Mercedes-Benz. The new heavy-duty truck generation.
The Actros. 18 - 33 tonnes. The Arocs. 18–48 tonnes.
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”, reflected in particularly reliable, robust and efficient vehicles in which millions of customers worldwide place their trust. We also attach great importance to trusting 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, robustness and efficiency. As exemplified by the new Actros and the new Arocs. See for yourself! Trucks you can trust.
Reliability.  
Ready for anything

Efficiency.  
The Actros. 18 - 33 tonnes

Robustness.  
The Arocs. 18 - 48 tonnes
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 and the Arocs. 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.
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 trucks that can be counted on to operate reliably. With service lives up to 20% longer than their predecessors, the Actros and the Arocs are shining examples of how this is done.

Reliable engines. All drive components of the Actros and Arocs 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 engines results from optimised engine cooling and design measures such as one-piece steel pistons, reinforced conrods and bearings and a more rigid crankcase, for example.

Mercedes PowerShift3. 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 and Arocs distinguishes itself among other things by virtue of shift 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 and Arocs feature 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 wear-free turbo retarder clutch1) is also available. This offers maximum performance when moving off or manoeuvring with particularly high gross combination weights.

Rear axles. The weight-optimised drive axles on the Actros and Arocs 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 Arocs 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 68 t, 80 t, 120 t, or as a heavy-haulage vehicle up to 250 t.

Durable engines. The new engines of the Actros and Arocs 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 deployment, 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 engines and retarders boost the available brake power, reduce wear and improve economic efficiency.

Suspension variants. The Actros and Arocs always offer the suspension variant which is best suited to the given type of deployment – steel, steel-air or full pneumatic suspension.

Extended service life. All Actros and Arocs 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, for example, where worldwide road conditions are simulated, enabling our trucks to be tested under the toughest conditions. 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 and the Arocs have demonstrated their durability and reliability over more than 50 million test kilometres.

The right frame for every application. Frames are subject to varying requirements, according to the specific type of use. With this in mind, we have developed two frames. One with a narrow frame track\(^2\) of 744mm, which boasts high torsional flexibility and stability even under extreme off-road conditions. And one with a wide 834 mm 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.

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\(^*\)
- 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 fuel consumption savings have been achieved in a fuel consumption trial undertaken by vehicle inspection company DEKRA in Germany. Real world fuel consumption may differ and is influenced by many additional factors such as individual driving style, load, traffic, vehicle condition and model/specification. Applies to Actros 1845 model with Euro V specification engine only.

\(^1\) Optional extra.
\(^2\) Available for Arocs only.
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 result 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!

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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.
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.

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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 power output ratings from 260 kW (354 hp only with 7.7 l) 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. The driver can intervene at any time. Further benefits include the option of shifting quickly 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 feature as standard to provide added safety. This three-stage brake system offering up to 475 kW of brake power 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 retarder. 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. Beyond this, the turbo retarder clutch is also available.

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.
This combines the functions of a hydrodynamic start-up clutch and a primary retarder in a single component and enables particularly powerful, responsive and wear-free moving off, manoeuvring for any duration at low revs and full torque of up to 3000 Nm.

**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 power steering pump and the on-demand air compressor also 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 extensions\(^4\), aerodynamic attachments\(^1\) and the tyre pressure monitoring\(^3\) also save fuel. In addition, the StreamSpace cab has been developed specifically for low fuel consumption.

\(^1\) Optional extra
\(^2\) Standard in conjunction with secondary water retarder.
\(^3\) Depending on engine variant.
\(^4\) Available for cabs with level floor and 170 mm engine tunnel.
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 overhands and end crossmembers selectable ex factory and a broad selection of tank variants. These include the combination tanks for diesel and AdBlue® and for diesel and hydraulic oil. 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 Assist³, the high standard of safety is also supported by Stability Control Assist, Proximity Control Assist⁴, Lane Keeping Assist, Attention Assist and Roll Control Assist¹. Systems such as the bi-xenon headlamps¹, the rain/light sensor¹, the co-driver mirror with a manoeuvring function¹ and the tyre pressure monitoring system¹ help the driver to avoid or mitigate accidents.

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 mitigate the severity of a possible accident and its consequences.

Active Brake Assist 4¹⁴. The fourth generation of the system assists the driver⁵⁶ 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.

A diverse range of cabs. 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.
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. When the emphasis is on transport on unpaved roads and off-road use, we recommend the Arocs – discover why on the following pages.

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.

Advantages at a glance.

- Up to 7%¹ 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

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.
⁵ Within the system’s limits.
⁶ Under optimal conditions.

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Overseas model shown.
The Arocs: redefining robustness.

To ensure we do justice to our claim of “Trucks you can trust”, alongside high reliability another key focus of development and design work for the Arocs was extreme robustness. This enables transport operations even under extreme conditions.

Trucks you can trust – for more robustness. Trucks from Mercedes-Benz are particularly durable and tough operators. They continue to run without a hitch, even after years of demanding service. The Arocs has already proven these credentials in many countries. Alongside its uncompromising reliability, it also demonstrates extreme robustness. In keeping with the aim that our engineers pursued throughout the development process for the Arocs: it was to be ideally prepared for practically any challenge in tough deployment. This is ensured not only by the powerful engines, but also by the truck’s impressive off-road capabilities.

A further key advantage of the Arocs’s robust design is up to 10% more ground clearance, thanks to large approach and departure angles. In short: the Arocs delivers just what’s required in tough on and off highway applications. Even when a full load and difficult terrain stretch man and machine to their limits – because it is robust like no other contender.

Robust axles for off-road operations. Apart from their high ground clearance, the robust planetary axles made of cast steel also boast a particularly high axle load capacity of up to 16 t.
Robustness knows no compromises. The same goes for the Arocs.

Loading capacity and robustness are crucial to economical transport operations on both sealed and unsealed road surfaces. The Arocs rises to the challenge here on every trip and in every situation.

**More ground clearance.** In all-wheel-drive configuration, the Arocs covers practically all requirements. An optimised approach and departure angles provide all Arocs trucks with up to 10% more ground clearance. For a better breakover angle, diesel tanks with a smaller cross-section are used.

**Axles.** The range of different front and rear axles which are available in job-specific variants are a further key contributory factor to the large ground clearance. Depending on the type of application and chassis, front axles with varying offsets and with a permissible front axle load of up to 9 t are available. The particularly robust planetary axles with a load capacity of up to 16 t also offer high ground clearance.

**Tipper ground clearance.** More ground clearance, improved breakover angle and a larger approach/departure angle – the Arocs tippers demonstrate their strengths above all on unsurfaced roads and rough terrain, particularly when good off-road capabilities are called for.
Axle load compensation. The axle load compensation1) between the front axles prevents damage due to overloading and reduces wear on the axle suspension, steering and tyres. Other benefits are easy handling, high ride comfort and improved distribution of braking forces.

Suspension variants. For particularly good load capacity and ride comfort, the Arocs for construction operations features a robust, durable steel suspension with weight-optimised, 100 mm-wide parabolic springs. Depending on the gross vehicle weight, the front axles are fitted with 2- or 3-leaf spring packages. The rear axles are available with 3-, 4- or 5-leaf spring packages offering a load-bearing capacity of up to 18 t. Harder spring variants plus reinforced stabilisers and spring brackets are available as options for extreme operating conditions. The Arocs is also available with 4-bellows air suspension – offering a load-bearing capacity of up to 20 t for 4x2 vehicles and up to 33 t for 6x4 vehicles.

Axles. Off-road, unsurfaced or paved roads – the axles on the Arocs are impressive performers in every type of operation. For use primarily on unsurfaced roads and off-road, the proven, further optimised planetary axle is deployed, allowing an axle load of up to 16 t. For operations focusing mainly on road use, the Arocs is fitted with hypoid drive axles designed for an axle load of up to 13 t.

1) Standard for 8x6 and 8x8 vehicles.
Transmission variants. The Arocs features the further advanced Mercedes PowerShift 3 automated gearshift in conjunction with a 12 or 16-speed transmission. Depending on the intended application, the “offroad” or “power” driving programs are available. The “offroad” driving program is specifically designed for off-road use and supports a very power-oriented driving style at the push of a button. The “power” driving program is intended for on-road use and supports driving with an onus on power as necessary.

Manual gearshift. In addition to the automated gearshift, the Arocs is also available with a manual double H gearshift. This comes with a 16-speed transmission. All transmissions support the virtually loss-free transmission of power as well as very smooth shifting and a high level of driving comfort.

Turbo retarder clutch. The wear-free turbo retarder clutch offers maximum performance when moving off and enables manoeuvring for any duration. It also serves as a retarder, thus providing for additionally enhanced safety.

The ultimate tough operator. The Arocs has been developed for extreme operations. As a platform vehicle, tipper, concrete mixer or all-wheel-drive semitrailer tractor, the Arocs is always ready for particularly demanding tasks. At the construction site – and wherever the tough job in hand stretches the vehicle to the limits.
Component protection. On steel-sprung Arocs tipper vehicles, this includes the protective plate\(^1\) for radiator and engine and the protective plate for the diesel tank\(^1\). Plus steel protective grilles\(^1\) for the headlamps and a cover to protect major components from bulk materials\(^1\). In short: everything to prevent needless damage and unnecessary repair costs.

Special cab design. All cab variants for the Arocs combine the utmost in functionality with impressive robustness. From their design in 100% fully galvanised sheet metal through the pivoting entrance which is flexible in both longitudinal and lateral directions to the grab rail on the roof\(^1\) – every detail is tailored precisely to requirements at the construction site. This is clearly visible in the rippled exterior mirror housings and the radiator grille featuring a bucket-tooth design and clearly noticeable in the enhanced ride comfort provided by the comfort cab suspension\(^1\).

The Arocs workplace. The Arocs always provides a workplace that is ideally tailored to the driver’s requirements. As demonstrated by the ergonomically positioned controls and stowage facilities, for example. All cabs additionally boast perfectly applied easy-to-clean materials and an appealing interior design.

Trucks you can trust – climb aboard! A truck from Mercedes-Benz comes with the hallmark of the world’s most successful and highly reputed truck brand. We at Mercedes-Benz also attach great importance to the partnership with our customers, however. We engage with our customers as equal partners and are always open to their ideas, concerns and suggestions. We offer vehicles which are tailored specifically to our customers’ diverse requirements – and which offer hallmark reliability, robustness and efficiency.

Our products are also designed to meet the most diverse requirements. The Actros stands for outstanding efficiency, for example, while the Arocs is set apart by its exceptional robustness. See for yourself – and prepare to be thrilled.

\(^1\) Optional extra.

Advantages at a glance.

- Ground clearance: approach/departure angle and breakover angle
- Different front axles with varying offset, large tyres possible
- Front axle loads of up to 9 t; rear axles (planetary axles) offering axle loads of up to 16 t
- Robust, 100 mm-wide steel suspension with load capacity of up to 18 t (max. 5-leaf springs)
- Three different, job-matched frames (longitudinal member thickness of up to 9 mm)
- Mercedes PowerShift 3 with driving programs and manual gearshift
- All-wheel-drive range (from 4x4 to 8x8)
- Protection for headlamps, tank; rear steps

Protective plate for engine and radiator. The Arocs comes with a plate\(^1\) to protect the radiator and engine. A solid protective plate for the main tank\(^1\) is also available.
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