



Vehicle description for: TGM 18.290 4x4 BB CH

Vehicle standards

Product family	The new MAN Truck Generation
Model & Variant	TGM 18.290 4x4 BB CH
Emission class	EURO5
Engine family	D08R6
Battery gross capacity	0 kWh
Batteries number	0
Vehicle type	Vehicle type, platform truck and chassis (LK)
Cab	DN cab: the crew cab (narrow, extra long, normal height)
Main wheel distance	4200 mm
Overhang	2125 mm
Steering configuration	Left

Vertical Load

	National Registration	Technical Load
Gross weight	18,000 kg	18,600 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	16,500 kg	16,500 kg
Gross train weight	28,000 kg	28,000 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

☐	Vehicle version for public service deployment	0P0H7
☐	Chassis	0P2U9
☐	Chassis class, light/medium	0P2UB
☐	Destination: Nigeria (NG)	0P3HT
☐	Merchant tonnage 18 t	0P8LF
☐	Basic layout of vehicle, all-round	0PGCU
☐	Frame type, high	0P2TP
☐	Vehicle type, platform truck and chassis (LK)	0P2UQ
☐	Left-hand-drive	0P3AS
☐	Right-hand traffic	0P3F5
☐	Vehicle documents in English	0P2L7
☐	Labelling in English	0P8NM
☐	Cab position 480 mm (distance from frame lower edge to cab floor)	0PHBC

Registration

☐	Vehicle approval, N3G class	0P3JS
☐	Maximum speed limiter, 89 km/h, tolerance +1 km/h, electronic, engine speed regulation	0P2UJ
☐	Maximum vehicle noise level, 82 dB in acc. with UN/ECE-R 51.02	0PIND
☐	Height over cab, unloaded up to 4,000 mm	0PHA1
☐	Vehicle classification in accordance with regulation (EU) 2018/858	0PKAW
☐	UN/ECE-R 141 (tyre pressure monitoring system (TPMS)) fulfilled	0PKYA

Documents

☐	Data confirmation, international	0P3AO
☐	European standard exhaust emission confirmation	0P2Q7
☐	Confirmation of year of manufacture	0P2TT
☐	Without registration documentation, national	0P3B0
☐	Special confirmation, heavy load / municipal operation	0P3CK

Application scope / transport tasks

☐	Fire service/emergency services	0P6WN
☐	190 Fire service vehicle, miscellaneous	0P2RH
☐	Temperate range, vehicle deployment, moderate	0P0G7
☐	Case hardness of final drive Distribution	0P4F0
☐	Oil sump for gradeability, up to 30%	0P4F3

Lines, editions and packages

☐	Trailer equipment preparation	0PFXN
☐	Special request paintwork	0PJTD
☐	Without Individual Lion package	0PJT1

Horizontal and vertical loads

☐	18,000 kg permitted gross load, vertical, nat. appr.	0P5PB
☐	18,600 kg permitted gross load, vertical, tech.	0P5S7
☐	18,600 kg permitted gross load, vertical, tech. Plus	0P8GT



☐	7,500 kg permitted load on front axle, nat. appr.	0P5KR
☐	7,500 kg permitted load on front axle, tech.	0P5LL
☐	7,500 kg permitted load on front axle, tech. Plus	0P8D1
☐	11,500 kg permitted load on rear axle NatZu	0P5G7
☐	11,500 kg permitted load on rear axle, tech.	0P5IJ
☐	11,500 kg permitted load on rear axle, tech. Plus	0P8BN
☐	28,000 kg permitted gross train weight, national registration	0PBG2
☐	28,000 kg permissible gross train weight TechH.	0PBUN
☐	28,000 kg permitted gross train weight, Tech. Plus	0PBN1
☐	16,500 kg trailer load, national registration	0P8R0
☐	16,500 kg trailer load TechH.	0P8V2
☐	16,500 kg trailer load, technical Plus	0P8T1
☐	67kN D value	0P9AD

Notification texts

☐	Note: Restricted steerability with engaged differential lock on front axle	0PFZN
☐	Note: With increased permissible gross weight, increase in wear of driveline and reduced service life	0PFZP
☐	Note: Emergency driving program results in higher fuel consumption and wear on the driveline	0PFZL
☐	Note: Max. 24,000 kg tech. permitted gross weight with engaged off-road reduction ratio in transfer case	0PFZR
☐	Note: Difference of more than 2% in FA/RA rolling circumference may lead to perceptible tension in the driveline.	0PHCX
☐	Without note (propshaft wear)	0PJRV

Chassis

Vehicle frame (wheelbase, overhang, ...)

☐	Main wheelbase, 4,200 mm	0P2ZQ
☐	Frame overhang, rear, 2,125 mm	0P3DL
☐	Main frame side member thickness, 8 mm	0P0Y6
☐	Vehicle rear, straight end of frame	0P0XT

Exhaust system, air intake

☐	Exhaust silencer, side, right	0P1BH
☐	Exhaust tailpipe, transverse, left	0P1BR
☐	Air intake, behind cab, raised	0P0AY

Battery cases, batteries, alternator

☐	2 batteries, 12 V, 180 Ah, long-life (EFB), maintenance free	0PGB1
☐	Three-phase alternator 28 V, 120 A, 3,360 W, Longlife Eco	0P1BW
☐	Medium battery box, 2 batteries	0P0WU
☐	Battery box, left	0P0WO
☐	Main battery switch, mechanical	0P0WF
☐	Fuses	0P1V1

Tanks and fuel line

☐	Fuel tank capacity 220 l, right	0P4E2
☐	Fuel tank, right, steel	0P4GN



☐	Tank cross-section, right, low	0P4HF
☐	AdBlue tank capacity 27 l, right	0P4CY
☐	AdBlue tank, right, plastic	0P4HU
☐	Fuel tank cap, lockable for master key system	0P4H5
☐	Cap for AdBlue tank, lockable	0P4GE
☐	Filter screen for fuel tank filler neck	0P1EM

Frame attachments

☐	Without underride protection, front	0P1FM
☐	Without working platform	0P0VH
☐	Without underride protection, side	0P1FG
☐	Spare wheel, provisionally mounted	0P1GR
☐	Final cross member, with hole pattern 160 x 100 mm	0P1SB
☐	Without underride protection, rear	0P1FB
☐	Without body attachment brackets/thrust plates	0P0X6

Pneumatic brakes, compressed-air generation, brake system

☐	Air compressor, 1-cylinder, 352 ccm	0P0AE
☐	Air dryer, heated	0P0B2
☐	Compressed-air treatment, electronically controlled	0P0AA
☐	Steel compressed-air tank	0P0XH
☐	Quick-start system for special-purpose vehicles	0P1DB
☐	Electronic brake system (EBS)	0P0BL
☐	Anti-lock braking system (ABS)	0P0BE
☐	Full brake assistant	0P0CM
☐	Without preparation for EBS Full control unit	0PHPM
☐	Engine brake, exhaust flap	0P0BU
☐	Drum brakes on front axle	0P1IA
☐	Drum brakes on rear axle	0P1I5
☐	Parking brake control, next to driver's seat	0P3KH
☐	Parking brake with spring-type actuator on rear axles (incl. leading axle/ trailing axle)	0PGBL

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

☐	Rear lights	0P2AQ
☐	Emergency braking signal, hazard light activation, automatic	0P0CG
☐	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 LFL90, 213 kW (290 hp) output, 1,150 Nm torque, Euro 5	0P5ZY
☐	Fuel filter, heated, for fuels up to Cleanliness Class 21	0PHIF
☐	Without torque reduction	0P0G5
☐	Engine dry-air filter, with safety insert	0P0B8
☐	Ventilation, crankcase, closed	0P8PM
☐	Anti-noise skirt, engine	0P2E7



☐	Engine cooler, normal length	0P4XX
☐	Radiator protection, lower	0P1XE
☐	Engine oil dipstick and digital oil level gauge	0P0B6
☐	Antifreeze, down to -32 °C	0P0AK
☐	Flame-start system	0P0GD
☐	Service product level indicator and intake system vacuum	0P3KT

Gearbox, clutch

☐	MAN PowerMatic 08.13 OD	0PHMK
☐	Gearbox for normal percentage of overrun during driving operation	0PGDA
☐	Gearbox, 8-speed	0PHML
☐	MAN TipMatic actuation, with drop arm, manual (DNR option, switching strategy option)	0P3KI
☐	MAN Idle Speed Driving gearbox function	0P0ER
☐	MAN TipMatic Efficiency driving program, up to 70,000 kg	0P0FA
☐	MAN TipMatic Offroad gearbox shift strategy, up to 70,000 kg	0P0F4
☐	MAN TipMatic Emergency driving program	0P0FC
☐	Transfer case MAN G102 with on-road and off-road gear	0P4XH
☐	Transfer case lock management, electronic (VSM)	0P0FU
☐	Without drive clutch	0PIXX
☐	Main propshaft, 14,000 Nm functional limit torque	0PKZG
☐	Propshafts with standard grease, cannot be lubricated	0PKZL
☐	Gearbox heat exchanger	0P0FW

Wheels, tyres

☐	Required tyre speed index G	0PFWA
☐	Tyres, front axle, Goodyear 385/65R22.5 OMNITRAC S HL Steering-Road+Offroad TL	0PLCH





Product Information Sheet

Delegated Regulation (EU) 2020/740			
Supplier name or trademark		GOODYEAR	
Commercial name or trade designation		OMNITRAC S	
Tyre type identifier	Tyre class	586086	C3
Tyre size designation		385/65R22.5	
Speed category symbol		K 110 km/h	
Load-capacity index (for single mounting)		164	
Load-capacity index (for dual mounting)		-	
Fuel efficiency class		C	
Wet grip class		B	
External rolling noise class	External rolling noise value	B	73 dB
Tyre for use in severe snow conditions		Yes	
Load-capacity index for Additional Service Description (for single mounting)		158	
Load-capacity index for Additional Service Description (for dual mounting)		-	
Speed category symbol (for Additional Service Description)		L	
Date of start of production (Week / Year)		28/22	
Date of end of production (Week / Year)		-	
Supplier's address		Goodyear EPREL Customer Support, Avenue Gordon Smith, 7750 Colmar-Berg, LU	
Additional information			

- Rim type, front axle, steel, single-part
- Rim size, front axle, 10-hole, 11.75x22.5
- Wheel nut cover ring, front axle
- Tyres for rear axle, Goodyear 295/80R22.5 OMNITRAC D Drive-Road+Offroad TL

- 0P0P0
- 0P0NB
- 0P0PR
- 0PGEB



**ENERG**

Goodyear569562

295/80R22,5 152/148 K C3



A

B

C

D

E



A

B

C

D

E





75 dB

A

B

C



2020/740



Product Information Sheet

Delegated Regulation (EU) 2020/740

Supplier name or trademark	GOODYEAR
Commercial name or trade designation	OMNITRAC D
Tyre type identifier	569562
Tyre size designation	295/80R22.5
Load-capacity index	152
Load-capacity index (Load index for Dual mounting)	148
Speed category symbol	K
Fuel efficiency class	D
Wet grip class	B
External rolling noise class	B
External rolling noise value	75 dB
Severe snow tyre	YES
Date of start of production	40/18
Date of end of production	-
Additional information	
Load-capacity index (Single load index for Additional Service Description)	
Load-capacity index (Dual load index for Additional Service Description)	
Speed category symbol (for Additional Service Description)	

☐	Rim type, rear axle, steel, single-part	0P00O
☐	Rim size, rear axle, 10-hole, 8.25x22.5	0P0MQ
☐	Spare wheel, in accordance with configuration for front axle tyres	0P0MH
☐	Tyre pressure monitoring system (TPM) with display of tyre temperature	0PJT7
☐	Tyre pressure monitor for trailers	0P2N6
☐	Tyre inflation hose, 10 m, with pressure gauge	0P1U9
☐	Centring sleeves for rim mounting	0PHZW

Axles

☐	4x4	0P3B2
☐	Steering ratio, indirect	0P1JY
☐	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
☐	Twin tyre on rear axle	0P1HN
☐	Axle ratio, $i = 5.33$	0P0DD
☐	Differential locks on driven rear axles	0P0DI
☐	Differential locks on driven front axles	0P0DK
☐	Warning buzzer when front axle locks are engaged	0P0DQ
☐	Mudguard enlargement	0P1W5

Axle control system and suspension

☐	Suspension type for front axles and driven rear axles, leaf/leaf (BB)	0P2YB
☐	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 for high centre of gravity	0P1M5
☐	Shock absorbers on rear axle for high centre of gravity	0P1LR



☐	Stabiliser, front axle	0P1LD
☐	Stabiliser, rear axle, for high centre of gravity	0P2W4
☐	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	0P1V9
☐	Cab tilt mechanism, manual	0P1V6
☐	Tilting roof, mechanical	0P1VW
☐	Bumper, steel, 3 pieces	0P1SG
☐	Front step, integrated, with grab option	0P1VE
☐	Windscreen, composite safety glass, tinted	0P1X0
☐	Sunblind, in front of windscreen	0P1WK
☐	Wiper system for windscreen	0P1WG
☐	Wiper activation, manual	0P1UL
☐	Step unit, hinged	0P1V0
☐	Central locking, with remote control	0P1WR
☐	Vehicle key, 4 units	0P3JU
☐	No door extension	0P1WW
☐	Door labelling, according to trade tonnage of vehicle	0P2DQ
☐	Door windows, tinted	0P1WO
☐	Door window, safety glass	0P1WM
☐	Cab rear wall, no window	0P1VD

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

☐	H7 package, front headlights, fog lights	0PKWS
☐	Front headlights, H7	0P1ZN
☐	Stone protection guard for front headlights, wide and fine mesh	0PICD
☐	Daytime driving lights, H7	0P2BN
☐	Fog lights, H7	0P2AH
☐	Turn signal lights, sides, bulb	0P1Z6
☐	Headlight beam regulator, manual	0P2AC
☐	Driving-light control, manual	0P1ZF
☐	Contour lights, bulb, 2 units	0P2BT
☐	Horn, two-tone, electrical	0P1W1
☐	Without revolving beacons at the rear of the vehicle	0PJRO

Mirrors and mirror replacements

☐	Exterior rear-view mirror, electrically adjustable, heated, front mirror, kerb mirror, right	0PKW2
☐	Exterior rear-view mirror, electrically adjustable with manoeuvring aid	0P2CB
☐	Kerb mirror, right, electrically adjustable	0P2CG
☐	Front mirror, mechanical adjustment	0P2CJ
☐	Mirror housing, not painted	0P2CP
☐	Vehicle components, suitable for body width larger than 2,400 mm to 2,600 mm	0P2CT



Seats

☐	Seat covers, fabric, standard	0P2PQ
☐	Basic driver's seat package unsprung, fore-and-aft, height and backrest adjustment	0PKXO
☐	Driver's seat, not sprung, length, height and backrest adjustment	0P2P8
☐	Basic co-driver's seat package, unsprung, fore-and-aft and backrest adjustment	0PKTY
☐	Co-driver's seat, not sprung, length and backrest adjustment	0P2OQ
☐	Rear bench seat for 4 persons	0P2Q2
☐	Indicator, seat belt, 1st row of seats, acoustic and visual	0P8L1

Driver's workplace

☐	Multi-function steering wheel, adjustable height and angle	0P2GD
☐	Steering wheel, with parking position	0P2GE
☐	Steering lock	0P3JZ
☐	Professional instrumentation, 12.3"	0P3L2
☐	Tachograph Simulation Unit (TSU), instead of tachograph	0P2KY
☐	Tachograph, calibrated	0P2KG
☐	Socket, cab centre, 2 units, 12 V and 24 V	0P2HX
☐	Single DIN slots, 4 units, roof space, front	0P2FJ
☐	Without storage tray next to seat	0PJRS

Cab air-conditioning system

☐	Air-conditioning system, manual	0P2NU
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Bunk area

☐	Without bunk area	0PKFY
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Cab interior

☐	Colour scheme for interior styling, dark	0P2I6
☐	Interior styling analogous to colour scheme	0PGBT
☐	Basic driver's workplace package	0PKPN
☐	Windscreen roller blind, internal	0P2FE
☐	Interior light, reading light (driver's side)	0PKMY
☐	Interior light, central	0PHA6
☐	Reading light, 1 unit, driver's side	0P2IQ
☐	Entry lighting	0P2IO
☐	Entry handles, standard	0PHPK
☐	Door interior cladding, washable	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

☐	Vehicle tool kit without accessories	0PKXB
☐	Vehicle toolkit	0P2TX
☐	No warning triangle	0P3FH



- | | | |
|--------------------------|-----------------|-------|
| ☐ | 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 | 0PHNE |
| ☐ | Without Reversing Motion System | 0PHNV |
| ☐ | Without distance warning system | 0PKA0 |
| ☐ | Without MAN SafeStop Assist | 0PLB5 |

Infotainment (radio,...)

- | | | |
|--------------------------|--|-------|
| ☐ | Radio preparation, 12 V | 0P2M4 |
| ☐ | Loudspeaker, door, 2 units, 1 left and 1 right | 0P2ME |
| ☐ | No navigation map | 0P2N2 |

Bodies/interfaces

Interfaces to semitrailer (e.g. fifth-wheel coupling, brake connection,...)

- | | | |
|--------------------------|---|-------|
| ☐ | Without trailer brake connection behind cab | 0P1O3 |
| ☐ | No fifth-wheel coupling | 0P1RJ |
| ☐ | Without sensing of the fifth-wheel coupling | 0PHN7 |

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

- | | | |
|--------------------------|--|-------|
| ☐ | Trailer coupling on final cross member, RINGFEDER type RF40/G150B | 0PKAI |
| ☐ | 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 |
| ☐ | Trailer socket for anti-lock brake system (ABS), end of frame | 0P1O4 |

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

- | | | |
|--------------------------|--|-------|
| ☐ | Preparation for engine start/stop facility, under front panel | 0P0K8 |
| ☐ | Interface for data exch. with body (customer-specific control module) and engine intermediate speed control (ZDR), front area of cab | 0P2NA |

PTOs

- | | | |
|--------------------------|---|-------|
| ☐ | PTO, gearbox-dependent, special application type, with flange, f=1.6, position approx. 11 o'clock | 0PJSX |
| ☐ | PTO, gearbox-dependent, continuous operation | 0P4VJ |
| ☐ | PTO, gearbox-dependent, powershift | 0PHMM |
| ☐ | Without fan wheel for PTO, gearbox-dependent | 0P4VR |
| ☐ | Function parameters for PTO; gearbox-dependent, driving operation | 0P4WP |
| ☐ | Sector-specific parameterisation, general | 0P4X0 |



Towing, recovery and lashing

☐	Central coupling jaw, integrated in bumper/front cross member, with lock pin	0P1MK
☐	Shackles, 2 units, front of vehicle	0P1S3

Paintworks

Paintwork, cab, top

☐	Top coating, cab	0P6YB
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Paintwork, cab, bottom

☐	Textured coating, step units	0P6X9
☐	Textured coating, mudguard, behind cab	0P6YG
☐	Textured coating, bumper, steel	0P6YQ

Paintwork, chassis

☐	Without additional top coating on chassis	0PJTK
☐	Top coating, rims, steel, white-aluminium	0P6YL

Other

☐		0PJTW
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Additional operating equipment

☐	6RA Warranty extension entire vehicle 24 months / 50.000km whatever comes first	ZW007
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Colour

☐	Top coating, cab	FLAME RED RAL 3000	N
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Technical data: TGM 18.290 4x4 BB CH / L38DAA03

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

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

Drive Type: 4x4

Lengths		mm
TD071	Total length	8094.0
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	2125.0
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	7845.0

Widths		mm
TD008	Width included rearview mirror	2981.0
TD001	Width over cab	2240.0

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

Heights		mm
TD033	Maximum external height, unladen	3224.0
TD082	Total transport height, unladen	3224.0
TD034	Maximum external height, laden	3143.0
TD035	Frame height at theoretical rear wheelbase, unladen	1245.0
TD036	Frame height at theoretical rear wheelbase, laden	1118.0
TD045	Raising from driving position, front	0.0
TD046	Lowering from driving position, front	0.0
TD047	Raising from driving position, rear	0.0
TD048	Lowering from driving position, rear	0.0
TD051	Height of fifth-wheel coupling above ground, unladen	-
TD052	Height of fifth-wheel coupling above ground, laden	-

Circle dimensions		m
TD055	Track circle diameter	15.6
TD056	Wall-to-wall turning circle diameter	17.1

Weights/loads		kg
TD026	Chassis weight with cab	6724.0
TD027	Chassis weight, front	---
TD028	Chassis weight, rear	---
TD029	Payload	---

TD018	Statutorily permissible gross vehicle weight	18000
TD025	Technically permissible gross vehicle weight	18600
TD031	Statutorily permissible gross train weight	28000
TD032	Statutorily permissible trailer load	16500

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.