



Mercedes-Benz

# The Unimog

U 3000/U 4000/U 5000

# The Unimog Concept

## Getting through where others give up

Where even four-wheel drive trucks reach their limits and tractors can't go any further, a totally different kind of work and tractor vehicle has to take over: the Unimog. It gives an absolutely new definition of versatility and viability on four wheels. The Mercedes-Benz Unimog is a vehicle in a league of its own. It provides solutions which no other vehicle worldwide can offer. The Unimog is much more versatile than any other with its attachment and mounting areas at the front, middle and rear. It is also much more at home on off-road terrain than any other vehicle, and can drive at fast speeds on roads as a transporter. The Unimog is an uncompromising professional for uncompromising professionals. Superior in every situation and over any terrain.

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## Succeeds, where Others don't

With its unique off-road capabilities the Unimog U 3000/U 4000/U 5000 beats every rival hollow. Worldwide. Its outstanding features make sure of that: its flexible ladder-type frame for great rigidity on the road and great torsional flexibility off-road; its superior four-wheel drive concept with differential locks in both axles as well as portal axles for high ground clearance.

# Chassis Expertise

Where others get wheelspin, the Unimog really gets going. Portal axles, engageable four-wheel drive, reduction gears for off-road – the U 3000/U 4000/U 5000 is a match for any terrain and accepts any challenge.

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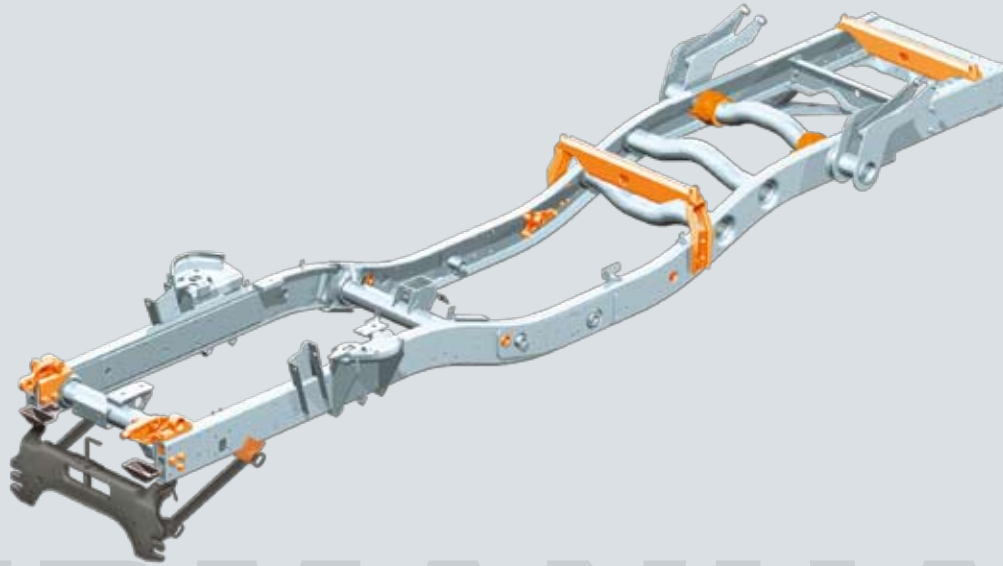






U3000





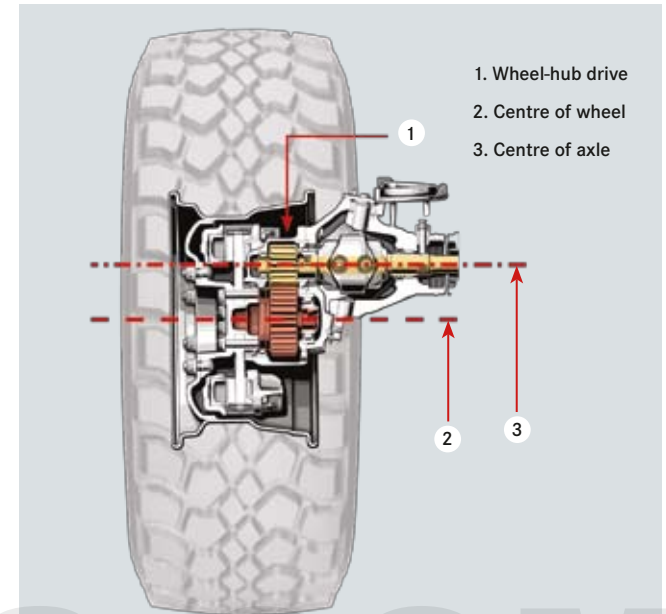
Highly flexible and heavy-duty. The ladder-type frame with its tubular cross-members provides outstanding torsional flexibility and elasticity for operations over difficult terrain

**Flexible Frame Design.** It gives Way, when and where required. At the heart of the uncompromising all-terrain capabilities of the Unimog U 3000/U 4000/U 5000 is the flexible ladder-type frame with tubular cross-members which ensures the necessary rigidity on the road, and allows great torsional flexibility off-road. This is provided by the three-point mounted cab, engine and transmission, as well as the defined interfaces for mounting superstructures and implements. So nothing happens, even with 30° axle articulation.

- Highly resilient frame, flexible, with great torsional flexibility
- Short frame overhang for steep angles of approach or departure
- Safe and controlled driving in any situation

**Portal Axles.** Extreme Off-Roading made easy. Portal axles are the secret behind the outstanding ground clearance of the Unimog U 3000/U 4000/U 5000. With them it copes with impassable terrain and obstacles up to half-a-metre high. A reduction gear on the wheel-hub drive allows the full torque to take effect on the ground for increased traction over difficult terrain.

- Outstanding ground clearance with a low vehicle centre of gravity
- Axle tube and differential are clearly smaller than on a truck and are situated above the wheel centre

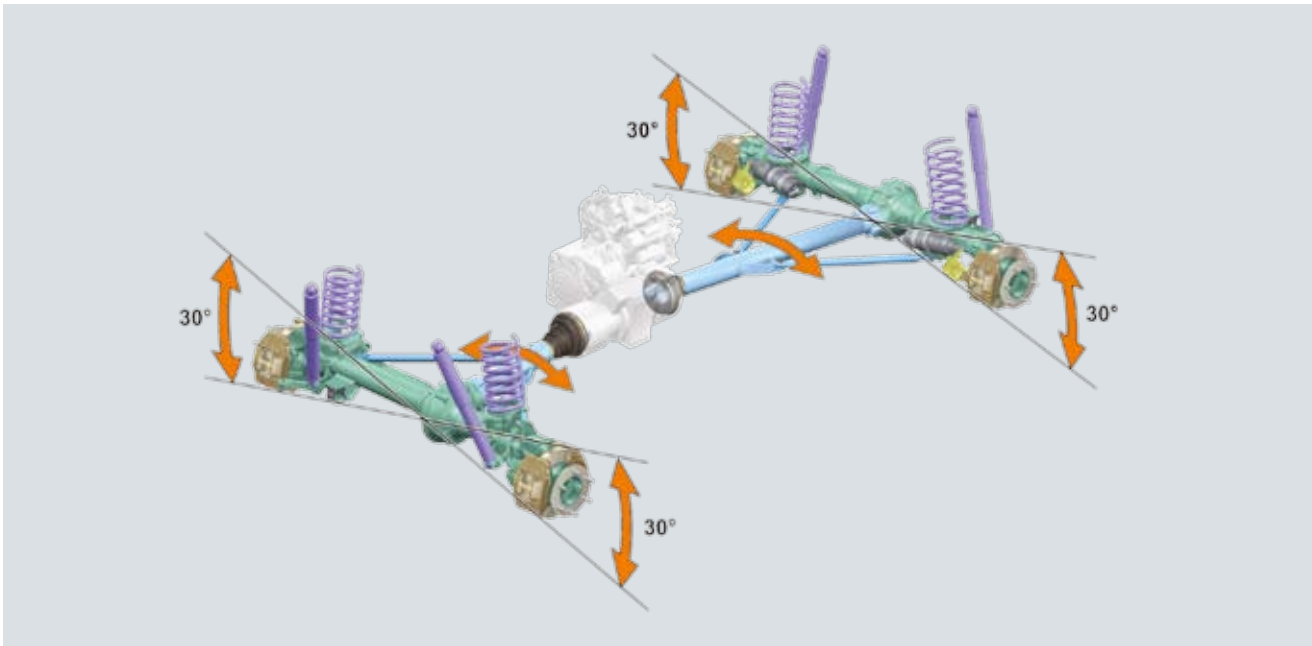


Ample ground clearance due to 2 identical portal axles with wheel-hub drive

**Axel Suspension.** Keeping all four Wheels firmly on the Ground. One advantage off-road is the axle suspension with thrust tube, lateral steering and coil springs. This somewhat unusual type of suspension for an off-roader provides long shock courses and outstanding axle articulation. Stabilisers at front and rear ensure better cornering stability and safer driving.

- Permanent surface contact for all 4 wheels, even over extremely uneven ground
- Progressive spring characteristics ensure driving stability with any load
- Very safe driving, even with bodies with high centre of gravity





Axle suspension with coil springs and thrust tube technology guarantee long shock courses and maximum axle articulation

**Thrust Tube Technology. Greatest possible diagonal Torsion.** The special thrust tube construction gives the springs extremely long shock courses and diagonal axle articulation of up to 30°. As the thrust tube encloses the drive shaft, it is safe from dirt and damage. The wheel-hub drive is independent of the suspension system – thus giving improved traction and stronger tractive power.

- Extremely long shock courses
- Maximum diagonal torsion
- Drive shaft protected over extremely muddy and rocky terrain
- Wear-resistant and maintenance-free axle suspension

**Manually-Engageable Four-Wheel Drive. Powerful – off and on the Road.** With its rear-axle drive for driving on roads and the manually-engageable four-wheel drive for off-road work, maximum traction is available in every situation. And, over extremely difficult terrain, differential locks in both axles make sure the powertrain is working at full strength. Even if only 1 wheel has sufficient traction, the Unimog still gets ahead and copes with gradients of up to 100%.

- Selectable rear-axle drive or four-wheel drive
- Differential locks at front and rear engaged or disengaged with rotary switch while driving
- No interruption of tractive force during gear shifting
- All 4 wheels synchronised 100% by locking effect in both axles



Even over extreme terrain. The Mercedes-Benz Unimog always has all 4 wheels firmly on the ground

# Off-Road Capabilities

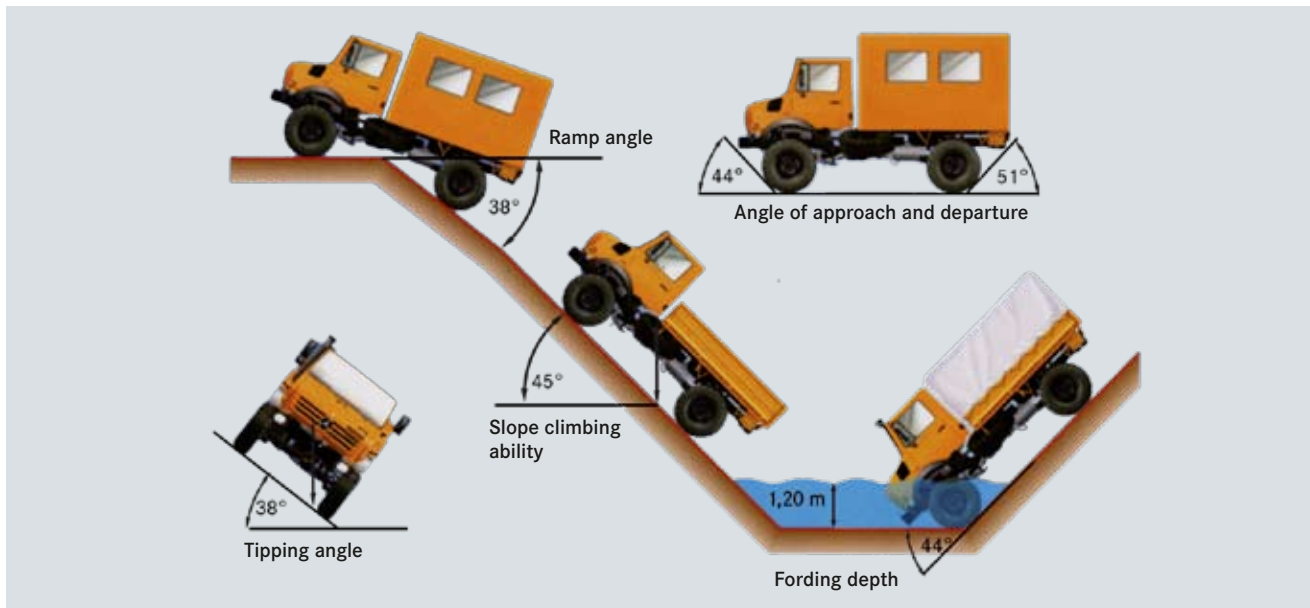
Even today, the off-road capabilities of the Unimog U 3000/U 4000/U 5000 have still not been equalled. Whether deep snow, high water, bogs or scree – the Unimog takes its crew, materials and heavy equipment quickly and safely to any location. The Unimog is always in the front line to bring help for disaster intervention or for expeditions.

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Safe over any terrain. With excellent angles of approach or departure at front or rear, climbing ability up to 100% and fording ability to a depth of 1.20 m, the Unimog gets you to any destination

**Short Frame Overhang. With ease over difficult Terrain.**

Thanks to its coil springs with long shock courses (instead of the typical leaf springs used by trucks), the Unimog U 3000/U 4000/U 5000 has a short frame overhang at front and rear, enabling it to tackle extreme angles of approach and departure with ease. Its low centre of gravity and extreme torsional flexibility provide additional security with respect to steep slopes and tipping angles.

- Overcomes obstacles, hilltops, steep slopes or embankments easily

**Fording Ability. Not shy of Water.**

Watercourses or flooded areas are not a problem for the Unimog. Thanks to its thrust tube technology, air intake pipe at cab roof height and waterproofed components, the standard version can ford up to 80 cm of water. And with the optional fording package, it makes its way through water up to 1.20 m deep, arriving safe and dry on the other side without any damage from water or fine sand seeping in.

- Able to ford water up to 1.20 m deep
- Special seals prevent water or fine drifting sand from seeping into its sensitive units



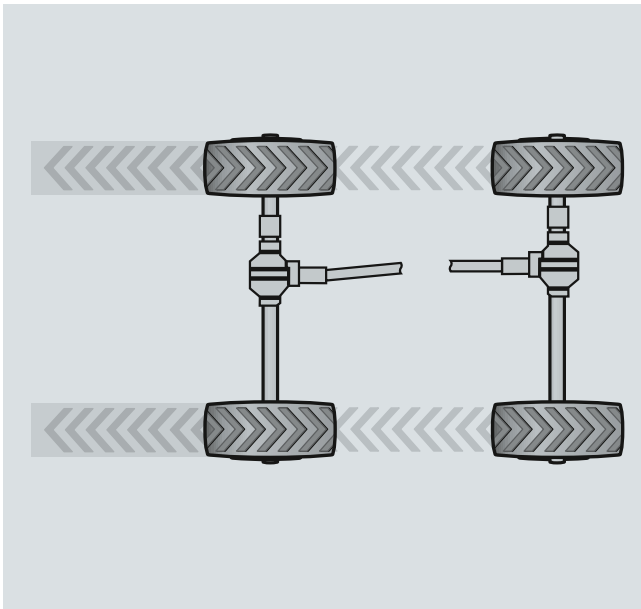
Even when fording, sensitive units and electrical installations remain high and dry

**Single Tyres. For anywhere and everywhere.**

Unlike the normal four-wheel drive trucks with twin tyres fitted on the rear axle, the Unimog has four single tyres. The rear wheels always run in the compressed tracks created by the front wheels, which offers higher traction and lower rolling resistance. With the wide range of tyre sizes and types available, the Unimog can be equipped with exactly the right tyres for the terrain in question.

- A large selection of tyres are available: from MPT large-volume low-pressure tyres to special sand and tractor tyres
- Chains can also be used for snow or difficult terrain, depending on the size of the tyres chosen





The single tyres increase driving stability and traction and have low rolling resistance

**Tyre Pressure Regulation System (tirecontrol).** Always the right Tyre Pressure. A further plus when driving over challenging or soft terrain: tirecontrol, the optional system for adjusting tyre pressures quickly and flexibly to suit changing surface conditions while on the move. The air pressure is lowered at the touch of a button to increase the tyre contact area, thus preventing it from sinking into soft ground and to increase traction. Or to compensate for loss of tyre pressure while driving.

- High traction, good self-cleaning properties and reduced tracks on the ground
- Flexible adjustment of tyre pressure while driving to suit the road and terrain conditions
- Tyre damage due to too low or too high tyre pressure is avoided



With tirecontrol you can adjust the tyre pressure to suit the terrain – simply with a switch

**Dual-Circuit Braking System plus ABS and ALB. Safe in any Situation.** The compressed-air-supported dual-circuit disc braking system always brings the Unimog to a safe stop, even on long hills and with heavy loads. Just as reliable in winter as it is in summer after driving through mud and water. Additional safety and driving stability are provided by the disengageable anti-lock braking system (ABS) as the wheels can then block and shorten the braking distance in difficult terrain by building up a soil wedge.

- Effective spring-type parking brake requiring minimal operating strength
- ABS control for each wheel
- ALB – automatic braking force control which adjusts to the load situation



Disc brakes and disengageable ABS on all 4 wheels provide greater safety off-road – even when loaded with heavy superstructures



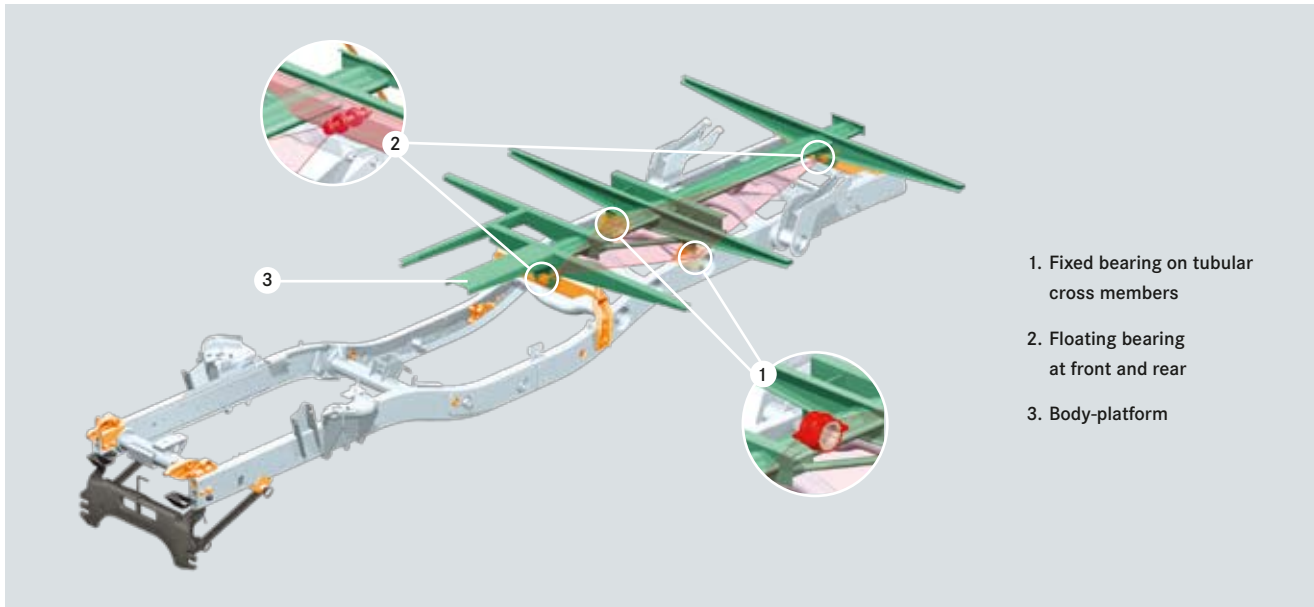
# Attaching and Mounting Areas

One for almost everything – with its two attaching areas and one mounting area, the Unimog U 3000/U 4000/U 5000 is a unique vehicle with outstanding off-road capabilities for very varied operations far away from paved roads. For all-year-round use and very cost-effective.

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1. Fixed bearing on tubular cross members
2. Floating bearing at front and rear
3. Body-platform

Twist- and strain-free mounting of sensitive units and superstructures due to double 3-point mounting

**Double 3-Point Mounting. Outstanding off-road Capabilities even with Superstructures.** In addition to the 3-point mounting for cab, engine and transmission, the heavy-duty ladder-type frame is also fitted with a double 3-point mounting system to ensure twist- and strain-free mounting for superstructures. They are fitted at positions best suited for passing on thrust, traction and weight forces. Thanks to the 3-point mounting, even the greatest axle articulation causes no damage to cab or superstructure – the Unimog U 3000/U 4000/U 5000 always stays in command of the situation, even in the most extreme off-road conditions.

- Ladder-type frame with double 3-point mounting system for superstructures
- Optional ex works: sub-frame with double 3-point mounting and integrated mounting positions for easy fitting of box-type superstructures

**Attachment and Mounting Areas. Close Cooperation with Body and Implement Manufacturers.** Where great demands on man and technology meet up with extreme terrain the Mercedes-Benz Unimog comes into its own. And thanks to its great versatility and individuality, the demands of the job can be met. For decades, implements and bodies have been designed in close cooperation with leading manufacturers. And you can rest assured that in the long run you will be getting the perfect solution for your vehicle or special operation.

- Front mounting area: brackets for attaching front winches
- Mid mounting area using mounting points or sub-frame: minimal stress and strain, long life span for vehicle and implements



Commercially available hydraulic pumps, e.g. for a crane, can be used via a standardised connector on the auxiliary drive

**Auxiliary Drives. Including all Power Options.** The Unimog U 3000/U 4000/U 5000 has a fast auxiliary drive for running commercially available hydraulic pumps for cranes or excavators. It also has an even faster auxiliary drive for connecting to fire-extinguishing pumps or similar power units. The auxiliary drives can only be engaged or disengaged while the vehicle is stationary.

- Operated via a pull switch
- Hydraulic or fire-extinguishing pumps controlled via a special CANbus-linked module with programmable parameters

**Hydraulic System. Simple to connect, easy to operate.** This powerful hydraulic system with a working pressure of up to 240 bar can run an oil engine or an external control panel, making it suitable both for permanent consumers and for operating implements via valves on the piece of equipment. Standard plug connections make for easy, fast and error-free connections.

- 2 hydraulic connections each at front and rear (pressure and return line) for winches, cranes, etc.

## Easy to Operate and Ergonomic

The cab of the U 3000/U 4000/U 5000 provides everything the driver and crew need to do their everyday work as ergonomically and safely as possible. And the combined air-conditioning, heating and ventilating system makes sure they feel comfortable in every situation.









Air-conditioned cab

**Short-Bonnet Cab. Spacious and ergonomically designed.** The position of the short-bonnet cab behind the engine and its 3-point rubber mounting suppresses vibrations and jolts and provides a relaxed working atmosphere. The interior with its sound-absorbing shell and comfortable seats is equipped with generous storage areas and head-room (e. g. when wearing a helmet). A pleasant working atmosphere is ensured by the integrated air-conditioning unit with auxiliary heater.

- Cab: 3-point mounting to neutralise vibrations
- Optional: raised cab roof providing more headroom
- Versatile square roof hatch which can be raised.  
Optional: round swivel roof hatch
- Easy entry and exit behind the front axle



Generous storage is provided by 3 large compartments underneath the fold-away rear bench

**Crew Cab. Plenty of Room for the whole Crew.** The Unimog U 3000/U 4000/U 5000 with the special version crew cab providing a maximum of 6 seats with enough room for 6 people as well as maximum leg- and headroom. Generous storage is available in the 3 large compartments under the fold-away rear bench. Tools, work materials and personal effects of all the crew members can be stored here safely, but are still easy to access at any time. Other storage compartments are on the central console and in the front doors. The rear passenger doors open extra-wide making it easier to get in and out. A further plus: the additional roof hatch at the rear.

- Optional: crew cab with raised roof, 4 side doors, up to 6 seats
- Integrated in the vehicle's design; available ex works
- Plenty of storage space under the fold-away rear bench

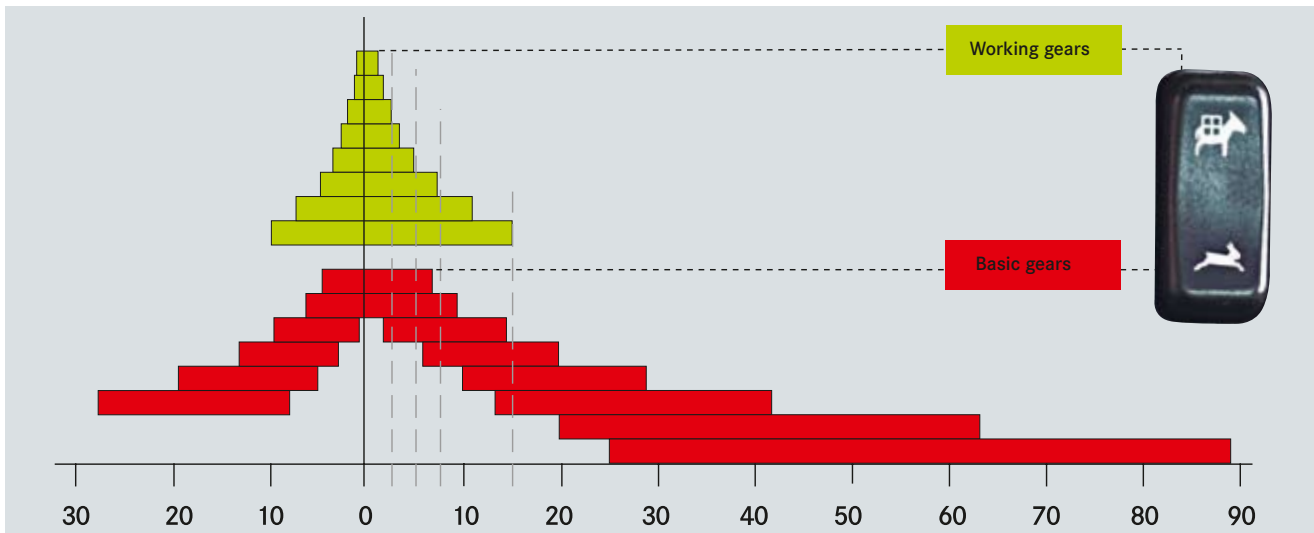


The instrument panel: clearly structured with an easy-to-operate driver information system (FIS), illuminated dials and 2 LCD multifunction displays

**Ergonomic. Clearly arranged and easy to operate.** The driver information system (FIS) makes sure at a glance that all important functions are under control with status reports, event reports and menu-driven online diagnosis. The standard cruise control, Temposet, electronic manual throttle control and the 2-stage engine or permanent brake are all controlled with the multifunction lever on the right-hand side of the steering column. Optical and acoustic signals help the driver to react immediately, if the need arises.

- Cruise control regulates the speed without the accelerator
- Temposet limits the speed without the accelerator
- Manual throttle control sets an exact engine speed





With its finely graduated speeds and as an option fully load-bearing off-road gears, the Unimog U 3000/U 4000/U 5000 is perfectly equipped to deal with very varying operations

**Telligent® Gearshift. Shifts in a Flash.** Tap the gearshift lightly to front or rear – and the shift control will instantly calculate the torque and, depending on the engine speed, the appropriate gear to engage, which is then shown on the display. If you agree, you only have to press your clutch. Otherwise, simply select the gear you want manually.

- Easy on the engine, clutch and transmission
- Relaxed, concentrated and economical driving

**AutomaticShift. Shifting Gears as you like.** Take the strain out of driving while operating implements or hauling heavy loads. With AutomaticShift you can decide, at the touch of a button, to use either M for manual or A for automatic gearshifting. Both without using the clutch. Even in automatic mode, the driver can intervene with the gearshift lever and change a gear manually.

- Less wear and tear on the clutch
- Reduced fuel consumption: Select either automatic mode (e.g. for driving on the road) or manual mode (e.g. for off-road driving)



Electronic Quick Reverse makes it easy to change directions quickly or rock free off-road

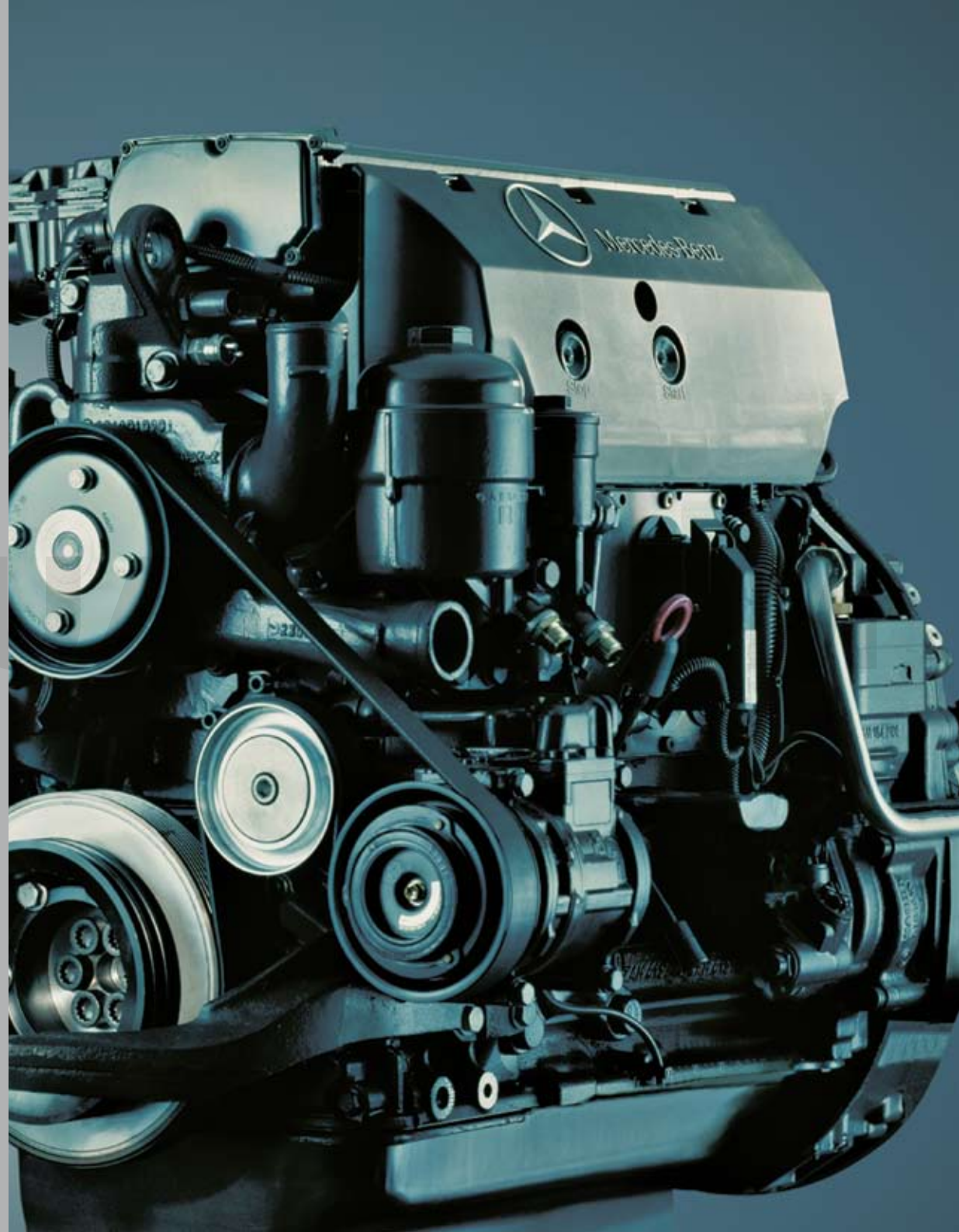
**Transmission. As versatile as you need it to be.** The fully synchronized electro-pneumatic gearshift Telligent® with its 8 forward gears and 6 reverse gears stands out with its smooth-running, long life span and high efficiency. It is perfectly coordinated to deal with numerous types of operations. The synchronized Electronic Quick Reverse (EQR) makes it easy to change directions quickly or to rock free when off-roading. The special off-road gear group with an additional 8 forward and 8 reverse gears guarantees maximum traction in the lower 1–15 km/h speed range.

- For every situation the proper gear: efficient and cost-effective
- Direct, rapid gear shifting, e.g. to rock free off-road

# Economic Efficiency and the Environment

The Unimog U 3000/U 4000/U 5000 is not just ready for any situation or terrain, it is also designed for a long cost-effective working life. Reliability, a long life span, economic efficiency and environmental protection make the unique implement-carrying concept an unrivalled future-proof vehicle.

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**Mercedes-Benz Engines. Always Ready to Give Peak Performance.** The low maintenance Euro 4 engines (from 2009: Euro 5) from Mercedes-Benz are state-of-the art in every aspect and perfectly equipped to fulfil any and every assignment. From their direct-injection and 3 valve technology, turbocharger and intercooler, to their steep torque curve, constant output over a wide rpm range and high power reserves. The combustion-air intake is positioned on the cab roof where dust levels are lowest. The radiator system has been developed especially to cope with the high demands placed on the Unimog U 3000/U 4000/U 5000. Intercooler and radiator, each with its own viscose fan, are fitted next to each other high above the ground. Thus the cooling performance is greatly improved and pollutants are kept to a minimum for maximum functional safety when fording. You can definitely rely on the Unimog to get you through, even during the most demanding offroad operations involving extremely varying temperatures or extreme dust.

- From 110 kW (150 hp) to 160 kW (218 hp)
- Low-emission, economical and quiet-running
- Great tractive force and torque cohesion

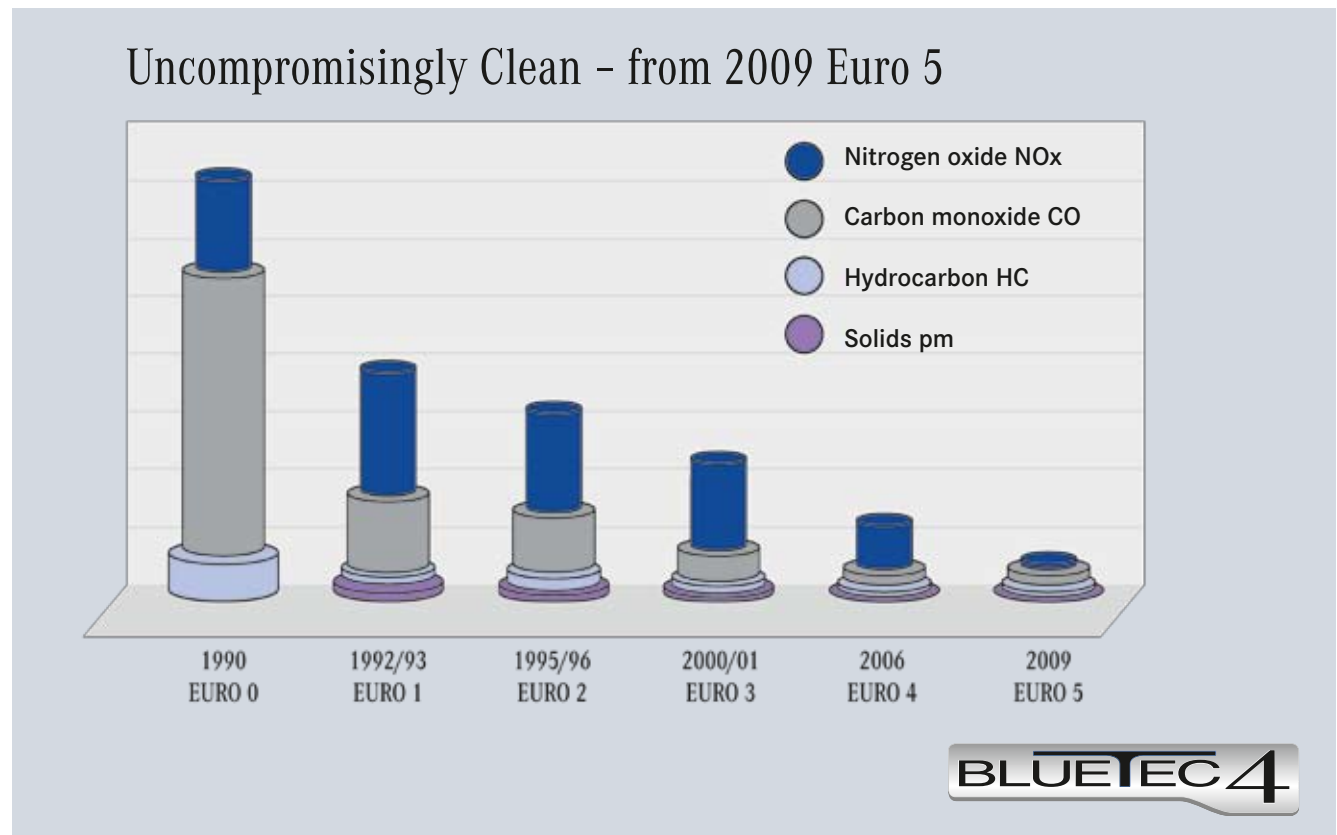
**Euro 3/Euro 4/Euro 5. For every Standard, a safe future-proof Solution.** With the new Selective Catalytic Reduction (SCR) diesel technology from Mercedes-Benz, the Unimog U 3000/U 4000/U 5000 Euro 4 version fulfils the new European exhaust emission standards (in force since October, 2006). From 2009 on, the engines will fulfil the Euro 5 standards. Where the new exhaust emission standards are not compulsory, the Unimog can still be delivered in the Euro 3 version – with its already very high environmental standards for emissions.

- Depending on national exhaust standards, the Unimog is available in Euro 3 or Euro 4 versions

**BlueTec® Clean, safe, economical.** BlueTec® drastically decreases nitrogen oxide and particle emissions while optimising fuel consumption without reducing diesel engine performance. An additional catalytic converter reduces the nitrogen oxide with the additive AdBlue®, a chemically nontoxic, aqueous solution, which is added from a separate tank. With this new technology, the Unimog not only meets the strict European Union

standards to reduce vehicle emissions, it also provides a system with minimal wear and tear and maintenance, improved engine performance – depending on the version – and thus a future-proof solution.

**Driving and Working Modes. Engine Regulation as needed.** Engine modes individually adjustable depending on the job. The elasticity of the engine speeds in the driving mode is ideal for road trips and transports. The working mode guarantees minimal engine speed deviations, e.g. for off-road trips even with varying loads.







BMW



Always Close By

## Worldwide Service from Mercedes-Benz

Where there is a Unimog on the road, then we are not far away. Thanks to more than 1,000 service stations worldwide, your Unimog Partner is easy to reach when you need him. With vehicle maintenance and other services which are just as reliable, flexible and progressive as the Mercedes-Benz Unimog itself. From our fast spare-parts service to repairs and maintenance up to a made-to-measure financing or leasing offer. And not just for your Unimog itself, but also for a whole range of bodies and implements. You can rely on us.

Would you like to find out more about the Unimog? Then simply detach the postcard, fill it out and send it off. Or send us the postcard by fax: +49 (0) 721 1510125.

Other information and the current Unimog eNewsletter are available on the internet at:  
[www.mercedes-benz.com/unimog](http://www.mercedes-benz.com/unimog)

You can order the eNewsletter by using the postcard. Simply enter your e-mail address on the reverse side and then you will always be up-to-date.







Looking to the Future

# You want to get things moving?

With the Unimog, you get much more than just a truck. The Unimog is a philosophy come true. There is hardly a sector or situation to be imagined where the Unimog cannot be used successfully – it has proved this for decades. For very diverse tasks and needs, there are 3 product ranges to choose from.

**You have got to know the Unimog U 3000/U 4000/ U 5000** in this brochure.

**As a universal Implement Carrier, the Unimog U 20** with a maximum weight of 7.5/9.3 t is perfect for the requirements of the municipal maintenance yard. It does not cost any more than an up-market municipal tractor, but has all the advantages of a four-wheel drive truck and the power reserves of a genuine Unimog. In short: maximum use potential throughout the whole year.

**As professional Implement Carriers over 7.5 t max. weight, the Unimog U 300/U 400/U 500** provides unrivalled top performances. Especially for professionals who want to combine outstanding performance with economic efficiency in all-year-round service.

**Do you have any questions, comments or suggestions on the topic of Unimog? Or want to know what the Unimog can do for you? Then don't hesitate to contact us. We are looking forward to hearing from you!**







## I would like to know more

Yes, please send me more information about the Unimog U 3000/U 4000/U 5000.

I am interested in the Unimog... (required)  
 privately  commercially

Does your company already use Unimog vehicles?  
 Yes  No

Do you sometimes work in difficult terrain?  
 Yes  No

Do you use various mounted bodies/implements?  
 Yes  No

I want to be the first to find out the latest. Please send me the Unimog-eNewsletter on a regular basis.

Your e-mail address

Company

Last Name

First Name

Position

Address

Postcode, Town

Country

Telephone

Area of business

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