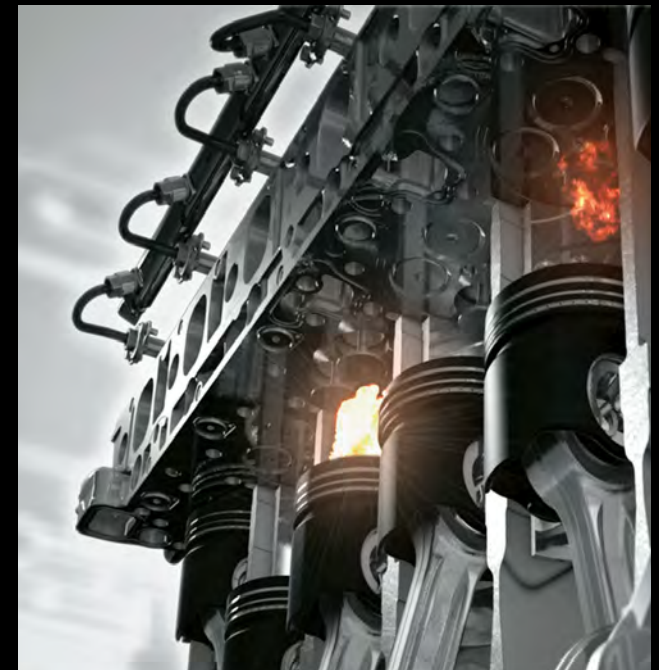


Efficiency - the new Actros redefines efficiency.

Assets you can bank on: in addition to its high reliability, the new Actros also boasts fuel savings of up to 6% in comparison to its predecessor. An ideal basis for particularly efficient operations.

The new Actros – for more efficiency. In addition to its reliable and durable design, efficiency is the second core characteristic of the new Actros, based first and foremost on its particularly low fuel consumption. Low wear and a higher resale value are additional merits contributing to its high overall efficiency. To this end, numerous innovative technical measures were implemented in the course of developing the new Actros. These result in engines with high performance and lower fuel consumption, a powertrain which enables an economical driving style, and an aerodynamic design honed down to the finest details in the interests of fuel efficiency. All in all, with fuel savings of up to 6% compared to its predecessor, the new Actros offers an ideal basis for more profitable operations than ever.

The further advanced Mercedes PowerShift 3 automated gearshift combines an economical driving style with smooth gear changing and a high level of driving comfort. The application-matched and aerodynamic cabs of the new Actros also contribute to the high level of efficiency. In short, the new Actros offers you a vehicle which is tailored perfectly to the needs of practically any application. Climb aboard!



This system provides for a particularly homogeneous fuel-air mix and especially efficient combustion. This results in more power combined with particularly low fuel consumption.

More innovation, less fuel consumption.

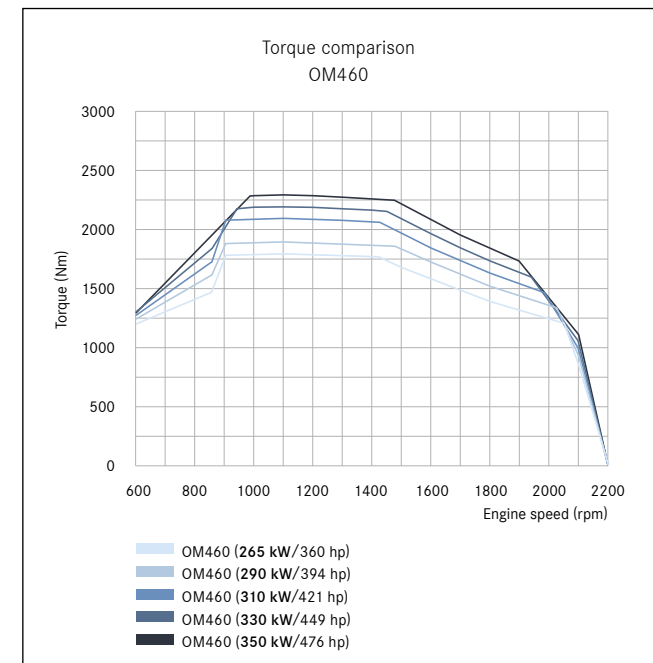
The new Actros sets new benchmarks, cutting fuel consumption by up to 6%. This is made possible first and foremost by the optimised powertrain, incorporating economical engines and transmissions as well as the well-honed aerodynamics.

Low on fuel, high on efficiency. With fuel savings of up to 6% compared to its already fuel-efficient predecessor, the new Actros with its new 6-cylinder in-line engines is a particularly economical proposition. The three engine types (OM460, OM471 and OM473) are available in the two displacement classes, 12.8 l and 15.6 l and power output ratings from **265 kW** (360 hp) to **460 kW** (625 hp). With the OM471 and OM473, the combination of low fuel consumption and improved performance is attributable to the particularly efficient combustion strategy, the X-Pulse common rail high-pressure injection system with an injection pressure of up to 2700 bar and the patented asymmetric turbocharger. Further factors contributing to fuel savings are the more fuel-efficient auxiliary consumers, Mercedes PowerShift3 and the sophisticated aerodynamic design.

Mercedes PowerShift3. Precise gear selection and fast gear-changing ensure that the further advanced Mercedes PowerShift3 automated gearshift transmits the power spontaneously and efficiently to the rear axle. This is possible thanks to an improved shifting strategy that accounts for factors such as gross combination weight, inclination angle of the road and accelerator pedal position when selecting the

optimum gear. In addition, short shift times, further friction reduction and the “economy” driving programmes also support an economical driving style. Further benefits include the option of shifting directly from 1 to R, reverse gears with high ratios, the crawl function and EcoRoll.

Brakes. In addition to the proven electronic braking systems with disengageable ABS, ASR, Brake Assist and hill holder, powerful, wear-free engine brakes provide added safety. The wear-free continuous High Performance Engine Brake is available on Euro V Actros models. This three-stage brake system offers up to **475 kW** of braking power²⁾ and reduces wear on the service brake while enhancing safety and control of the vehicle. For even greater safety, the new Actros is equipped with the new, high-performance secondary water retarder¹⁾. This retarder is wear- and maintenance-free and offers increased braking power, higher average speeds on downhill stretches and less weight than conventional oil retarders.



More power – less fuel. From **265 kW** (360 hp) to **350 kW** (476 hp) the OM460 engines make their maximum torque available in the lower, fuel-efficient engine speed range.

Lower costs, higher efficiency.

Axes and auxiliary consumers. A wider choice of rear axle ratios matched to various operating profiles also plays a role in keeping fuel consumption low. Economical auxiliary consumers, such as the on-demand power steering pump and new air-conditioning unit also contribute to low fuel consumption.



Two-stage air compressor. The fuel-efficient air compressor with two-stage compression is just one of many factors contributing to the new Actros's low fuel consumption. Low weight and high reliability are additional benefits.

Aerodynamically efficient. The design of the new Actros has been optimised right down to the finest details in order to reduce wind resistance. Engineers even developed a special cab variant with aerodynamically-optimised design and therefore low fuel consumption: the StreamSpace cab. Features such as the door extensions and aerodynamic wind deflectors¹⁾ also save fuel.



Sophisticated aerodynamics. When designing the new Actros we tested every individual part extensively - in the wind tunnel and on many million miles of test routes - for minimal drag and low fuel consumption.

¹⁾ Available on certain models

²⁾ Dependent on engine variant



Hypoid twin axles. The further optimised hypoid twin axles contribute to low fuel consumption on the new Actros as a result of reduced frictional losses. In addition, the rear axle ratios have been ideally matched to the vehicle application for an even more fuel-efficient powertrain configuration.

Your workplace in the new Actros. Solutions geared to practical needs provided the terms of reference in developing the new workplace, resulting in a whole array of components which are finely matched on both an ergonomic and functional level. These include the new cockpit, the new seats and the new multifunction steering wheel. Everything can be operated intuitively and is precisely tailored to the driver's work procedures. The attractive colour concept, the high-quality materials and the newly developed beds are further assets providing that extra touch of work motivation.

Optimum application matching. As your experienced partner who understands your needs, we offer you an individual, business-oriented vehicle solution for every transport task. The new Actros offers the ideal basis for long-distance applications. When the emphasis is on heavy duty distribution applications, we recommend the new Actros – discover why in our Distribution Transport brochure.



State-of-the-art workplace. The newly designed workplace, with a cockpit that is ideally suited to the driver's needs, offers optimum working conditions, because everything is arranged ergonomically and within easy reach. From switches and stowage compartments in the dash support to the gearshift, which is now operated via the steering-column lever. The multifunction steering wheel can be adjusted via a foot-operated switch, and moved to a virtually vertical position for getting in and out. In short: everything ensures that drivers can concentrate on their work in a relaxed manner.



Advantages at a glance.

- Up to 6% less fuel consumption
- New, reliable, robust and efficient 6-cylinder in-line engines
- Mercedes PowerShift3 with application-specific driving programmes for fast shift times and a perfect shifting strategy
- Optimised hypoid axles ideally matched to the vehicle application for an even more fuel-efficient powertrain configuration.
- Aerodynamic cabs for low wind resistance and minimal consumption
- Optimised auxiliary consumers
- High level of safety thanks to numerous assistance and safety systems
- State-of-the-art driver workplace



Safety - we do everything for a particularly high level of safety.

Reaching the destination safely – with the support of assistance and safety systems which actively ease the burden on the driver, help protect the vehicle and its cargo and so contribute to greater cost-effectiveness. On every trip.

Active safety equipment. Mercedes-Benz employs many safety and assistance systems to reduce risks and ease the burden on the driver. Alongside the Electronic Braking System with ABS, ASR, hill holder and Active Brake Assist 4¹⁾ (optional equipment), the Stability Control Assist system, Lane Keeping Assist and Attention Assist help the driver to avoid or mitigate accidents. Also contributing to the high level of safety are the standard LED day-time running lights, LED tail-lights and flashing hazard warning lights under emergency braking.

Passive Safety. The new Actros offers the most comprehensive active safety systems ever. However, not all accidents can be fully prevented. For this reason the new Actros provides a passive safety concept developed through rigorous crash tests. The cab has been tested according to ECE R29 and Swedish Test VVFS: 2003:29. The target of these tests is a distribution of the deformation, which results in the greatest possible clearance for the occupants. Furthermore, the driver airbag and driver seatbelt monitor are standard features on all Actros models, enhancing driver safety.



Proximity Control Assist¹⁾. The safety system with stop-and-go function is on hand to support the driver in stressful situations and can reduce the risk of rear-end collisions.



Attention Assist. Monitors the attention paid by the driver. It is based on the Lane Keeping Assist system. The attention paid by the driver is measured on the basis of the driver staying in-lane, in combination with various driver activities (direction indicator/accelerator/engine brake/retarder operation, etc.) as well as steering behaviour. The lane monitoring function continuously detects the position of the vehicle between the lane markings.

Active Brake Assist 4¹⁾. This safety system can detect obstacles driving ahead of the vehicle, warn the driver of dangers identified and, if necessary, carry out a full brake application to mitigate the severity of a possible accident and its consequences.

Secondary water retarder. The secondary water retarder¹⁾ is wear- and maintenance-free and offers increased brake power, higher average speeds on downhill stretches and less weight than conventional oil retarders.

¹⁾ Optional equipment.

²⁾ Within the system's limits.

³⁾ Under optimal conditions.



Active Brake Assist 4¹⁾. The fourth generation of the system assists the driver^{2) 3)} by carrying out a full brake application in response to stationary and moving objects and partial braking in response to pedestrians in motion; in this way, it can reduce the severity of accidents or even prevent them completely.



LED day-time running lights. Safety is further enhanced by the standard LED day-time running lights. This also makes the vehicle more visible to other road users.



Advantages at a glance.

- Comprehensive scope of safety equipment, incl. Active Brake Assist, Stability Control Assist, Lane Keeping Assist, Attention Assist¹⁾
- Proximity Control Assist with stop-and-go function and Active Brake Assist 4¹⁾
- Secondary water retarder¹⁾ with up to 3500 Nm of braking torque
- Seatbelt monitor
- Cab design according to ECE R29 and Swedish test VVFS 2003:29 regulations
- Driver airbags
- LED daytime running lights and LED taillights

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