

Vehicle description for: TGM 18.320 4x4 BB CH

Vehicle standards

Product family	The new MAN Truck Generation
Model & Variant	TGM 18.320 4x4 BB CH
MAN code	IOLFOBRV
Emission class	EURO6
Engine family	D08R6
Engine output	235 kW
Vehicle type	Vehicle type, platform truck and chassis (LK)
Body type	192 Fire service vehicle, tender fire-fighting vehicle
Cab	DN cab: the crew cab (narrow, extra long, normal height)
Main wheel distance	4500 mm
Overhang	2325 mm
Steering configuration	Left

Vertical Load

	National Registration	Technical Load
Gross weight	18,000 kg	18,000 kg
Front axle	7,500 kg	7,500 kg
Rear axle	11,500 kg	11,500 kg

Horizontal Load

	National Registration	Technical Load
Trailer Load	2,000 kg	19,500 kg
Gross train weight	19,500 kg	33,000 kg

The printed images in this offer are for explanatory purposes and may differ from the actual configuration.
For further product information on the tire selection "selectively", please contact our sales staff.

Vehicle characteristics

Basic characteristics

<input type="checkbox"/> Municipal vehicle version	0PBX1
<input type="checkbox"/> Chassis	0P2U9
<input type="checkbox"/> Chassis class, light/medium	0P2UB
<input type="checkbox"/> Destination: Moldova, Republic (MD)	0P3HK
<input type="checkbox"/> Merchant tonnage 18 t	0P8LF
<input type="checkbox"/> Basic layout, weight-optimised vehicle	0PLSK
<input type="checkbox"/> Application area, on road simple (R1)	0PLSA
<input type="checkbox"/> Frame type, high	0P2TP
<input type="checkbox"/> Vehicle type, platform truck and chassis (LK)	0P2UQ
<input type="checkbox"/> Left-hand-drive	0P3AS
<input type="checkbox"/> Right-hand traffic	0P3F5
<input type="checkbox"/> Vehicle documentation in Romanian	0P2LO
<input type="checkbox"/> Labelling in English	0P8NM
<input type="checkbox"/> Cab position 480 mm (distance from frame lower edge to cab floor)	0PHBC

Registration

<input type="checkbox"/> Vehicle approval, N3G class	0P3JS
<input type="checkbox"/> Maximum speed limiter, 100 km/h, electronic, engine speed regulation	0P2UD
<input type="checkbox"/> VO (EU) 2021/535/III (affixing license plate) complies with	0PJW6
<input type="checkbox"/> Maximum vehicle noise level not defined	0P2YN
<input type="checkbox"/> Vehicle classification in accordance with regulation (EU) 2018/858	0PKAW

Documents

<input type="checkbox"/> Without registration documentation, national	0P3B0
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Application scope / transport tasks

<input type="checkbox"/> Distribution transport, general cargo	0P6WA
<input type="checkbox"/> 192 Fire service vehicle, tender fire-fighting vehicle	0P2RJ
<input type="checkbox"/> Temperate range, vehicle deployment, moderate	0P0G7
<input type="checkbox"/> Case hardness of final drive Distribution	0P4F0
<input type="checkbox"/> Oil sump for gradeability, up to 60%	0P4F2

Lines, editions and packages

<input type="checkbox"/> Without Efficient Drive	0PVBQ
<input type="checkbox"/> Basic paintwork	0PJTA
<input type="checkbox"/> Without Individual Lion package	0PJT1

Horizontal and vertical loads

<input type="checkbox"/> 18,000 kg permitted gross load, vertical, nat. appr.	0P5PB
<input type="checkbox"/> 18,000 kg permitted gross load, vertical, tech.	0P5S4
<input type="checkbox"/> 18,000 kg permitted gross load, vertical, tech. Plus	0P8GQ

Notification texts

<input type="checkbox"/> Note: Restricted steerability with engaged differential lock on front axle	0PFZN
<input type="checkbox"/> Note: Emergency driving program results in higher fuel consumption and wear on the driveline	0PFZL

<input type="checkbox"/>	Note: Max. 24,000 kg tech. permitted gross weight with engaged off-road reduction ratio in transfer case	0PFZR
<input type="checkbox"/>	Without note (propshaft wear)	0PJRV

Chassis

Vehicle frame (wheelbase, overhang, ...)

<input type="checkbox"/>	Main wheelbase, 4,500 mm	0P2ZW
<input type="checkbox"/>	Main frame side member thickness, 8 mm	0P0Y6
<input type="checkbox"/>	Vehicle rear, straight end of frame	0P0XT

Exhaust system, air intake

<input type="checkbox"/>	Exhaust silencer, side, right	0P1BH
<input type="checkbox"/>	Exhaust tailpipe, towards middle of frame	0P1BT
<input type="checkbox"/>	Air intake, behind cab, raised	0P0AY

Battery cases, batteries, alternator

<input type="checkbox"/>	Without AC charging	0PNW4
<input type="checkbox"/>	2 batteries, 12 V, 180 Ah, long-life (EFB), maintenance free	0PGB1
<input type="checkbox"/>	Three-phase alternator 28 V, 120 A, 3,360 W, LIN	0P1BZ
<input type="checkbox"/>	24V battery management system	0P1T4
<input type="checkbox"/>	Medium battery box, 2 batteries	0P0WU
<input type="checkbox"/>	Battery box, left	0P0WO
<input type="checkbox"/>	Main battery switch, mechanical	0P0WF
<input type="checkbox"/>	Fuses	0P1V1

Tanks and fuel line

<input type="checkbox"/>	Fuel tank capacity 150 l, right	0P4DZ
<input type="checkbox"/>	Fuel tank, right, steel	0P4GN
<input type="checkbox"/>	Tank cross-section, right, low	0P4HF
<input type="checkbox"/>	AdBlue tank capacity 27 l, right	0P4CY
<input type="checkbox"/>	AdBlue tank, right, plastic	0P4HU
<input type="checkbox"/>	Fuel tank cap, non-lockable	0P4H8
<input type="checkbox"/>	Cap for AdBlue tank	0P4GD
<input type="checkbox"/>	Fuel pre-filter on the frame	0PKN2

Frame attachments

<input type="checkbox"/>	Without underride protection, front	0P1FM
<input type="checkbox"/>	Without working platform	0P0VH
<input type="checkbox"/>	Without underride protection, side	0P1FG
<input type="checkbox"/>	Spare wheel, provisionally mounted	0P1GR
<input type="checkbox"/>	Final cross member, with hole pattern 160 x 100 mm	0P1SB
<input type="checkbox"/>	Underride protection, rear, round	0P1FD
<input type="checkbox"/>	Wheel chock, 2 unit, with retaining device	0P1FQ
<input type="checkbox"/>	Without body attachment brackets/thrust plates	0P0X6
<input type="checkbox"/>	Without sensors on the side	0PMCP

Pneumatic brakes, compressed-air generation, brake system

<input type="checkbox"/>	Air compressor, single cylinder, 238 ccm, with economy system	0P4Y2
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<input type="checkbox"/> Air dryer, heated	0P0B2
<input type="checkbox"/> Compressed-air treatment, electronically controlled	0P0AA
<input type="checkbox"/> Steel compressed-air tank	0P0XH
<input type="checkbox"/> Quick-start system for special-purpose vehicles	0P1DB
<input type="checkbox"/> Electronic brake system (EBS)	0P0BL
<input type="checkbox"/> Anti-lock braking system (ABS)	0P0BE
<input type="checkbox"/> Full brake assistant	0P0CM
<input type="checkbox"/> Without preparation for EBS Full control unit	0PHPM
<input type="checkbox"/> MAN EVBec high-performance engine brake, stages possible	0P0BW
<input type="checkbox"/> Drum brakes on front axle	0P1IA



<input type="checkbox"/> Drum brakes on rear axle	0P115
<input type="checkbox"/> Parking brake control, next to driver's seat	0P3KH



<input type="checkbox"/> Parking brake with spring-type actuator on rear axles (incl. leading axle/ trailing axle)	0PGBL
<input type="checkbox"/> MAN EasyStart immobiliser	0P1TF

Lights and acoustic signals on the chassis (rear lights, ...)

- Rear lights, LED

0P2AP



- Acoust. Reversing warning system when reverse gear selected
- Light function test
- Side marker lights, LED

0P3CD

0P2AD

0P2BJ

Driveline/running gear

Engine, radiator

- Diesel engine MAN D0836 LFLBL, 235 kW (320 hp) output, 1,250 Nm torque, Euro 6e
- Fuel filter, heated, for fuels up to Cleanliness Class 25
- Fuel pre-filter, with oil separator/water trap, with water sensor, heated
- Ventilation, crankcase, closed
- Engine skirt, in wheel arch, to prevent engine soiling

0PIAH

0PHIG

0P4XP

0P8PM

0P2E9

- Engine cooler, normal length
- Radiator protection, lower

0P4XX
0P1XE



- Engine oil dipstick and digital oil level gauge
- Antifreeze, down to -32 °C
- Flame-start system
- Coolant pre-heater, with external 220 V connection, without electric wiring
- Service product level indicator and intake system vacuum
- Stationary regeneration for catalytic converter, executable at any time, for light loads

0P0B6
0P0AK
0P0GD
0P0GV
0P3KT
0PGCM

Gearbox, clutch

- MAN PowerMatic 08.13 OD
- Gearbox for normal percentage of overrun during driving operation
- MAN TipMatic actuation, with drop arm, manual (DNR option, switching strategy option)
- MAN Idle Speed Driving gearbox function
- MAN TipMatic Efficiency driving program, up to 70,000 kg
- MAN TipMatic Offroad gearbox shift strategy, up to 70,000 kg
- MAN TipMatic Emergency driving program
- Transfer case MAN G102 with on-road and off-road gear
- Transfer case lock management, electronic (VSM)
- Without drive clutch
- Main propshaft, 14,000 Nm functional limit torque
- Propshafts with standard grease, cannot be lubricated
- Gearbox heat exchanger
- Terrain reduction via driving program

0PHMK
0PGDA
0P3KI
0P0ER
0P0FA
0P0F4
0P0FC
0P4XH
0P0FU
0PIXX
0PKZG
0PKZL
0P0FW
0PNW1

Wheels, tyres

- Required tyre speed index J
- Front axle tyres optionally 295/80R22.5 Steering-Short-haul TL (154/148 K)
- Rim type, front axle, steel, single-part
- Rim size, front axle, 10-hole, 9.00x22.5
- Wheel nut cover ring, front axle
- Rear axle tyres optionally 295/80R22.5 Drive-Short-haul TL (152/148 K)
- Rim type, rear axle, steel, single-part

0PFW2
0PEV9
0P0P0
0P0NI
0P0PR
0PDPC
0P0OO

- Rim size, rear axle, 10-hole, 8.25x22.5 0P0MQ
- Spare wheel, in accordance with configuration for rear axle tyres 0P0MF
- Tyre inflation hose, 20 m, with pressure gauge 0P1UA

Axles

- 4x4 0P3B2



- Steering ratio, standard 0P1JX
- Steering oil tank with electrical measuring sensor 0P1JV
- Front axle, 9,000 kg, planetary axle without drive shaft, straight, steered, not liftable 0P5ES
- Front axle as planetary axle, driven, engageable 0P1GY
- Mudguard, front axle 0P1AT
- Rear axle HP-1333, 13,000 kg, planetary axle without drive-through, straight, not steered, not liftable 0PIY4
- Axle ratio, $i = 5.33$ 0P0DD
- Differential locks on driven rear axles 0P0DI
- Differential locks on driven front axles 0P0DK

Axle control system and suspension

- Leaf-spring suspension on front axle, parabolic, 2-leaf, steel 0P1JD
- Leaf-spring suspension on rear axle, parabolic, 4-leaf, steel 0PGBF
- Spring load-bearing capacity front axle 7,500 kg 0P5CZ
- Spring load-bearing capacity of rear axle, 11,500 kg 0P5BT
- Shock absorbers on front axle 0P1M4
- Shock absorbers on rear axle 0P1LQ
- Stabiliser, front axle 0P1LD
- Stabiliser, rear axle 0P1LA
- Axle location system not as wishbone 0P6ZY
- Without air suspension control, trailer/semitrailer 0PHN2

Cab

Cab and cab exterior

- DN cab: the crew cab (narrow, extra long, normal height)

0P2DE



- Cab mount, Comfort
- Cab tilt mechanism, manual
- Tilting roof, mechanical
- Bumper, steel, 3 pieces

0P1V9

0P1V6

0P1VW

0P1SG



- Front step, integrated, with grab option

0P1VE

- Windscreen, composite safety glass, tinted and heated
- Sunblind, in front of windscreen

0P1X1
0P1WK



- Wiper system for windscreen
- Wiper activation, manual
- Step unit, hinged
- Central locking, no remote control
- Vehicle key, 4 units
- No door extension
- Door windows, tinted
- Door window, safety glass
- Cab rear wall, no window

0P1WG
0P1UL
0P1V0
0P1WS
0P3JU
0P1WV
0P1WO
0P1WM
0P1VD

Lights and acoustic signals on cab exterior (headlights, horn, ...)

- LED package, front headlights, fog lights
- Front headlights, LED

0PKWQ
0P1ZO



- Stone protection for front headlights, guard, wide mesh

0P1ZT



- Daytime driving lights, LED
- Fog lights, LED
- Turn signal lights, sides, LED
- Headlight beam regulator, manual
- Driving-light control, manual
- Contour lights, LED, 2 units
- Horn, single-tone, electrical
- Preparation for loading area lighting
- Without revolving beacons at the rear of the vehicle

0P2BP
0P2AI
0P1Z7
0P2AC
0P1ZF
0P2BS
0P1W0
0P2A5
0PJRO

Mirrors and mirror replacements

- Mirror package, exterior rear-view mirror, electrically adjustable, heated, front mirror, kerb mirror, right 0PKW2
- Exterior rear-view mirror, electrically adjustable with manoeuvring aid 0P2CB

<input type="checkbox"/> Kerb mirror, right, electrically adjustable	0P2CG
<input type="checkbox"/> Front mirror, mechanical adjustment	0P2CJ
<input type="checkbox"/> Mirror housing, not painted	0P2CP
<input type="checkbox"/> Vehicle components, suitable for body width larger than 2,400 mm to 2,600 mm	0P2CT
<input type="checkbox"/> Preparation for rear-view camera, 1 unit, camera linked to reverse gear	0P2D1

Seats

<input type="checkbox"/> Seat covers, fabric, standard	0P2PQ
<input type="checkbox"/> Plus driver's seat package, air-sprung	0PKXF
<input type="checkbox"/> Comfort driver's seat, air-sprung	0P2P2
<input type="checkbox"/> Basic co-driver's seat package, unsprung, with storage box	0PKTZ
<input type="checkbox"/> Co-driver's seat, not sprung, with storage box	0P2OO
<input type="checkbox"/> Storage space, in seat bracket of co-driver's seat	0P2Q6
<input type="checkbox"/> Rear bench seat for 4 persons	0P2Q2


Driver's workplace

<input type="checkbox"/> Multi-function steering wheel, leather, adjustable height and angle	0P2GC
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- Steering wheel, with parking position
- Steering lock
- Professional instrumentation, 12.3"

0P2GE
0P3JZ
0P3L2



- Tachograph Simulation Unit (TSU), instead of tachograph
- Tachograph, calibrated
- Cigarette lighter

0P2KY
0P2KG
0P2IH



- Single DIN slots, 4 units, roof space, front
- Without storage tray next to seat

0P2FJ
0PJRS

Cab air-conditioning system

- Air-conditioning system, Climatronic

0P2NT



- Auxiliary water heater 4 kW (night heater)

0P2O2

Bunk area

- Without bunk area

0PKFY

Cab interior

- Dark Moon Grey with silver colour scheme for cab interior

0PKFZ



- Interior styling analogous to colour scheme
- Basic driver's workplace package

0PGBT
0PKPN



- Windscreen roller blind, internal
- Interior light, reading light (driver's side)
- Interior light, central
- Reading light, 1 unit, driver's side
- Entry lighting
- Entry handles, standard
- Door interior cladding, washable

0P2FE
0PKMY
0PHA6
0P2IQ
0P2IO
0PHPK
0P2IA



- Without additional storage and stowage space

0PKWA

- Storage, instrument panel in middle section, open 0P2HK
- Multi-purpose storage box, centre of crew cab, in front of 2nd row of seats 0P2ES



- Grab handle, above door, internal, 2 units, 1 right and 1 left 0P2G2
- Grab handles on cab roof interior, rear 0P8QG

Accessories and tools

- Accessories and tools 0PKXC
- Vehicle toolkit 0P2TX
- First aid kit 0P3F3
- Warning triangle, 1 units 0P3FI
- Window cleaning set 0P3CI
- Jack, 12,000 kg 0P3F8

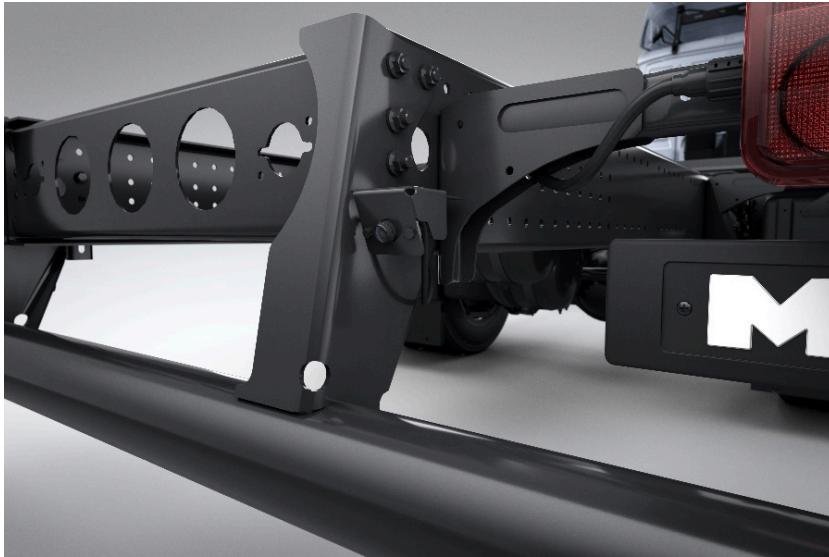
Intelligent Truck

Assistance systems

- Electronic Stability Program (ESP) 0P1TN
- Anti-slip control (ASR) 0P1T2
- Tempomat (cruise control, CC) 0P1TR
- Without advanced emergency braking system 0P1U5
- Without driving fitness detection system 0PHN5
- Without Front Detection 0PHNA

- Without traffic sign recognition
- Reversing Motion System

0PHNE
0PHNW



- Without distance warning system
- Without MAN SafeStop Assist
- Without rear area monitoring

0PKA0
0PLB5
0PMA9

Infotainment (radio,...)

- MAN Navigation Professional media system, 12.3 inch

0P2LZ



- MAN sound system

0P2MG



- Europe and Russia navigation map
- Smartphone integration

0P2MX

0P2NE

Bodies/interfaces

Interfaces to trailer (e.g. trailer coupling, brake connections,...)

- Trailer coupling at final cross member, ROCKINGER type 400 G 150A
- Trailer bar coupling for pivot-plate trailer, on final cross member, 40 mm drawbar eye
- 2-line trailer brake connection, end of frame, centre, standard coupling
- Trailer socket, frame end, 24 V, 15-pin
- Adapter for trailer socket, from 24-V, 15-pin to 12-V, 13-pin, frame end, electric, loose
- Trailer socket for anti-lock brake system (ABS), end of frame

0P1NF

0P1SI

0P1NZ

0P1OM

0P8KR

0P1O4

Ex works bodies and interfaces to bodies (e.g. tipper indicator...)

<input type="checkbox"/>	Interface for data exchange with tipper (customer-specific control module) and intermediate engine speed (ZDR), front area of cab and behind cab	0PKNU
<input type="checkbox"/>	Electrical preparation for keypad, body control	0PINX

PTOs

<input type="checkbox"/>	PTO, gearbox-dependent, Heavy Duty type, with flange, f=1.3, position approx. 3 o'clock	0PHOC
<input type="checkbox"/>	Without fan wheel for PTO, gearbox-dependent	0P4VR
<input type="checkbox"/>	Without flange coupling for PTO, gearbox-dependent, elastic	0PMCB
<input type="checkbox"/>	Function parameters for PTO; gearbox-dependent, driving operation	0P4WP
<input type="checkbox"/>	Without flange coupling for auxiliary output, dependent on PTO, elastic	0PMCD
<input type="checkbox"/>	Sector-specific parameterisation, general	0P4X0
<input type="checkbox"/>	Without electromechanical NA installation position	0PNXB

Towing, recovery and lashing

<input type="checkbox"/>	Central coupling jaw, integrated in bumper/front cross member, with lock pin	0P1MK
<input type="checkbox"/>	Shackles, 2 units, front of vehicle	0P1S3


Paintworks
Paintwork, cab, top

<input type="checkbox"/>	Top coating, cab	0P6YB
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Paintwork, cab, bottom

<input type="checkbox"/>	Textured coating, step units	0P6X9
<input type="checkbox"/>	Textured coating, mudguard, behind cab	0P6YG
<input type="checkbox"/>	Textured coating, bumper, steel	0P6YQ

Paintwork, chassis

<input type="checkbox"/>	Without additional top coating on chassis	0PJTK
<input type="checkbox"/>	Top coating, rims, steel, white-aluminium	0P6YL

Other



MDRK0

Colour



Top coating, cab

FLAME RED RAL 3000

A

Technical data: TGM 18.320 4x4 BB CH / L38DAA04

Vehicle type: Vehicle type, platform truck and chassis (LK)

Cab: DN cab: the crew cab (narrow, extra long, normal height)

Drive Type: 4x4

Weights/loads	kg
TD026 Chassis weight with cab	6792
TD027 Chassis weight, front	4435
TD028 Chassis weight, rear	2357
TD029 Payload	11208
TD018 Statutorily permissible gross vehicle weight	18000
TD025 Technically permissible gross vehicle weight	18000
TD031 Statutorily permissible gross train weight	19500
TD032 Statutorily permissible trailer load	2000

Frame	mm
TD009 Frame width at front	966.0
TD010 Frame width at the rear	866.0
TD078 Frame profile	220 x 70 x 8

Circle dimensions	m
TD055 Track circle diameter	16.5
TD056 Wall-to-wall turning circle diameter	18.0

Lengths	mm
TD071 Total length	8605.0
TD063 Front vehicle overhang	1580.0
TD057 Wheelbase between front axles	0
TD058 Wheelbase between leading axle and rear axle	0
TD059 Wheelbase between rear axles	0
TD060 Wheelbase between rear axle and trailing axle	0
TD064 Rear frame overhang	2325.0
TD072 Distance from first front axle to body	1604.0
TD067 Distance to kingpin from front axle, nominal position	-
TD074 Slew radius, front	-
TD075 Slew radius, rear	-
TD068 Coupling length	8336.0

Heights	mm
TD033 Maximum external height, unladen	3213.0
TD082 Total transport height, unladen	3213.0
TD034 Maximum external height, laden	3132.0
TD035 Frame height at theoretical rear wheelbase, unladen	1232.0
TD036 Frame height at theoretical rear wheelbase, laden	1103.0
TD045 Raising from driving position, front	-
TD046 Lowering from driving position, front	-
TD047 Raising from driving position, rear	-
TD048 Lowering from driving position, rear	-

The technical data must be considered as an approximation. Some of the values are given in a simplified form. More detailed notes and descriptions can be found in the respective information in the overview. Contents and specifications have been compiled with the greatest possible care. Nevertheless, we do not assume responsibility for the data and values supplied being correct and up to date. Subject to errors and changes. MAN Truck & Bus AG is liable only in cases of intent, gross negligence or culpable breach of significant contractual obligations.