

**POWERFUL. ROBUST.  
RELIABLE.**

Simply my truck.



# FULLY LOADED EFFICIENCY.

Trucks from the MAN product portfolio are suitable for a wide range of tasks in the agricultural industry. In the market for an agricultural tank or large-volume semitrailer, silo vehicle combinations, milk collectors or animal transport vehicle? For all these tasks, MAN provides the right solutions. With trucks which combine innovation as well as reliability and ensure a maximum of transport efficiency. Find out for yourself.



Find out more:  
[www.man.eu/mantg](http://www.man.eu/mantg)



# MAN TRUCKS

From semitrailer tractors to agricultural trucks – the entire range and flexibility offered by our trucks.

**PAGES 06–15**



## EXCELLENT DRIVER FIT

The cockpit design ensures maximum driving performance coupled with perfect ergonomics, intuitive operation and a high level of comfort.

**PAGES 16–31**



## GREAT EFFICIENCY AND ECONOMY

MAN trucks combine innovation with reliability – to achieve maximum transport efficiency.

**PAGES 32–37**



**CONNECTED**



## STRONG PARTNER

Thanks to a variety of solutions, MAN is there for you – any time, any place.

**PAGES 38–41**



## MAN TGE

The star amongst light commercial vehicles is a dynamic all-rounder designed for all types of tasks.

**PAGES 42–49**



## OPTIMISED UPTIME

Intelligent fleet and maintenance management, financing and mobility services to keep business reliably rolling along.

**PAGES 50–57**



# THE GUARANTEE FOR SUCCESS IN AGRICULTURE.

**They travel between the field edge and the road all day and impress with their high payload and reduced consumption – MAN Trucks really shine in agricultural operations.**

They are your first port of call – you can use MAN trucks cost-efficiently for transporting harvested crops over great distances, such as grain to agricultural dealers, silo corn to the biogas plant, beet to the sugar refinery or potatoes to the starch plant, right from the farm or from the edge of the field. It is in combined use between the field, road and in further processing applications, however, where you'll really benefit from the high level of efficiency of our MAN trucks. A MAN has a high payload and is an efficient transport solution on the road – it therefore brings benefits to your bottom line. Our comprehensive ex-works vehicle range is perfectly suited to fit your needs.

The range varies from the 4x2 semitrailer tractor for large-volume transport to our MAN HydroDrive® semitrailer tractor for journeys where extra traction may be needed. MAN provides the ideal conditions ex works for industry-oriented equipment such as large-scale agricultural tyres with a tyre pressure control system or various fifth-wheel and trailer couplings.

The intelligent alternative to the classic all-wheel drive is the engageable, hydrostatic front-axle drive, MAN HydroDrive®. It is ideal for operations with occasional off-road sections, and for situations where additional traction is required on the front axle.

For further information regarding MAN HydroDrive® see page 11.

**For agriculture, it doesn't get better than this:**

- Economic transport solutions for agriculture
- Chassis and semitrailer tractors with appropriate agricultural attachments or semitrailers
- Chassis with swap bodies, e.g. swap-body systems between liquid and solid transports
- MAN HydroDrive® for MAN TGX or TGS for more traction without more consumption compared to rear-wheel drive (manual shifting or with MAN TipMatic®)
- Normal height, mid-level construction height and all-wheel drive construction height
- MAN TipMatic® gearbox functions: pre-programmed driving settings for various driving situations, i. e. Efficiency program, Manoeuvre mode, programs for heavy loads and Performance mode for a more agile driving style
- Powerful PTOs autonomous of clutch
- Steel bumper

### Working for your daily bread:

- Economic transport solutions for agriculture
- All-terrain, reliable 2-, 3- and 4-axle units
- Permanent or engageable all-wheel drive
- MAN HydroDrive® for MAN TGX or TGS for more traction without more consumption compared to rear-wheel drive (manual shifting or with MAN TipMatic®)
- Normal height, mid-level construction height and all-wheel drive construction height
- MAN TipMatic® gearbox functions: pre-programmed driving settings for various driving situations, i. e. Efficiency program, Manoeuvre mode, programs for heavy loads and Performance mode for a more agile driving style
- Powerful PTOs autonomous of clutch up to 650 Nm
- Steel bumper
- Leaf/air suspension chassis for high driving comfort
- MAN ComfortSteering for low steering forces
- D15 engine for weight-optimised vehicles and outputs up to 294 kW (400 hp)
- Registration as agricultural or forestry tractor vehicle is possible, depending on legislation in the respective country
- Suitable for universal use as agricultural vehicle, semi-trailer or winter service vehicle



# THE OFF-ROAD PROFESSIONALS.

**Agricultural transports frequently take place on unpaved surfaces. If the ground conditions permit, reliable, on-field use of the truck must also be possible.**

Make challenging off-road deployment easy – MAN trucks are always proving their worth, especially when it comes to considerable traction requirements in the field. Reap the benefits of a high payload, safety and high traction in the field. Our comprehensive ex-works vehicle range is perfectly tailored to your needs. Experience the benefits of all-wheel drive MAN trucks with high design height and engageable or permanent all-wheel drive. They're the cream of the crop when it comes to agricultural applications, as routes to many fields take vehicles across topographically challenging terrain and roads that have not been asphalted and are usually gravelled. What's more, not all access routes to clamps, slurry tanks or silos are surfaced. Also, semitrailer combinations often enjoy greater acceptance among other road users and in the population in general than tractors with bulky, multi-axle trailers.

For maximum traction, you can apply our intelligent lock management using the control buttons to engage the differential locks longitudinally and then transversely. This logic can also be varied as needed using the buttons however. And if the vehicle does get stuck, the gearbox "rock-free" mode can be activated. It enables the driver to keep rocking the vehicle forwards and backwards until it works free, at which point it can move off once again unimpeded.

The all-wheel drive really comes into its own combined with the soil-friendly agricultural tyres when leaving country lanes and moving onto grasslands or fields. The right tyres are able to meet the various demands placed on them. The low level of pressure they exert on the ground means they conserve country lanes and agricultural land, their V tread takes care of traction, and they are still able to manage high transport speeds on surfaced roads. A semitrailer tractor with hydraulic system can also be used year-round as a winter service vehicle.



## **DNR selection for MAN TipMatic® on stalk switch**

Operation of the gearbox using the right control stalk is a completely new development. Both driving mode and driving program are selected by means of the stalk switch. Controls located in easy reach near the steering wheel and electric parking brake make for certainty in operation.



#### **Traction in action:**

- Permanent or engageable all-wheel drive for maximum traction
- MAN transfer cases with on-road and off-road gear
- MAN HydroDrive® for driving scenarios where more traction is required
- With MAN HydroDrive® fuel consumption is no higher than that of conventional rear-wheel drive
- Weight saving of approx. 400 kg (depending on wheel configuration) compared to permanent all-wheel drive
- Greater flexibility in vehicle use

# WHERE THERE'S A MAN, THERE'S A WAY.

**Whether for on-road or off-road applications: MAN vehicles with all-wheel drive or MAN HydroDrive® get into action wherever maximum traction is required.**

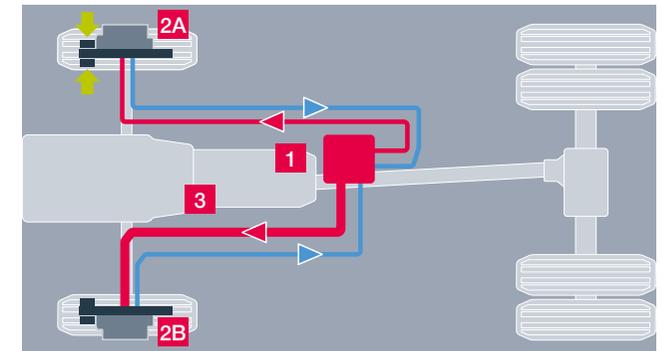
They keep on going while others lose their way: these MAN trucks with permanent or engageable all-wheel drive, available as 4x4, 6x6 and 8x8 models, are the uncrowned kings of traction. In the process, MAN transfer cases with on-road gear and off-road gear assume responsibility for power distribution to all axles. Planetary axles with greater ground clearance, differential locks, drum brakes and stabilisers are also fitted in the all-wheel-drive vehicles.

The clever alternative to the classic all-wheel drive is MAN HydroDrive®, the engageable hydrostatic front-axle drive. It is ideal for assignments with occasional off-road deployment and for situations in which additional traction is needed on the front axle. A further advantage is that the fuel consumption and the vehicle height remain at the favourable level found in a conventional rear-axle drive. The MAN HydroDrive® is also available in combination with the automated manually operated MAN TipMatic® gearbox.

The further development of the electronic brake system EBS (use of active wheel speed sensors) means that vehicles with MAN HydroDrive® can also be combined with anti-slip control (ASR). This improves traction in this type of drive when a front wheel spins more on one side. The brake intervention of the ASR brakes the wheel with slip. As a result, more drive force is automatically directed to the wheel on the opposite side with more traction. The system therefore – in a reduced manner – primarily mimics the effect of a front axle transverse differential lock. This significantly improves the off-road capability and the ability to move off on unpaved surfaces that have slippery and less slippery areas within a narrow area.



Front axle with hydrostatic wheel hub motors



**Key**

- 1** Hydraulic pump
- 2A, 2B** Hydraulic motor
- 3** Hydraulic line



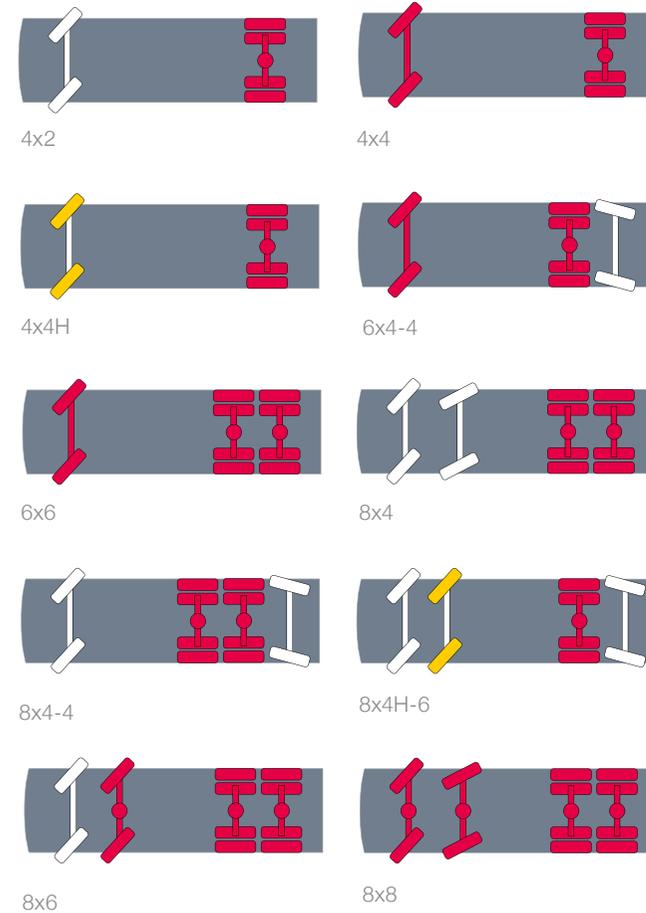
#### Chassis for agricultural operations

Type			Suspension
TGM	13 to 18 t	4x4	BL
TGS / TGX	18 t	4x2	BL
TGS / TGX	18 t	4x4H	BL
TGS	18 t	4x4	BB
TGS	18 t	4x4	BL
TGS	26 to 28 t	6x2-4	BL
TGS	28 t	6x4-4	BL
TGS	26 to 40 t	6x6	BB
TGS	32 to 41 t	8x4	BB, BL
TGS	35 t	8x4-4	BL
TGS	35 t	8x4H-6	BL
TGS	35 to 41 t	8x6	BB
TGS	35 to 41 t	8x8	BB

# THE PERFECT CHOICE FOR THE JOB.

In the wide range of agricultural tasks, there is nothing which our vehicles cannot perform. Irrespective of where reliable transport performance is always demanded, MAN is there to provide the service.

The comprehensive MAN vehicle range with the MAN TGL, MAN TGM, MAN TGS and MAN TGX covers a requirement between 7.49 to 44 tonnes. Thanks to our wealth of experience and close cooperation with body manufacturers, we are able to provide you with the ideal vehicle solution for each and every task.





#### Modifications for agricultural vehicles:

- Wheel arch cutouts for largest wheels
- Relocation of the exhaust system for large wheels
- Trailer coupling support on the end of the frame
- Hydraulic system
- Operation for control units at the vehicle rear
- Standard trailer coupling, height-adjustable, at vehicle rear

- 1 Spotlight on cab roof
- 2 Wheel arch cut-out for largest wheel
- 3 Trailer coupling support on the end of the frame
- 4 Hydraulic system with ROPS (Roll-Over Protection System) roll-over bar behind the cab

# TAILOR-MADE TRUCK.

Life is all cakes and ale – at least with MAN Individual. We can upgrade your truck to suit your wishes and requirements. This will make it exclusively unique – from a first glance at the design right up to a feeling of well-being throughout the entire driver's cab. You have the choice when it comes to the cab, chassis, driveline, electronics and body – and we have the right solutions.

Precisely as with the standard chassis, with MAN Individual you are building upon excellent MAN quality excelling in outstanding reliability and safety. And what's more: After delivery of the modified chassis, you benefit from our guarantee and warranty.

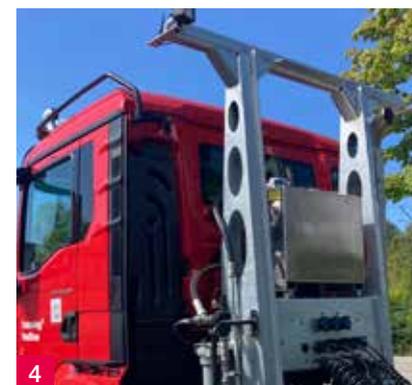
## One-stop service

You get everything from one source, thus always having an overview of the costs. From order preparation and design right up to production, quality assurance and delivery, your personal contact partner will ensure that you receive your desired vehicle or your ideal chassis rapidly and straightforwardly. Completely individually. MAN Individual.

Contact your seller to let them know your individual requests. Working together with MAN Individual, they will find the best solution for you. Our specialists will handle your specific requirements, providing the high standard of quality you expect from MAN.

With agricultural applications in mind, we offer you various features such as larger wheel arch cutouts to change all tyres to tyres that do not overly disturb the soil. A tyre pressure control system is available as an option. A trailer coupling support on the end of the frame with standard trailer coupling and ball coupling (80 mm) and two steering balls (50 mm) are also available to make flexible operation easier. A spotlight on the cab roof improves visibility for the driver, and a load-sensing hydraulic system with 80 cm<sup>3</sup> hydraulic pump and 200 bar pressure optimises the supply to the vehicle consumers.

Depending on country-specific legislation, a roll-over bar behind the cab (ROPS Roll-Over Protection System) may be required for approval as a LOF.





- 1 Language recognition via driver card
- 2 Preparation for Alcohol Interlock
- 3 Sensor system for the fifth-wheel coupling

# DRIVING IN COMFORT.

With automatic language recognition via driver card, activated via MAN Now, the language saved on the card is automatically adopted as the “vehicle language” after inserting the driver card into the tachograph (when the ignition is switched on) and does not have to be set or selected manually via the vehicle menu. Manual language setting via the vehicle menu remains available, so that a language other than the one stored on the driver card can be subsequently selected.

28 languages are available. The languages German and English are available in every vehicle. In countries where RIO is offered, additional languages are also available subsequently free of charge via MAN Now.

## **Preparation for Alcohol Interlock**

Traffic accidents caused by alcohol are particularly annoying because they are absolutely preventable. The driver must react in a fraction of a second even in a sober state, e. g. to avoid an impending accident. Under the influence of alcohol, this is impossible. With the preparation for connecting a device for determining the alcohol content in the breath, the engine can only be started if a maximum permissible alcohol content (may vary from country to country) is measured in the air tested.

The electronic blocking of the engine start by the alcohol tester can be cancelled or bypassed (depending on the version, for example in emergencies) by pressing a secured button. Please note: This is only permissible for certain countries.

## **Sensor system for the fifth-wheel coupling**

The sensor system of the fifth-wheel coupling enables safe and convenient sensor-supported monitoring of the coupling and uncoupling operation from the driver's workplace. This prevents damage due to incorrect coupling processes. For a controlled and guided coupling process between the semitrailer tractor and semitrailer, displays and text messages are shown to the driver on the instrumentation display as a sub-item of the air suspension menu. If a coupling process has been completed correctly, this is also confirmed by an acoustic signal. Please note: The pre-departure check remains mandatory despite the indication of the locking status in the driver's display.

# INCREASED SAFETY.

## Front Detection

Whether in the delivery zone of a supermarket, when leaving the workshop or in hectic inner-city traffic: people may be located directly in front of the vehicle where they are difficult to see. **When moving off and at speeds of up to 10 km/h**, Front Detection monitors the close range in front of the vehicle, which is difficult or impossible for the driver to see, and warns the driver in two stages if it has detected particularly vulnerable, “weaker” road users, such as pedestrians or cyclists. Front Detection thus helps to increase safety and prevent accidents. It relieves the strain on the driver, in particular during urban driving.

Front Detection supplements the Emergency Brake Assist EBA Plus, which includes a comparable protective function for particularly vulnerable road users, but only becomes active at speeds above 10 km/h.

## Emergency Brake Assist EBA Plus

In an emergency, automatic brake intervention until full braking – this has previously saved lives in the event of an impending collision with other vehicles. But what happens if pedestrians or cyclists suddenly enter the driving area? The enhanced Emergency Brake Assist warns and now reacts to these more vulnerable road users as well. The Emergency Brake Assist EBA Plus warns the driver of an impending collision **at road speeds of 10 km/h and above**. In the event of an emergency, if a collision hazard is detected, automatic braking intervention takes place even to the point of standstill – also for vulnerable, weaker road users such as pedestrians or cyclists. Available on demand in a version that cannot be switched of.



- 1 Front Detection
- 2 Emergency Brake Assist EBA Plus



# FURTHER ASSISTANCE SYSTEMS.

## **Direct call-up of central operating menu for assistance systems**

A new button directly opens the central operating menu for configuring the assistance systems available in the vehicle. This simplifies switching on and off as well as configuration of all the available assistance systems – especially with frequently changing drivers. Depending on the equipment, the button for central operation of the assistance systems is located either on the multifunction steering wheel or in the assistance system key panel on the instrument panel (for vehicles without multifunction steering wheel). There is also a button for temporary switching off the acoustic signals of the assistance systems.

## **Long-haul transport assistant MAN CruiseAssist**

Across the entire permitted speed range on motorways and main roads similar to motorways with structural separation of lanes, the long-haul transport assistant MAN CruiseAssist automatically controls the driveline, brakes and steering, if necessary decelerating to a full stop behind a vehicle that is stopping and, in the case of brief stops, automatically moving off again. MAN CruiseAssist guides the vehicle continuously by means of gentle steering interventions. The system uses the detected lane markings as orientation.

## **Lane Change Collision Prevention Assist**

The MAN Lane Change Collision Prevention Assist uses radar sensors to monitor the areas to the left and right of the vehicle's lane. If the sensors detect that changing lanes would result in a dangerous situation, the driver is warned in good time. If the vehicle nevertheless leaves the given lane – also if the turn indicator has been actuated – the Lane Change Collision Prevention Assist steers it back into the lane by means of a corrective steering torque.

## **Lane departure warning (LDW)**

An acoustic signal warns the driver if they drift out of their lane. Available on demand in a version that cannot be switched off.

## **Lane change support (LCS)**

Lane Change Support LCS monitors the lanes on the right and left next to the vehicle with the aid of radar sensors from a driving speed of 50 km/h – up to approx. 30 m towards the front and up to approx. 80 m towards the rear. If the sensors detect a dangerous situation when the vehicle is changing lanes, the driver is warned in good time so that they can prevent a potential collision with other vehicles.

## **Lane return assist (LRA)**

If the truck departs from its lane, corrective steering guides the vehicle back. The vehicle is automatically steered until it reaches the normal lane position; it is not kept in its lane continuously.

## **Turn Assist**

Turn Assist monitors the difficult-to-see side area next to the vehicle (co-driver's side) with the help of radar sensors at road speeds of up to 30 km/h. If the sensors detect a dangerous situation when the vehicle is turning off, the driver is warned in good time so that they can intervene and prevent a possible collision with other road users.

## **Traffic jam assist**

On motorways or other well-constructed major roads, the traffic jam assist can independently operate the vehicle's drivetrain, brakes and steering. It slows behind a stopping vehicle ahead until coming to a stop and moves the truck forward again by itself.

## **ACC Stop&Go**

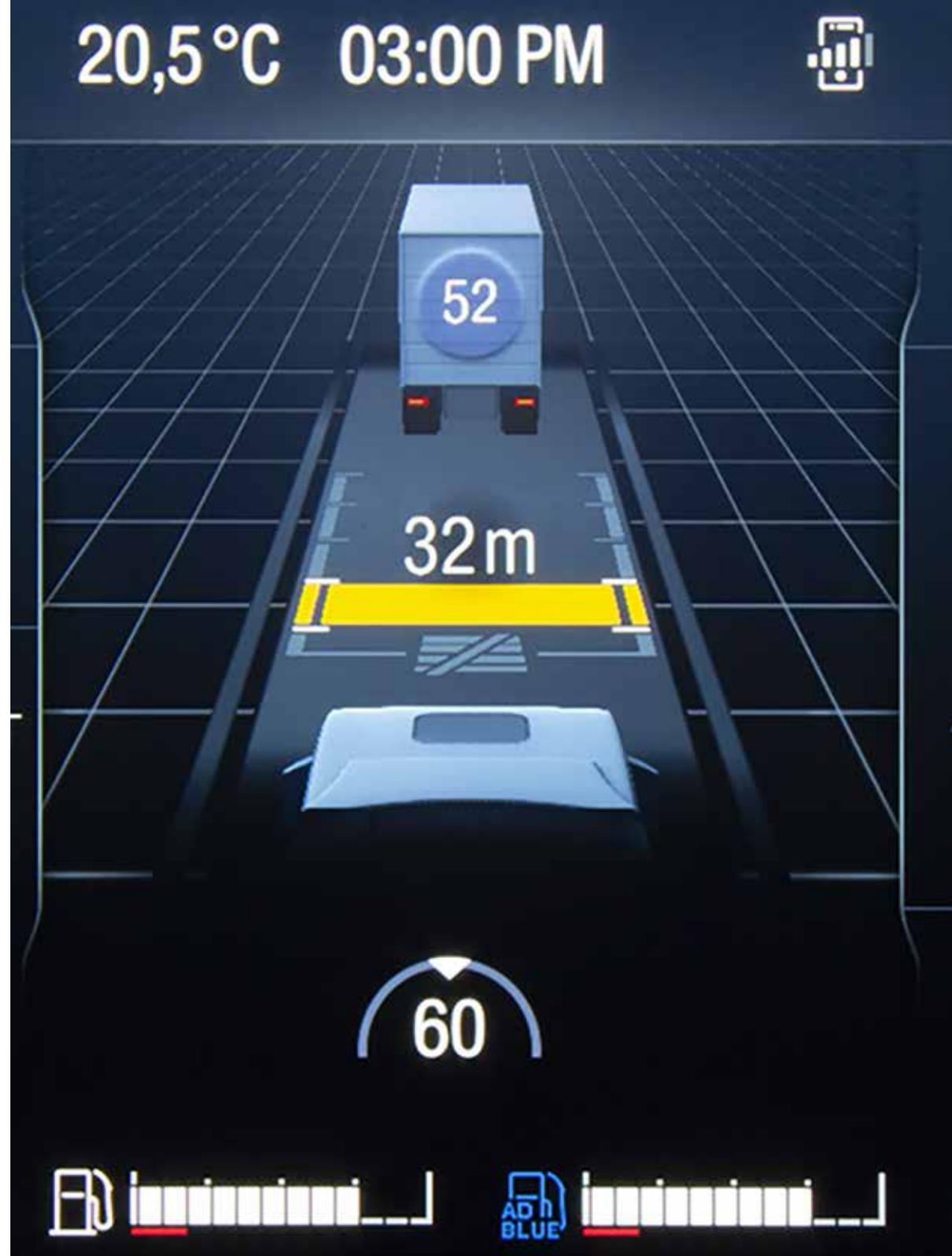
The ACC with Stop&Go feature automatically controls speed and the distance from the vehicle in front. The desired speed is maintained without the driver having to operate the accelerator. The truck automatically brakes until it comes to a standstill and moves away again after short stops.

### Distance warning system

The distance warning system helps to maintain the required, generous safety distance to the next vehicle. After an acoustic or visual warning, the driver can correct the distance so that more reaction time remains for unforeseen situations.

### MAN AttentionGuard

MAN AttentionGuard is an attention assistant based on the principle of lane monitoring. Within the limits of the system, starting at a speed of approx. 60 km/h it detects reduced driver alertness in good time. A visual as well as acoustic warning supports the driver in refocusing their concentration on the road – thus we help reduce a possible accident due to lane departure. Compared with the previous version, the enhanced MAN AttentionGuard continuously evaluates the driver's directional accuracy, steering interventions and other parameters. The uniformly specified, scientifically recognised rating scale (Karolinska Sleepiness Scale, KSS) is used to calculate and estimate the driver fatigue level. The driver is warned when a specific stage on this rating scale has been reached.



# FURTHER ASSISTANCE SYSTEMS.

## **Traffic sign recognition system**

The traffic sign recognition system uses the new video camera on the windscreen to detect road signs on the route in front of the vehicle and displays the permitted maximum speed on the instrumentation display. This applies to both traffic signs that show a specific speed limit, as well as town boundary or motorway signs. If the permitted maximum speed is exceeded, the system warns the driver visually and, if necessary, also acoustically.

For vehicles with navigation system, the system combines the optically recorded data with stored navigation data. This means that the system can also react accordingly to current changes in signs – which are not shown in the existing navigation data. Other country-specific and vehicle-specific restrictions such as no-overtaking or no-entry restrictions can also be shown on the display.

## **Tyre pressure monitoring system**

The tyre pressure monitoring system (TPM) with display of tyre temperature uses sensors to determine and monitor the air pressure and temperature in the vehicle tyres – including the spare wheel (here only air pressure). If the air pressure is too low/too high in comparison to the nominal pressure or the tyre temperature is too high, the driver is warned by means of a display in the instrumentation. As standard available for the entire range up to and including 4-axle vehicles. The function autolearn/autolocate automatically learns the sensors and their position so that the wheels no longer have to be fitted in the same position; there is no need for a workshop visit to re-initialise the sensors with the correct position.

## **Driver's airbag\***

The airbag integrated into the steering wheel and the seat belt tensioner incorporated into the belt lock on the driver's side are activated in the event of a collision via a joint trigger: if a critical deceleration of the truck is detected, the activators for the airbag and belt tensioner launch in parallel.

## **High-beam assist**

Depending on the driving situation, high-beam assist optimises use of the main beam. It prevents the drivers of oncoming vehicles or vehicles in front from being dazzled by automatically dipping the headlights.

## **Side camera system (SCS)\*\***

The side camera system is an integrated camera system for assisting in turn-off procedures. It makes it easier for the driver to observe those areas next to the vehicle that are difficult to see (co-driver's side). The video feed is transmitted to an optional additional monitor (only for vehicles with conventional mirrors) on the co-driver A-pillar or to the media display.

### Video Turn Assist (VTA)\*\*

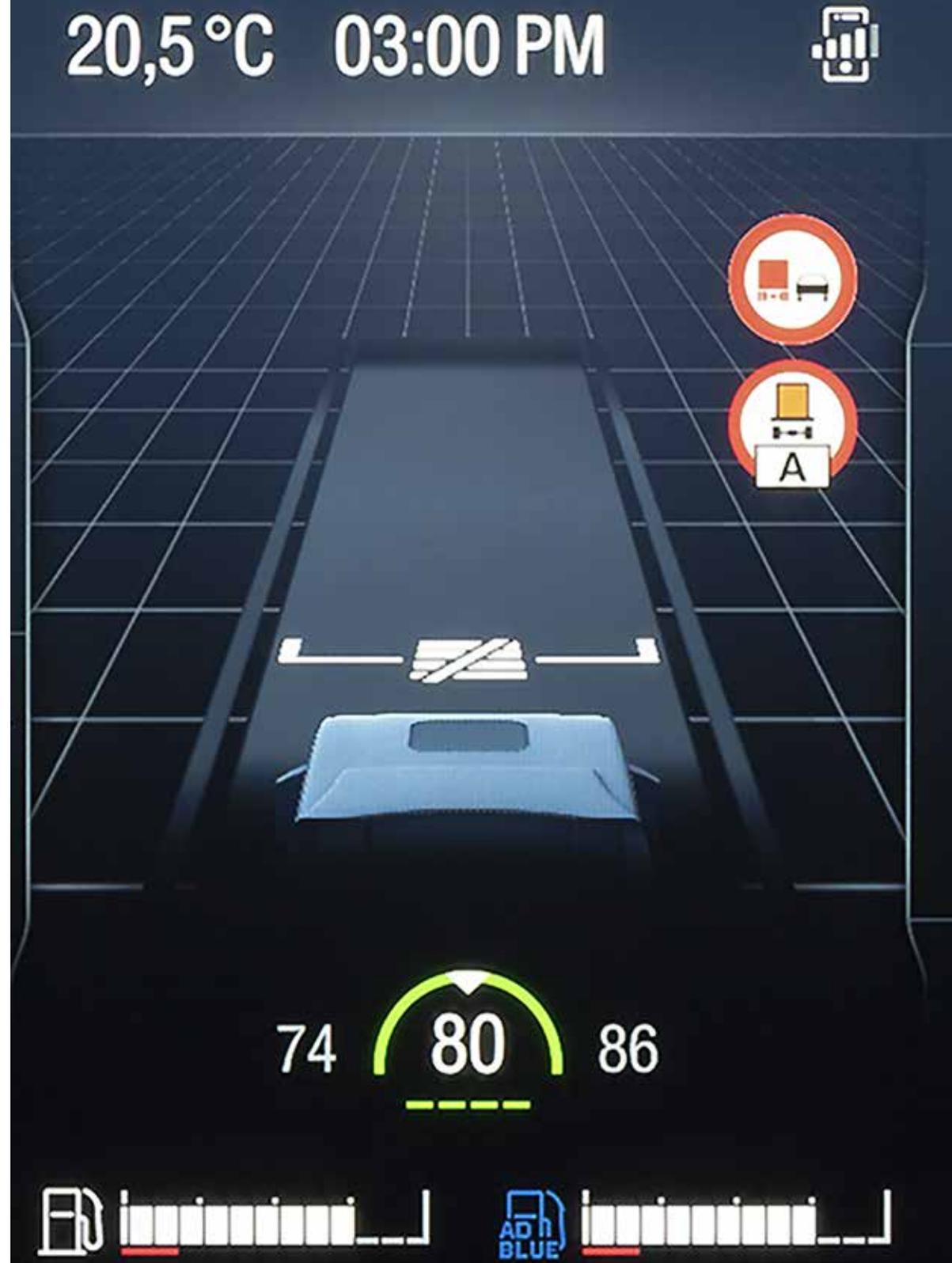
Video Turn Assist expands object recognition by comparison with the side camera system (SCS): Objects are detected in an area of 2.5 m x 6 m to the right of the vehicle and the monitor display is supplemented by a warning to the driver in the form of an acoustic signal from the loudspeaker built into the vehicle. The video feed is transmitted to an additional monitor (only for vehicles with conventional mirrors) on the co-driver A-pillar. In addition, an optical display lights up and an acoustic signal is emitted.

### 360° view assistant BirdView\*\*

The camera system for a 360° live view 'from above' seamlessly displays an area of up to four metres around vehicles with fixed bodies (e.g. fire-fighting, beverage or waste-disposal vehicles). Stitch-and-blend technology combines four camera views (front, rear, left and right, in full-HD quality) to a single image from the bird's-eye perspective. A special feature of the system is – depending on the driving situation – self-adjusting image sections at manoeuvring speed ( $\leq 40$  km/h), when the turn indicator is set (lane change) and when reversing.

\* For MAN TGX and TGS

\*\*MAN Individual package



# SAFETY FIRST, EVERY TIME.

MAN has the right cab for every need – and maximum safety, comfort and ergonomics travel with you wherever you go. Our cabs are designed for fatigue-free, focussed driving, relaxing breaks and maximum passenger protection. All of the cabs offer optimum safety thanks to a range of features, including the mirror system comprising main and wide-angle mirror, large kerb mirror and front mirror. Or the innovative MAN OptiView digital mirror-replacement system which provides the driver with the optimal overview of the traffic situation. A heated wind-screen ensures an unobstructed view even at the coldest times of the year.

## **Aerodynamically optimised sun visor for MAN GX and GM cabs**

The design sun visor in dark grey adds a touch of class to the front of the GX and GM cabs. It prevents the driver from being dazzled when the sun is at a steep angle. The design has been optimised for aerodynamics, resulting in better airflow around the A-pillar at the roof and preventing separation of the air stream which is unfavourable for fuel consumption. This improvement of the drag coefficient (cd value) reduces fuel consumption.

## **MAN OptiView.**

With the innovative MAN OptiView digital mirror-replacement system, enhanced safety takes to the road. This is not only because MAN does away with mirror arms and depicts the statutorily required fields of vision, but also because in critical driving situations such as manoeuvring, turning off and changing lanes, the extended views provide the driver with the optimal overview of the traffic situation.

MAN OptiView does far more than conventional mirror systems. Besides the statutorily required fields of vision, the digital mirror-replacement system also shows views specifically adapted for various driving situations (e.g. turning off, manoeuvring, driving on motorways). The functional principle and display concept of MAN OptiView are thus optimally matched to natural human perception, enabling the driver to visually grasp the vehicle surroundings and traffic activity quickly, evaluate them reliably and deal with them safely.



Cab	W x L (mm)	Sleeping facilities	Available for	Segment	Benefits at a glance
<b>Cab GX:</b> <b>The maximum one</b> (wide, long, extra height)	2,440 x 2,280	2	TGX	Long-haul transport	<ul style="list-style-type: none"> <li>■ One of the most capacious in Europe</li> <li>■ Even more standing height: 2,100 mm</li> <li>■ 2 comfortable beds</li> </ul>
<b>Cab GM:</b> <b>The generous one</b> (wide, long, medium height)	2,440 x 2,280	2	TGX	Long-haul transport	<ul style="list-style-type: none"> <li>■ Full standing height</li> <li>■ Spacious interior</li> <li>■ 2nd bed possible</li> </ul>
<b>Cab GN:</b> <b>The roomy one</b> (wide, long, standard height)	2,440 x 2,280	1	TGX	Special uses in local transport (e.g. building materials, wood)	<ul style="list-style-type: none"> <li>■ Compact size</li> <li>■ Convenient through access</li> <li>■ Comfortable bed as standard</li> </ul>
<b>Cab TM:</b> <b>The comfy one</b> (narrow, long, medium height)	2,240 x 2,280	2	TGS, TGM, TGL	Heavy-load special uses in national long-haul transport	<ul style="list-style-type: none"> <li>■ 2 sleeping spaces</li> <li>■ Capacious exterior storage compartment</li> <li>■ Expanded standing space in through access</li> </ul>
<b>Cab TN:</b> <b>The flexible one</b> (narrow, long, standard height)	2,240 x 2,280	1	TGS, TGM, TGL	Local and distribution transport, off-road transport, municipal services	<ul style="list-style-type: none"> <li>■ 1 sleeping space</li> <li>■ Capacious exterior storage compartment</li> <li>■ Expanded standing space in through access</li> </ul>
<b>Cab NN:</b> <b>The practical one</b> (narrow, medium length, standard height)	2,240 x 1,880	–	TGS	Local and distribution transport, off-road transport, municipal services	<ul style="list-style-type: none"> <li>■ Space behind seats for work clothes, etc.</li> </ul>
<b>Cab CC:</b> <b>The compact one</b> (narrow, short, standard height)	2,240 x 1,620	–	TGM, TGL	Local and distribution transport, off-road transport, municipal services	<ul style="list-style-type: none"> <li>■ Comfortable height</li> <li>■ 3rd seat possible</li> <li>■ Additional storage spaces in midsection</li> </ul>
<b>Cab DN:</b> <b>The crew cab</b>	2,240 x 2,790	–	TGM, TGL	Construction transport, municipal services	<ul style="list-style-type: none"> <li>■ 6 (optionally 7) seats</li> <li>■ Comfortable height</li> </ul>



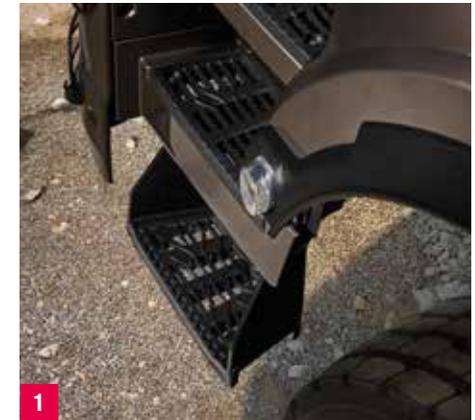
# ERGONOMICS START WITH THE VERY FIRST STEP.

The ergonomic entry design of the MAN Trucks ensures a pleasant start to the day. As the entrance is positioned in the middle of the door area, the driver can get into the vehicle in an upright position. The access ladder is designed as a stair so you have all steps in view. On entering the vehicle, the design ensures extra comfort, and it offers better safety, too. Thanks to entry lighting, the steps and surroundings are visible at any time of day and in any weather conditions as soon as you open the door. For all this, we didn't forget the little things either: an entrance optimised especially for off-road work and that features steps with a non-slip surface and a lattice structure, washable interior door panelling and a compressed air supply. This way sand, mud and gravel can quickly be shown back out the door. In addition to ensuring your truck makes a positive impression visually, breaks feel all that much better, too.

That said, we developed the MAN EasyControl system specifically to help you avoid getting in and out when you don't have to. Within the driver-side door there are four controls that can be easily accessed from outside the vehicle. Depending on your configuration, they come preprogrammed with the key functions or can even be implemented according to individual needs.

Once in the cab, you have a variety of driver's seats to choose from, each ready to welcome your particular build. There is a larger range of backrest adjustment options for drivers of all sizes. The passenger seat as well features highly ergonomic design and its own range of individual adjustment possibilities. The Vario seat is especially space-saving: when it's not needed, thanks to its Cinema function, it can simply be folded away. With the TGX, the whole seat can even be rotated 90° to enjoy maximum legroom during breaks.

Even the steering wheel has been given greater flexibility: for the resting position, the steering wheel can be tilted forward to a horizontal position by the driver, and in action as well, it can be given as steep an angle as that of an average passenger car. The result is a workplace that bends over not only backwards, but forwards and sideways as well, to suit. So the driver doesn't have to.



- 1 The lowest step, which is prone to damage when driving off-road, is now movable. Its mounting brackets are made from flexible plastic, meaning that they can change shape if they come into contact with the ground and return to their original shape again afterwards.
- 2 With its significantly extended adjustment range, the steering wheel offers drivers of different heights and statures an individual steering position suited to their physical characteristics.



# WITH MAN YOU CAN TAKE A LOAD OFF.

Everything has to come to rest at some point. A good atmosphere. A cosy environment. In the sleeping area of the MAN trucks that's exactly what you'll find. In the extended cab models, a multizone cold-foam mattress and a slatted frame ensure comfort for well-deserved shut-eye and peaceful dreams. Personal items have their spot too in the many, customisable stowage compartments.

The bed is so comfy, you might want to stay just where you are. And you can, too, since all important functions can be operated and monitored right from the remote control. Lights, locks, heating, windows – all a simple push of a button away. Just like the radio, music, the perimeter camera and important data on the battery's current status or driving times. The infotainment system can also be conveniently operated via the MAN Driver app. Breaks and sleeping times can therefore be used optimally so that you're well rested and ready to take on upcoming challenges.

In our cabs an auxiliary water heater provides pleasant temperature and air condition. For the MAN GX, GM, GN, TM and TN cabs for the TGS electrical auxiliary air-conditioning system (as an option) is ready for use. The electric air conditioner works without a cold reservoir, which would have to be charged during vehicle operation, and is thus ready for use at any time. Even in summer it can keep things refreshingly cool for up to 11 hours.

While the truck is on the road, MAN Climatronic maintains the chosen temperature fully automatically. Comfortable temperature zones in the cab are assured as well, as the foot area and the head area are controlled separately. Perfect for keeping your head cool but your toes toasty. Noise and lights are kindly asked to stay away, however. To create the perfect feel-good environment, the entire interior can be tailored to suit you down to the ground. From the colour scheme (Desert Beige or Moon Grey) to the storage space in the cab and even the interior lighting, everything can be customised to your needs – while maintaining a clear focus on the functionality which will never let you down.

## Lion emblem on partial leather seats and curtains

With the expressive lion emblem on the partial leather seats and the practical curtains, stays in the cab are even more pleasant. The curtain fabric is hard-wearing and is in the same colour for both interior colour schemes. The cross-cab curtain is designed as a single piece. The bunk area can now be made even darker.



- 1 Perfect for independent types: on-board coolbox/fridge
- 2 Lion emblem and curtains

# TOP-CLASS DRIVER'S CAB.

The traffic situation is becoming ever more demanding and complex. And when off-road, you're always facing new challenges that call for a driver's full concentration. It is all the more important to us then to make the cockpit as driver-friendly and organised as possible. Displays and controls are separated from one another spatially. Reading distances and reachability are thus ergonomically optimised: data is set at a farther distance, making it easier to grasp, functions are colour-coded, and buttons and switches are within easy reach. The focus is clearly set on the most important areas. The driver's view can easily go between the road and the instruments, without fear of distraction. Just another MAN contribution to making drivers' lives less complicated and less tiring.

All of the displays and controls throughout the vehicle follow a single concept. Symbols, colours, usage, alert and warning sounds as well as design are consistent throughout the cockpit. The quick-selection keys are individually programmable and accelerate workflows. Not to mention notices can be played in any of 30 different languages.

For voice command operation, a choice of six languages is offered. All of it intuitive to use. After all, the controls – and especially the cutting-edge digital components – were developed by drivers for drivers. This way the driver can see to the truly important things: the cargo and the transport, whatever the terrain.

## **DNR selection for MAN TipMatic® on stalk switch**

Operation of the gearbox using the right control stalk is a completely new development. Both driving mode and driving program are selected by means of the stalk switch. Controls located in easy reach near the steering wheel and electric parking brake make for certainty in operation.

The parking brake can optionally be engaged by means of an electric switch, which is located on the right-hand side of the instrument panel next to the main display. Under certain circumstances, both actuation (engagement) of the parking brake when parking the vehicle as well as its release when moving off can be carried out automatically.



# DRIVING SMART.

With navigation, radio (from standard to digital), video, telephone and more tailored to trucks, the infotainment system of the MAN Trucks is a communication and multimedia hub. It is available in five different variants, from entry-level to Navigation Professional. The 7-inch or 12.3-inch display – both with brilliant HD resolution – makes for great viewing. Direct access buttons and a USB-C input connection are part of the standard fittings, and from Advanced level on up to two smartphones can be paired. The media system Medium 7" is an entry-level media system version for vehicles that are subject to the new statutory provisions on equipment with a Reversing Motion System.

The infotainment system can be operated either via a classic control system with buttons or via MAN Smart-Select (can be combined from version Advanced 7-inch). Throughout, familiar usage meets innovative comfort. The result is one you can see and feel, too, as high-quality surfaces make every journey with an MAN Truck tangibly special.

## Reversing Motion System

Overview to the rear when manoeuvring – ex-works! When reversing a solo vehicle, the camera image of the camera installed ex-works in the rear area supports the driver. People or objects behind the vehicle can be detected, trailers or semitrailers are in full view when connecting or hitching up.

The image from the camera is automatically shown on the MAN media system display when reverse gear is engaged and the vehicle rolls backwards. A button on the instrument panel with a camera symbol enables manual activation of the system.



- 1 Infotainment system with 12-inch display and MAN SmartSelect
- 2 Right: Camera image of the Reversing Motion System when hitching up  
Left: Camera image of the front camera with MAN OptiView

# IMPROVED AERODYNAMICS.

The better the headwind flows around a vehicle, the less fuel is required for driving. With the TGX, in line with the design of the MAN Trucks, gap widths between the cab and semitrailer are therefore reduced and the formation of turbulence is suppressed for optimum aerodynamics. The reversible extensions on the side flaps and roof spoiler reduce the free space between the cab and the semitrailer. This achieves a particularly effective aerodynamic airflow around the entire vehicle – even in cross winds. The door gap closing element is a highly flexible plastic element attached to the door extensions, which closes the vertical gap between the front edge of the door extension and the bumper. This further optimises the aerodynamic flow around this area.

The aerodynamically optimised A-pillar cladding for TGX and TGS has a specially shaped attachment made of flexible plastic, which improves airflow around the A-pillar and thus – due to lower eddies – reduces drag. Vehicles with the MAN OptiView mirror replacement system benefit to a greater extent from the new aerodynamically optimised A-pillar cladding and the calm airflow in this area.



# POWER THAT GOES THE DISTANCE.

If you want to get to the top, you need drive and efficiently deployed strength. For the MAN trucks, we have a full four on offer: the MAN D38, our engine for heavy-duty tasks for the MAN TGX, the MAN D26, the D15 and the D08. Each one is a high performer and brings efficiency and trusted MAN reliability to make your new truck a strong and cost-transparent member of your business for a long time to come. With every stage of development, a high level of engineering skill reduces fuel consumption and increases performance. Recent example: the MAN D26 in Euro VIe. Brings 10 hp and 50 Nm more to the road and still consumes up to 3% less fuel.

So that you can get the most out of our high-performance engines at all times, we have a variety of digital tools ready and waiting. The digital service Perform assists drivers in optimising the economy of their driving styles. Perform evaluates all the relevant vehicle data with respect to the economic efficiency of the driving style. The service provides important vehicle data about utilisation of cruise control or the service brake, for example.

Efficiency is always what comes first when it comes to MAN engines. You can count on it. Finally, there was only one component left for us to improve: the driver. And we took that on, too: first via efficiency data displays and assistance systems like the GPS-based speed control system MAN EfficientCruise® with PredictiveDrive. The new function of the MAN EfficientCruise® GPS cruise control no longer drives blindly and stubbornly uphill, but weighs up possible speed and gearshift strategies against each other like a strategist and ultimately selects the one with the most economical fuel consumption. Then we added tailored driver training using the data from your specific MAN truck, continuously digitally recorded and ready for evaluation. Together it's the ideal basis for the perfect interplay of human and MAN.

## New generation of hypoid axles\*

The new generation of hypoid axles enables a driveline configuration that is optimally matched to the respective application: Lighter and more efficient. As single axle or tandem-axle assembly.

## Engines Euro VI

	Type	Capacity	Rated output	Max. torque
D0834	R4	4.6 l	118 kW (160 hp)	600 Nm
	R4	4.6 l	140 kW (190 hp)	750 Nm
	R4	4.6 l	162 kW (220 hp)	850 Nm
D0836	R6	6.9 l	184 kW (250 hp)	1 050 Nm
	R6	6.9 l	213 kW (290 hp)	1 150 Nm
	R6	6.9 l	235 kW (320 hp)	1 250 Nm
D1556	R6	9.0 l	243 kW (330 hp)	1 600 Nm
	R6	9.0 l	265 kW (360 hp)	1 700 Nm
	R6	9.0 l	294 kW (400 hp)	1 800 Nm
D2676	R6	12.4 l	324 kW (440 hp)	2 250 Nm
	R6	12.4 l	353 kW (480 hp)	2 450 Nm
	R6	12.4 l	382 kW (520 hp)	2 650 Nm
D3876	R6	15.2 l	397 kW (540 hp)	2 700 Nm
	R6	15.2 l	427 kW (580 hp)	2 900 Nm
	R6	15.2 l	471 kW (640 hp)	3 000 Nm

\*Available for MAN TGX und TGS. Also for MAN TGM vehicles with 13 t rear axle.

# THE MAN DRIVETRAIN.

## **MAN HydroDrive® - more traction at the touch of a button**

You never know what to expect on the job, so it's best to be prepared for anything – like slippery terrain, mud and gravel. MAN was the first manufacturer of utility vehicles to launch the engageable hydrostatic front-wheel drive HydroDrive onto the market and has extensive experience with this system. The MAN HydroDrive® easily copes with any situation where traction is crucial – even scenarios where a truck with rear-wheel drive only would have to give up and go home. The system is available with the semi-automatic MAN TipMatic® transmission or with a manual transmission, so the choice is always yours. MAN also makes downhill gradients safer by transferring the engine braking torque to the front axle (known as “support”). What is more, the combination of MAN HydroDrive® with a PriTarder extends the life of the service brake. This enhances safety and improves directional stability on unpaved surfaces, even when travelling downhill – the perfect solution for your driving jobs. You only need to press a button to access considerably better traction. This allows your MAN to tackle a much wider range of jobs. In addition to using less fuel than a conventional all-wheel drive, it reduces the weight by as much as 400 kg. Even if you do almost all of your driving on the road, shifting logic and braking action boost mobility and safety, especially for unladen trips on slippery surfaces.

## **All-wheel drive for everyone**

Wherever maximum traction is needed, that's where MAN vehicles with permanent or selectable all-wheel drive go into action. They're available as 4x4, 6x6, 8x6 and 8x8 versions. The power is distributed by two-speed MAN transfer cases with on-road and off-road ratios. Planetary axles with greater ground clearance, differential locks, drum brakes and stabilisers are also fitted in the all-wheel drive vehicles. ESP and assistance systems are also possible with permanent all-wheel drive. A feature on the MAN TGM is the optional electronic transfer case and lock management. This helps the driver to operate the vehicle on- and off-road as the conditions in terms of traction require and takes some of the load off the power train. In the MAN TGX and MAN TGS too the engaging and disengaging of differential locks is electronically monitored.

## **Continuous braking**

EVBec®: As a further development of the MAN EVB engine brake (Exhaust Valve Brake), the EVBec® has many advantages, e.g. an improved braking effect by controlling the exhaust gas back pressure, significantly increased brake output especially in the lower engine speed range, overheating protection during long braking operations and constant brake output whether the engine speed is rising or falling. Three brake output stages are available.

The retarder is a hydrodynamic continuous brake integrated into the gearbox housing. Its brake output depends on the driving speed, with the best performance achieved in the medium to high speed range. The brake output level does not depend on gearshifts or clutch operation. This increases driving safety during long descents by relieving the load on the service brake system.

With the innovative MAN PriTarder®, the MAN TGS comes with a highly efficient primary brake system that is one of a kind. The TurboEVBec® engine brake with PriTarder in the MAN D26 engine produces an enormous brake output of up to 625 kW even at a moderate engine speed, enabling safe and wear-free downhill driving.

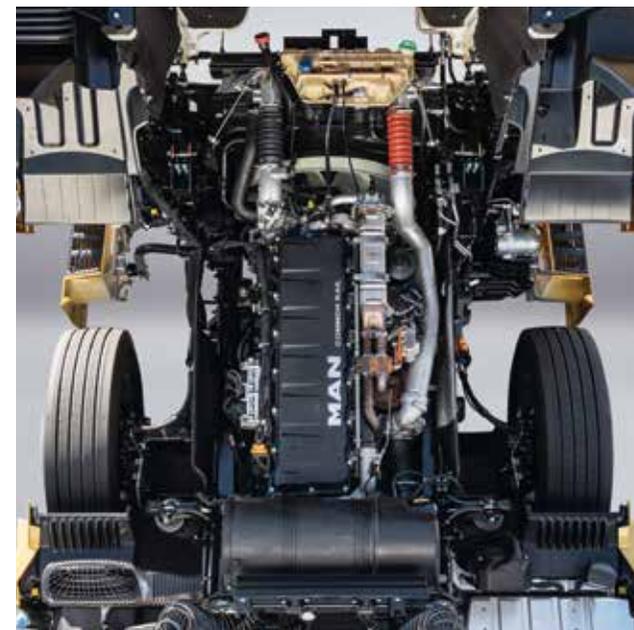
The MAN TurboEVBec® high-performance engine brake in Connection on the MAN D15 engine enables a stepless wise regulation of the engine braking power up to maximum 350 kW (in conjunction with the power level 400 hp, otherwise max. 330 kW). The MAN PriTarder® really demonstrates its strengths in distribution or traction: the completely maintenance-free system increases the payload by up to 64 kg while doubling the lining life of the service brake. The MAN PriTarder® is integrated into the MAN BrakeMatic® electronic continuous brake management and is easy to operate via the stalk switch.

### **MAN TipMatic®**

MAN has taken efficiency to the next level with the MAN TipMatic®. This system enables the vehicle to automatically recognise the load and incline conditions and optimise the gear-changing strategy to match. Whether the truck is unladen or fully loaded, MAN TipMatic® automatically selects the ideal gear for pulling away. Moreover, the wide gear spread and software which recognises inclines guarantee outstanding performance when moving off. “SmartShifting” is a further evolution of the well-known “SpeedShifting” and minimises traction interruptions when changing gear while travelling uphill, for instance.

“Idle Speed Driving” enables comfortable moving off and driving at idling speed. This feature allows the driver to manoeuvre the truck with precision and sensitivity or “just go with the flow” in slow-moving traffic on the motorway. And should the truck get stuck in snow or in wet, loose ground, the rocking-free function makes it easier to drive off, especially due to the ability of the clutch to rapidly open and closing. In addition, MAN TipMatic® also contains pre-programmed driving settings for various driving situations, such as the fuel-saving Efficiency program, Manoeuvre mode, programs for heavy loads and Performance mode for a more agile driving style. This ensures that your truck will always perform to the max, anytime, anywhere.

MAN TipMatic® with Idle Speed Driving, Speed Shifting<sup>1)</sup> and EfficientRoll<sup>1)</sup> functions is also available for MAN TGL and TGM. These moving-off and gearshift strategies improve driving comfort and reduce fuel consumption.



1) Speed Shifting and EfficientRoll only available with 12-speed version



# THE MAN TGX AND TGS KNOW EVERY HILL – AND THE BEST GEAR TO MATCH.

## Complex chess game on uphill gradients

The new PredictiveDrive function of the MAN EfficientCruise® GPS cruise control no longer drives blindly and stubbornly uphill, but weighs up possible speed and gearshift strategies against each other like a strategist and ultimately selects the one with the most economical fuel consumption.

By taking into account the selected navigation route, or without navigation the most likely, the cruise control function MAN EfficientCruise® calculates the route with its uphill and downhill gradients up to three kilometres ahead with the aid of three-dimensional map data. The new PredictiveDrive supplements the effect of MAN EfficientCruise®, especially on uphill and downhill gradients. The PredictiveDrive system continuously analyses potential driving and gearshift strategies in these route sections and selects the most efficient one depending on the situation. This makes it possible to prevent unnecessary traction interruptions due to gear hunting and frequent gearshifts. Depending on the topographical conditions, the available torque is enabled or reduced as part of the dynamic torque adjustment. In addition, the characteristics of the selected driving program are also taken into account.

What is new is that a reduced form of dynamic torque adjustment is also used in the Efficiency driving program – with a correspondingly positive effect on the fuel consumption of the entire fleet. Previously, the positive effect of dynamic torque adjustment was reserved for the Efficiency Plus driving program. The aim of the PredictiveDrive function is generally to make the best possible use of the predicted topographical changes on the route in order to be as fuel-efficient as possible by actively varying the speed, gear and available engine torque. With the goal of implementing this at almost average speed neutrality.

For example, it may be advantageous:

- to drive into an uphill gradient with momentum and shift down early,
- to use the full engine torque when on the gradient,
- and to reduce the engine torque again at the end of the incline.

MAN EfficientCruise® and PredictiveDrive are already active from low speeds (approx. 30 km/h). The system works both when driving freely and in cruise control mode. The anticipatory system reactions on uphill gradients ensure significantly better drivability and thus also increase driver acceptance of the dynamic torque adjustment.

Within a tolerance range, adaptation of the vehicle speed to the topography can be higher or lower than the desired speed set by the driver. This maximum deviation from the desired speed can be set in four ECO levels. In this way, the driver is easily able to adjust the potential fuel saving to the road surface, visibility and traffic conditions.

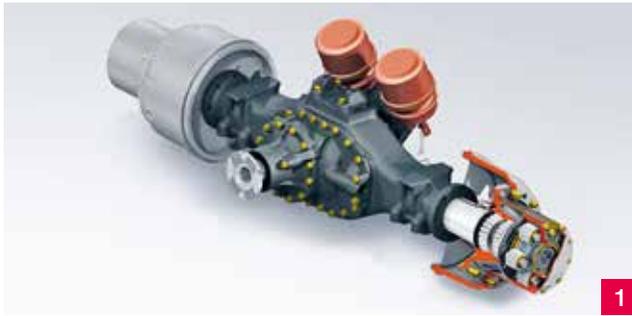
# THE RUNNING GEAR.

## Axle and suspension systems

Whether planetary or hypoid axle – both axle systems are available with various transmissions and parabolic or air suspension. The planetary axle is also available with trapezoidal suspension. Parabolic suspension makes driving the loaded or the empty vehicle very comfortable and is beaten into second place only by air suspension. The available weight-optimised hypoid axle results in a weight saving of 180 kg compared to the normal hypoid axle and 280 kg for the planetary axle. The ground clearance is similar to a planetary axle. Vehicles with leaf springs are available with simple tandem hypoid axles in normal and medium-high design height. Vehicles with air suspension are available in normal design.

## Construction air suspension

One of MAN's specialities is construction air suspension on the rear planetary axles – available for construction vehicles of medium height and all-wheel drive height. With lifting and lowering equipment fitted as standard, it has a load-carrying capacity of up to 13 t per rear axle. This is ideal for the tough work on building sites (overload reserve) and on difficult terrain. Advantages: a smooth ride in any load condition, thanks to the electronic levelling system VASC easier on the vehicle, the body, the load and the road. For use with road finishers there are internal stabilisers.



- 1 Planetary axle
- 2 Hypoid axle
- 3 Light tandem hypoid axle
- 4 Construction air suspension

### **Vehicle heights**

MAN delivers vehicles in normal, medium and all-wheel drive heights, corresponding to increased requirements in terms of ground clearance and angle of approach.

### **Steel bumper**

The strikingly designed three-part steel bumper gives the front of the vehicle muscular and rugged appearance. The headlights with their two-part protective guards fit harmoniously into the overall look. Suited to the tough conditions experienced in the traction segment, the steel bumper is very rugged and has a correspondingly extremely long service life.

### **MAN EasyStart**

Problems with hill starts are a thing of the past thanks to MAN EasyStart. The MAN EasyStart hill-holding brake automatically holds the vehicle using the service brake until the engine torque reaches the level to move off. The system is now enabled by default and is therefore always available.

### **10-tonne front axle<sup>1</sup>**

Depending on country-specific requirements, particularly powerful body concepts that require a bearing load of 10 tonnes on the front axle can be implemented.

### **Second rear axle relievable (moving-off aid with speed limitation)**

The pressure levels of two driven rear axles can be set by means of a button so that the rearmost drive axle is relieved. This primarily improves steerability and reduces

wear. The interaxle differential lock of the rear drive axles must be activated beforehand so that the drive torque remains on the loaded axle and is not transferred to the 2nd relieved axle. Axle load relief remains active up to a speed of approx. 30 km/h or until the button is pressed again.

### **Steering brake**

Take the sharpest bends. With the steering brake function activated, the rear wheels on the inside of the bend are braked depending on how far the steering wheel is turned. This considerably decreases the turning circle. The steering brake, which is available for the 6x4 and 8x4 vehicles with tandem axles, is activated by pressing a button and functions at speeds of up to 30 km/h.

### **Hill-climbing brake**

The hill-climbing brake for MAN all-wheel vehicles acts pneumatically on all wheels, holding the truck reliably when stopping and moving off, and is controlled by the driver on hills. As opposed to systems that use spring reservoirs to brake only the rear axle, a MAN all-wheel truck equipped with the hill-climbing brake can't slip.

### **Tyres with various profiles ex works**

You receive your vehicle from the works fitted with tyres in the profile of your choice. You can also select your brand of tyre from various well-known manufacturers.

### **Modifications to cab and chassis**

Special axle configurations and modifications to the driver's cab can be individually retrofitted for specific customers or branches.

### **MAN ComfortSteering<sup>2</sup>**

MAN ComfortSteering helps the driver to steer and forms the basis of other assistance systems such as Lane Return Assist (LRA). Because the steering forces are adapted to the road speed, the strain is taken off the driver and there is ease of movement when manoeuvring and ability to stay in a lane at high speed.

### **Variable axle load ratio**

With variable axle load ratio, the drive axle always has optimal traction, regardless of loading height. The drive axle is fully loaded until it reaches the prescribed axle load. Afterwards, the additional load is absorbed by the auxiliary axle – without lowering the drive axle load. The axle load is therefore not fixed but rather distributed variably between the rear axles, so that the drive axle has sufficient traction in any loading condition and the legally prescribed minimum axle load is not fallen short of in any loading condition. The system does not have to be switched on separately; it is always active.

1) Availability depending on the wheel configuration

2) Availability depending on the vehicle type

# CUSTOMER-ORIENTED.

**A variety of transport tasks arise in agricultural business and for contracted hauliers. Thanks to their high payload, low fuel consumption and typical high driving speed, MAN trucks are gaining ground in the transportation chain between farm, field and warehouse.**

Your needs always come first. Therefore, we support you with a wide range of solutions to make everyday work easier and safer.

## **New air suspension control**

The air sprung rear axle is now standard in long-haul transport. However, the possibilities and advantages of air suspension are also increasingly being used in many other application segments. The new air suspension control with its improved and extended range of functions takes this trend into account. The new electronically controlled air suspension VASC (Vehicle Air Suspension Control) allows the vehicle frame to be raised and lowered to suit different deployment scenarios. The control unit for the electronically controlled air suspension (VASC) is installed in a separate holder next to the driver's seat and allows the driver to adjust the height of the vehicle frame quickly and precisely – for example, to adjust the cargo space floor and the loading ramp to the same level. An extended control unit enables the VASC to be operated via the multifunction steering wheel and via a menu in the display of the instrumentation.

## **System improvements:**

- New functions, for example a 2nd rear axle relievable, a manual and automatic suppression of VASC (Vehicle Air Suspension Control) level control, and a selection option of 2nd lowered driving height for compensation of tyre rebound on empty runs.
- Shorter lifting and lowering times (up to 50%)
- Remote control with new ergonomic operating design
- Control via multifunction steering wheel and on-board menu
- Control of the air suspension of the trailer/semitrailer via remote control or multifunction steering wheel

## **New electronic brake system EBS**

The electronic brake system EBS combines the basic function of the electro-pneumatic brake with the extended functions of antilock braking system (ABS) and anti-slip control (ASR). With the aid of EBS, driving and braking procedures can be optimised in many different ways. It thus makes an important contribution to enhancing driving safety, driving comfort and cost-effectiveness. In the brake system of the MAN Truck Generation, the electronic brake system EBS has been further developed and its range of functions expanded with new functions. Active wheel speed sensors with their own power supply and evaluation electronics now replace the previous passive sensors. Active sensors enable extremely accurate and fast speed measurement from just 0.1 km/h. Off-road moving-off behaviour with tandem-axle units is improved with the use of sensors on the second axle.

Also new are halt brake braking function with preparation for reversing restriction and rollback detection, MAN EasyStart Offroad hill holder and the hill-climbing brake in conjunction with manual gearbox. It is now also possible to combine the systems in one vehicle.

## **Electronic anti-slip control (ASR)**

In future, the new electronic anti-slip control will be able to prevent the spinning of driven wheels on all vehicles – including on the driven front axles of vehicles with MAN HydroDrive®\*.

The anti-slip control (ASR) prevents the drive wheels from spinning when moving off or accelerating. This improves traction, particularly on slippery surfaces such as ice, snow, loose chippings or wet cobbles, and ensures stable driving. The further development of the electronic brake system EBS (use of active wheel speed sensors) means that for example vehicles with MAN HydroDrive® can also be combined with anti-slip control (ASR). This improves traction in this type of drive when a front wheel spins more on one side.

\*For MAN TGX and TGS.

### More input, more output, more results:

- Common-Rail-Diesel with 243 kW (330 hp) ups to 471 kW (640 hp), MAN D38 engine only for MAN TGX
- 16-speed manually operated gearbox, optional 12-speed gearbox with the latest-generation MAN TipMatic®, also available with off-road mode
- MAN HydroDrive® for more traction
- 3-part robust steel bumper with middle-positioned towing eye
- Prepared for engine start-stop system
- Normal, medium and all-wheel drive heights
- Digital axle-load display in the driver's cab for air-sprung axles
- VASC controlling (control of the air spring)
- PTO on flywheel side for clutch-independent operation of the hydraulic system
- Interface for external data exchange
- Locking management
- Ventilation grilles against dust turbulence
- MAN ComfortSteering for low steering forces
- Steering brake

### Steel bumper

The strikingly designed three-part steel bumper gives the front of the vehicle muscular and rugged appearance. The headlights with their two-part protective guards fit harmoniously into the overall look. Suited to the tough conditions experienced in the traction segment, the steel bumper is very rugged and has a correspondingly extremely long service life.



# MAXIMISING YIELDS, MINIMISING WEAR AND TEAR.

**Optimum support during repairs to harrows, tractors, etc. As an individually configurable service vehicle, the MAN TGE separates the wheat from the chaff.**

Farmers know this problem all too well – when it comes to the agricultural sector, damage to agricultural devices is an expensive risk and must be responded to quickly to prevent losses and to safeguard income.

This is why MAN offers sector-specific workshop and vehicle equipment for the TGE ex works for farmers and agricultural companies. The individually expandable shelf systems, workbenches and securing elements impress with their top level of quality and tailored standardisation.

The 4x4 all-wheel drive, which is provided ex works, ensures fast deployment on arable land, green areas and field tracks. Up to 3.5 t of trailer load can be moved thanks to different removable and changeable trailer couplings; allowing you to transport additional freight independent of the loading surface.



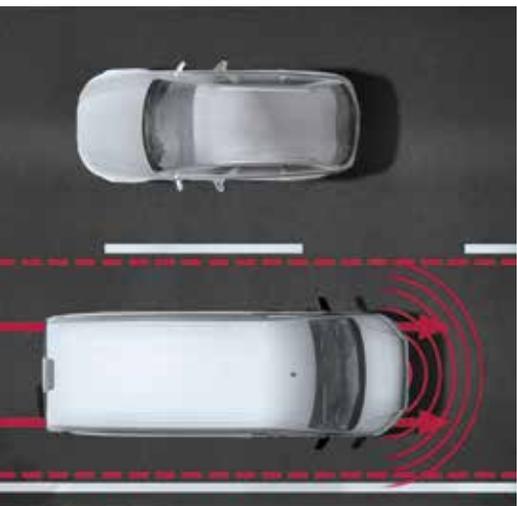


# THE SAFER THE BETTER.

You need a team you can rely on. That's why the MAN TGE doesn't come on its own, but with a variety of innovative safety systems that help you focus even more on your work within the respective system boundaries. At the same time, they help avoid damage to the vehicle and therefore costs for you.

## **P** **Park steering assist<sup>1)</sup>**

When activated, park steering assist takes over the steering of the vehicle during parking, slipping the MAN TGE smoothly and accurately into narrow spots. The driver continues to operate the accelerator and the brakes manually, remaining in full control of the vehicle. The system makes parking easier than ever in the MAN TGE and prevents damage from parking mistakes.



## **Emergency brake assist (EBA) as series-standard**

If the MAN TGE is approaching an obstacle and the driver doesn't react, the series-standard emergency braking system warns the driver and then activates the brakes in the event of an emergency. In combination with the automatic transmission, the system automatically brings the vehicle to a complete stop to prevent a collision<sup>2)</sup>.

## **Park out assist<sup>1)</sup>**

A part of lane change assist, park out assist helps the driver to back out of a parking place and brakes the MAN TGE automatically if there is a risk of collision with traffic coming from either side.

<sup>1</sup> Optional extra for an additional fee.

<sup>2</sup> Up to 30 km/h.

### Active lane assist<sup>1)</sup>

If the vehicle unintentionally strays from the lane, active lane assist automatically compensates and steers the vehicle back into the lane. The system automatically activates at speeds over 65 km/h and functions reliably even in poor weather conditions or with low visibility.

### Lateral protection assist<sup>1)</sup>

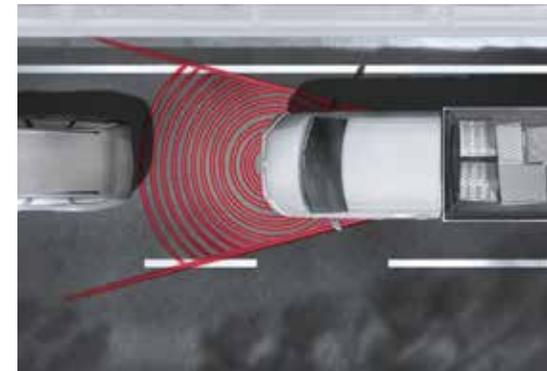
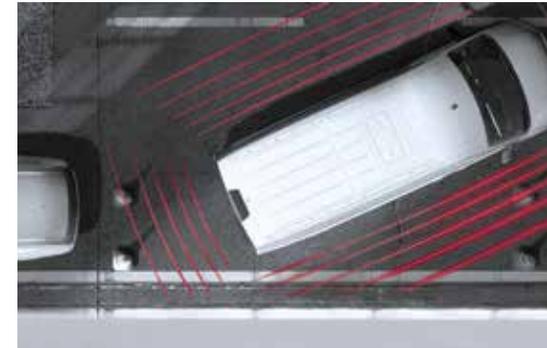
Sixteen ultrasonic sensors monitor the distance of objects on either side of the vehicle and in an emergency warn the driver of objects close to the MAN TGE. A convenient display provides a 360° view all around the vehicle from the driver's seat, indicating potential collision risks when changing lanes. An acoustic signal also warns the driver of collision risks.

### Trailer assist<sup>1)</sup>

Activated as needed: when reversing with a trailer, the MAN TGE automatically follows a previously set turning angle. The driver only operates the accelerator and the brakes, while the vehicle steers automatically.

### Adaptive cruise control (ACC)<sup>1)</sup>

Convenient and practical adaptive cruise control with a speed limiter that in combination with an automatic transmission can brake the vehicle down to a full stop.



# DRIVE TYPES AND ENGINES.

Specially developed for the tough demands of utility vehicle use, these engines combine a long service life with impressive power and low fuel consumption. No matter what transmission or drive type you choose, they deliver outstanding performance, efficiency and reliability under extreme driving conditions.

## **Diesel engines (Light Duty, Euro 6d)<sup>1</sup>:**

2.0 l (75 kW, 300 Nm), Turbo:  
Front-wheel drive

2.0 l (103 kW, 360 Nm), Turbo:  
Front- and all-wheel drive 4x4

2.0 l (130 kW, 410 Nm), BiTurbo:  
Front- and all-wheel drive 4x4

## **Diesel engines (Heavy Duty, Euro 6e)<sup>1</sup>:**

2.0 l (103 kW, 360 Nm), BiTurbo:  
Front<sup>1</sup>-, rear- and all-wheel drive 4x4<sup>1</sup>

2.0 l (120 kW, 410 Nm), BiTurbo:  
Front<sup>1</sup>-, rear- and all-wheel drive 4x4<sup>1</sup>

## **Elektric engine<sup>1</sup>:**

Elektric (100 kW, 290 Nm), synchronous engine:  
Front-wheel drive

Energy consumption: 29.1 kWh/100 km  
CO<sub>2</sub> emission: 0 g/km



<sup>1</sup> Not available in combination with twin tyres



# VEHICLE LINE-UP.

## MAN TGE panel van

	Standard	Long	Extra-long
	Length: ■ Total: 5,986 mm ■ Cargo space: 3,450 mm <sup>1</sup> Wheelbase: 3,640 mm	Length: ■ Total: 6,836 mm ■ Cargo space: 4,300 mm <sup>2</sup> Wheelbase: 4,490 mm	Length: ■ Total: 7,391 mm ■ Cargo space: 4,855 mm <sup>3</sup> Wheelbase: 4,490 mm
<b>Normal roof</b> Height: 2,355 mm Internal height: 1,726 mm			
<b>High roof</b> Height: 2,590 mm Internal height: 1,961 mm			
<b>Extra-high roof</b> Height: 2,798 mm Internal height: 2,189 mm			

Dimensions apply to models with front-wheel drive, except vehicles in the extra-long version.

<sup>1</sup> Length of vehicle floor incl. loading space under the partition wall. Load length in upper space: 3,201 mm.

<sup>2</sup> Length of vehicle floor incl. loading space under the partition wall. Load length in upper space: 4,051 mm.

<sup>3</sup> Length of vehicle floor incl. loading space under the partition wall. Load length in upper space: 4,606 mm.

<sup>4</sup> Also available as eTGE.

## MAN TGE chassis

	Standard	Long	Extra-long
	Length: 5,996 mm Wheelbase: 3,640 mm Max. body length: ■ Eika: 3,750 mm ■ Doka: 2,700 mm	Length: 6,846 mm Wheelbase: 4,490 mm Max. body length: ■ Eika: 5,550 mm ■ Doka: 4,300 mm	Length: 7,211 mm Wheelbase: 4,490 mm Max. body length: ■ Eika: 5,550 mm
<b>Chassis cab</b> Height: 2,305–2,327 mm			
<b>Crew cab</b> Height: 2,321–2,352 mm			

## MAN TGE chassis with a platform body

	Standard	Long	Extra-long
	Length: 6,204 mm Wheelbase: 3,640 mm Platform body length: ■ Eika: 3,500 mm ■ Doka: 2,700 mm	Length: 7,004 mm Wheelbase: 4,490 mm Platform body length: ■ Eika: 4,300 mm ■ Doka: 3,500 mm	Length: 7,404 mm Wheelbase: 4,490 mm Platform body length: ■ Eika: 4,700 mm
Chassis cab Height: 2,305–2,327 mm			
Crew cab Height: 2,321–2,352 mm			

# RELIABILITY IN DETAIL.

Our reliability rests on many components. The first is our continuously growing LED range for the lighting systems of the vehicle. Another is our dedication to the little things. For instance, when it comes to the electricity supply of the MAN Trucks we pride ourselves on laying not one wire more than your configuration needs. The wires themselves are now protected by even more flexible and elastic materials, and the number of joints has been cut. We also reduced the wire thickness overall, which in turn means less weight and more available load capacity.

The modular wiring concept offers additional advantages by allowing customer requests to be easily incorporated and enabling quick repairs thanks to prefab sets. Together, the result is shorter downtimes and a vehicle electrical system with higher performance overall.

## **24V battery management system**

Empty batteries and stranded vehicles due to excessive use of electrical devices during rest periods are a thing of the past with the new MAN battery management. The system ensures that the vehicle engine can be started by automatically switching off less important consumers.

## **Cyber security**

The networking of electronic systems and the associated data availability and use are both a curse and a blessing. On the one hand, this enables new helpful functions and applications – on the other hand, it offers potential targets for hackers. MAN consistently safeguards all vehicle systems against misuse.



# SUPPORT NON-STOP.

Only a truck that runs is a good truck. Unplanned downtime and the associated loss of time and earnings are something we'd all like to do away with for good. The MAN Truck Generation has got your back there too. Right from day one, it brings the ultimate quality synonymous with MAN to its work. So much so that it's hard to get it to stop. If you need us, however, we're ready and waiting. When you're at a standstill, we will get you back on track as quickly as possible. We will move heaven and earth to keep you mobile. In short, where there's a MAN employee, there's a way.

When it comes to financing, too, you can rely on MAN: MAN Financial Services supports your needs and makes sure you stay mobile. You can even cover bottlenecks and react flexibly to higher demand thanks to truck leasing from MAN Rental.

With our clever solutions, you can make your business noticeably easier and more transparent. We've got it covered, so that your head stays clear for the road in front.

## At a glance:

### ■ MAN Mobile24

Via the MAN Mobile24 mobility service, you can reach us round the clock europe-wide. The service has been expanded with additional solutions, so that our customers are always on the safe side for every kilometre. As well as the guarantee that the transport business can continue to run smoothly in the event of a breakdown.

### ■ Uptime guarantee

The MAN uptime guarantee keeps you moving. We are never far away in the event of a breakdown and, even if downtime or repairs are required, we will get you back on the road in no time.

### ■ Service contracts

We help you save time, money and stress. MAN takes care of everything as required, from servicing and invoice management to answering questions relating to guarantees and goodwill.

### ■ MAN Genuine Parts

With compliance with strict quality standards guaranteed, MAN Genuine Parts are the ideal match for your vehicle. It's the only way for your MAN vehicle to be driven safely, efficiently and with minimum wear.

### ■ Accessories and retro-fit solutions

Easily tailor your MAN to your needs with our high-quality accessories. Subsequently and simply. With products exactly matching your MAN model. And matching you.

For further offers and details please contact your local dealer or visit our website:

[mantruckandbus.com](http://mantruckandbus.com)





# SERVICE AS YOU LIKE IT – PERSONAL AND DIGITAL.

Could your company also benefit from the increasing digitalisation taking place in logistics? We are convinced it can. That's why we would like to give you a brief insight into how you can better master the **most pressing challenges of your industry with smart digital solutions.**

Above all, the high cost and time pressure make the working environment in the logistics industry particularly challenging. Every vehicle in your fleet must be operated as economically as possible. This requires economical driving behaviour as well as effective and repair management. With an internet-enabled truck with Over-the-Air Upgrades, an overview of all the key data about the vehicle and its performance appears directly on your desktop, and many other useful features of our digital services give you the freedom to take care of business.

Your benefits:

- **more efficiency,**
- **simplified work processes, with maintenance outsourced to your MAN Service Centre or by keeping drivers and fleet managers digitally connected**
- **lower costs.**

The best part: it's already a reality.

**With MAN DigitalServices, you can begin straightaway.**

While transport is – and will always be – analogue, fleet management is becoming digitalised. MAN DigitalServices helps you optimise business tasks, bring fuel and admin costs down, plan and manage servicing tasks from the truck, manage time and provide continuous training to drivers.

We would like to give you the opportunity to try out this comprehensive package for three months for free! Our trial offer includes the following paid-for digital services: Geo, Perform, Compliant, MAN ServiceCare M and Timed. MAN ServiceCare S and the MAN Driver app are already free and are not part of this offer.

Take advantage of:

- efficient fleet management with digital services that make your job significantly easier
- our new cost- and risk-free offer: your free trial will automatically end after three months, with no further obligation.

The trial offer\* is valid for all the vehicles\*\* in your fleet for your registered trial period. Get started now: with just a few clicks, you can try all the benefits of MAN DigitalServices for your whole fleet. We are sure that you will be impressed.

[www.man.eu/marketplace](http://www.man.eu/marketplace)

**The digital services listed below help you manage your fleet economically and efficiently:**

- **Vehicle tracking**
- **Maintenance and repair management**
- **Tachograph and time management**
- **Economical driving**
- **Driver assistance**
- **Over-the-air upgrades**

**The latest information on MAN DigitalServices can be found on our website: [www.digital.man](http://www.digital.man)**

\* Valid for all customers who do not currently pay for MAN DigitalServices.

\*\* Depending on technical availability.

# EASIER WORKDAYS.

## MAN ServiceCare

Regular maintenance is a must if you want to reduce unscheduled downtime and repair costs for your fleet. Our free MAN ServiceCare S is there to help – we'll be very happy to take care of your maintenance and repair needs. The service works using vehicle and maintenance data relayed to MAN ServiceCare over the Internet. Your MAN Service Centre uses this to proactively arrange maintenance appointments and combine your maintenance tasks. After all, you've got enough to do already. What's more, your nearest MAN Service Centre can use remote vehicle diagnostics to view targeted vehicle data and give you a more personalised service if you break down. MAN ServiceCare M gives you all the benefits of MAN ServiceCare S but you also get extra tools for even more personalised maintenance and repair management across your whole fleet. We are continually upgrading MAN ServiceCare – with pre-emptive tools that increase the uptime of your vehicles in a more straightforward and comprehensive way.

## MAN Driver App

The MAN Driver app ensures that drivers always have important information about their MAN to hand. Not only does our smartphone-based digital assistant make life on the road easier but it also speaks 26 languages, which means that drivers from lots of different countries can use it. Our smart, user-friendly and efficient MAN Driver app helps MAN drivers on every trip, providing important information and offering a range of features to make their lives easier. For example, if they break down, they just tap on the app and connect to the MAN Mobile24 emergency service. Drivers can also notify fleet managers about any damage and send any documentation quickly and easily through the app. The MAN Driver app is a constant companion – whether you need to carry out a vehicle check before departure, look for a parking place online or check driving and rest times.

The MAN Driver app is free of charge and connects drivers, fleet managers and workshops in a simple and secure way. We're constantly improving our driver app and adding new offers and features that make MAN drivers' jobs even easier.





# SMART SOLUTIONS.

## MAN Now

With MAN Now, you receive exclusive vehicle functionalities and upgrades, allowing you to modify your truck software to meet your requirements, any time, any place – and all without having to drop into a MAN service outlet. Thanks to the new and convenient over-the-air technology, you can easily enable and expand functions or add new ones. Thanks to these retrofitted modification options you are more flexible in the vehicle configuration. As no visit to the workshop is required, you increase the vehicle uptime and efficiency.

The following features are available for all vehicles with a model year of 2020 or later:

- MAN OnlineTraffic
- MAN MapUpdate

The following features are available for all vehicles with a model year between 2022 and 2024:

- MAN LanguagePackage
- MAN LanguageRecognition
- MAN Idle Shutdown
- MAN EfficientCruise®
- MAN EfficientRoll
- MAN TimeInfo
- MAN TimeControl
- MAN TipMatic® driving program

The first usage of MAN OnlineTraffic per vehicle is free.

## MAN SimplePay

Your trucks become digital wallets that can be used to pay for all the usual transactions that occur in the driver's daily business. The payment platform MAN SimplePay also offers a user-friendly user interface for fleet managers and provides full cost control in a timely manner.

MAN SimplePay can make everyday work easier: For example by instantly approving requests, confirming payments and consolidating invoicing. Or with full transparency and time savings for the fleet manager – all costs are in one system (dashboard). The payment is easily processed via the MAN media system in the vehicle, giving you greater security for transactions.

The portfolio (= use cases and payment options) of MAN SimplePay is constantly being expanded. When the service feature is activated in the MAN SimplePay portal, the new features are automatically imported over-the-air into the vehicle.

Technical requirements for these features are a RIO Box, registration on the RIO platform and activation of your vehicles. The range of over-the-air features is being continually expanded.

Some of the features illustrated in this brochure are not part of the production series generally described here.

Both the vehicle's air conditioning system and refrigerator contain fluorinated greenhouse gases (R134a / GWP 1430 with up to 1.15 kg; 1.6445 t CO<sub>2</sub> accordingly).

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