


# PRODUCT CATALOGUE

CONSISTENTLY   
EFFICIENT



JV MAN Auto-Uzbekistan





# About Company

## About Company

### “JV MAN Auto-Uzbekistan” LLC

Uzbek-German joint venture “JV MAN Auto-Uzbekistan” LLC manufactures modern and reliable MAN trucks with gross vehicle weight of 15 to 50 tons.

Samarkand MAN production plant is organized with the modern equipment, which manufactures a wide model range of trucks, e.g. truck tractors, tippers and special purpose vehicles - more than 50 truck options. Annual production capacity is more than 3000 units.

MAN service and dealer center in Samarkand, being a part of the company, employs highly qualified specialists and modern equipment. The center may perform the full range of operations on service of more than 1500 trucks and special purpose trucks with expandability of annual output up to 4000 units.

The center also provides trainings for mechanics of proper vehicle maintenance as well as special programs of safe and effective driving, MAN ProfiDrive. These training programs provide savings in the operation of the vehicle up to 20% of fuel, increases the service life of components of the chassis as well as powertrain and makes driving more safe.

Durability, efficiency and reliability are the key features of “JV MAN Auto-Uzbekistan” products. The company provides a 2-year warranty for all engine and transmission components, with unlimited mileage.

“JV MAN Auto-Uzbekistan” exports the products to Afghanistan, Azerbaijan, Kazakhstan, Kenya, Turkmenistan and Kyrgyzstan.

The clients in Uzbekistan can purchase MAN trucks and have them serviced in the dealer and service centers located in Andijan, Fergana, Bukhara, Karshi, Kokand, Navoi, Namangan, Jizzakh, Samarkand, Tashkent, Termez and Urgench. The company plans further development of the dealer and service network.

The company is based on a quality management system ISO 9001.

[www.man.uz](http://www.man.uz)

## About Company

### “JV MAN Auto-Uzbekistan” LLC

#### **Stockholders:**

Uzavtosanoat joint stock Company - 51%

MAN Truck & Bus Group – 49%

Date of creation: August 7, 2009

#### **Plant:**

Total area – 44,9 hectares

Manufacturing area – 26,34 hectares

Production capacity of plant – over 4 000 trucks a year with a possibility of bringing to 8 000 pieces.

Location: 2, Tashkentskaya St., Jambay district, Samarkand region, 140400, Republic of Uzbekistan.

Head office: 30, Mirzo-Ulugbek St., Tashkent, 100007, Republic of Uzbekistan.

#### **Products:**

Trucks and chassis with fully loaded mass more than 16 tons, semi-trailers, trucks for special purposes and truck crane. The model range of vehicles is more than 50 positions.

#### **Personnel:**

The number of personnel of “JV MAN Auto-Uzbekistan” is 300 people.

# Company Milestones

- **August 7, 2009** – establishment of “JV MAN Auto-Uzbekistan” LLC (Resolution of the Cabinet of Ministers RCM-224).
- **September 4, 2009** – assembly line of Samarkand Automobile Plant (SamAvto) produced the first model truck TGA 19.400 of “JV MAN Auto-Uzbekistan” LLC.
- **July 1, 2010** – Samarkand Automobile Plant (SamAvto) produced the first chassis of CLA 26.280 CS model of “JV MAN Auto-Uzbekistan” LLC.
- **September 1, 2010** – Samarkand Automobile Plant (SamAvto) produced the first truck model TGA 33.360 of “JV MAN Auto-Uzbekistan” LLC.
- **September 22, 2010** – beginning of shipment of “JV MAN Auto-Uzbekistan” LLC products on export. The tipper MAN CLA 26.280 was shipped to Kazakhstan.
- **February 16, 2011** – the President of Uzbekistan, Islam Karimov, signed a decree № PD-1478 “On measures to further development of the heavy vehicles production”. That was the start of construction of the complex for the production and maintenance of heavy MAN trucks in Uzbekistan.
- **December 22, 2011** – opening of MAN dealership and service center on the suburb of Samarkand.
- **July 30, 2012** – launch ceremony of “JV MAN Auto-Uzbekistan” LLC assembly plant on the suburb of Samarkand.
- **August 1, 2012** – “JV MAN Auto-Uzbekistan” LLC produced its first TGS 33.360 6x4 BB tipper.
- **May 16, 2013** – “JV MAN Auto-Uzbekistan” LLC produced the 1000-th semitrailer tractor MAN TGS 19.400.
- **October 11, 2013** – presentation on “The localization of production of component parts for MAN trucks” at Turin Polytechnic University in Tashkent. This event laid the foundation in the development of localization in Uzbekistan.
- **End of 2013** – launch of “UzAuto Trailer” plant. The construction of this enterprise has become a sort of final “touch” in creating complex for production and maintenance of heavy machinery MAN in Uzbekistan. The main task of the company - release of mounted and trailed equipment for body as well as semi-trailers, container truck, car carriers, awning semi-trailers and other vehicles for special purposes.
- **March 28, 2014** – “JV MAN Auto-Uzbekistan” LLC received the quality system certification for compliance with ISO: 9001: 2008.
- **June 27, 2014** – assembly line of “JV MAN Auto-Uzbekistan”, produced the 3000th truck – the semitrailer tractor of model 19.400 Comfort.
- **February 23, 2015** – between “JV MAN Auto-Uzbekistan” LLC and “MAN Truck & Bus” AG there was signed an agreement on localization of cabins.
- **August 5, 2016** – implementation of production project on localization of heavy vehicle cabins MAN of CLA line.

# FRAME ASSEMBLY AND PAINTING



# INSTALLATION PROCESS OF ENGINE AND RADIATOR



# PRODUCTION AND INSTALLATION OF A CABIN



# CONTROL CHECK






Dealer network



«Eurasia Truck & Bus Kazakhstan» LLP

«DT Technik»

«Global Leasing» Ltd

 Regions with available dealer and service centers

1. «MAGISTRAL DIESEL SERVICE»
2. «TURON AVTO TRAILER»
3. «FLAGMAN TRUCKS BUSINESS»
4. «IDEAL TEHNO UNIT»
5. «TEKNIK DIZEL SERVIS»
6. «TECHNIC DIESEL TRADE»
7. «MAX TRADE GROUP»
8. «ASIA POWER»
9. «SERGELFAVTOTEXXIZMAT»
10. «NURAFSHON AVTOCENTR»
11. «LION MOTORS»
12. «TOSHSHAHARTRANSXIZMAT»
13. «JV MAN AUTO-UZBEKISTAN»
14. «AUTO ASIA SAM SERVIS»
15. «CHUST TRANS MAN AVTO SERVIS»
16. «TRUCK SERVICE CENTER»
17. «PROF TRUCK SALE»
18. «QIZILTEPA TRANS SEVICE KAFOLAT»
19. «QARSHI TRANS SEVICE KAFOLAT»
20. «URGENCH REGION TRANS»
21. «FAYZ TRANS INVEST»
22. «MOPAR TECHNO GROUP»
23. «ABTOCAHKOMПЛЕКТ KYKOH»
24. «ANDIJON TRANSPORT EKSPEDITORLIK»
25. «AZIA AUTO FERGANA»
26. «QARAOZEK TEXNIKA SERVIS»
27. «EURASIA TRUCK & BUS LLC»
28. «GLOBAL LEASING»
29. «DT TECHNIK»

Servis/Sales	Tashkent
Servis/Sales	Tashkent
Servis/Sales	Tashkent
Servis/Sales	Tashkent
Servis	Tashkent
Sales	Tashkent
Sales	Tashkent
Sales	Tashkent
Sales	Tashkent
Sales	Tashkent
Servis for buses	Tashkent
Servis/Sales	Samarkand
Servis/Sales	Samarkand
Servis/Sales	Namangan
Servis/Sales	Bukhara
Servis/Sales	Bukhara
Servis/Sales	Navoi
Servis/Sales	Karshi
Servis/Sales	Urgench
Servis/Sales	Surkhandarya
Servis/Sales	Jizzakh
Servis/Sales	Kokand
Sales	Andijan
Sales	Fergana
Sales	Nukus
Servis/Sales	Almaty
Servis/Sales	Dushanbe
Servis/Sales	Bishkek



Model line



Semitrailer tractor - MAN TGS 19.440 4X2 BLS  
Efficient Line



# Technical characteristics

Main semitrailer tractor, belonging to emission standard Euro 5, is assigned for run in regional and long haul transportations, in a truck and trailer combination with total mass to 44 tons. The semitrailer tractor is equipped with powerful fuel-efficient engine D20, with modern fuel supply system Common Rail, 12-step automated gearbox, reinforced rear pneumatic suspension, disc brakes with ABS, electronic monitoring system and comfortable cab with two berths. In order to ensure high efficiency, high rate of energy usage and low fuel consumption the engine is equipped with EGR - exhaust gas recirculation system with external control. Also it is possible kitting with ADR (Automatic diagnostics and recovery system).

## Semitrailer tractor - MAN TGS 19.440 4X2 BLS Efficient Line

Engine	D2066LF44 4-cycle turbocharged diesel engine with aftercooler
Engine power	440 h.p. / 324 kW at 1600 ÷ 1900 rpm
Engine torque	2100 N·m at 1000 ÷ 1400 rpm
Number of cylinders	6-cylinder in-line
Engine capacity	10,5 l
Emission standard	Euro 5
Fuel tank capacity	800 l on the right with a step, on the left side is 460 l.
Chemical agent AdBlue tank capacity	85 l
Vehicle curb weight	7 600 kg
Permissible gross weight of vehicle	19 000 kg
Permissible load on the front axle	7 500 kg
Permissible load on the rear axle	13 000 kg
Permissible gross train (truck and trailer) weight	44 000 kg
Overall length	5 875 mm
Overall width	2 500 mm
Overall height inc.of fairing	3 900 mm
Engine clutch	Friction, dry single disk
Gearbox	MAN TipMatic 1226 DD, automated 12-speed
Front suspension	Parabolic springs with shock absorbers and stabilizer bars of transversal stability
Rear suspension	Pneumatic suspension
Steering	With hydraulic booster ZF 8098
Brake system	Pneumatic, front and rear disc brake gears, ABS-anti-lock brake system, ASR- anti-spin regulation
Fifth wheel coupling	Fifth wheel coupling JOST JSK 37 C, under the pin with diameter of 50.8 mm (2*) height of 150 mm. Base plate -40 mm, manufactured by JOST Vertical load on the fifth wheel coupling – 11 400 kg

Semitrailer tractor - MAN TGS 19.440 4X2 BLS  
Regional Eco



# Technical characteristics

Main semitrailer tractor, belonging to emission standard Euro 4, is assigned for run in regional and long haul transportations, in a truck and trailer combination with total mass to 44 tons. The semitrailer tractor is equipped with powerful fuel-efficient engine D20, with modern fuel supply system Common Rail, 16-step manual gearbox, reinforced rear pneumatic suspension, disc brakes with ABS, electronic monitoring system and comfortable cab with two berths. In order to ensure high efficiency, high rate of energy usage and low fuel consumption the engine is equipped with EGR - exhaust gas recirculation system with external control. Also it is possible kitting with ADR (Automatic diagnostics and recovery system).

<b>Semitrailer tractor - MAN TGS 19.440 4X2 BLS Regional Eco</b>	
Engine	D2066LF69 4-cycle turbocharged diesel engine with aftercooler
Engine power	440 h.p. / 324 kW at 1600 ÷ 1900 rpm
Engine torque	2100 N·m at 1000 ÷ 1400 rpm
Number of cylinders	6-cylinder in-line
Engine capacity	10,5 l
Emission standard	Euro 4
Fuel tank capacity	760 l on the right with a step, on the left side is 450 l.
Chemical agent AdBlue tank capacity	100 l
Vehicle curb weight	7 700 kg
Permissible gross weight of vehicle	19 000 kg
Permissible load on the front axle	7 500 kg
Permissible load on the rear axle	11 500 kg
Permissible gross train (truck and trailer) weight	44 000 kg
Overall length	5 875 mm
Overall width	2 500 mm
Overall height inc.of fairing	3 900 mm
Engine clutch	Friction, dry single disk
Gearbox	ZF 16 S 222 DD 16-step, manual, synchronized transmission
Front suspension	Parabolic springs with shock absorbers and stabilizer bars of transversal stability
Rear suspension	Pneumatic suspension, with shock absorbers and stabilizer bars, pneumatic cushioning system ECAS
Steering	With hydraulic booster ZF 8098
Brake system	Pneumatic, front and rear disc brake gears, ABS-anti-lock brake system, ASR- anti-spin regulation
Fifth wheel coupling	Fifth wheel coupling JOST JSK 37 C, under the pin with diameter of 50.8 mm (2*) height of 150 mm. Base plate -40 mm, manufactured by JOST Vertical load on the fifth wheel coupling – 11 300 kg

Semitrailer tractor - MAN TGS 19.400 4X2 BLS  
Comfort Eco



# Technical characteristics

Main semitrailer tractor, belonging to emission standard Euro 4, is assigned for run in regional and long haul transportations, in a truck and trailer combination with total mass to 44 tons. The semitrailer tractor is equipped with powerful fuel-efficient engine D20, with modern fuel supply system Common Rail, 16-step manual gearbox, reinforced rear pneumatic suspension, disc brakes with ABS, electronic monitoring system and comfortable cab with two berths. In order to ensure high efficiency, high rate of energy usage and low fuel consumption the engine is equipped with EGR - exhaust gas recirculation system with external control. Also it is possible kitting with ADR (Automatic diagnostics and recovery system).

## Semitrailer tractor - MAN TGS 19.400 4X2 BLS Comfort Eco

Engine	D2066LF70 4-cycle turbocharged diesel engine with aftercooler
Engine power	400 h.p. / 294 kW at 1600 ÷ 1900 rpm
Engine torque	1900 N·m at 1000 ÷ 1400 rpm
Number of cylinders	6-cylinder in-line
Engine capacity	10,5 l
Emission standard	Euro 4
Fuel tank capacity	800 l on the right with a step, on the left side is 460 l.
Chemical agent AdBlue tank capacity	85 l
Vehicle curb weight	7 700 kg
Permissible gross weight of vehicle	19 000 kg
Permissible load on the front axle	7 500 kg
Permissible load on the rear axle	11 500 kg
Permissible gross train (truck and trailer) weight	44 000 kg
Overall length	5 875 mm
Overall width	2 500 mm
Overall height inc.of fairing	3 900 mm
Engine clutch	Friction, dry single disk
Gearbox	ZF 16 S 223 DD 16-step, mechanical, synchronized transmission
Front suspension	Parabolic springs with shock absorbers and stabilizer bars of transversal stability
Rear suspension	Pneumatic suspension, with shock absorbers and stabilizer bars, pneumatic cushioning system ECAS
Steering	With hydraulic booster ZF 8098
Brake system	Pneumatic, front and rear disc brake gears, ABS-anti-lock brake system, ASR- anti-spin regulation
Fifth wheel coupling	Fifth wheel coupling JOST JSK 37 C, under the pin with diameter of 50.8 mm (2*) height of 150 mm. Base plate -40 mm, manufactured by JOSTVertical load on the fifth wheel coupling – 11 300 kg

Semitrailer tractor - MAN TGS 19.400 4X2 BLS  
Standard



# Technical characteristics

Main semitrailer tractor, belonging to emission standard Euro 3, is assigned for run in regional and long haul transportations, in a truck and trailer combination with total mass to 44 tons. The semitrailer tractor is equipped with powerful fuel-efficient engine D20, with modern fuel supply system Common Rail, 16-step manual gearbox, reinforced rear pneumatic suspension, disc brakes with ABS, electronic monitoring system and comfortable cab with a single berth. In order to ensure high efficiency, high rate of energy usage and low fuel consumption the engine is equipped with EGR - exhaust gas recirculation system with external control. Also it is possible kitting with ADR (Automatic diagnostics and recovery system).

## Semitrailer tractor - MAN TGS 19.400 4X2 BLS Standard

Engine	D2066LF49 4-cycle turbocharged diesel engine with aftercooler
Engine power	400 h.p. / 294 kW at 1600 ÷ 1900 rpm
Engine torque	1900 N·m at 1000 ÷ 1400 rpm
Number of cylinders	6-cylinder in-line
Engine capacity	10,5 l
Emission standard	Euro 3
Fuel tank capacity	590 l on the right with a step, on the left side is 250 l.
Vehicle curb weight	7 100 kg
Permissible gross weight of vehicle	19 000 kg
Permissible load on the front axle	7 500 kg
Permissible load on the rear axle	11 500 kg
Permissible gross train (truck and trailer) weight	44 000 kg
Overall length	5 875 mm
Overall width	2 500 mm
Overall height inc.of fairing	3 600 mm
Engine clutch	Friction, dry single disk
Gearbox	ZF 16 S 223 DD 16-step, mechanical, synchronized transmission
Front suspension	Parabolic springs with shock absorbers and stabilizer bars of transversal stability
Rear suspension	Pneumatic suspension, with shock absorbers and stabilizer bars, pneumatic cushioning system ECAS
Steering	With hydraulic booster ZF 8098
Brake system	Pneumatic, front and rear disc brake gears, ABS-anti-lock brake system, ASR- anti-spin regulation
Fifth wheel coupling	Fifth wheel coupling JOST JSK 37 C, under the pin with diameter of 50.8 mm (2*) height of 150 mm. Base plate -40 mm, manufactured by JOST Vertical load on the fifth wheel coupling – 11 500 kg

Semitrailer tractor - MAN TGS 19.360 4X2 BLS  
Budget Eco



# Technical characteristics

Main semitrailer tractor belonging to emission standard Euro 4, is assigned for run in regional and long haul transportations, in a truck and trailer combination with total mass to 44 tons. The semitrailer tractor is equipped with powerful fuel-efficient engine D20, with modern fuel supply system Common Rail, 16-step manual gearbox, reinforced rear pneumatic suspension, disc brakes with ABS, electronic monitoring system and comfortable cab with a single berth. In order to comply to norms of Euro 4 in exhaust system there is applied a technology of SCR (Selective Catalytic Reduction) based on injection of strictly dosed amount of reagent AdBlue into the current of discharge gases in the presence of catalyst. Advantages of SCR technology MAN AdBlue in long haul transportations: absence of negative influence into engine power, decrease of nitric oxides to 90 %, reduction of particle ejection, technology enables to decrease particle ejection to indicators, appropriate for Euro 5. Also it is possible kitting with ADR (Automatic diagnostics and recovery system).

## Semitrailer tractor - MAN TGS 19.360 4X2 BLS Budget Eco

Engine	D2066LF71 4-cycle turbocharged diesel engine with aftercooler
Engine power	360 h.p. / 265 kW at 1600 ÷ 1900 rpm
Engine torque	1800 N·m at 1000 ÷ 1400 rpm
Number of cylinders	6-cylinder in-line
Engine capacity	10,5 l
Emission standard	Euro 4
Fuel tank capacity	680 l on the right with a step, on the left side is 250 l
Chemical agent AdBlue tank capacity	75 l
Vehicle curb weight	7 350 kg
Permissible gross weight of vehicle	19 000 kg
Permissible load on the front axle	7 500 kg
Permissible load on the rear axle	11 500 kg
Permissible gross train (truck and trailer) weight	44 000 kg
Overall length	5 875 mm
Overall width	2 500 mm
Overall height inc.of fairing	3 600 mm
Engine clutch	Friction, dry single disk
Gearbox	ZF 16 S 223 DD 16-step, mechanical, synchronized transmission
Front suspension	Parabolic springs with shock absorbers and stabilizer bars of transversal stability
Rear suspension	Pneumatic suspension with shock absorbers and stabilizer bars, pneumatic cushioning system ECAS
Steering	With hydraulic booster ZF 8098
Brake system	Pneumatic, front and rear disc brake gears, ABS-anti-lock brake system, ASR- anti-spin regulation
Fifth wheel coupling	Fifth wheel coupling JOST JSK 37 C, under the pin with diameter of 50.8 mm (2*) height of 150 mm. Base plate -40 mm, manufactured by JOST Vertical load on the fifth wheel coupling – 11 500 kg

Semitrailer tractor - MAN TGS 33.480 6X4 BBS  
Maxiton ITM



# Technical characteristics

Semitrailer tractor – heavy duty, belonging emission standard Euro 3, is assigned for operation with a wide range of semitrailers applied in construction field or with heavy-duty semitrailers for transportation of constructional and road vehicles with total mass to 90 tons. The semitrailer tractor is equipped with powerful fuel-efficient engine D20, with modern fuel supply system Common Rail. In order to ensure high efficiency, high rate of energy usage and low fuel consumption the engine is equipped with EGR - exhaust gas recirculation system with external control.

<b>Semitrailer tractor - MAN TGS 33.480 6X4 BBS Maxiton ITM</b>	
Engine	D2676LF02 4-cycle turbocharged diesel engine with aftercooler
Engine power	480 h.p. / 353 kW at 1700 ÷ 1900 rpm
Engine torque	2300 N·m at 1000 ÷ 1400 rpm
Number of cylinders	6-cylinder in-line
Engine capacity	10,5 l
Emission standard	Euro 3
Fuel tank capacity	590 l on the right with, on the left side 250 l
Vehicle curb weight	10 150 kg
Permissible gross weight of vehicle	33 000 kg
Permissible load on the front axle	8 000 kg
Permissible load on the rear axle	13 000 kg / 13 000 kg
Permissible gross train (truck and trailer) weight	90 000 kg
Overall length	7 095 mm
Overall width	2 500 mm
Overall height inc.of fairing	3 365 mm
Engine clutch	Friction, dry single disk
Gearbox	ZF 12 AS 2331 OD 12-step, manual, synchronized transmission
Front suspension	Parabolic springs with shock absorbers and stabilizer bars of transversal stability
Rear suspension	Balanced rear truck, parabolic springs, shock absorbers and stabilizer bars in both bridges.
Steering	With hydraulic booster ZF 8098
Brake system	Pneumatic, double-circuit system divided into circuits along the axles, front and rear drum disc brake gears, ABS-anti-lock brake system
Fifth wheel coupling	Fifth wheel coupling JOST JSK 38 C, for the pin with diameter of 88,9 mm (3,5"), height of 190 mm, built-in lubricating system Base plate of 40 mm, manufactured by JOST Vertical load on the fifth wheel coupling - 23 000 kg

# Semitrailer tractor - MAN TGS 26.400 6X4 BLS ADR



# Technical characteristics

Modernized semitrailer tractor, belonging to emission standard Euro 3, meets the international requirements of ADR for the transportation of dangerous cargo, designed to work with tank semi-trailers for transportation of petroleum products, liquefied and compressed gases as a part of tractor and trailer, with total mass to 65 tons. The semitrailer tractor is equipped with powerful fuel-efficient engine D20, with modern fuel supply system Common Rail, 16-step manual gearbox, reinforced rear pneumatic suspension, disc brakes with ABS, electronic monitoring system and comfortable cab with a single berth. In order to ensure high efficiency, high rate of energy usage and low fuel consumption the engine is equipped with EGR - exhaust gas recirculation system with external control.

## Semitrailer tractor - MAN TGS 26.400 6X4 BLS ADR

Engine	D2066LF49 4-cycle turbocharged diesel engine with aftercooler
Engine power	400 h.p. / 294 kW at 1600 ÷ 1900 rpm
Engine torque	1900 N·m at 1000 ÷ 1400 rpm
Number of cylinders	6-cylinder in-line
Engine capacity	10,5 l
Emission standard	Euro 3
Fuel tank capacity	400 l
Vehicle curb weight	8 850 kg
Permissible gross weight of vehicle	26 000 kg
Permissible load on the front axle	7 100 kg
Permissible load on the rear axle	9 500 kg / 9 500 kg
Permissible gross train (truck and trailer) weight	65 000 kg
Overall length	6 995 mm
Overall width	2 500 mm
Overall height inc.of fairing	3 225 mm
Engine clutch	Friction, dry single disk
Gearbox	ZF 16 S 223 DD 16-step, mechanical, synchronized transmission
Front suspension	Parabolic springs with shock absorbers and stabilizer bars
Rear suspension	Rear pneumatic suspensions with shock absorbers and stabilizers on both axles, pneumatic cushioning system ECAS
Steering	With hydraulic booster ZF 8098
Brake system	Pneumatic, double-circuit system divided into circuits along the axles, air dryer heated and braking power automatic adjustment, front and rear disc brake gears; ABS – anti-lock brake system
Fifth wheel coupling	Fifth wheel coupling JOST JSK 37 C, for the pin with diameter of 50,8 mm (2”), height of 185 mm, built-in lubricating system Base plate of 40 mm, manufactured by JOST. Vertical load on the fifth wheel coupling - 17 000 kg

Semitrailer tractor - MAN TGS 26.400 6X4 BLS  
Medium



# Technical characteristics

Semitrailer tractor, belonging to emission standard Euro 3, is assigned for run in regional and long haul transportations, in a truck and trailer combination with total mass to 65 tons. The semitrailer tractor is equipped with powerful fuel-efficient engine D20, with modern fuel supply system Common Rail, 16-step manual gearbox, reinforced rear pneumatic suspension, disc brakes with ABS, electronic monitoring system and comfortable cab with a single berth. In order to ensure high efficiency, high rate of energy usage and low fuel consumption the engine is equipped with EGR - exhaust gas recirculation system with external control. Also it is possible kitting with ADR (Automatic diagnostics and recovery system).

## Semitrailer tractor - MAN TGS 26.400 6X4 BLS Medium

Engine	D2066LF49 4-cycle turbocharged diesel engine with aftercooler
Engine power	400 h.p. / 294 kW at 1600 ÷ 1900 rpm
Engine torque	1900 N·m at 1000 ÷ 1400 rpm
Number of cylinders	6-cylinder in-line
Engine capacity	10,5 l
Emission standard	Euro 3
Fuel tank capacity	590 l
Vehicle curb weight	9 000 kg
Permissible gross weight of vehicle	26 000 kg
Permissible load on the front axle	7 100 kg
Permissible load on the rear axle	9 500 kg / 9 500 kg
Permissible gross train (truck and trailer) weight	65 000 kg
Overall length	6 995 mm
Overall width	2 500 mm
Overall height inc.of fairing	3 620 mm
Engine clutch	Friction, dry single disk
Gearbox	ZF 16 S 223 DD 16-step, mechanical, synchronized transmission
Front suspension	Parabolic springs with shock absorbers and stabilizer bars of transversal stability
Rear suspension	Rear pneumatic suspensions with shock absorbers and stabilizers on both axles, pneumatic cushioning system ECAS
Steering	With hydraulic booster ZF 8098
Brake system	Pneumatic, front and rear disc brake gears, ABS-anti-lock brake system
Fifth wheel coupling	Fifth wheel coupling JOST JSK 37 C, under the pin with diameter of 50.8 mm (2*) height of 150 mm. Base plate -40 mm, manufactured by JOST. Vertical load on the fifth wheel coupling – 17 000 kg

Tipper - MAN TGS 41.400 8X4 BB



# Technical characteristics

Tipper with body space of 20 m<sup>3</sup> with rear unloading, load carrying capacity of 28.5 tons for transportation of inert materials (soil, crushed stone, sand, gravel, asphaltic concrete and etc.). The tipper is equipped with powerful fuel-efficient engine D20 Euro 3, with modern fuel supply system Common Rail, 16-step manual gearbox, reinforced spring suspension, drum type brakes with ABS, electronic monitoring system and comfortable daily cab.

<b>Tipper - MAN TGS 41.400 8X4 BB</b>	
Engine	D2066LF49, 4-cycle turbocharged intercooled diesel engine with inflatable air
Engine power	400 h.p. / 294 kW at 1600 ÷ 1900 rpm
Engine torque	1900 N·m at 1000 ÷ 1400 rpm
Number of cylinders	6-cylinder in-line
Engine capacity	10,5 l
Emission standard	Euro 3
Fuel tank capacity	300 l
Vehicle curb weight	15 000 kg ± 2%
Vehicle load carrying capacity	28 500 kg
Permissible gross weight of vehicle	44 000 kg
Permissible load on the front axle	9 000 kg / 9 000 kg
Permissible load on the rear axle	13 000 kg / 13 000 kg
Overall length	8 980 mm
Overall width	2 550 mm
Overall height laden/unladen	3 360 mm / 3 450 mm
Engine clutch	Friction, dry single disk
Gearbox	ZF 16 S 253 OD 16-step, mechanical, synchronized transmission
Front suspension	Parabolic springs with shock absorbers and stabilizer bars of transverse stability
Rear suspension	Balanced rear bogie with longitudinal jet thrusts, parabolic springs, shock absorbers and stabilizer bars in both bridges.
Steering	With hydraulic booster ZF 8098
Brake system	Pneumatic, double-circuit divided to circuits along the axles, with air drier with heating and braking power automatic adjustment, brake gears of front and rear wheels of drum type, with ABS-anti-lock brake system

# Tipper - MAN TGS 40.400 6X4 BB



# Technical characteristics

Tipper with body space of 18 m<sup>3</sup> with rear unloading, load carrying capacity of 25 tons for transportation of inert materials (soil, crushed stone, sand, gravel, asphaltic concrete and etc.). The tipper is equipped with powerful fuel-efficient engine D20 Euro 2, with modern fuel supply system Common Rail, 16-step manual gearbox, reinforced spring suspension, drum type brakes with ABS, electronic monitoring system and comfortable daily cab.

<b>Tipper - MAN TGS 40.400 6X4 BB</b>	
Engine	D2066LF49, 4-cycle turbocharged intercooled diesel engine with inflatable air
Engine power	400 h.p. / 294 kW at 1600 ÷ 1900 rpm
Engine torque	1900 N·m at 1000 ÷ 1400 rpm
Number of cylinders	6-cylinder in-line
Engine capacity	10,5 l
Emission standard	Euro 2
Fuel tank capacity	300 l
Vehicle curb weight	15 000 kg ± 2%
Vehicle load carrying capacity	25 000 kg
Permissible gross weight of vehicle	40 000 kg
Permissible load on the front axle	9 000 kg
Permissible load on the rear axle	16 000 kg / 16 000 kg
Overall length	8 260 mm
Overall width	2 550 mm
Overall height laden/unladen	3 470 mm / 3 530 mm
Engine clutch	Friction, dry single disk
Gearbox	ZF 16 S 253 OD 16-step, mechanical, synchronized transmission
Front suspension	Parabolic springs with shock absorbers and stabilizer bars of transverse stability
Rear suspension	Balanced high-lifted rear bogie with longitudinal jet thrusts, parabolic springs, shock absorbers and stabilizer bars in both bridges, v-type springs
Steering	With hydraulic booster ZF 8098
Brake system	Pneumatic, double-circuit divided to circuits along the axles, with air drier with heating and braking power automatic adjustment, brake gears of front and rear wheels of drum type, with ABS-anti-lock brake system

Tipper - MAN TGS 33.360 6X4 BB



# Technical characteristics

Tipper with body space of 16 m<sup>3</sup> with rear unloading, load carrying capacity of 20 tons for transportation of inert materials (soil, crushed stone, sand, gravel, asphaltic concrete and etc.) except rock and rough materials. The tipper is equipped with powerful fuel-efficient engine D20 Euro 3, with modern fuel supply system Common Rail, 16-step manual gearbox, reinforced spring suspension, drum type brakes with ABS, electronic monitoring system and comfortable daily cab. In order to ensure high efficiency, high rate of energy usage and low fuel consumption the engine is equipped with EGR - exhaust gas recirculation system with external control.

<b>Tipper - MAN TGS 33.360 6X4 BB</b>	
Engine	D2066LF48, 4-cycle turbocharged intercooled diesel engine with inflatable air
Engine power	360 h.p. / 265 kW at 1400 ÷ 1900 rpm
Engine torque	1800 N·m at 1000 ÷ 1400 rpm
Number of cylinders	6-cylinder in-line
Engine capacity	10,5 l
Emission standard	Euro 3
Fuel tank capacity	300 l
Vehicle curb weight	13 000 kg ± 2%
Vehicle load carrying capacity	20 000 kg
Permissible gross weight of vehicle	33 500 kg
Permissible load on the front axle	9 000 kg
Permissible load on the rear axle	13 000 kg / 13 000 kg
Overall length	7 940 mm
Overall width	2 550 mm
Height to the upper end of the cab	3 270 mm
Engine clutch	Friction, dry single disk
Gearbox	ZF 16 S 253 OD 16-speed, manual, synchronized transmission
Front suspension	Parabolic springs with shock absorbers and stabilizer bars of transverse stability
Rear suspension	Balanced rear bogie with longitudinal jet thrusts, parabolic springs, shock absorbers and stabilizer bars in both bridges
Steering	With hydraulic booster ZF 8098
Brake system	Pneumatic, double-circuit divided to circuits along the axles, with air drier with heating and braking power automatic adjustment, brake gears of front and rear wheels of drum type, with ABS-anti-lock brake system

Curtain van - MAN TGS 26.400 6X4 BL



# Technical characteristics

Multipurpose van with sliding lateral curtains (curtain van) with lateral removable drop sides and rear double-wing hinged door is assigned for transportation of various goods without keeping of special transportation conditions, but protecting the goods from atmospheric condensation, road dust and dirt. Frontal fixed steel wall to the full height of the van, upper non sliding curtain. Frontal curtain is made of a short configuration. Properties: the van with sliding lateral curtains provides convenience for loading-unloading, as lateral curtains may be removed individually, maintaining access to the inner space from more comfortable side.

## Curtain van - MAN TGS 26.400 6X4 BL

Engine	D2066LF49, 4-cycle diesel engine
Engine power	400 h.p. / 294 kW at 1600 ÷ 1900 rpm
Engine torque	1900 N·m at 1000 ÷ 1400 rpm
Number of cylinders	6-cylinder in-line
Engine capacity	10,5 l
Emission standard	Euro 3
Fuel tank capacity	600 l
Vehicle curb weight	11 500 kg ± 2%
Vehicle load carrying capacity	16 000 kg
Permissible gross weight of vehicle	28 000 kg
Permissible load on the front axle	7 500 kg
Permissible load on the rear axle	10 500 kg / 10 500 kg
Overall length	10 960 mm
Overall width	2 550 mm
Overall height laden/unladen	3 910 mm / 3 960 mm
Clutch	Friction, dry single disk, draft type
Gearbox	ZF 16 S 223 DD 16-step mechanical synchronized
Front suspension	Parabolic springs with shock absorbers and stabilizer bars of transversal stability
Rear suspension	Rear pneumatic suspensions, shock absorbers and stabilizer bars on both bridges, pneumatic cushioning system ECAS
Steering	With hydraulic booster ZF 8098
Brake system	Pneumatic, double-circuit, brake gears of drum type, with ABS-anti-lock brake system
<b>Body dimensions</b>	
Body length, inner / exterior	8 450 mm / 8 550 mm
Body width, inner / exterior	2 480 mm / 2 550 mm
Body height inner	2 600 mm
Quantity of euro-pallets accommodated	20 pcs.
Body space	54 m <sup>3</sup>

Canvas-sided platform - MAN TGM 13.280 4X4 BB



# Technical characteristics

TGM vehicle, with all-wheel drive, is designed for movement on the roads, cross-country and off-road conditions. Universal car body-board platform with tarpaulin, with drop sides, designed for transportation of people and various goods without complying with the special conditions of transport. The vehicle is equipped by powerful fuel-efficient engine D08 Euro 3, with modern fuel supply system Common Rail, 9-step manual gearbox, 2-step transfer gearbox, switched forward control, reinforced spring suspension, drum type brakes with ABS, electronic monitoring system and double –berth daily cab.

## Canvas-sided platform - MAN TGM 13.280 4X4 BB

Engine	D0836LFL41, 4-cycle diesel engine
Engine power	280 h.p. / 206 kW at 1850 ÷ 2400 rpm
Engine torque	1100 N·m at 1200 ÷ 1750 rpm
Number of cylinders	6-cylinder in-line
Engine capacity	6,9 l
Emission standard	Euro 3
Fuel tank capacity	150 l
Vehicle load carrying capacity	7 100 kg
Vehicle curb weight	6 450 kg
Permissible gross weight of vehicle	13 500 kg
Permissible load on the front axle	6 300 kg
Permissible load on the rear axle	7 800 kg
Overall length	8 120 mm
Overall width	2 500 mm
Height to the upper end of the cab	3 120 mm
Clutch	Friction, dry single disk, draft type
Gearbox	ZF 9S-1310 OD, 9-speed, manual, synchronized transmission
Front suspension	Parabolic springs with shock absorbers
Rear suspension	Parabolic springs
Steering	With hydraulic booster ZF 8098
Brake system	Pneumatic, double-circuit system, brake gears of all wheels of drum type with ABS – anti-lock brake system

## Body dimensions

Body length, inner / exterior	5 960 mm / 5 860 mm
Body width, inner / exterior	2 490 mm / 2 400 mm
Body height, inner	2 000 mm
Loading height laden / unladen	1 310 mm / 1 420 mm
Body space	26 m <sup>3</sup>

Transit concrete mixer - MAN TGS 41.400 8X4 BB



# Technical characteristics

Transit concrete mixer with nominal capacity of 10 m<sup>3</sup> with back dumping by hydraulic drive, is assigned for delivery of ready concrete mix to consumers keeping its properties on route and unloading into laying point or in concrete transfer equipment. Preservation and homogeneity of concrete mix in the court of its transportation is ensured by mixer rotation. Helical blades are fixed inside the mixer. In the course of one direction rotating (when loading and transportation) the blades drive the mix deeper into the mixer. In reverse rotation (when unloading) there is used a mechanism "Archimedean screw" to unload the mix. The vehicle is equipped with powerful fuel-efficient engine D20 Euro 2, with modern fuel supply system Common Rail, 16-step manual gearbox, reinforced spring suspension, drum type brakes with ABS, electronic monitoring system and comfortable daily cab.

<b>Transit concrete mixer - MAN TGS 41.400 8X4 BB</b>	
Engine	D2066LF06, 4-cycle diesel engine
Engine power	400 h.p./ 294 kW at 1600-1900 rpm
Engine torque	1900 N·m at 1000 ÷ 1400 rpm
Number of cylinders	6-cylinder in-line
Engine capacity	10,5 l
Emission standard	Euro 2
Fuel tank capacity	300 l
Vehicle curb weight	15 000 kg ± 2%
Maximum weight of concrete transported	25 000 kg
Permissible gross weight of vehicle	41 000 kg
Permissible load on the front axle	7 500 kg / 7 500 kg
Permissible load on the rear axle	13 000 kg / 13 000 kg
Rated mixer volume	10 m <sup>3</sup>
Overall length	9 350 mm
Overall width	2 500 mm
Overall height	3 840 mm
Clutch	Friction, dry single disk
Gearbox	ZF 16 S 252 OD, 16-step, mechanical
Front suspension	Parabolic springs with shock absorber and stabilizer bars of transverse stability
Rear suspension	Balanced rear bogie, parabolic springs, shock absorbers and stabilizer bars on both bridges
Steering	With hydraulic booster ZF 8098
Brake system	Pneumatic, double-circuit, with air drier with heating and braking power automatic adjustment, brake gears of all wheels of drum type, with ABS-anti-lock brake system

Transit concrete mixer - MAN TGS 33.360 6X4 BB



# Technical characteristics

Transit concrete mixer with nominal capacity of 8 m<sup>3</sup> with back dumping by hydraulic drive, is assigned for delivery of ready concrete mix to consumers keeping its properties on route and unloading into laying point or in concrete transfer equipment. Preservation and homogeneity of concrete mix in the court of its transportation is ensured by mixer rotation. Helical blades are fixed inside the mixer. In the course of one direction rotating (when loading and transportation) the blades drive the mix deeper into the mixer. In reverse rotation (when unloading) there is used a mechanism "Archimedean screw" to unload the mix. The vehicle is equipped with powerful fuel-efficient engine D20 Euro 3, with modern fuel supply system Common Rail, 16-step manual gearbox, reinforced spring suspension, drum type brakes with ABS, electronic monitoring system and comfortable daily cab.

<b>Transit concrete mixer - MAN TGS 33.360 6X4 BB</b>	
Engine	D2066LF48, 4-cycle diesel engine
Engine power	360 h.p. / 265 kW at 1400 ÷ 1900 rpm
Engine torque	1800 N·m at 1000 ÷ 1400 rpm
Number of cylinders	6-cylinder in-line
Engine capacity	10,5 l
Emission standard	Euro 3
Fuel tank capacity	300 l
Vehicle curb weight	13 300 kg ± 2%
Maximum weight of concrete transported	19 200 kg
Permissible gross weight of vehicle	33 000 kg
Permissible load on the front axle	7 500 kg
Permissible load on the rear axle	13 000 kg / 13 000 kg
Rated mixer volume	8 m <sup>3</sup>
Overall length	8 870 mm
Overall width	2 550 mm
Overall height	3 770 mm
Clutch	Friction, dry single disk
Gearbox	ZF 16 S 252 OD, 16-step, mechanical
Front suspension	Parabolic springs with shock absorber and stabilizer bars of transverse stability
Rear suspension	Balanced rear bogie with longitudinal jet thrusts, parabolic springs
Steering	With hydraulic booster ZF 8098
Brake system	Pneumatic, double-circuit, with air drier with heating and braking power automatic adjustment, brake gears of all wheels of drum type, with ABS-anti-lock brake system

Concrete pump - MAN TGS 41.400 8X4 BB



# Technical characteristics

Concrete pump is assigned for receiving freshly-mixed concrete from specialized concrete transfer equipment and is supply in horizontal and vertical direction to the point of laying. The vehicle is equipped with powerful fuel-efficient engine D20 Euro 2, with modern fuel supply system Common Rail, 16-step manual gearbox, spring suspension, drum type brakes with ABS, electronic monitoring system and comfortable daily cab.

<b>Concrete pump - MAN TGS 41.400 8X4 BB</b>	
Engine	D2066LF06-4-cycle diesel engine
Engine power	400 h.p. / 294 kW at 1600-1800 rpm
Engine torque	1900 N·m at 1000 ÷ 1400 rpm
Number of cylinders	6-cylinder in-line
Engine capacity	10,5 l
Emission standard	Euro 2
Fuel tank capacity	400 l
Vehicle curb weight	35 900 kg ± 2 %
Overall length	12 000 mm
Overall width	2 550 mm
Overall height laden	3 980 mm
Clutch	Friction, dry single disk
Gearbox	ZF 16 S 252 OD, 16-step, mechanical
Front suspension	Parabolic springs with shock absorber and stabilizer bars of transverse stability
Rear suspension	Balanced rear bogie, parabolic springs, shock absorbers and stabilizer bars on both bridges
Steering	With hydraulic booster ZF 8098
Brake system	Pneumatic, double-circuit system with air dryer heated and braking power automatic adjustment, brake gears of all wheels of drum type, with ABS – anti-lock brake system
<b>Technical data pump</b>	
Maximum performance	170 m <sup>3</sup> /h
Feed pressure	87,5 bar
Throw of pump	47,4 m
Distance of throw	43,3 m
Boom rotation	370°
Volume of oil tank	600 l
Volume of water tank	400 l
Volume of receiving bin	600 l

Crane truck - MAN TGS 41.400 8X4 BB



# Technical characteristics

Crane truck with load carrying capacity of 50 t is assigned for loading/unloading, constructing/installation, emergency works at the distributed places. The main advantage of crane trucks is high portability that ensures possibility to move them efficiently to the places located far removed from each other. A feature of the crane equipment is a boom of a new generation, with the lowest mass in comparison with its analogs. Usage of reliable modern elements and mechanisms in the crane equipment, comfortable and safe working conditions for crane operator, wide selection for kiting and options of crane, raise effectiveness of cranes exploitation in different spheres and branches of buildings.

<b>Crane truck - MAN TGS 41.400 8X4 BB</b>	
Engine	D2066LF06, 4-cycle diesel engine
Engine power	400 h.p. / 294 kW at 1600 ÷ 1900 rpm
Engine torque	1900 N·m at 1000 ÷ 1400 rpm
Number of cylinders	6-cylinder in-line
Engine capacity	10,5 l
Emission standard	Euro 2
Fuel tank capacity	300 l
Crane truck curb weight	32 000 kg
Maximum net load carrying capacity	50 000 kg
Permissible load on the front axle	8 000 kg / 8 000 kg
Permissible load on the rear axle	13 000 kg / 13 000 kg
Boom reach	10,5 ÷ 40 m
Overall length	12 000 mm
Overall width	2 500 mm
Overall height	3 930 mm
Clutch	DTE 430, friction, dry single disk, draft type
Gearbox	ZF 16 S 253 OD, 16-step, mechanical, synchronized
Front suspension	Parabolic springs with shock absorbers and stabilizer bars of transverse stability
Rear suspension	Balanced rear bogie with longitudinal jet thrusts, parabolic springs, shock absorbers and stabilizer bars in both bridges.
Steering	With hydraulic booster ZF 8098
Brake system	Pneumatic, double-circuit, with air drier with heating and braking power automatic adjustment, brake gears front wheels disc and rear drum type, with ABS-anti-lock brake system

# Garbage compactor - MAN TGS 26.360 6X4 BL



# Technical characteristics

Garbage compactors Faun Variopress 525 with rear unloading and body space of 25 m<sup>3</sup>, are assigned for mechanized collection of solid domestic waste with density up to 0.43 t/m<sup>3</sup> from metal and plastic containers of all types with volume up to 1.1 m<sup>3</sup> of their compaction, transportation and mechanized unloading at recycling spots. The vehicle is equipped with powerful fuel-efficient engine D20 Euro 3, with modern fuel supply system Common Rail, 16-step manual gearbox, reinforced rear pneumatic suspension, disk brakes with ABS, electronic monitoring system and comfortable cab.

<b>Garbage compactor - MAN TGS 26.360 6X4 BL</b>	
Engine	D2066LF48 4-cycle diesel engine
Engine power	360 h.p. / 265 kW at 1400 ÷ 1900 rpm
Engine torque	1800 N·m at 1000 ÷ 1400 rpm
Number of cylinders	6-cylinder in-line
Engine capacity	10,5 l
Emission standard	Euro 3
Fuel tank capacity	400 l
Vehicle curb weight	15 600 kg ± 2%
Maximum weight of concrete transported	10 400 kg
Permissible gross weight of vehicle	26 000 kg
Permissible load on the front axle	7 100 kg
Permissible load on the rear axle	9 500 kg / 9 500 kg
Overall length	10 525 mm
Overall width	2 550 mm
Overall height laden / unladen	3 440 mm / 3 480 mm
Clutch	Friction, dry single disk
Gearbox	ZF 16 S 252 OD, 16-step, mechanical
Front suspension	Parabolic springs with shock absorber and stabilizer bars of transverse stability
Rear suspension	Pneumatic rear suspensions, shock absorbers and stabilizer bars on both bridges
Steering	With hydraulic booster ZF 8098
Brake system	Pneumatic, double-circuit, with air drier with heating and braking power automatic adjustment, brake gears of all wheels of drum type, with ABS-anti-lock brake system

Hook lift truck - MAN TGS 41.360 8X4 BB



# Technical characteristics

Hook lift truck with capture system is assigned for fulfillment of intensive traffic works with usage of different interchangeable bodies, press containers up to 27 m<sup>3</sup> and other adaptors. The vehicle is able to remove the body with hook lift system and leave it on site for loading/unloading, lifting and setting of laden body on the chassis. Hook lift truck produces unloading of tipper body. The vehicle is equipped with powerful fuel-efficient engine D20, with modern fuel supply system Common Rail, 16-step manual gearbox, reinforced spring suspension, drum type brakes with ABS, electronic monitoring system and comfortable daily cab.

<b>Hook lift truck - MAN TGS 41.360 8X4 BB</b>	
Engine	D2066LF48, 4-cycle diesel engine
Engine power	360 h.p. / 265 kW at 1400 ÷ 1900 rpm
Engine torque	1800 N·m at 1000 ÷ 1400 rpm
Number of cylinders	6-cylinder in-line
Engine capacity	10,5 l
Emission standard	Euro 3
Fuel tank capacity	300 l
Length hook system	5 800 mm
The height of the capture hook	1 570 mm
Length of the loaded containers	5 950 ÷ 6 800 mm
Curb weight of the vehicle without container	14 100 kg ± 2%
The lifting capacity of the hook system	24 000 kg
Permissible gross weight of vehicle	41 000 kg
Permissible load on the front axle	7 500 kg / 7 500 kg
Permissible load on the rear axle	13 000 kg / 13 000 kg
Overall length	8 670 mm
Overall width	2 550 mm
Overall height	4 000 mm
Clutch	Friction, dry single disk
Gearbox	ZF 16 S 222 OD, 16-step, mechanical, synchronized
Front suspension	Parabolic springs with shock absorbers and stabilizer bars of transversal stability
Rear suspension	Balanced rear bogie with longitudinal jet thrusts, parabolic springs
Steering	With hydraulic booster ZF 8098
Brake system	Pneumatic, double-circuit, with air drier with heating and braking power automatic adjustment, brake gears of all wheels of drum type, with ABS-anti-lock brake system

# Sweeper machine - MAN TGM 18.240 4X2 BL



# Technical characteristics

Vacuum sweeper machine is assigned for cleaning the urban roads, streets, highways, squares and airports with asphalt or cement coating with moistening the being swept surface and absorption of dust, with transportation of wastes into garbage bin and its mechanical unloading. The equipment includes: tank-waste container volume 7 m<sup>3</sup>, system for absorption and supplying the waste to bunker, off-line engine for driving all of working parts, water tank, moistening system, the right and left tray brushes, cylindrical pickup brush, hydraulic system. Drive of working parts – hydraulic. Control of working parts of the equipment is made with remote control from driver's cab.

<b>Sweeper machine - MAN TGM 18.240 4X2 BL</b>	
Engine	D0836LFL40, 4-cycle diesel engine
Engine power	240 h.p. / 176 kW at 1850 ÷ 2400 rpm
Engine torque	925 N·m at 1200 ÷ 1800 rpm
Number of cylinders	6-cylinder in-line
Engine capacity	6,9 l
Emission standard	Euro 3
Fuel tank capacity	150 l
The water tank	1 500 l
Bunker capacity	7 m <sup>3</sup>
Load capacity / without water	6 935 kg / 8 435 kg
Curb weight of car chassis	11 065 kg
Permissible gross weight of vehicle	18 000 kg
Permissible load on the front axle	7 100 kg
Permissible load on the rear axle	11 500 kg
Overall length	7 600 mm
Overall width	2 500 mm
Overall height	3 120 mm
Clutch	Friction, dry single disk
Gearbox	ZF 9S 1110 DD, 9-step, mechanical, synchronized
Front suspension	Parabolic springs with shock absorbers and stabilizer bars of transversal stability
Rear suspension	Pneumatic suspension with shock absorbers and stabilizer bars of transversal stability
Steering	With hydraulic booster ZF 8098
Brake system	Pneumatic, double-circuit, with air drier with heating and braking power automatic adjustment, brake gears of all wheels of drum type, with ABS-anti-lock brake system

Water tanker - MAN TGM 13.240 4X4 BB



# Technical characteristics

Tanker, on the basis of the cross-country capacity chassis of MAN TGM of 13.240 4x4 BB, is intended for transportation and short-term storage of drinking water. The vehicle is calculated for operation by all views of roads and cross-country conditions. The tanker is equipped with D08 Euro 3 engine with Common Rail fuel supply system, 9-step mechanical gearbox, 2-staged transfer box, connected front drive, reinforced spring suspension, drum brakes with ABS, electronic monitoring systems and double-seat daily cab.

<b>Water tanker - MAN TGM 13.240 4X4 BB</b>	
Engine	D0836LFL40, 4-cycle diesel engine
Engine power	240 h.p. / 176 kW at 1850 ÷ 2400 rpm
Engine torque	925 N·m at 1200 ÷ 1800 rpm
Number of cylinders	6-cylinder in-line
Engine capacity	6,9 l
Emission standard	Euro 3
Fuel tank capacity	150 l
Vehicle curb weight	7 500 kg ± 2 %
Vehicle load carrying capacity	6 000 kg
Permissible gross weight of vehicle	13 500 kg
Permissible load on the front axle	6 300 kg
Permissible load on the rear axle	7 800 kg
Overall length	6 990 mm
Overall width	2 500 mm
Overall height	3 160 mm
Clutch	Friction, dry single disk
Gearbox	ZF-9S-1310 OD, 9-step, mechanical, synchronized
Front suspension	Parabolic springs with shock absorbers and stabilizer bars of transversal stability
Rear suspension	Parabolic springs with shock absorbers and stabilizer bars of transversal stability
Steering	With hydraulic booster ZF 8098
Brake system	Pneumatic, double-circuit, brake gears of all wheels of drum type, with ABS-anti-lock brake system
<b>Tanker and equipment characteristics</b>	
Tank capacity	6 000 l
Pump capacity	550 l/min
Filling time, no more	25 min
Tanker discharging time via pump/gravity flow	12 min / 25 min

Rescue vehicle - MAN TGM 13.240 4X4 BB



# Technical characteristics

The rescue vehicle vehicle on the basis of the of cross-country capacity chassis of MAN TGM 13.240 4X4 BB is intended for carrying out repair work on the destination and transportation of equipment, tools and devices, and also for operational delivery of a repairmen team to hardly accessible sites of place and accommodation for a long time. The rescue vehicle has two compartments divided by a partition with a door: passenger and household.

<b>Rescue vehicle - MAN TGM 13.240 4X4 BB</b>	
Engine	D0836LFL40, 4-cycle diesel engine
Engine power	240 h.p. / 176 kW at 1850 ÷ 2400 rpm
Engine torque	925 N·m at 1200 ÷ 1800 rpm
Number of cylinders	6-cylinder in-line
Engine capacity	6,9 l
Emission standard	Euro 3
Fuel tank capacity	150 l
Vehicle curb weight	10 700 kg ± 2 %
Vehicle load carrying capacity	2 800 kg
Permissible gross weight of vehicle	13 500 kg
Permissible load on the front axle	6 300 kg
Permissible load on the rear axle	7 800 kg
Overall length	7 750 mm
Overall width	2 500 mm
Overall height	3 750 mm
Clutch	Friction, dry single disk
Gearbox	ZF-9S-1310 OD, 9-step, mechanical, synchronized
Front suspension	Parabolic springs with shock absorbers and stabilizer bars of transversal stability
Rear suspension	Parabolic springs with shock absorbers and stabilizer bars of transversal stability
Steering	With hydraulic booster ZF 8098
Brake system	Pneumatic, double-circuit, brake gears of all wheels of drum type, with ABS-anti-lock brake system
<b>Body sizes</b>	
Length of body superstructure	5 460 mm
Internal height of a body	2 110 mm
Landing height of a body	1 350 mm

Refuel tank truck - TGM 13.240 4X4 BB



# Technical characteristics

The tanker is intended for transportation of combustible, short-term storage and filling with filtered fuel and oils in field conditions with counting of amount of the given fuel. The truck is intended for operations in out-of-class, civil and military aviation I, II, III classes of airports, also for transportation of aviation fuel across roads of general purpose.

## Refuel tank truck - TGM 13.240 4X4 BB

Engine	D0836LFL40, 4-cycle diesel engine
Engine power	240 h.p. / 176 kW at 1850 ÷ 2400 rpm
Engine torque	925 N·m at 1200 ÷ 1800 rpm
Number of cylinders	6-cylinder in-line
Engine capacity	6,9 l
Emission standard	Euro 3
Fuel tank capacity	200 l
Tank volume	4 m <sup>3</sup>
Time of filling of the tank the pump	18 min.
Time of draining of the tank the pump	15 min.
Permissible gross weight of vehicle	13 000 kg
Permissible load on the front axle	6 300 kg
Permissible load on the rear axle	7 800 kg
Overall length	7 500 mm
Overall width	2 500 mm
Overall height	3 170 mm
Clutch	Friction, dry single disk
Gearbox	ZF 9S 1110 DD,9-step, mechanical, synchronized
Front suspension	Parabolic springs with stabilizer bar
Rear suspension	Parabolic springs with stabilizer bar
Steering	With hydraulic booster ZF 8098
Brake system	Pneumatic, double-circuit, braking mechanisms all wheels-drum type, with ABS – anti-lock brake system

Aviation refuel tank truck - TGS 33.400 6X4 BB



# Technical characteristics

The airfield fuel truck is assigned for filling of aircrafts with the filtered aviation fuel in the pure form as in the form of mixture with crystallization-proof liquid. The truck is intended for operations in out-of-class, civil and military aviation I, II, III classes of airports, also for transportation of aviation fuel across roads of general purpose.

## Aviation refuel tank truck - TGS 33.400 6X4 BB

Engine	D2066LFL48, 4-cycle diesel engine
Engine power	240 h.p. / 176 kW at 1850 ÷ 2400 rpm
Engine torque	925 N·m at 1200 ÷ 1800 rpm
Number of cylinders	6-cylinder in-line
Engine capacity	10,5 l
Emission standard	Euro 3
Fuel tank capacity	400 l
Tank volume	22 m <sup>3</sup>
Permissible gross weight of vehicle	33 000 kg
Permissible load on the front axle	7 500 kg
Permissible load on the rear axle	13 000 kg / 13 000 kg
Overall length	9 900 mm
Overall width	2 500 mm
Overall height	3 225 mm
Clutch	Friction, dry single disk
Gearbox	ZF 9S 1110 DD, 9-step, mechanical, synchronized
Front suspension	Parabolic springs
Rear suspension	Balanced rear bogie, parabolic springs
Steering	With hydraulic booster ZF 8098
Brake system	Pneumatic, with shock absorber and stabilizer bar of transverse stability

Airfield sweeper - TGS 33.360 6X4 BB



# Technical characteristics

The sweeper machine, belongs to means of mechanization of productions in aircraft, but its scope of application is wider as it is intended for cleaning of hard surfaces of airfields of moisture, i.e. prevention of formation of ice, blowing of snow and foreign objects due to kinetic influence of a gas stream of the aviation engine, from the generator of air flow. The sweeper machine is equipped with the aviation VK-1 engine.

<b>Airfield sweeper - TGS 33.360 6X4 BB</b>	
Engine	D2066LFL48, 4-cycle diesel engine
Engine power	360 h.p. / 265 kW at 1400 ÷ 1900 rpm
Engine torque	1800 N·m at 1000 ÷ 1400 rpm
Number of cylinders	6-cylinder in-line
Engine capacity	10,5 l
Emission standard	Euro 3
Fuel tank capacity	300 l
Vehicle curb weight	9 170 kg
Vehicle load carrying capacity	20 000 kg
Permissible gross weight of vehicle	33 000 kg
Permissible load on the front axle	7 500 kg
Permissible load on the rear axle	13 000 kg / 13 000 kg
Overall length	7 490 mm
Overall width	2 500 mm
Overall height	3 225 mm
Clutch	Friction, dry single disk
Gearbox	ZF 16 S252 OD, 16-step, mechanical, synchronized
Front suspension	Parabolic springs with shock absorbers and stabilizer bars of transversal stability
Rear suspension	Parabolic springs, balanced rear bogie, with shock absorbers and stabilizer bars on both bridges.
Steering	With hydraulic booster ZF 8098
Brake system	Pneumatic, double-circuit system divided into circuits along the axles, with air drier with heating and braking power automatic adjustment, brake gears of front and rear wheels of drum type, with ABS-anti-lock brake system

# Ladder truck - TGS 26.400 6X4 BL



# Technical characteristics

Ladder truck is assigned for:

delivery to a venue of rescue, fire-prevention and emergency works of combat estimation, and required fire-technical arming, as well as equipment on height up to 52 m;

- supply of fire extinguishing substances from ladder top;

- use as the load-lifting crane at the put set of knees.

## Ladder truck - TGS 26.400 6X4 BL

Engine	D2066LFL06, 4-cycle diesel engine
Engine power	400 h.p. /294 kW at 1600-1800 rpm
Engine torque	1900 N·m at 1000 ÷ 1400 rpm
Number of cylinders	6-cylinder in-line
Engine capacity	6,9 l
Emission standard	Euro 3
Fuel tank capacity	400 l
Maximum working height of raising of an arrow	52 m
Ladder loading capacity at its use as the crane	2 000 kg
Loading capacity of a removable cradle and/or elevator not less	200 kg
Permissible gross weight of vehicle	24 500 kg ± 2 %
Permissible load on the front axle	7 500 kg
Permissible load on the rear axle	11 500 kg / 11 500 kg
Overall length	12 000 mm
Overall width	2 550 mm
Overall height	3 900 mm
Clutch	MFZ 430 friction, dry single disk
Gearbox	ZF 16 S 222 DD, 16-step, mechanical, synchronized
Front suspension	Parabolic springs
Rear suspension	Air Suspension
Steering	With hydraulic booster ZF 8098
Brake system	Pneumatic, double-circuit, with air drier with heating and braking power automatic adjustment, brake gears of front and rear wheels of drum type.

Fire truck - MAN TGM 13.240 4X4 BB



# Technical characteristics

The tanker fire of 4 m<sup>3</sup> on the basis of the cross-country capacity biaxial chassis of TGM 4X4 with all driving wheels, is intended for suppression of fires and carrying out rescue efforts. It serves for delivery of staff in number of 6 people to the fire place, fire extinguishing means (water, frother), fire and technical arms and the rescue tool.

Assignment:

- suppressions of fires by water from the tank, open reservoir, water supply system or foreign capacity through: carriage trunk and (or) manual trunks;
- suppressions of fires by air and mechanical foam with use of frother from the tank or foreign capacity through: carriage trunk and (or) manual foamers;

<b>Fire truck - MAN TGM 13.240 4X4 BB</b>	
Engine	D0836LFL40, 4-cycle diesel engine
Engine power	240 h.p. / 176 kW at 1950-2400 rpm
Engine torque	925 N·m at 1200 ÷ 1800 rpm
Number of cylinders	6-cylinder in-line
Engine capacity	6,9 l
Emission standard	Euro 3
Fuel tank capacity	150 l
Vehicle load carrying capacity	13 500 kg
Permissible load on the front axle	6 300 kg
Permissible load on the rear axle	7 800 kg
Overall length	8 000 mm
Overall width	2 500 mm
Overall height	3 380 mm
Clutch	Friction, dry single disk
Gearbox	ZF 9S 1310 OD, 9-step, mechanical, synchronized
Front suspension	Parabolic springs, with shock absorber and stabilizer bar of transverse stability
Rear suspension	Parabolic springs, with shock absorber and stabilizer bar of transverse stability
Steering	With hydraulic booster ZF 8098
Brake system	Pneumatic, double-circuit, brake gears of all wheels of drum type, with ABS anti-lock brake system
<b>Characteristic</b>	
Capacity of a water tank	4 000 l
Tank for frother	400 l
Pump capacity	40 l/sec.

Crew bus - MAN TGM 13.240 4X4 BB

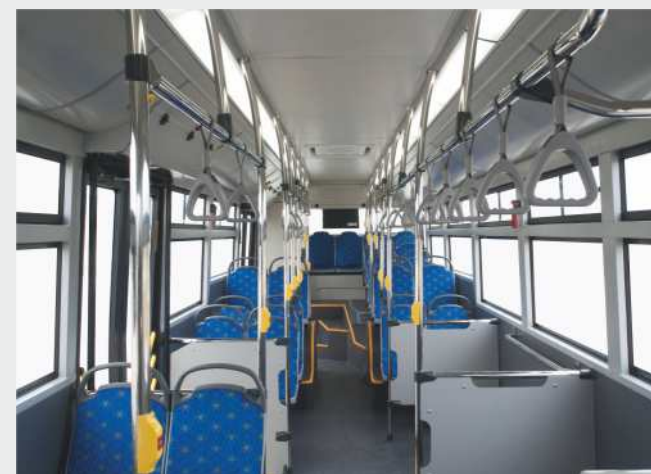


# Technical characteristics

Crew bus on the basis of cross-country capacity is assigned for delivery of crew to spot of conducting shift, emergency, construction, repair and other works under off-road conditions. Bus-chassis is equipped with engine D08 Euro 3, with modern fuel supply system Common Rail, 9-step manual gearbox, 2-step transfer box, switched frontal drive, reinforced spring suspension, drum brakes with ABS, electronic monitoring system and double-seat daily cab.

<b>Crew bus - MAN TGM 13.240 4X4 BB</b>	
Engine	D0836LFL40, 4-cycle diesel engine
Engine power	240 h.p. / 176 kW at 1850 ÷ 2400 rpm
Engine torque	925 N·m at 1200 ÷ 1800 rpm
Number of cylinders	6-cylinder in-line
Engine capacity	6,9 l
Emission standard	Euro 3
Fuel tank capacity	150 l
Vehicle curb weight	9 000 kg ± 2 %
Vehicle load carrying capacity	4 000 kg
Permissible gross weight of vehicle	13 500 kg
Permissible load on the front axle	6 300 kg
Permissible load on the rear axle	7 800 kg
Overall length	8 050 mm
Overall width	2 500 mm
Overall height	3 160 mm
Clutch	Friction, dry single disk
Gearbox	ZF 9S 1310 OD, 9-step, mechanical, synchronized
Front suspension	Parabolic springs, with shock absorber and stabilizer bar of transverse stability
Rear suspension	Parabolic springs, with shock absorber and stabilizer bar of transverse stability
Steering	With hydraulic booster ZF 8098
Brake system	Pneumatic, double-circuit, brake gears of all wheels of drum type, with ABS anti-lock brake system
<b>Body sizes</b>	
Length of the body	5 500 mm
Internal height of a body	1 975 mm
Length of body superstructure	1 350 mm

# City Bus - MAN A22 CNG

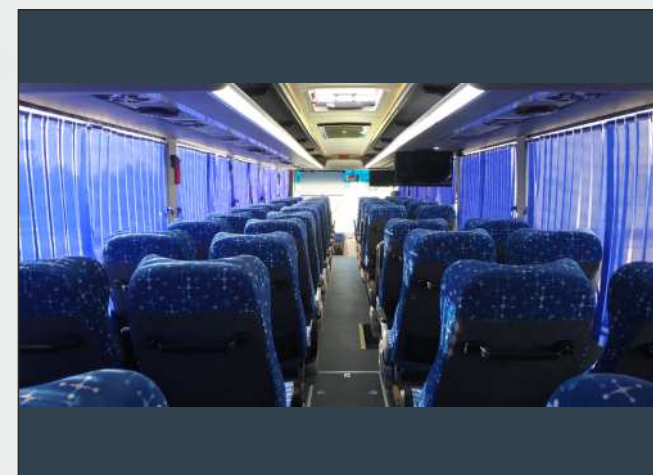
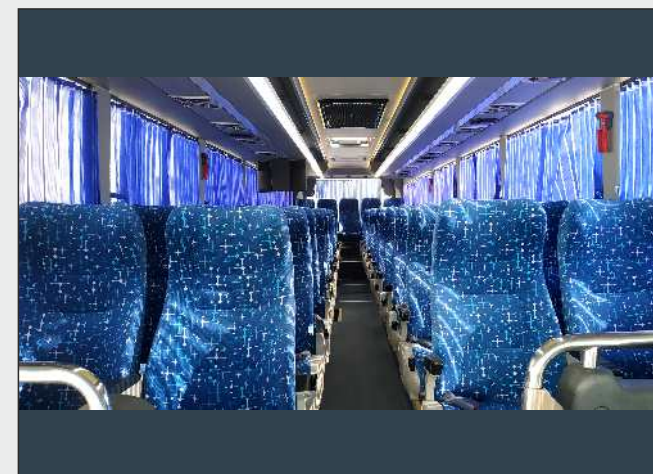
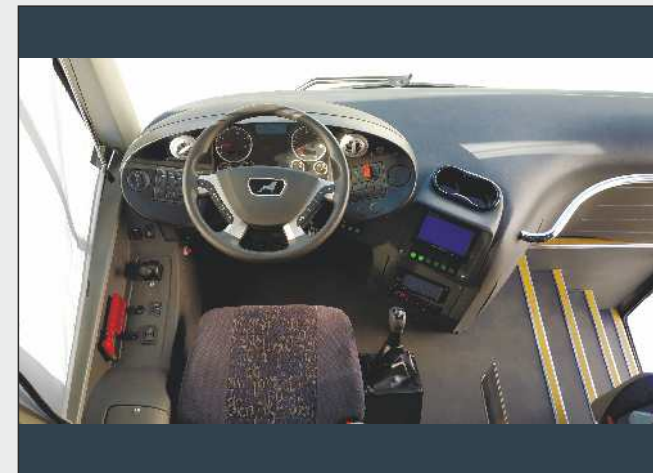


# Technical characteristics

City bus with low floor MAN A22 fully meets demanding requirements of city route vehicle. MAN Buses are – a combination of transportation capacity, length, of a car conception that correctly meets the demands of customers (number of doors, design of salon, low floor structure, cab Low Floor with low placement of doors) and different types of drive. The bus is distinguished with high comfort, safety as well as invariable economy.

<b>City Bus - MAN A22 CNG</b>	
Engine	Natural gas engine (EEV) E2876 LUH03
Engine power	310 h.p. / 228 kW at 2000 rpm
Engine torque	1250 N·m at 1000 - 1700 rpm
Engine capacity	12 816 cm <sup>3</sup>
Emission standard	Euro 5
Supply systems	4 gas cylinders of 294 l total capacity of 1176 l
Permissible gross weight	19 500 kg
Permissible load on the front axle	6 300 kg
Permissible load on the rear axle	11 600 kg
Overall length	12 000 mm
Overall width	2 550 mm
Overall height	3 410 mm
Gearbox	ZF 6 AP 1400 EcoLife automatic gearbox with integrated retarder
Front suspension / Rear suspension	Electronically controlled chassis regulation via ECAS air suspension system with travel sensor: Front axle – 1, rear axle - 2
Steering	Left hand drive vehicle, with hydraulic booster
Brake system	Parking brake and emergency braking system
<b>City bus specification</b>	
Passenger capacity	90
The number of seats	30
Standing passenger capacity	60
Equipped with an automatic fire extinguisher system at engine compartment	
Low floor is designed for maximum comfort of passenger boarding	
6 units of heaters ensure a warm climate during the winter season	
Ramp for easy entrance to the bus for people with disabilities	By order
Air conditioning	By order

# MAN Lion's Coach RR3



# Technical characteristics

Intercity bus MAN Coach RR3 will take every passenger to another country and to distant cities - safely, comfortably and in a stylish atmosphere. For comfortable trips this tourist bus offers maximum comfort, high safety and exemplary environmental friendliness. In addition, it is distinguished for its powerful engines and dynamic properties. In terms of economy and design, the MAN Coach RR3 also features the best performance - without any additional investment.

<b>MAN Lion's Coach RR3</b>	
Engine	Six-cylinder in-line diesel engine D2066
Engine power	350 h.p. / 257 kW at 1900 rpm
Engine torque	1750 N·m at 1000 ÷ 1400 rpm
Engine capacity	10,5 l
Emission standard	Euro 3
Supply systems	2 fuel tanks for 200 l
Permissible gross weight	19 700 kg
Permissible load on the front axle	7 100 kg
Permissible load on the rear axle	12 600 kg
Overall length	12 000 mm
Overall width	2 500 mm
Overall height	3 700 mm
Gearbox	6-speed EcoShift, synchronized, mechanically-controlled gearbox
Front suspension / Rear suspension	ECAS air suspension system, raising and lowering leading altitude
Steering	Left hand drive vehicle, with hydraulic booster
Brake system	With electronic control of EBS, including ABS / ASR function.
<b>Options</b>	
Passenger capacity	47 + 1 driver's seat + 1 for spare driver / guide
Luggage compartment capacity	7 m <sup>3</sup>
Equipped with an automatic fire extinguisher system at engine compartment	
Winter package: electric cold start relief device, heated water separator, fuel filter heater, dehumidifier air braking system with heating	
Video registration and multimedia - the video registration system includes 3 cameras (with recording) located inside the cabin of the bus (location at the discretion of the customer), 1 rear view camera (without recording), Video recording unit (4 channel), 7 inch driver screen and hard disk on 500 GB for data recording; Multimedia system includes 2 LCD screens for passengers, stereo speakers (9 pcs.), Remote control, microphone, Support for CD, MP3, DVD, MP4, USB.	
Air conditioning	





MAN

M AN 480

MAN

M AN 340

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