



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

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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	0PJV6
<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 |
|--------------------------|---|-------|



- Air dryer, heated
- Compressed-air treatment, electronically controlled
- Steel compressed-air tank
- Quick-start system for special-purpose vehicles
- Electronic brake system (EBS)
- Anti-lock braking system (ABS)
- Full brake assistant
- Without preparation for EBS Full control unit
- MAN EVBec high-performance engine brake, stages possible
- Drum brakes on front axle

0P0B2
0P0AA
0P0XH
0P1DB
0P0BL
0P0BE
0P0CM
0PHPM
0P0BW
0P1IA



- Drum brakes on rear axle
- Parking brake control, next to driver's seat

0P1I5
0P3KH



- Parking brake with spring-type actuator on rear axles (incl. leading axle/ trailing axle)
- MAN EasyStart immobiliser

0PGBL
0P1TF

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

- ☐ Rear lights, LED
- 0P2AP



- ☐ Acoust. Reversing warning system when reverse gear selected
- 0P3CD
- ☐ Light function test
- 0P2AD
- ☐ Side marker lights, LED
- 0P2BJ

Driveline/running gear

Engine, radiator

- ☐ Diesel engine MAN D0836 LFLBL, 235 kW (320 hp) output, 1,250 Nm torque, Euro 6e
- 0PIAH
- ☐ Fuel filter, heated, for fuels up to Cleanliness Class 25
- 0PHIG
- ☐ Fuel pre-filter, with oil separator/water trap, with water sensor, heated
- 0P4XP
- ☐ Ventilation, crankcase, closed
- 0P8PM
- ☐ Engine skirt, in wheel arch, to prevent engine soiling
- 0P2E9

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- ☐ 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



- | | |
|--|-------|
| <input type="checkbox"/> Rim size, rear axle, 10-hole, 8.25x22.5 | 0P0MQ |
| <input type="checkbox"/> Spare wheel, in accordance with configuration for rear axle tyres | 0P0MF |
| <input type="checkbox"/> Tyre inflation hose, 20 m, with pressure gauge | 0P1UA |

Axles

- | | |
|------------------------------|-------|
| <input type="checkbox"/> 4x4 | 0P3B2 |
|------------------------------|-------|



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

Axle control system and suspension

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

Cab

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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

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- 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, ...)

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- 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
- Exterior rear-view mirror, electrically adjustable with manoeuvring aid

0PKW2
0P2CB

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<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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- | | |
|--|-------|
| <input type="checkbox"/> Steering wheel, with parking position | 0P2GE |
| <input type="checkbox"/> Steering lock | 0P3JZ |
| <input type="checkbox"/> Professional instrumentation, 12.3" | 0P3L2 |



- | | |
|--|-------|
| <input type="checkbox"/> Tachograph Simulation Unit (TSU), instead of tachograph | 0P2KY |
| <input type="checkbox"/> Tachograph, calibrated | 0P2KG |
| <input type="checkbox"/> Cigarette lighter | 0P2IH |



- | | |
|---|-------|
| <input type="checkbox"/> Single DIN slots, 4 units, roof space, front | 0P2FJ |
| <input type="checkbox"/> Without storage tray next to seat | 0PJRS |

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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



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- 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

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- ☐ 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

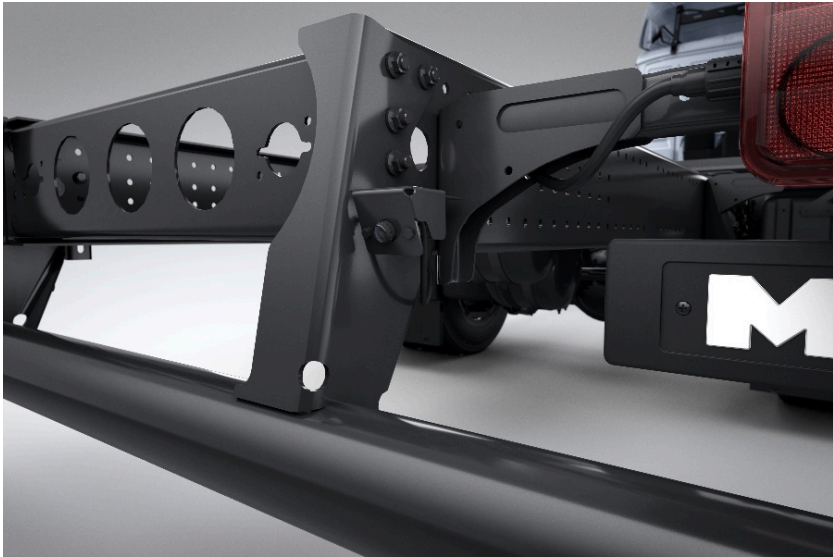
0PHNA

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- Without traffic sign recognition
- Reversing Motion System

0PHNE
0PHNW



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

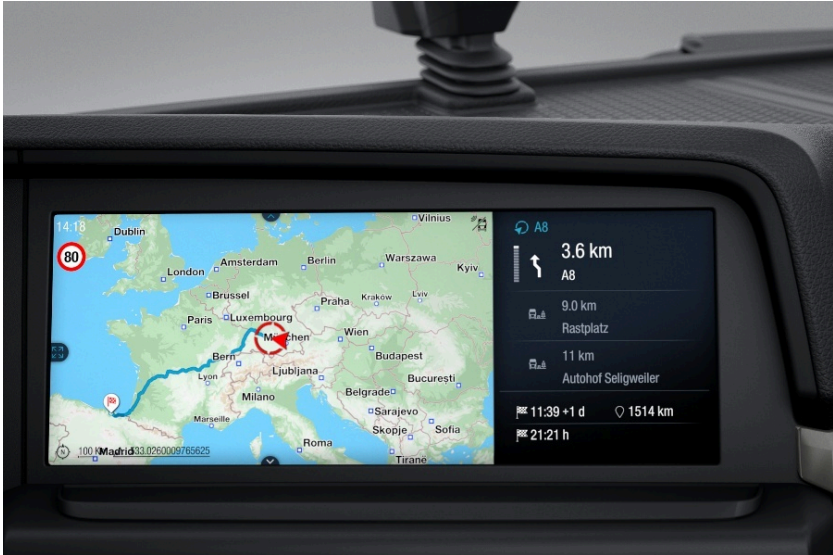
0PKA0
0PLB5
0PMA9

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Infotainment (radio,...)

- ☐ MAN Navigation Professional media system, 12.3 inch
- 0P2LZ



- ☐ MAN sound system
- 0P2MG



- ☐ Europe and Russia navigation map
- 0P2MX
- ☐ Smartphone integration
- 0P2NE

Bodies/interfaces

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

- ☐ Trailer coupling at final cross member, ROCKINGER type 400 G 150A
- 0P1NF
- ☐ Trailer bar coupling for pivot-plate trailer, on final cross member, 40 mm drawbar eye
- 0P1SI
- ☐ 2-line trailer brake connection, end of frame, centre, standard coupling
- 0P1NZ
- ☐ Trailer socket, frame end, 24 V, 15-pin
- 0P1OM
- ☐ Adapter for trailer socket, from 24-V, 15-pin to 12-V, 13-pin, frame end, electric, loose
- 0P8KR
- ☐ Trailer socket for anti-lock brake system (ABS), end of frame
- 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

<input type="checkbox"/>		MDRK0
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Colour

<input type="checkbox"/>	Top coating, cab	FLAME RED RAL 3000	A
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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	-

TD051	Height of fifth-wheel coupling above ground, unladen	-
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TD052	Height of fifth-wheel coupling above ground, laden	-
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Widths		mm
TD008	Width included rearview mirror	2981.0
TD001	Width over cab	2240.0

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.