



Vehicle description for: TGM 18.250 4x4 BB CH



Vehicle standards

Product family	The new MAN Truck Generation
Model & Variant	TGM 18.250 4x4 BB CH
Emission class	EURO5
Engine family	D08R6
Engine output	184 kW
Battery gross capacity	0 kWh
Batteries number	0
Vehicle type	Vehicle type, platform truck and chassis (LK)
Cab	Compact CC cab
Main wheel distance	4500 mm
Overhang	2325 mm
Steering configuration	Left

Vertical Load

	National Registration	Technical Load
Gross weight	17,500 kg	17,500 kg
Front axle	7,500 kg	7,500 kg
Rear axle	10,000 kg	10,000 kg

Horizontal Load

	National Registration	Technical Load
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

<input type="checkbox"/>	Vehicle version for public service deployment	0P0H7
<input type="checkbox"/>	Chassis	0P2U9
<input type="checkbox"/>	Chassis class, light/medium	0P2UB
<input type="checkbox"/>	Destination: Ghana (GH)	0P3GJ
<input type="checkbox"/>	Merchant tonnage 18 t	0P8LF
<input type="checkbox"/>	Basic layout of vehicle, all-round	0PGCU
<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 documents in English	0P2L7
<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, 85 km/h, electronic, engine speed regulation	0P2UI
<input type="checkbox"/>	Maximum vehicle noise level, 82 dB in acc. with UN/ECE-R 51.02	0PIND
<input type="checkbox"/>	Height over cab, unloaded up to 4,000 mm	0PHA1
<input type="checkbox"/>	Vehicle classification in accordance with regulation (EU) 2018/858	0PKAW

Documents

<input type="checkbox"/>	Without registration documentation, national	0P3B0
<input type="checkbox"/>	Special confirmation, heavy load / municipal operation	0P3CK

Application scope / transport tasks

<input type="checkbox"/>	Distribution transport, general cargo	0P6WA
<input type="checkbox"/>	060 Box body, universal	0P2QS
<input type="checkbox"/>	Temperature range, vehicle deployment, warm country	0PHIB
<input type="checkbox"/>	Case hardness of final drive Distribution	0P4F0

Lines, editions and packages

<input type="checkbox"/>	Special request paintwork	0PJTD
<input type="checkbox"/>	Without Individual Lion package	0PJT1

Horizontal and vertical loads

<input type="checkbox"/>	17,500 kg permitted gross load, vertical, nat. appr.	0P5O8
<input type="checkbox"/>	17,500 kg permitted gross load, vertical, tech.	0P5S1
<input type="checkbox"/>	17,500 kg permitted gross load, vertical, tech. Plus	0P8GN
<input type="checkbox"/>	7,500 kg permitted load on front axle, nat. appr.	0P5KR
<input type="checkbox"/>	7,500 kg permitted load on front axle, tech.	0P5LL
<input type="checkbox"/>	7,500 kg permitted load on front axle, tech. Plus	0P8D1
<input type="checkbox"/>	10,000 kg permitted load on rear axle NatZu	0P5GW
<input type="checkbox"/>	10,000 kg permitted load on rear axle, tech.	0P5H8
<input type="checkbox"/>	10,000 kg permitted load on rear axle, tech. Plus	0P8A9



<input type="checkbox"/>	28,000 kg permitted gross train weight, national registration	0PBG2
<input type="checkbox"/>	28,000 kg permissible gross train weight TechH.	0PBUN
<input type="checkbox"/>	36,000 kg permitted gross train weight, Tech. Plus	0PBO5
<input type="checkbox"/>	0kN D value	0P8XD

Notification texts

<input type="checkbox"/>	Note: Restricted steerability with engaged differential lock on front axle	0PFZN
<input type="checkbox"/>	Note: With increased permissible gross weight, increase in wear of driveline and reduced service life	0PFZP
<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"/>	Frame overhang, rear, 2,325 mm	0P3DT
<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
<input type="checkbox"/>	Pre-separator for engine air intake	0P0BA

Battery cases, batteries, alternator

<input type="checkbox"/>	2 batteries, 12 V, 180 Ah, long-life (EFB), maintenance free	0PGB1
<input type="checkbox"/>	Alternator, Basic	0P1BV
<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 300 l, right	0P4E8
<input type="checkbox"/>	Fuel tank, right, steel	0P4GN
<input type="checkbox"/>	Tank cross-section, right, low	0P4HF
<input type="checkbox"/>	AdBlue tank capacity 35 l, right	0P4CZ
<input type="checkbox"/>	AdBlue tank, right, plastic	0P4HU
<input type="checkbox"/>	Fuel tank cap, lockable for master key system	0P4H5
<input type="checkbox"/>	Cap for AdBlue tank, lockable	0P4GE
<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"/>	Without underride protection, rear	0P1FB
<input type="checkbox"/>	Wheel chock, 1 unit, with retaining device	0P1FO
<input type="checkbox"/>	Body attachment bracket	0P0X5

Pneumatic brakes, compressed-air generation, brake system

<input type="checkbox"/>	Air compressor, 1-cylinder, 238 ccm	0P0AD
<input type="checkbox"/>	Compressed-air treatment, pneumatically controlled	0P0AB
<input type="checkbox"/>	Steel compressed-air tank	0P0XH
<input type="checkbox"/>	Electronic brake system (EBS)	0P0BL
<input type="checkbox"/>	Anti-lock braking system (ABS)	0P0BE
<input type="checkbox"/>	Without preparation for EBS Full control unit	0PHPM
<input type="checkbox"/>	MAN EVB high-performance engine brake	0P0BV
<input type="checkbox"/>	Drum brakes on front axle	0P1IA
<input type="checkbox"/>	Drum brakes on rear axle	0P1I5
<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, ...)

<input type="checkbox"/>	Rear lights	0P2AQ
<input type="checkbox"/>	Acoust. Reversing warning system when reverse gear selected	0P3CD
<input type="checkbox"/>	Light function test	0P2AD
<input type="checkbox"/>	Side marker lights, LED	0P2BJ

Driveline/running gear

Engine, radiator

<input type="checkbox"/>	Diesel engine MAN D0836 LFL89, 184 kW (250 hp) output, 1,050 Nm torque, Euro 5	0P5ZX
<input type="checkbox"/>	Fuel filter, heated, for fuels up to Cleanliness Class 25	0PHIG
<input type="checkbox"/>	Fuel pre-filter, with oil separator/water trap, heated	0P0AU
<input type="checkbox"/>	Without torque reduction	0P0G5
<input type="checkbox"/>	Engine dry-air filter, with safety insert	0P0B8
<input type="checkbox"/>	Ventilation, crankcase, closed	0P8PM
<input type="checkbox"/>	Anti-noise skirt, engine	0P2E7
<input type="checkbox"/>	Fan control for start of cooling with low coolant temperature (e.g. hot country)	0P0K5
<input type="checkbox"/>	Engine cooler, normal length	0P4XX
<input type="checkbox"/>	Radiator protection, lower	0P1XE
<input type="checkbox"/>	Engine oil dipstick	0P0B5
<input type="checkbox"/>	Antifreeze, down to -32 °C	0P0AK
<input type="checkbox"/>	Service product level indicator and intake system vacuum	0P3KT

Gearbox, clutch

<input type="checkbox"/>	MAN TipMatic 12.12 OD	0P5VP
<input type="checkbox"/>	Gearbox for normal percentage of overrun during driving operation	0PGDA
<input type="checkbox"/>	MAN TipMatic actuation, with drop arm, manual (DNR option, switching strategy option)	0P3KI
<input type="checkbox"/>	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 Manoeuvre driving program, manoeuvring feature 0P0F1
- Transfer case MAN G102 with on-road and off-road gear 0P4XH
- Transfer case lock management, electronic (VSM) 0P0FU
- Single-disc clutch, 395 mm, dry 0P0DS
- Main propshaft, 14,000 Nm functional limit torque 0PKZG
- Propshafts with standard grease, cannot be lubricated 0PKZL

Wheels, tyres

- Required tyre speed index J 0PFW2
- Tyres front axle Continental 14.00R20 HCS off-road TL 0PFB8



- Rim type, front axle, steel, split 0P0OZ
- Rim size, front axle, 10-hole, 10.00W-20 0P0NA
- Wheel nut cover ring, front axle 0P0PR
- Rear axle tyres Continental 14.00R20 HCS Off-road TL 0PDVG



- Rim type, rear axle, steel, split 0P0ON



<input type="checkbox"/>	Rim size, rear axle, 10-hole, 10.00W-20	0P0MM
<input type="checkbox"/>	Wheel nut cover ring, rear axle	0P0PJ
<input type="checkbox"/>	Spare wheel, in accordance with configuration for front axle tyres	0P0MH
<input type="checkbox"/>	Centring sleeves for rim mounting	0PHZW

Axles

<input type="checkbox"/>	4x4	0P3B2
<input type="checkbox"/>	Steering ratio, indirect	0P1JY
<input type="checkbox"/>	Steering oil tank with dipstick	0P1JW
<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"/>	Single tyre on rear axle	0P1HM
<input type="checkbox"/>	Transfer mudguard, rear axle	0P1AQ
<input type="checkbox"/>	Axle ratio, $i = 6.00$	0P0DF
<input type="checkbox"/>	Differential locks on driven rear axles	0P0DI
<input type="checkbox"/>	Differential locks on driven front axles	0P0DK
<input type="checkbox"/>	Warning buzzer when front axle locks are engaged	0P0DQ
<input type="checkbox"/>	Mudguard enlargement	0P1W5

Axle control system and suspension

<input type="checkbox"/>	Suspension type for front axles and driven rear axles, leaf/leaf (BB)	0P2YB
<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 7,800 kg	0P5C1
<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 trailer air suspension control	0PHN2

Cab

Cab and cab exterior

<input type="checkbox"/>	Compact CC cab	0P2DK
<input type="checkbox"/>	Cab mount, Basic	0P1V8
<input type="checkbox"/>	Cab tilt mechanism, manual	0P1V6
<input type="checkbox"/>	No tilting roof/sliding roof	0P1VY
<input type="checkbox"/>	Bumper, steel, 3 pieces	0P1SG
<input type="checkbox"/>	Front step, integrated, with grab option	0P1VE
<input type="checkbox"/>	Windscreen, composite safety glass, tinted	0P1X0
<input type="checkbox"/>	Sunblind, in front of windscreen	0P1WK
<input type="checkbox"/>	Wiper system for windscreen	0P1WG
<input type="checkbox"/>	Wiper activation, manual	0P1UL



<input type="checkbox"/>	Step unit, hinged	0P1V0
<input type="checkbox"/>	Central locking, no remote control	0P1WS
<input type="checkbox"/>	Vehicle key, 2 units	0P3JT
<input type="checkbox"/>	No door extension	0P1WW
<input type="checkbox"/>	Door labelling, according to trade tonnage of vehicle	0P2DQ
<input type="checkbox"/>	Door windows, tinted	0P1WO
<input type="checkbox"/>	Door window, safety glass	0P1WM
<input type="checkbox"/>	Cab rear wall, no window	0P1VD

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

<input type="checkbox"/>	Without light and headlight package	0PKWU
<input type="checkbox"/>	Front headlights, H7	0P1ZN
<input type="checkbox"/>	Stone protection guard for front headlights, wide and fine mesh	0PICD
<input type="checkbox"/>	Daytime driving lights, H7	0P2BN
<input type="checkbox"/>	Fog lights, H7	0P2AH
<input type="checkbox"/>	Turn signal lights, sides, bulb	0P1Z6
<input type="checkbox"/>	Headlight beam regulator, manual	0P2AC
<input type="checkbox"/>	Driving-light control, manual	0P1ZF
<input type="checkbox"/>	Contour lights, bulb, 2 units	0P2BT
<input type="checkbox"/>	Horn, two-tone, electrical	0P1W1
<input type="checkbox"/>	Revolving beacons, LED, yellow (individual LEDs light up in cascades, revolving)	0P2BD
<input type="checkbox"/>	2 revolving beacons on cab roof, 1 right and 1 left	0P2B3
<input type="checkbox"/>	Preparation for loading area lighting	0P2A5
<input type="checkbox"/>	Without revolving beacons at the rear of the vehicle	0PJRO

Mirrors and mirror replacements

<input type="checkbox"/>	Without mirror package	0PKWV
<input type="checkbox"/>	Exterior rear-view mirror, mechanically adjustable	0P2CC
<input type="checkbox"/>	Kerb mirror, right, mechanically adjustable	0P2CH
<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

Seats

<input type="checkbox"/>	Seat covers, fabric, standard	0P2PQ
<input type="checkbox"/>	Without driver's seat package	0PKXV
<input type="checkbox"/>	Comfort driver's seat, air-sprung	0P2P2
<input type="checkbox"/>	Without co-driver's seat package	0PKXU
<input type="checkbox"/>	Co-driver's seat, not sprung, length and backrest adjustment	0P2OQ
<input type="checkbox"/>	Seat belt indicator, driver's side, acoustic and visual	0P2NB

Driver's workplace

<input type="checkbox"/>	Multi-function steering wheel, adjustable height and angle	0P2GD
<input type="checkbox"/>	Steering wheel, with parking position	0P2GE
<input type="checkbox"/>	Steering lock	0P3JZ
<input type="checkbox"/>	Instrumentation, Basic km/h	0P3L3
<input type="checkbox"/>	Tachograph Simulation Unit (TSU), instead of tachograph	0P2KY
<input type="checkbox"/>	Tachograph, calibrated	0P2KG
<input type="checkbox"/>	Plug-in ashtray, instrument panel in middle section, 1 unit	0P2FO



<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

Cab air-conditioning system

<input type="checkbox"/>	Air-conditioning system, manual	0P2NU
<input type="checkbox"/>	Pre-separator (cyclone filter) for interior air intake	0P2O7

Bunk area

<input type="checkbox"/>	Without bunk area	0PKFY
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Cab interior

<input type="checkbox"/>	Colour scheme for interior styling, dark	0P2I6
<input type="checkbox"/>	Interior styling analogous to colour scheme	0PGBT
<input type="checkbox"/>	Without driver's workplace package, Comfort	0PKXT
<input type="checkbox"/>	Windscreen roller blind, internal	0P2FE
<input type="checkbox"/>	Interior light, reading light (both sides)	0PKMZ
<input type="checkbox"/>	Interior light, central	0PHA6
<input type="checkbox"/>	Reading light, 2 units, 1 on driver's side and 1 on co-driver's side	0P2IR
<input type="checkbox"/>	Entry lighting	0P2IO
<input type="checkbox"/>	Entry handles, standard	0PHPK
<input type="checkbox"/>	Door interior cladding, washable	0P2IA
<input type="checkbox"/>	Without stowage and storage space package	0PKXS
<input type="checkbox"/>	Grab handle, above door, internal, 2 units, 1 right and 1 left	0P2G2

Accessories and tools

<input type="checkbox"/>	Without accessories and tools package	0PKXA
<input type="checkbox"/>	Vehicle toolkit	0P2TX
<input type="checkbox"/>	No warning triangle	0P3FH
<input type="checkbox"/>	Jack, 10,000 kg	0P3F7

Intelligent Truck

Assistance systems

<input type="checkbox"/>	Tempomat (cruise control, CC)	0P1TR
<input type="checkbox"/>	Road speed limiter, adjustable, limiter (engine speed regulation)	0P0C3
<input type="checkbox"/>	Without advanced emergency braking system	0P1U5
<input type="checkbox"/>	Without driving fitness detection system	0PHN5
<input type="checkbox"/>	Without Front Detection	0PHNA
<input type="checkbox"/>	Without traffic sign recognition	0PHNE
<input type="checkbox"/>	Without Reversing Motion System	0PHNV
<input type="checkbox"/>	Without distance warning system	0PKA0
<input type="checkbox"/>	Without MAN SafeStop Assist	0PLB5

Infotainment (radio,...)

<input type="checkbox"/>	MMT infotainment system, Starter Basic	0P2M1
<input type="checkbox"/>	MAN loudspeaker system	0P2MF
<input type="checkbox"/>	No navigation map	0P2N2



- French additionally for display 0P2JT

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...)

- Towing coupling at final cross member, RINGFEDER type 6451 0P1MY
- Towing coupling on final cross member 0P1SH
- 2-line trailer brake connection, end of frame, centre, standard coupling 0P1NZ
- Tanker socket, frame end, 24 V, 15-pin 0P1OY
- Trailer socket for anti-lock brake system (ABS), end of frame 0P1O4

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

- Interface for data exch. with body (customer-specific control module) and engine intermediate speed control (ZDR), front area of cab 0P2NA

PTOs

- Without fan wheel for PTO, gearbox-dependent 0P4VR
- Preparation, electr., for subsequent installation of a shiftable PTO, gearbox-dependent 0P4OI
- Sector-specific parameterisation, general 0P4X0

Towing, recovery and lashing

- Central coupling jaw, integrated in bumper/front cross member, with lock pin 0P1MK

Paintworks

Paintwork, cab, top

- Top coating, cab 0P6YB

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

Colour

- Top coating, cab PURE WHITE RAL 9010 N



Technical data: TGM 18.250 4x4 BB CH / L38DAA04

Vehicle type: Vehicle type, platform truck and chassis (LK)
 Cab: Compact CC cab
 Drive Type: 4x4

Lengths		mm
TD071	Total length	8423.0
TD063	Front vehicle overhang	1582.0
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	391.0
TD067	Distance to kingpin from front axle, nominal position	-
TD074	Slew radius, front	-
TD075	Slew radius, rear	-
TD068	Coupling length	8202.0

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	3272.0
TD082	Total transport height, unladen	3272.0
TD034	Maximum external height, laden	3177.0
TD035	Frame height at theoretical rear wheelbase, unladen	1325.0
TD036	Frame height at theoretical rear wheelbase, laden	1198.0
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	Error: 204
TD056	Wall-to-wall turning circle diameter	18.4

Weights/loads		kg
TD026	Chassis weight with cab	6480
TD027	Chassis weight, front	4362
TD028	Chassis weight, rear	2118

TD029	Payload	11020
TD018	Statutorily permissible gross vehicle weight	17500
TD025	Technically permissible gross vehicle weight	17500
TD031	Statutorily permissible gross train weight	28000
TD032	Statutorily permissible trailer load	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.