



# The Unimog

More solutions for municipal work



Mercedes-Benz  
Trucks you can trust

# 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 embodies the meaning 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. It is streets ahead in every situation and on any terrain, such as providing municipal services in both summer and winter.

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## Doing alone the work of many

Mowing during the summer with three mowing machines at the same time; clearing snowy and icy roads in winter with a snow cutter or plough and gritter. Due to its unrivalled implement-carrying concept you can use it for all municipal tasks which would otherwise require a whole fleet of different vehicles (e. g. trucks and tractors). And because you have the choice between three model ranges, you get the vehicle most perfectly suited to the work you have to do.

**The Unimog U 20.** As a universal implement carrier up to 7.5/9.3 t max. weight, the Unimog U 20 is perfectly designed to suit the needs of municipal maintenance yards. It costs no more than an up-market municipal tractor, has all the advantages of a four-wheel drive truck and the power reserves of a genuine Unimog. In short: maximum performance potential throughout the whole year.

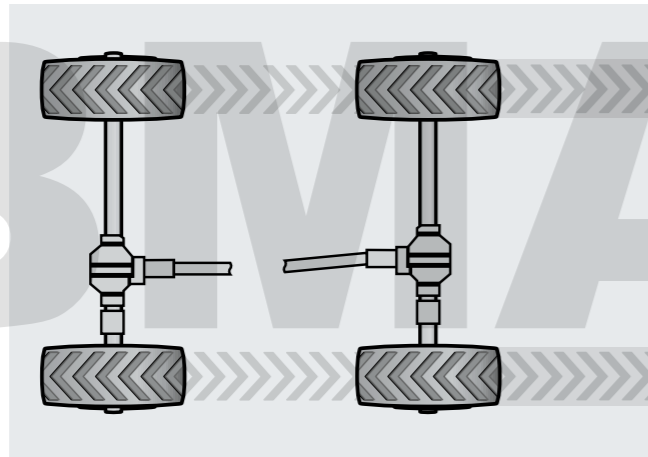
**The Unimog U 300/U 400/U 500.** As a professional implement-carrier over 7.5 t max. weight, the Unimog U 300/U 400/U 500 provides unparalleled top performances. Especially for professionals wanting to combine top performance with year-round economic efficiency.

**The Unimog U 4000/U 5000.** With its unique off-road capabilities the Unimog U 4000/U 5000 eliminates all its competitors. This is ensured by its convincing features such as its flexible frame concept which provides great torsional flexibility its superior four-wheel drive concept with differential locks on both axles, as well as its portal axles giving unusually high ground clearance.

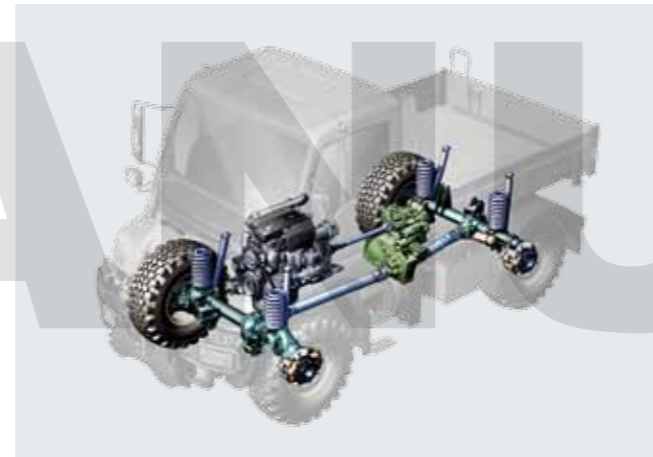


# Chassis expertise

Whether in deep snow, floods, morass or scree: with the Unimog you get directly to your destination without making detours. This is due to the chassis concept which you will not find in any other vehicle manufactured worldwide – and which will give your operational strength a completely new dimension. Unusual ground clearance, favourable angles of approach and departure, a high degree of safety against overturning, extremely good climbing ability, excellent traction – and a top speed of up to 90 km/h on paved roads. Greater mobility just isn't possible.



**Permanent four-wheel drive.** Unimog supplies a four-wheel drive concept which cannot be compared with any other. On the one hand, engageable differential locks in both axles keep slippage to a minimum and provide high traction, on the other hand, an axle suspension using coil springs makes it possible for all four wheels to keep in contact with the ground even when it is very uneven. This means that you get through irrespective of

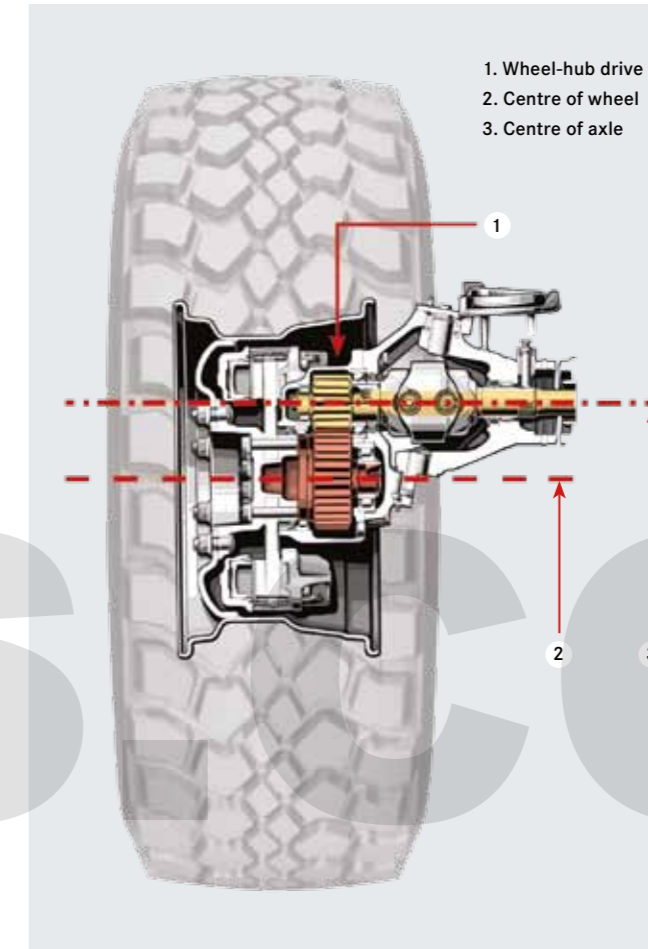


the type of load you have. The extremely stable frame makes it possible to use heavy mounted implements.

**Fording.** Flooded roads, rivers rising over their banks: even though it gets wet, the Unimog still gives a perfect performance.



**Central tyre inflation system (Tirecontrol).** One simple touch of a button is enough to let you reduce the tyre pressure of each axle individually or both at once while you are still in the driving seat. The Unimog will sink less deeply into soft ground; traction and accelerative force are improved. The opposite is true on roads. Here, a higher air pressure reduces wear and tear on the tyres, lowers fuel consumption and rolling noise.



**Portal axles.** Thanks to the portal axles, the Unimog's axle tubes and differentials are higher than the wheel hub. As a result, you profit from unusual ground clearance and can easily drive over obstacles up to a height of 50 cm. In addition, the axle steering guides, with their integrated stabilisers give the Unimog directional stability and keep pitching and rolling to a minimum.

## Your advantages at a glance:

- Unusual ground clearance with portal axles
- Favourable angles of approach and departure, extreme stability and climbing ability, excellent traction
- Top speeds of up to 90 km/h on paved roads
- Permanent four-wheel drive, engageable differential locks
- Continual ground contact for all four wheels
- Very comfortable driving
- Very safe driving, good handling round bends
- 100% locking effect for both axles for non-slip traction for all four wheels
- Large selection of tyres and matching chains for winter services or difficult off-road terrain
- Flexible adjustment of the tyre pressure whilst driving

**Single tyres.** Unlike traditional four-wheel drive trucks with twin tyres on the rear axle, the Unimog is fitted with single tyres. This allows the rear wheels to run exactly in the packed tracks of the front wheels. The result is lower rolling resistance and more traction due to the tooth system of the tyre profiles. A reduced standing pressure is also better for the ground and lessens expensive field damage.

# System and implement-carrying expertise

Everything you can't do with a four-wheel drive truck or municipal tractor can be done by a Unimog. That is guaranteed by its implement-carrying concept which has been especially developed so that you will not be held back even during the most challenging operations: from mowing to clearing snow, from cleaning to rapid transport operations and handling heavy loads to rescue operations in critical emergency situations.

**Experience.** The Unimog implement-carrying concept allows you a great deal of freedom. In addition, for decades Mercedes-Benz has been working together with leading international implement and body manufacturers and so your Unimog combines the concentrated expertise of absolute specialists and more than 60 years of experience.

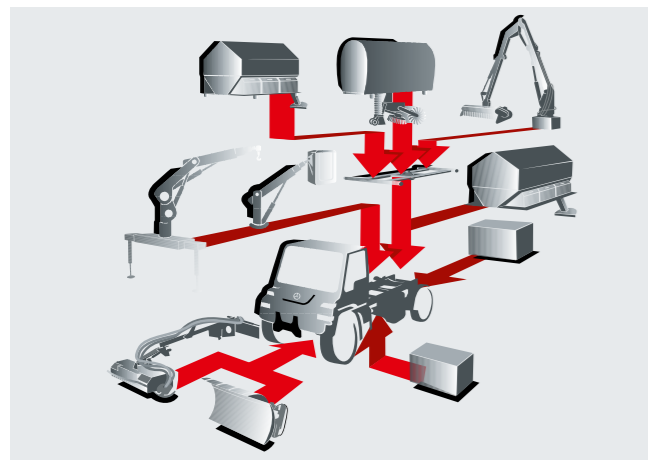
**Up to four attachment and mounting areas.** On the front attachment plate, between the axles, at the rear, on the frame or on the flatbed – with its four attachment and mounting points for a great variety of implements, the

Unimog is more versatile than any other vehicle. All the implements can be exchanged in a flash with the quick-change system. The ladder-type frame from front to back also provides fastening points and hole patterns.

**Integrated drives.** Suitable for all operations: the integrated single or dual cycle hydraulic system, and for the upper performance region, the high performance hydraulic system VarioPower®. All hydraulic functions can be easily controlled centrally by joystick, with one hand.

**Front power take-off.** Implements with high-power requirements up to 150 kW can be run from the powerful front engine-driven PTO.

**Standardised interfaces.** Coloured and numerically coded plugs and connections make connecting equipment easier and faster. Standardised connections make changing equipment child's play.



## Winter services

Frosty temperatures, icy roads and a heavy snowfall forecast during the night. Time to sit back and relax – in the Unimog. The Unimog takes the strain out of ploughing and gritting work, thanks to a large package of technical innovations designed to give the Unimog the edge in all areas of winter service. In fact, they give it the edge over any other vehicle in the world.



**Clearing snow and gritting – for hours on end.** Anyone wanting to keep a cool head and warm feet during long winter sessions needs the Unimog Comfort Cab with its heat-insulating fibre composite construction, windscreen and mirror heating, seat heating and programmable auxiliary heating: your plus points when the temperature is way below zero. And with the joystick control for the dual-circuit hydraulics situated in the cab, you can lift, lower and swing the attached plough ergonomically and without getting tired. The snowplough weight relief allows head-on clearing as well as partial relief for the plough, thus helping to avoid material fatigue. In addition it helps to increase its steering ability, and reduces noise.

**Easy clearing.** Clearing snow with the Unimog has a whole lot of obvious advantages. In comparison with a four-wheel drive truck of the same weight, it has a much higher front axle load-bearing capacity, which means larger and heavier snowploughs can be attached. The shorter wheelbase, its compact width, and naturally the cab with its all-round view give the vehicle unique manoeuvrability and a clear view which is an advantage, not only in inner-city areas.

**Gritting for hours on end.** As gritters can be mounted not only on the Unimog's flatbed but also directly on the ball points of the flatbed's sub-frame, it is possible to go on longer clearing tours using larger gritters. Gritters with a volume of over 4 m<sup>3</sup> are possible.

**EQR (Electronic Quick Reverse).** Completing the Unimog's winter service package is the preselectable electronic quick reverse (EQR) system. This synchromeshed forward/reverse shifting system allows frequent directional changes as required and makes clearing snow faster and easier.

**Permanent four-wheel drive.** Differential locks in both front and rear axles, disc brakes on all four wheels, anti-lock braking system (ABS) and if necessary snow chains on each wheel – even when the surface is icy, the Unimog guarantees the greatest possible safety and thrust as standard. And so you can master every driving situation and can clear precisely, even in narrow streets.



**Compact, manoeuvrable, powerful.** The Unimog's advantages for attaching heavy snowploughs can, of course, also be used with snow cutters. They can weigh anything up to two tonnes. The Unimog's high front axle load-bearing capacity makes this possible. But manoeuvrability and clear visibility are not impaired due to the Unimog's moderately sized body front, the short wheelbase and compact vehicle width. Working and crawling gears as well as the hydrostatic drive allow snowcutters to be used at a perfect working speed. The constant rotational speed of the front PTO with up to 150 kW power output allows uninterrupted operation of a high standard. Up to 1,600 t of snow can be cleared per hour with the snow cutter.



**Great precision in confined spaces.** The optional 4WD-steering gives the Unimog even greater scope and allows it to be manoeuvred in almost any situation. Especially in confined spaces – for instance when clearing or cutting snow in narrow channels. The 4-wheel steering has three different working modes: 4WD steering – reduces the turning circle by a further 20% and makes the vehicle extremely agile; Crab steering – in this mode the Unimog drives with offset tracks. The crab steering counteracts the downslope force when working in areas with a downwards gradient at the side and also has advantages when driving along walls of snow; Rear axle steering – when this mode is activated only the rear wheels turn making the Unimog simpler to handle when reversing or manoeuvring.



**On stand-by for winter service.** Even at 30 degrees below zero. Only the Unimog has that to offer ex works. Thanks to the very long lifespan of the cab, which is made of corrosion-free fibre composite material, with its heated air dryer, engine block preheating, fuel preheating with water separator, intake air preheating, a higher-capacity alternator and more powerful batteries. If necessary, the Unimog can be equipped for even lower temperatures. Just ask your Unimog partner.



#### Your advantages at a glance:

- The best of working conditions even at very low temperatures
- High front axle load-bearing capacity for heavy snowploughs and cutters
- Small turning circle and extremely good manoeuvrability
- Great clearing and cutting output
- Large gritting volumes
- Low vibrations and low fatigue while working

## Mowing operations

Embankment, verge or shoulder mowing with a front boom mower? Mulching uncultivated areas, area mowing, verge mowing, trenching, brush mowing? Whatever your job, the Unimog can do it better. It's the most versatile mowing vehicle on the market, offering exactly the kind of performance you're looking for.



**Endless possibilities.** Whether for villages, towns or motorway maintenance departments, the Unimog can supply a suitable mowing combination for every requirement. For example, it offers one-person operation with a single mower fitted either at the front or at the rear. Or you can



opt for two front-mounted mowers, for one or two-person operation. Just as you like. And as if that were not enough: with the triple-mower combination, the Unimog can perform three mowing operations in one go by using a verge mower, a front boom embankment mower and a further

embankment mower mounted on the drop-side body. One, two or three of these mowers can be operated at any one time, depending on the job at hand.





**Transferable steering.** The VarioPilot® transferable steering system allows you to perform mowing jobs even more safely and on a one-person basis for greater efficiency. To suit the situation, the steering column can be moved from one side of the cab to the other in a single quick and easy step. This way you're always sitting in the best possible position, can move in the same direction as the traffic, and have an excellent view of all the implements. Plus, you can always leave the cab on the side away from the traffic.

**Two-person operation.** With two people on the job, the fully glazed mowing door with swivel seat comes into its own. This genuine Unimog highlight provides the operator with great freedom of movement and a direct view of the mowing head of the rear-mounted mower. With two people on the job, up to three mowing implements can be used at the same time – it doesn't get any more efficient than that.

**Hydrostatic drive.** With the Unimog U 300/U 400/U 500 you can also complete your mowing jobs using the hydrostatic drive system. The advantage here is that the working speed can be increased or decreased smoothly with a constant engine speed, simply by using either the accelerator or hand-turned wheel.

## Maintenance work

Using a branch cutter, the Unimog can perform roadside tree and hedge pruning tasks, carry out shrub and brush control or clear overgrown paths and tracks. Even on winter days when there is no snow around, the Unimog can be utilised for a wide variety of maintenance tasks. Faster and more efficient than any conventional municipal tractor. Additional advantage: All tree fellings and pruning remains (branch diameter up to 25 cm) can be fed straight into the wood chipper, which is powered by the mechanical front power take-off.



The Unimog simply can do more. Just because there is no snow on ground, it doesn't mean that the Unimog is on a summer break. The Unimog can undertake a wide variety of tasks: Whether you are cleaning delineator posts, crash barriers or road signs, maintaining verges, or keeping roads and paths in good condition. The Unimog handles materials, technology and personnel quickly and safely. Even when it gets tough – off the beaten track – on muddy ground or in snow covered terrain. You require a working platform, a crane or a winch? The Unimog can provide you with exactly what you want. Just ask your Unimog Partner!



# Clean-up operations

Whether using a high-pressure water spraying bar on the market square or a front-mounted sweeper to clean construction site exits, whether flushing canals or watering flowers with the telescopic watering arm, the Unimog can be used with a wide variety of quickly exchanged implements. For getting jobs like road cleaning or watering done fast and efficiently.

**Mechanical front PTO.** Soiled roads, buildings, tunnels and noise barriers in particular can be cleaned using high-pressure large-area cleaning equipment, driven by the Unimog's powerful mechanical front PTO.

**Powerful performance.** A pumping capacity of 320 l/min, a suction capacity of 850 m<sup>3</sup>/h and a flushing pressure of 300 bar make for fast and efficient operation, while at the same time conserving resources – even when tackling the most stubborn dirt. At the same time the drop-side mounted water tank with a capacity of up to 6,000 litres provides an ample water supply.

**Practical and clearly arranged.** All the instruments and controls are exactly where you would expect to find them. Implement controls are arranged according to how often they are used, accessibility, easy to understand and situated directly in your line of vision.



## Transporting, loading and distribution

For transport, loading and distribution, the Unimog already has a head start when it comes to operating efficiently as a combined work and transport vehicle. With an overload height of more than three metres, and a payload capacity of over one tonne, it can perform loading work with a front loader quickly and efficiently. The front loader can be fitted and removed quickly and easily, allowing the Unimog to get on with other types of work at a moment's notice.



**Fast and safe.** The Unimog performs its transport jobs extremely reliably and especially quickly with maximum road speeds of 90 km/h. Not only does it get you to your destination quickly, it also gives you a very comfortable ride, even with a full load. And its safety features set standards, with four-channel ABS and automatic load-sensitive brake pressure control (ALB).

**More efficient.** How to be cost-effective on wheels: its short dimensions allow the Unimog to make the most of the maximum permissible transport length of 18 metres by using multi-axle trailers or two trailers.



# Rescue operations

More efficient when working and more economical when driving. Always making the impossible possible. There are many reasons why the Unimog is just the right vehicle for local authority applications. One of the most important is its ability to deal with sudden emergencies. Exceptional situations like landslides, heavy snowfalls and flooding can appear out of nowhere, posing grave danger to life and property. In situations like this you can always count on the Unimog. Where a conventional four-wheel drive truck would have to turn back, the all-terrain Unimog gets to where it is needed and helps wherever it can. The Unimog's unrivalled performance makes it an indispensable part of every fleet.

**Global aid.** Frequently, nature lashes out with a vengeance. Tonnes of mud and rubble cut entire villages off from the outside world, as in summer 2005 in the Swiss holiday resorts of the Bernese Oberland. Floodwaters threaten the economic existence of entire regions, as in the Oder River lowlands of eastern Germany in 1997. Entire regions are destroyed, as in the 2004 tsunami disaster in South-East Asia. Here, and in countless other crisis regions around the globe, the Unimog has always been one of the helpers at the front. Powerful and reliable in a way unmatched by any other kind of vehicle.

**Always ready.** Landslides, flooding, a sudden cold spell. In local authority applications, it is often only a short step from crisis to catastrophe. To cope with the former and prevent the latter, a vehicle is needed which offers one hundred per cent reliability – a vehicle like the Unimog. The Unimog is fast on the road and agile on any terrain. Its unrivalled qualities allow rescue teams to reach the crisis region quickly. Here, all the vehicle's other qualities

come into their own. All the equipment needed, whether powered by hydraulics or by the mechanical front PTO, can be fitted quickly and easily. Therefore, the Unimog always has the ideal tools for the job. For rescue and clearing-up operations, for example, it can be equipped

with a crane, front loader, water pumps, emergency generators or a cable winch. It can also provide invaluable assistance as a transport vehicle distributing supplies to local people. Time after time, the Unimog is among the first to arrive on the scene and among the last to leave.



## Easy to operate and ergonomic

Excellent visibility, high safety standards and clearly arranged controls. The Unimog cab provides everything the driver needs to cope with his everyday work as ergonomically, comfortably and safely as possible – even when the job lasts a long time.



**Taking the strain off the driver.** The cab with its generous headroom and room to move, is made of non-corroding, noise and heat-insulating high-tech fibre composite material (FVW). It is very strong and rigid and with sprung and low-vibration mounting. As most of the functions are electrically controlled, the vibrations in the cab are reduced to a minimum. An optional air sprung driving seat is also available for yet more driving comfort.

**Comfortable environment.** The Unimog has an air conditioner and a sunblind as standard fittings. Additional protection from glaring light and sun is provided by the heat-insulating glass in the Unimog comfort cab. And not only that: dust or pollen filters and an air recirculation switch help to reduce the irritants in the cab.

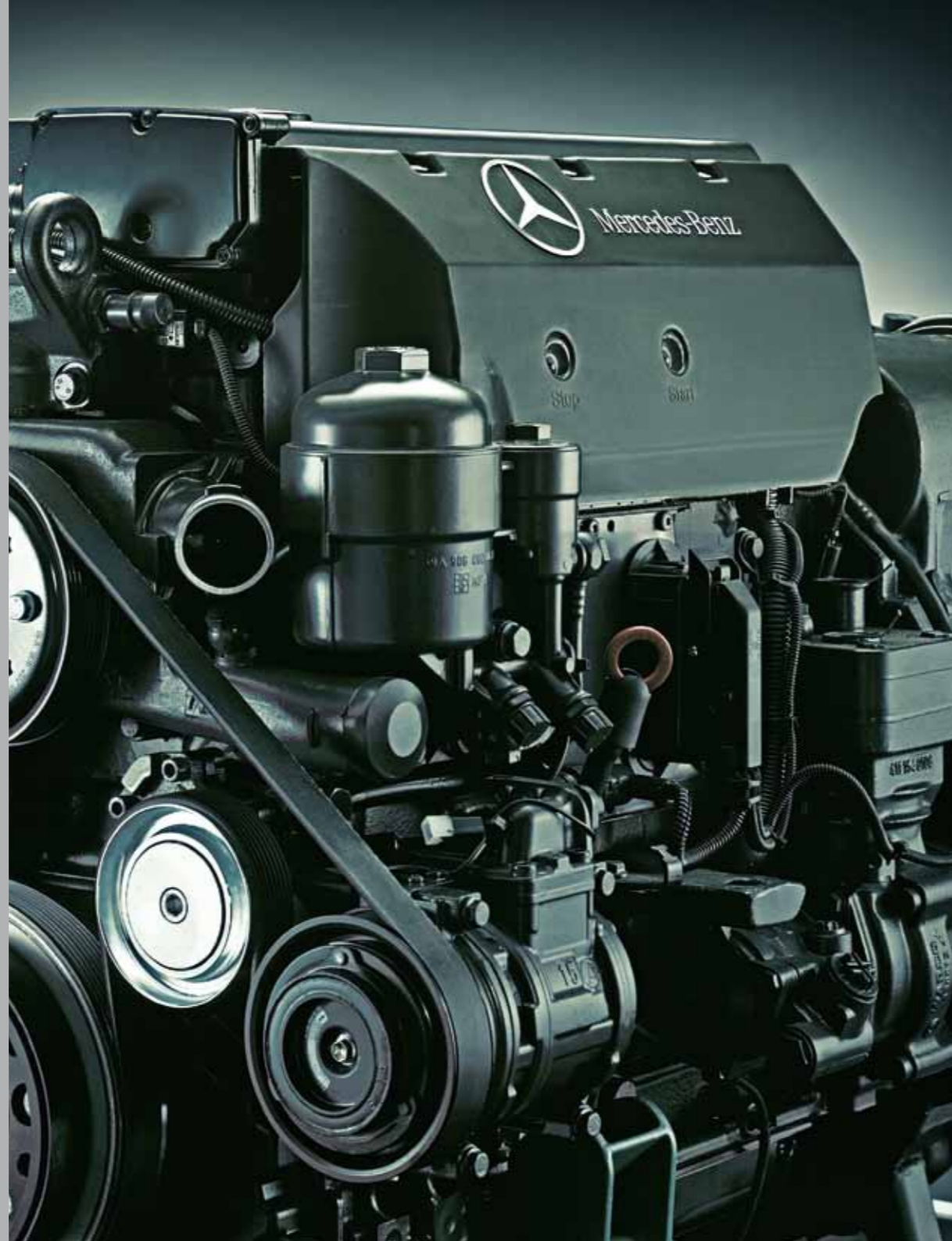
**Ergonomic.** All the operating controls and displays are arranged according to how often an implement is used, easy to reach, easy to understand and in your direct line of vision.

### Your Advantages at a Glance:

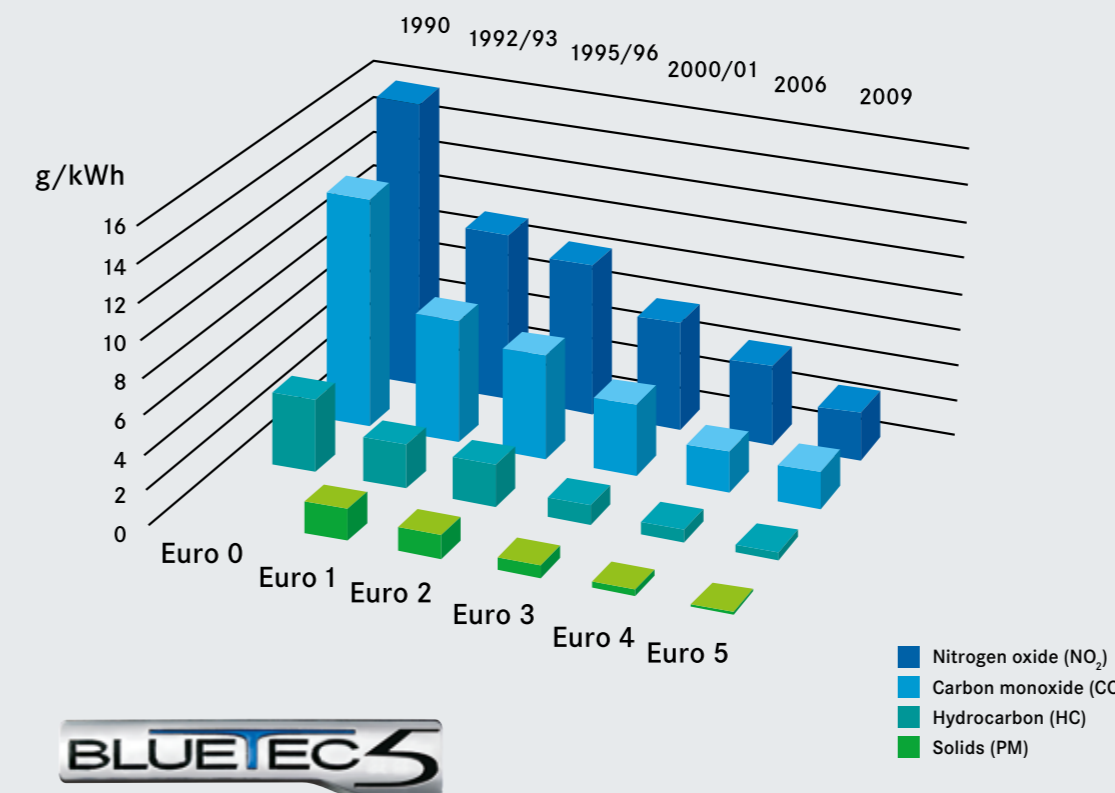
- Ergonomic operating controls
- Generous, insulated, low-vibration cab
- Cab tested according to ECE R29/2
- Air conditioning as standard fitting
- Dust and pollen filter
- Flexible quick-change steering
- Clutch-free driving and working

## Economic efficiency and environment

The Unimog's heart – its state-of-the-art Euro 5 engines – combine efficient power development with low consumption and exemplary environmental sustainability. The Unimog's strength comes from up to 210 kW. And here you have the choice between driving and working modes, depending on the situation at hand. Especially pioneering: BlueTec®, the diesel technology, from Mercedes-Benz. With the SCR diesel technology, you not only optimise your fuel consumption, you also lower your pollutant emissions and easily come up to the European emission standards Euro 5.



## Uncompromisingly clean with Euro 5



**Reliability.** Direct injection, three-valve technology, turbo-charger, intercooler, high torque increase, constant output over a wide rpm range and great power reserves. With the low-maintenance Euro 5 engines you have state-of-the-art technology and are perfectly equipped for a wide variety of operations. Performance capacity: from 110 kW (150 hp) to 210 kW (286 hp).

**Transmission.** Fully synchronised electro-pneumatic manual transmission Telligent® is characterised by its low driving noise, long life cycle and high level of effectivity, and is perfectly suited to the various applications. The synchromeshed forward/reverse shifting EQR system (Electronic Quick Reverse) allows frequent directional changes making clearing car parks of snow or rocking itself free in difficult terrain easier and quicker.

### Your advantages at a glance

- Lower fuel consumption and lower polluting emissions
- Minimal maintenance costs with great operational safety
- Long lifespan for all parts
- First-class resale value

**BlueTec®.** The SCR (Selective Catalytic Reduction) diesel technology from Mercedes-Benz lowers nitrogen oxide and particle emissions significantly as well as optimising fuel consumption, without any loss of engine power. An extra catalytic converter reduces the nitrogen oxide levels using the additive AdBlue, a non-toxic aqueous solution which is fed from a separate tank.

**Winter service.** Equipped to go at low temperatures. Even in the coldest of winters the Unimog is ready to go – thanks to such plus points as the reinforced battery for greater starting reliability, heated air dryer for the brake unit and engine pre-warming.

**Engine control.** The engine feature you want at the touch of a button. In the driving mode on the road and when transporting loads, you profit from its elastic engine speeds. The working mode guarantees you minimal engine speed deviations when off-road, using implements or have changing loads.



## After-sales service

We are there, wherever you are

The Unimog will take you anywhere you want to go - and that is why we are also everywhere on hand for you. At our 650 Mercedes-Benz Service Centres worldwide we can see to your Unimog - if necessary at once. Using just the same care, the same experience and the same technical expertise we used for its construction. And of course, using only spare parts which comply with our strong standards concerning quality and availability.

### Your advantages at a glance:

- ✓ Service network worldwide
- ✓ Personal and flexible after-sales service
- ✓ After-sales service directly from manufacturer to customer
- ✓ After-sales service for both vehicle and implements
- ✓ Customised service products
- ✓ High quality and readily available Mercedes-Benz Genuine Parts

## Financial services

Customised solutions to suit your requirements

Your success relies on a professional financing concept for your fleet. Just like your vehicles, your capital should always be readily available. And that is where the Unimog system with its financial services can make a considerable contribution. We can offer you economically efficient financing and leasing models at favourable conditions which are individually designed to suit your needs.

### Your advantages at a glance:

- ✓ Reasonable conditions
- ✓ Flexible terms
- ✓ Guaranteed interest rates
- ✓ Individual advisory services
- ✓ One-stop service from your Unimog partner



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 online:  
[www.mercedes-benz.com](http://www.mercedes-benz.com)

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

### I would like to know more

Yes, please send me more information about the Unimog.

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.

Email address

Company

Last Name

First Name

Position

Address

Postcode, Town

Country

Telephone

Area of business

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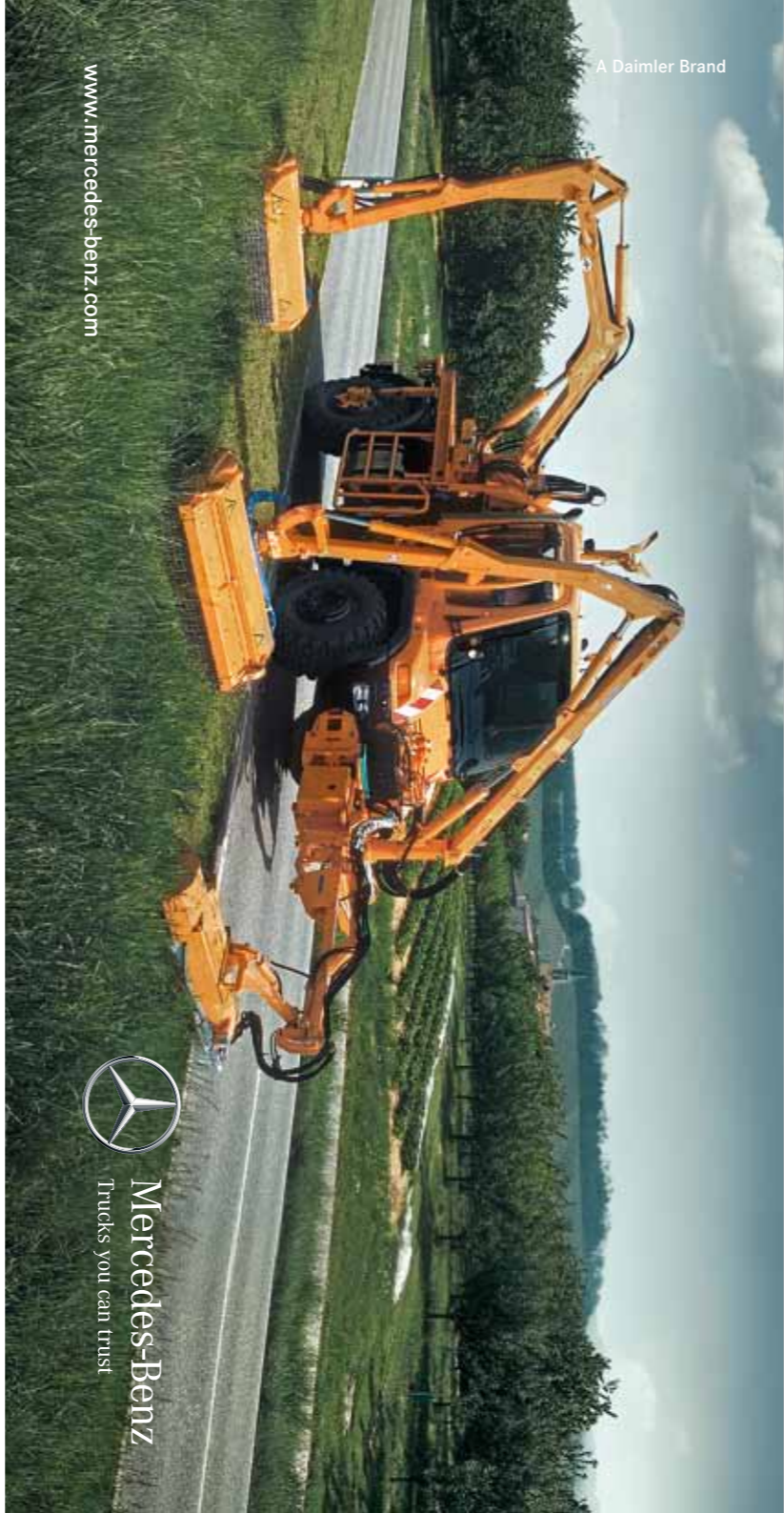


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