THE NEW MAN eTRUCK GENERATION.

eMPOWERING YOU. ALL THE WAY.







With the world undergoing rapid changes, the transformation of the commercial vehicles industry and the transport sector to electromobility is happening right before us.

As a reliable partner, we enable our customers to pursue this new path with the most environmentally friendly and intelligent vehicles MAN has ever built; The new MAN eTruck Generation. As we embark on an electrified future, the new MAN eTrucks and suitable digital solutions make sustainable transport easy.

THE HOLISTIC MAN APPROACH TO SWITCHING TO ELECTROMOBILITY.

The Right Partner

Based on decades of electric vehicle expertise, MAN knows exactly what is necessary for the economic introduction of electric mobility in the transport sector. With 360° eMobility Consulting from MAN Transport Solutions, we guide our customers on their path to electrification.

Next Level Truck

Featuring the latest technology, the new MAN eTruck generation effectively combines ecology with economy. In addition to an emission-free drive train, the MAN eTGX and eTGS offer excellent driving behavior and ease of operation.

Smart Charging & Battery

Range, longevity and performance through state-of-the-art battery technology and a sustainable charging infrastructure are two critical requirements for the transition to eMobility. MAN is also creating a networked eMobility ecosystem for a seamless digital customer experience.

Maximum Efficiency & Availability

Finally with smart services complementing the MAN eTruck, the usage will become more economical, environmentally friendly, safe, comfortable and better connected across systems.



ELECTRIFY YOUR FLEET WITH 360° eMOBILITY CONSULTATION FROM MAN TRANSPORT SOLUTIONS.

Support for the transition to eMobility

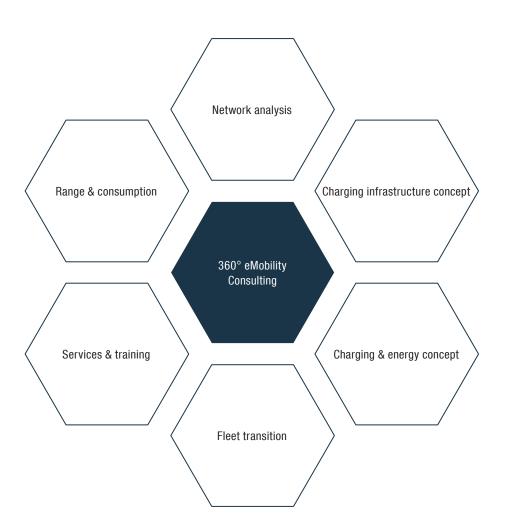
With comprehensive 360° eMobility consultation, we check whether your routes can be covered by electric vehicles and whether they can be operated economically. In this way, we help you to set and achieve your carbon reduction targets.

Consultation provided to several hundreds of customers by the Europe-wide network of eMobility experts

The expertise of our eMobility experts is valued by customers throughout Europe, whom we support, with comprehensive strategies for the electrification of their fleet.

Charging infrastructure and energy supply

We work with you to plan the design of your charging infrastructure and develop an optimal energy supply strategy for your business.



Our 360° consulting for the eMOBILITY ecosystem

1. Range calculation and consumption

- Analysis of the currently driven routes
- Definition of the key factors that influence the range (charging, topography, auxiliary consumers, weather conditions)
- Simulation of possible ranges for different scenarios

2. Network analysis / Route planning

- Simulation of your route planning with electric vehicles and, if necessary, adaptation of vehicle routes
- Composition of the optimal fleet mix of classic and electric vehicles for your company
- Analysis of potential carbon saved by converting to eMobility
- Cost-effectiveness analysis

3. Charging Infrastructure concept

- Simulation of various charging schedules for your fleet:
 - Definition of the charging infrastructure needs
- Development of a tailor-made charging strategy
- Concepts for installing the charging infrastructure in the depot
- Set-up scenarios for public charging

4. Charging and energy concept

- Definition of the expected energy consumption based on route planning Creating and checking concepts for safe energy supply, e.g. avoiding load peaks
- Definition of an energy strategy that considers potential for optimisation with respect to electricity use and company requirements as a concept for your electricity supplier.

5. Fleet conversion

- Development of a long-term plan for the complete conversion of the fleet to electric vehicles
- Determination of the electricity demand and development requirements for charging infrastructure for the early planning of major construction measures and application for extended power connections from the supplier
- Structuring of cost-effectiveness calculations and investment plans to correspond to longterm support programmes.

6. Services and training

- Consultancy with respect to the adaptation of workshop equipment and processes
- Concepts for safety training and courses for the safe handling of high-voltage systems
- Support with the definition of technology and driving training courses for your employees.

eREADYCHECK

READY TO CHECK WHICH MAN eTRUCK IS RIGHT FOR YOU?

Our MAN eReadyCheck supports you in this process and uses selectable parameters to show you which MAN electric vehicles are exactly the right fit for you.

To the MAN eReadyCheck:







With the smartest and most environmentally friendly vehicles it has ever built, MAN is simplifying your path to electrification. Besides an emission-free driveline, the new MAN eTruck generation offers excellent handling with simple operation. In addition, MAN gives you a future-proof and intelligently networked eMobility ecosystem of the future that provides you with the best possible support in your daily work through digital solutions.

BENEFITS OF A MAN ELECTRIC TRUCK.

Ideal application fit

The MAN eTruck offers the shortest wheelbases for semitrailer tractors at 3,750 mm – with a battery capacity of up to 480 kWh and a high fifth-wheel coupling load. This means you can combine your eTruck with ISO or special trailers without exceeding a train length of 16.50 m. We also offer chassis with a wheelbase of 3,750 mm to 5,950 mm – and PTO's are also available.

Ultra semitrailer tractor for large-volume transport

Low design, high efficiency: With a minimal height of 953 mm, the MAN ultra semi-trailer tractor is ideal for semitrailers with an interior height of 3,000 mm and a volume of up to 100 m³. For example, it is perfect for just-in-time/just-in-sequence deliveries in the automotive sector, where maximum use of space is crucial.

Flexible modular battery system

Bespoke battery configuration: Thanks to our intelligent battery modular kit, you can select three to six battery packs depending on your usage specifications (four to six for semitrailers tractors). Whether you want more payload/fifth-wheel coupling load with lower acquisition costs or a higher range, you are in control. Body manufacturers have also been part of the development process from the start. As a result, aspects such as gaps in the frame for hydraulic supports for front crane applications were considered from an early stage.

Commercial vehicle specific batteries - made in Germany

MAN recognised the importance of battery development as a key technology for eMobility and has created cellular chemistry specifically optimised for commercial vehicle applications. And battery production remains in-house too with the batteries being produced at the MAN location in Nuremberg.

Fast charging made easy

Instantly charge your MAN eTruck: The maximum 375 kW charging capacity of the combined charging system (CCS) makes charging time incredibly short. And the megawatt charging system (MCS) is even faster with a capacity of up to 750 kW. Four possible charging positions on the vehicle also make handling easier.



THE NEW MAN eTGX.

The eTruck for long haulage.



ELECTRIFYING LONG-HAUL TRANSPORT.

The new MAN eTGX competes with conventional semi-trailer tractors when it comes to long haul. Regardless of whether it is a semi-trailer tractor or a chassis variant with body, the new Megawatt Charging System gives the electric truck a charging capacity of up to 750 kW making it ideal for covering long distances. And after work, the driver can relax in the comfortable rest area of the cab. The MAN eTGX is also environmentally friendly and quiet, which makes life easier for drivers and residents.

HIGHLIGHTS OF THE MAN eTGX

- A variety of cabs (GX, GM, GN) with a comfortable rest area
- Daily ranges of around 500 km* for semi-trailer tractors
- Choice between 3 and 7 battery packs

TECHNICAL SPECIFICATIONS OF THE MAN eTGX

	4x2 Semi-trailer Tractor	4x2 Chassis	6x2 Chassis
Battery packs	4 - 6	3 – 6	3 – 7
Battery capacity	320 – 480 kWh	240 – 480 kWh	240 – 560 kWh
Gross vehicle weight / gross train weight	- / Up to 44 t	Up to 20 / 44 t	Up to 28 / 44 t
Range without Intermediate charging	~500 km*	~750 km*	~700 km*

The exact range of the eTruck varies depending on the specific operating conditions. Under good operating conditions*, the following single ranges are possible without intermediate charging:

- for a 4x2 standard semi-trailer truck with 6 batteries: ~500km
- for a 4x2 Chassis Box Body with 6 batteries: ~750km
- for a 6x2 Chassis Swap Body with 7 batteries: ~700km

*Disclaimer

4x2 standard semi-trailer truck: 20 °C outside temperature; 60% payload; typical long-distance use (primarily highway) under good operating conditions.

6x2 chassis swap body: solo operation, 20 °C outside temperature; 60% payload; typical long-distance use (primarily highway) under good operating conditions.

4x2 chassis box body: solo operation, 20 °C outside temperature; 60% payload; typical distribution traffic use (high proportion of city and interurban traffic) under good operating conditions.

Range figures were determined internally and may deviate from the values determined in accordance with EU regulations.

The exact range of the eTruck varies depending on the specific operating conditions and must therefore be calculated for each individual application.





STRONG, VERSATILE, QUIET.

Be it in regional distribution transport, for robust special applications or as an emergency vehicle for heavy loads: the new MAN eTGS is ready to extend its versatility according to your daily challenges. It can be used for a wide range of applications: from a refrigerated box to a refuse collector, as a semi-trailer tractor or chassis. Thanks to the smooth power delivery, the ample torque from a standstill and the precise handling, the MAN eTGS offers an exceptional driving experience. And with its usable battery capacity of up to 560 kWh, it easily covers most industry-specific range requirements, all while remaining climate-conscious and quiet. This makes concerns about range a thing of the past.

HIGHLIGHTS OF THE MAN eTGS

- Flexible pre-fitting for body mounting ex works
- Tailored MAN Digital Services included
- Comfortable driving experience and precise handling

TECHNICAL SPECIFICATIONS OF THE NEW MAN eTGS

	4x2 Semi-trailer Tractor	4x2 Chassis	6x2 Chassis	
Battery packs	4 – 6	3 - 6	3 – 7	
Battery capacity	320 – 480 kWh	240 – 480 kWh	240 – 560 kWh	
Gross vehicle weight / gross train weight	- / Up to 44 t	Up to 20 / 44 t	Up to 28 / 44 t	
Range without Intermediate charging	~500 km*	~750 km*	~700 km*	

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VERSATILE SOLUTIONS FOR YOUR SUCCESS.

The new MAN eTrucks serve as the ideal foundation for all focus applications, offering a high payload and long range.





Vehicle for swap bodies

- High range
- Fast charging required, as often used in shift work
- Multi- and standard swap bodies possible
- Narrow vehicle width

Standard / Refrigerated semitrailer tractor

- High range
- Powerful drives
- Wide range of cabin types
- Short wheelbase, allowing for a wide range of semitrailers



Ultra-Semitrailer tractor

- High range
- Powerful drives
- Short wheelbase, allowing for a wide range of semitrailers
- Fifth-wheel heights from 950 mm



CONSTRUCTION











Set-down and Roll-off skip loader

- High payload and range
- High-voltage interface suitable for the industry
- Drive program for manoeuvring intensive applications
- Also possible in trailer operation
- Short industry grade wheelbases available

Platform body with loading crane

- High range
- Cost-effective mechanical power take-off
- Modular battery layout with frame clearances for hydraulic support for front crane operations

Tipper/mixing semitrailer tractor

- Up to 480 kWh battery capacity
- Configurable with 4 to 6 battery packs depending on application requirements
- Industry-specific preliminary setups

DISTRIBUTION TRANSPORT











Box body

- Up to 480 kWh battery capacity
- Flexible preliminary setups for body installation ex works
- Also possible in trailer operation

Refrigerated goods vehicle

- Up to 480 kWh battery capacity
- Battery layout with frame clearances for refrigeration unit
- High-voltage interface suitable for the industry
- Flexible preliminary setups for body installation ex works
- Also possible in trailer operation

Standard / Refrigerated semitrailer tractor

- High range
- Powerful drives
- Wide range of cabin types
- Compact dimensions

MUNICIPAL VEHICLES







Set-down and Roll-Off skip loader

- High payload and long range
- High-voltage interface suitable for the industry
- Drive program for manoeuvring intensive applications
- Also possible in trailer operation
- Short industry grade wheelbases available

Waste collectors

- High range
- Battery usage strategies for long vehicle life
- Driving program for waste disposal operations

TANKER AND SILO





Tanker

- High payload
- Transport of dangerous goods pursuant to ADR regulations ex works
- Drive program for smooth gearshifts
- Flexible preliminary setups for body installation ex works
- Mechanical power take-offs and electrical interfaces

Tank semitrailer tractor

- High payload
- Transport of dangerous goods pursuant to ADR regulations ex works
- Drive program for smooth gearshifts







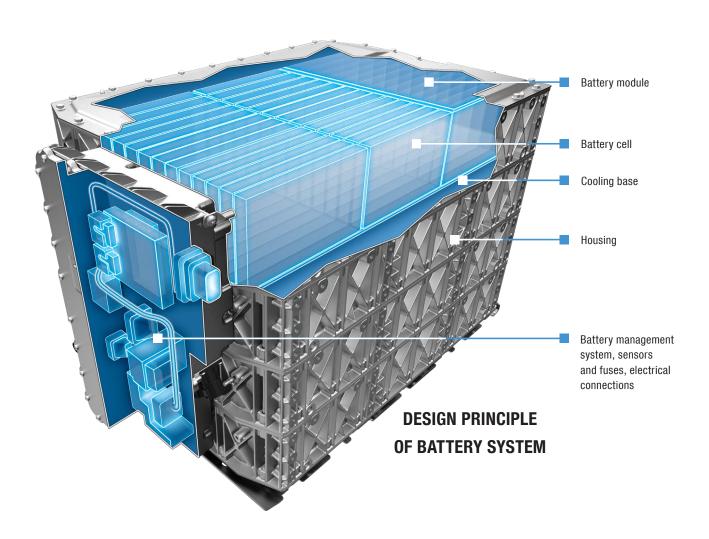


THE HEART OF THE MAN eTRUCKS – THE BATTERY.

The use of an emission-free truck driveline relies heavily on the battery. For this reason, the new MAN eTrucks are equipped with batteries that have been specially designed at the MAN site in Nuremberg, Germany. This means that the know-how of one of the most important technical components of the MAN eTrucks remains in-house.

Depending on the intended use of the electric truck, various capacities of up to 560 kWh can be selected, allowing for high ranges without intermediate charging. Thanks to the new megawatt charging at up to 750 kW, it takes about 45 minutes for empty battery packs to be largely charged.

With a forecast effective performance period of up to 1.6 million kilometres or up to 15 years (depending on the type of use), the batteries are also extremely long-lasting.



MAINTENANCE AND REPAIR

The battery-specific maintenance intervals depend heavily on the application profile of the new MAN eTrucks. They are therefore calculated and determined on a vehicle-by-vehicle basis. Continuous analysis of battery data helps with this. MAN ServiceCare bundles this data into a maintenance plan, which the MAN service centre proactively discusses with you.

The average use of new MAN eTrucks can be less maintenance-intensive and wear-intensive than that of diesel vehicles – this depends very much on the individual application.

REPAIRING, INSTEAD OF REPLACING

The high-voltage battery packs significantly contribute to the acquisition costs of electric trucks. For economic and ecological reasons, it goes without saying that in the case of the most common faults, the battery is repaired in an economically sensible way and not completely replaced. Typical fault patterns, diagnostic software and suitable repair methods are currently being developed for use in service branches in time for the start of production of the electric truck. Another step towards a more sustainable future.

QUICK REMOVAL

The fastening of the high-voltage battery packs developed by MAN enables the battery packs to be quickly removed to the side, usually a time-consuming process. In addition to disconnecting the cable periphery, all you have to do is loosen the locking screws and move the battery pack out to the side – saving a lot of time.







CHARGING eTRUCKS.

ON-SITE AND THROUGHOUT EUROPE

There are two scenarios when it comes to charging an eTruck: private charging infrastructure at the company's location and public charging.

MAN advises customers on setting up charging infrastructure at their depots and locations. If an infrastructure provider is needed, MAN collaborates with local and global infrastructure partners like ABB, Heliox and SBRS, to support the customer. We also advise our customers on alternatives for missing grid connection and high investment costs to enable a seamless start to eMobility.

We also invest in public charging infrastructure. Milence, a joint venture between MAN parent company TRATON Group and other commercial vehicle manufacturers. has already opened the first charging parks for battery-electric commercial vehicles, with plans to build and operate 1,700 public charging stations in Europe in the next years.

In addition, MAN is working with E.ON for the development of commercial vehicle charging infrastructure at 170 MAN service locations in Europe.

MAN Charge&Go

With MAN Charge&Go – an eTruck-specific charging service, including a charging card, drivers can charge across borders at a constantly growing network of suitable charging stations in Europe. Customers benefit from competitive pricing and consolidated billing for the entire fleet. In conjunction with the MAN SmartRoute digital service, charging planning along the route is simplified.



Charging Power	Approximate charging time in min, depending on battery configuration	System
200 A (150 kW)	115 – 230 Min	Combined Charging (CCS)
335 A (250 kW)	Approx. 40 minutes	Combined Charging (CCS)
500 A (375 kW)	Approx. 40 minutes	Combined Charging (CCS)
670 A (approx. 500 kW)	Approx. 45 minutes	Megawatt Charging (MCS)
835 A (approx. 625 kW)	Approx. 45 minutes	
1,000 A (approx. 750 kW)	Approx. 45 minutes	Megawatt Charging (MCS)

ENTER THE WORLD OF eMOBILITY - IN FOUR EASY STEPS

Step 1: Demand analysis with the 360° eMobility consulting

Initial tailored analysis of the possibilities for electrifying your fleet based on example routes and general conditions.

Step 2: Full evaluation of your fleet

Detailed analysis of your entire network and development of an eMobility evaluation strategy.

Step 3: Charging infrastructure planning

Development of a charging solution for your electric fleet in close cooperation with our partners.

Step 4: Data-based optimisation

Cost optimisation through ongoing adjustments, taking into account all relevant changes in your transport network.



SUSTAINABLE TRAVEL WITH MAN DIGITALSERVICES.

The future of the transport industry is electric – and, of course, digital. That's why many of the digital services available for conventional trucks can also be used with the new MAN eTrucks. In addition, MAN offers other digital solutions specifically tailored to its electric trucks: MAN eManager and MAN SmartRoute.

MAN eManager

MAN eManager enables comprehensive charging management as well as vehicle and battery monitoring for the entire MAN electric truck fleet. Short ranges or charging failures are transmitted directly to the fleet management. Battery temperatures are monitored and if there is a risk of overheating, the fleet manager is warned in case of emergency. The charging of the vehicle is intelligently controlled. The vehicle's pre-air conditioning is integrated into the charging process, thus saving energy while driving.

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The MAN eManager is available in two versions:

MAN eManager S

- Efficient control of the charging process of a single MAN eTruck or the entire fleet
- Timer mode: Set when the electric truck should be fully charged – the MAN eManager takes care of the rest
- Real-time overview of the progress of the charging process, the possible range with the current battery status and the time of full charge

MAN eManager M

- Includes all functions of the MAN eManager S
- Transmission of battery-relevant key figures on temperature, voltage as well as charging and discharging
- Display of the remaining battery capacity in kWh in all state of charge
- Overview of the status of the entire MAN eTruck fleet, including information on the driving condition







MAN SmartRoute

MAN SmartRoute – for fleet managers and drivers – simplifies route planning for your new MAN eTruck fleet and assists with optimum planning of intermediate charging along the route so that the tours can be completed successfully.

The following parameters are taken into account:

- Battery charge status and remaining range
- Traffic (e.g. traffic jams, accidents, roadworks)
- Infrastructure (e.g. charging stations, service areas)
- Topography (e.g. mountains)
- Weather
- Commercial vehicle restrictions (e.g. load)
- Driving job (e.g. route, customer stops)
- Time requirements (e.g. travel times, unloading times)
- Driving times and rest periods

TRANSFORMATION OF THE MAN SERVICE NETWORK FOR eMOBILITY.

For both conventional trucks and the new MAN eTGX & eTGS, an efficient service network is crucial. To ensure that the new eTrucks have as little downtime as possible, MAN is updating its function and service structure with regard to the topic of eReadiness. The transformation follows an ambitious plan: by the start of production of the eTrucks in 2025, 70% of all MAN-owned service operations in Europe will be e-ready. And from 2028, MAN plans to have 100% e-readiness.

MAN ServiceCare

With the predictive, digital maintenance and repair management MAN ServiceCare, you can always keep an eye on the maintenance status of your electric commercial vehicle. In order to reduce workshop visits and downtimes, maintenance and vehicle data are transferred from your MAN electric fleet to MAN ServiceCare. Depending on the individual requirements, you can choose between the following service packages: MAN ServiceCare S and MAN ServiceCare M.

MAN Mobile24

Proactive precautions, quick action, acting instead of reacting – these are the principles of MAN Mobile24. We'll help you get to your destination. You can reach us around the clock – 365 days a year – free of charge by calling 00800Mobile24 / 00800 66245324.

MAN Mobile24 is MAN's very own "roadside assistance service" and includes Europe-wide vehicle support.

MAN Service Contracts

With MAN Service Contracts, there is no need to worry about unexpected repair costs or breakdowns of your electric commercial vehicle. Our service contracts help you keep your expenses calculable with a comprehensive service package. Throughout Europe, our experts in the MAN service centeres handle MAN electric trucks with professional care. This means that you can devote your full concentration to your core business.

MAN Genuine Parts

MAN Genuine Parts guarantees that you are driving with the best MAN quality. The parts are manufactured in accordance with MAN guidelines and inspected carefully to ensure that they comply with our strict quality standards. They also guarantee maximum reliability and economy. In addition, they come with a two-year warranty tht is valid worldwide for MAN service and parts.

MAN Uptime Guarantee

Wherever you go with your MAN electric truck, the MAN uptime guarantee, MAN ensures the reliable operational readiness of every eTruck fleet. The MAN uptime guarantee for electric trucks assure your mobility in more than 30 European countries.





MAN Truck & Bus SE

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