



Mercedes-Benz. Trucks you can trust.

The Actros. 18-40 tonnes.

Mercedes-Benz

Trucks you can trust



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

Reliability.

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Efficiency.

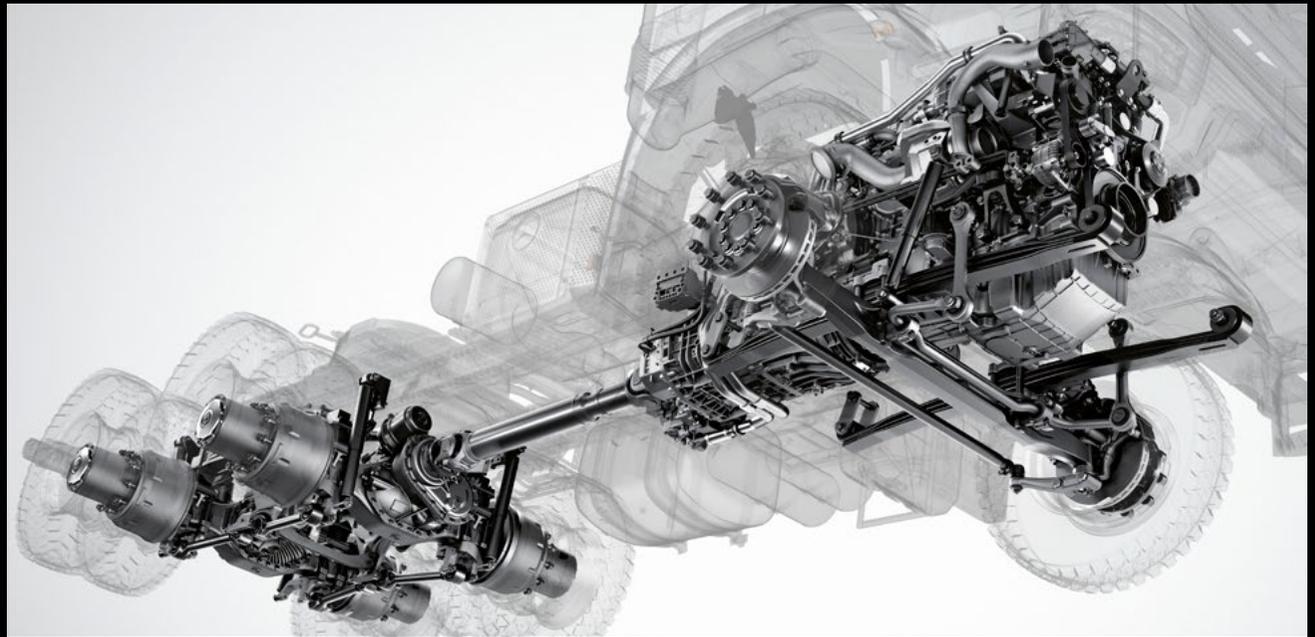
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For us, reliability is more than just a word. It stands for a tradition extending back over more than 100 years.

A tradition which gives rise to vehicles you can rely on. As exemplified by the Actros which has 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 reliability. In other words: trucks they can count on. With the Actros we are able to offer you a vehicle 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, gearshifts, transmissions and drive axles as well as frames, chassis, suspensions 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 continues to pay for many long years to come.



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

There is 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 a truck that can be counted on to operate reliably. With a service life up to 20% longer than its predecessor, the Actros is a shining example of how this is achieved.

Reliable engines. All drive components of the Actros offer a particularly durable design, a high degree of reliability and an increased service life. The improved robustness of the new 6-cylinder in-line engine is the result of optimised engine cooling and design measures such as one-piece steel pistons, reinforced conrods and bearings and a more rigid crankcase.

Mercedes PowerShift 3. In addition to a high level of driving comfort and simple operation, the more advanced automated gearshift, which features as standard on board the Actros, distinguishes times which are up to 20% shorter than those attainable with Mercedes PowerShift 2 and as much as 50% shorter in comparison to the Telligent® automated gearshift, in addition to which it also offers a further improvement in performance. With its sensitive gearshift sensors, Mercedes PowerShift 3 provides precise gear selection appropriate to the driving situation and the load carried at the time.

Clutches. The Actros features new 1- or 2-disc clutch technology incorporating overload protection with a warning system which is designed for vast levels of torque up to 3000 Nm.

Rear axles. The weight-optimised drive axles on the Actros boast low frictional loss and extremely smooth running. The Actros is fitted primarily with fuel-efficient hypoid drive axles for axle loads of up to 13 t. The Actros can be equipped with a further optimised planetary axle for axle loads of up to 16 t. Vehicle and powertrain configurations are additionally available ex factory which enable permissible gross truck and trailer weights of up to 70 t, 90 t, 120 t, or as a heavy haulage vehicle up to 250 t.



Durable engines. The new engines of the Actros boast not only high power, but also a reliable and durable design. In addition, the wider torque curve reduces the number of gearshift operations and thus lowers the strain on the clutch and transmission.

Brakes. Depending on the type of application, for a high standard of safety we equip the trucks either with disc brakes, a combination of disc and drum brakes or drum brakes. High-performance engine brakes and retarders boost the available brake power, reduce wear and improve economic efficiency.

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

Extended service life. All Actros components come in particularly durable, repair- and maintenance-friendly design and boast a high degree of reliability. This is 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. Locally, the Actros has undertaken millions of test kilometres around Australia and New Zealand with outstanding results. The unrelenting test program also includes summer and winter trials at extreme

temperatures and millions of kilometres on rough road tracks and in endurance testing. In all, the Actros has demonstrated its durability and reliability over more than 50 million test kilometres.



Advantages at a glance.

- Up to 20% longer service life compared to predecessor
- New 6-cylinder in-line engines which are particularly reliable, efficient and durable
- Increased cooling capacity for engine and transmission
- Mercedes PowerShift 3 for simple operation, reduced shift times, precise gear selection and fuel savings
- New cab design ensuring maximum comfort in the workspace and sleeping environment
- 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
- Job-matched suspension variants
- Long maintenance intervals



The right frame for every application. Frames are subject to varying requirements, according to the specific type of use. With this in mind, an all new wider frame has been developed with 834mm frame track, which comes into its own in on-road use while also performing convincingly in light off-road use. Other benefits include cathodic dip priming to prevent rusting, the consistent 50 mm hole pattern and a broadened range of wheelbases, frame overhangs and end crossmembers.



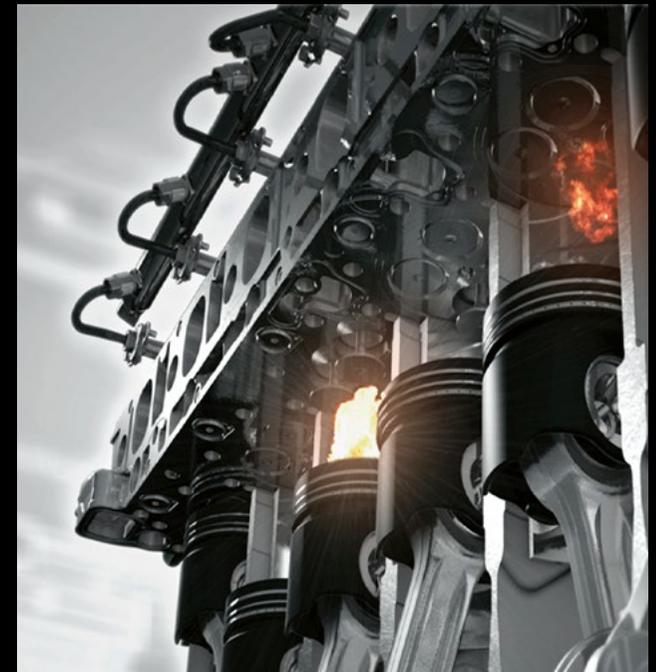


The Actros: redefining efficiency.

Assets you can bank on: in addition to its high reliability, the Actros also boasts fuel savings of up to 7% in comparison to its predecessor*. An ideal basis for particularly efficient operations.

Trucks you can trust – for more efficiency. Mercedes-Benz trucks stand for particularly high economic efficiency worldwide. In addition to its reliable and durable design, the Actros also meets the highest standards of efficiency, 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 economic efficiency. To this end, numerous innovative technical measures were implemented in the course of developing the Actros. These resulted in engines with higher performance and lower fuel consumption, a powertrain which enables a particularly 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 7%* compared to its predecessor, the 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 job-matched and aerodynamic cabs of the 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!



X-Pulse injection system. 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.

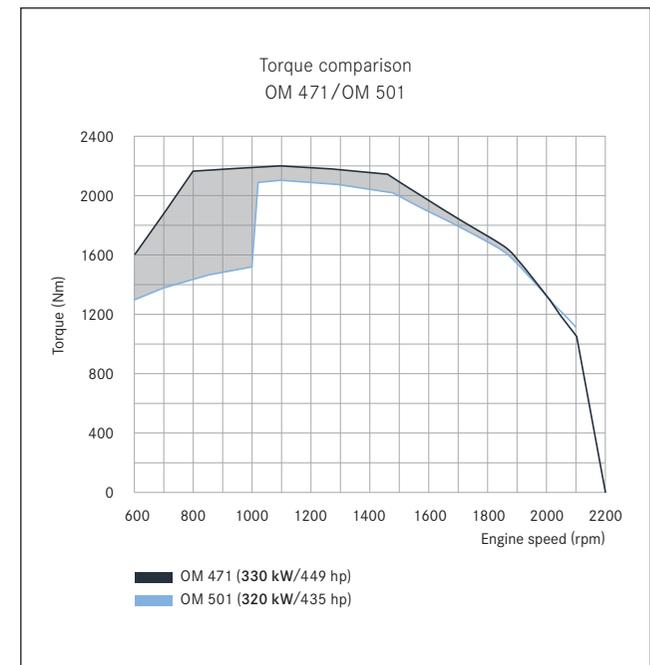
*The declared fuel consumption figures are determined by testing under standardised laboratory conditions to comply with ADR 81/02. Real world fuel consumption is influenced by many additional factors such as individual driving style, load, traffic and vehicle condition. The declared fuel consumption figure should only be used for the purpose of comparison amongst vehicles.

More innovation, less fuel consumption.

The Actros sets new benchmarks, cutting fuel consumption by up to 7%*. 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 7%* compared to its already fuel-efficient predecessor, the Actros with its new 6-cylinder in-line engines is a particularly economical proposition. The engines are available in the four displacement classes 7.7 l, 10.7 l, 12.8 l and 15.6 l and in a total of 8 power output ratings from **260 kW** (354 hp) to **460 kW** (625 hp). 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 PowerShift 3, and the sophisticated aerodynamic design.

Mercedes PowerShift 3. Precise gear selection and fast gear-changing ensure that the further advanced Mercedes PowerShift 3 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. Further benefits include the option of shifting quickly from 1 to R, reverse gears with high ratios, the crawl function and EcoRoll.



More power when it counts. The new 6-cylinder in-line engines of the Actros place more torque on tap than comparable predecessors, right from the low rev range. In short: more power, less fuel consumption, in particular at high gross combination weights.

Brakes. In addition to the proven, electronic braking systems with disengageable ABS, ASR, Brake Assist and hill holder, powerful, wear-free engine brakes feature as standard to provide added safety. The Actros is fitted as standard with the wear-free continuous High Performance Engine Brake¹⁾²⁾. This three-stage brake system offering up to **475 kW** of brake power³⁾ reduces wear on the service brake while enhancing safety and control of the vehicle. For even greater safety, the Actros can be equipped with the new, high-performance secondary water retarder¹⁾. This retarder is wear- and maintenance-free and offers increased brake power, higher average speeds on downhill stretches and less weight than conventional oil retarders.



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

Axles, auxiliary consumers. A wide 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 air compressor contribute to low fuel consumption.

Low drag and rolling resistance. The design of the Actros has been optimised right down to the finest details in order to reduce wind resistance. Features such as the door extensions⁴⁾, aerodynamic attachments¹⁾ and the tyre pressure monitoring¹⁾ also save fuel. In addition, the StreamSpace cab has been developed specifically for low fuel consumption.



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

¹⁾ Optional extra.

²⁾ Standard in conjunction with secondary water retarder.

³⁾ Depending on engine variant.

⁴⁾ Standard for cabs with level floor and 170 mm engine tunnel, not available for 320 mm engine tunnel.

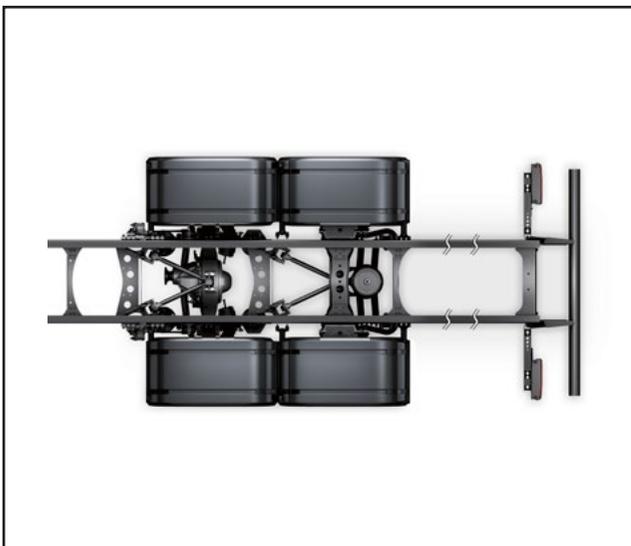


Hypoid twin axles. The further advanced hypoid twin axles contribute to low fuel consumption on the Actros as a result of reduced friction loss. In addition, a broad range of rear axle ratios is available for fuel-efficient powertrain configurations.

Good body-mounting capability. The frame with the consistent 50 mm hole pattern provides the basis for the Actros's high body-mounting capability. Other assets include a wide range of wheelbases, frame overhangs and end crossmembers selectable ex factory and a broad selection of tank variants. Good body-mounting capability is additionally supported by the parameterizable special module¹⁾ and pre-installations and consoles which are available ex factory.

Safety and assistance systems. Mercedes-Benz employs many safety and assistance systems to reduce risks and ease the burden on the driver²⁾. In addition to the electronic braking system with disengageable ABS, ASR, Brake Assist, Hill Holder and Active Brake Assist¹⁾, the high standard of safety is also supported by Stability Control Assist, Proximity Control Assist³⁾, Lane Keeping Assist, and Attention Assist. Standard systems such as the rain/light sensor, the co-driver mirror with a manoeuvring function and optional systems such as the bi-xenon headlamps¹⁾ and the tyre pressure monitoring system help the driver to avoid accidents.

A diverse range of cabs. 18 cab variants in widths of 2300 mm or 2500 mm, a level floor or an engine tunnel height of 170 or 320 mm, headroom of up to 2130 mm and six roof shapes – the Actros is always able to offer a suitable cab, whatever the needs of the job in hand.



Variable frame overhangs. Factory-fitted frame overhangs which can be selected in 300 mm increments and the end cross member which can be moved in 50 mm increments (up to 150 mm) increase ease of body mounting and reduce mounting costs.



Flexible tank variants. Within the same tank cross-section different tank capacities can be combined on the left and right-hand side. This applies to diesel and AdBlue[®] tanks as well as to combination tanks.



Active Brake Assist. Within the system's limits, Active Brake Assist can detect obstacles driving ahead of the vehicle, warn the driver of dangers identified and, if necessary, carry out a full brake application to reduce the severity of a possible accident and its consequences.

Your workplace in the 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, perfectly applied and easy-to-clean materials and the newly developed beds are further assets providing that extra touch of work motivation.

Optimum job matching. As your experienced partner who understands your needs, we offer you an individual, business-oriented vehicle solution for every transport task. The Actros offers the ideal basis for transport tasks which are to be carried out primarily on surfaced roads.

¹⁾ Optional extra.

²⁾ The driver is responsible for the safe conduction of the vehicle.

³⁾ Optional extra in conjunction with Active Brake Assist.

⁴⁾ Optional equipment, only in conjunction with Proximity Control Assist.



State-of-the-art workplace. The newly designed workplace with its cockpit that is ideally suited to the driver's needs offers optimum working conditions, because everything is arranged ergonomically and within 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.

i Advantages at a glance.

- Up to 7%* less fuel consumption
- New, reliable, robust and efficient 6-cylinder in-line engines with high torque at low engine speeds
- Mercedes PowerShift 3 with job-specific driving programs for fast shift times and a perfect shifting strategy
- Optimised hypoid axles with a broad range of rear axle ratios to suit all types of jobs
- Aerodynamic cabs
- Optimised auxiliary consumers
- Ease of body mounting
- Safety systems
- State-of-the-art driver workplace



ACTROS



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