

**Vehicle variant TGS 41.400 8x4 BB CH**

**Nationale Zulassung[kg] / Technische Last Plus (mit Ausnahmegenehmigung) [kg]**

Gross weight	32000 / 35000
2nd front axle	7500 / 7500
Leading axle	0 / 0
2nd rear axle	9000 / 12000
1st front axle	7500 / 7500
3rd front axle	0 / 0
1st rear axle	9000 / 12000
Trailing axle	0 / 0

**Current scope of delivery**

**Vehicle characteristics**

**MAN Individual**

<b>Code</b>	<b>Description</b>
0P3M3	MAN
0P3MA	Trucks
0P3M8	NHMR
0P2U9	Chassis
0P2UC	Chassis class, heavy
0P3GA	Destination: Germany (DE)
0P8LN	Merchant tonnage 41 t
0PGCU	Basic layout of vehicle, all-round
0P2TQ	Frame type, medium-high
0P2UT	Vehicle type Truck mixer (TM)
0P3AS	Left-hand-drive
0P3F5	Right-hand traffic
0P2L6	Vehicle documents in German
0P8NL	Labelling in German
0T0CB	Type truck 39E
0P6C7	D20R6N_EURO5_L
0P6UQ	TM_NN_2505_1250
0PGDK	NN_S
0PHBE	Cab position 640 mm (distance from frame lower edge to cab floor)

**Registration**

0P3JR	Vehicle approval, N3 class
0P2UJ	Maximum speed limiter, 89 km/h, tolerance +1 km/h, electronic, engine speed regulation
0PINC	Maximum vehicle noise level, 80 dB in acc. with UN/ECE-R 51.02
0PHA1	Height over cab, unloaded up to 4,000 mm
0PHDB	Swing out of vehicle rear up to 800 mm/1,000 mm with raised or steered last axle

**Documents**

0P3AQ	Registration documentation, international (COC)
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0P3AU	Supplier declaration
0P3B0	Without registration documentation, national

#### **Application scope / transport tasks**

0P0H7	Vehicle version municipal/public service deployment
0P6WH	Construction
0P2QG	021 Tipper, three-way
0P0G7	Temperate range, vehicle deployment, moderate
0P4F0	Case hardness of final drive Distribution

#### **Lines, editions and packages**

##### **Horizontal and vertical loads**

0P5QM	32,000 kg permitted gross load, vertical, nat. appr.
0P5UH	35,000 kg permitted gross load, vertical, tech.
0P8H6	35,000 kg permitted gross load, vertical, tech. Plus
0P5KR	7,500 kg permitted load on front axle, nat. appr.
0P5LL	7,500 kg permitted load on front axle, tech.
0P8D1	7,500 kg permitted load on front axle, tech. Plus
0P5FZ	7,500 kg permitted load on 2nd front axle NatZu
0P5NK	7,500 kg permitted load on 2nd front axle, tech.
0P7TU	7,500 kg permitted load on 2nd front axle, tech. Plus
0P7PF	7500/7500kg load variant, vertical, front axles, national registration, T1=15000
0P7QQ	7500/7500kg load variant, vertical, front axles, tech., T1=15000
0P7SO	7500/7500kg load variant, vertical, front axles, tech. plus, T1=15000
0P5GR	9,000 kg permitted load on rear axle NatZu
0P5IK	12,000 kg permitted load on rear axle, tech.
0P8BP	12,000 kg permitted load on rear axle, tech. Plus
0P5FC	9,000 kg permitted load on 2nd rear axle NatZu
0P5M6	12,000 kg permitted load on 2nd rear axle, tech.
0P7TE	12,000 kg permitted load on 2nd rear axle, tech. Plus
0P7CJ	0/9000/9000/0kg load variant, vertical, rear axles, national registration, T2=18000
0P7IB	0/12000/12000/0kg load variant, vertical, rear axles, tech., T2=24000
0P7NM	0/12000/12000/0kg load variant, vertical, rear axles, tech. plus, T2=24000
0P7T8	15000kg permissible load on axle group T1, national registration
0P7VJ	15000kg permissible load on axle group T1, tech.
0P7WS	15000kg permissible load on axle group T1, tech. plus
0P7YI	18000kg permissible load on axle group T2, national registration
0P7ZB	24000kg permissible load on axle group T2, tech.
0P7Z2	24000kg permissible load on axle group T2, tech. plus
0PFYQ	Load key, vertical, 201
0P8XD	0kN D value
0P9E1	0/0kg load variant, horizontal, assign., national registration
0PAPJ	0/0kg load variant, horizontal, assign., tech. hom.
0P9TI	0/0kg load var., hor., assign., tech. plus, D-value=0kN, without gradeability restrictions
0P9B9	Load key, horizontal, 063

#### **Chassis**

**Vehicle frame (wheelbase, overhang, ...)**

0P2YQ	Main wheelbase, 2,505 mm
0P3C1	Wheelbase between front axles, 1,795 mm
0P3BX	Wheelbase between rear axles, 1,400 mm
0P3CY	Frame overhang, rear, 1,250 mm
0P0Y7	Main frame side member thickness, 9.5 mm
0P0XT	Vehicle rear, straight end of frame
0P6YC	Top coating, chassis

**Exhaust system, air intake**

0P1BH	Exhaust silencer, side, right
0P1BN	Exhaust tailpipe, behind cab, right, vertical, with outlet valve

**Battery cases, batteries, alternator**

0P0WA	Battery, 12 V, 175 Ah, 2 units, maintenance free
0P1BV	Alternator, Basic
0P0WU	Medium battery box, 2 batteries
0P0WO	Battery box, left
0P0WF	Main battery switch, mechanical
0P1V1	Fuses

**Tanks and fuel line**

0P4E8	Fuel tank capacity 300 l, right
0P4GN	Fuel tank, right, steel
0P4HF	Tank cross-section, right, low
0P8N3	AdBlue tank capacity 35 l, left
0P4H1	AdBlue tank, left, plastic
0P4H5	Fuel tank cap, lockable for master key system
0P4GE	Cap for AdBlue tank, lockable

**Frame attachments**

0P1FM	Without underride protection, front
0P0VH	Without working platform
0P1FH	Underride protection, side
0P1SB	Final cross member, with hole pattern 160 x 100 mm
0P1FD	Underride protection, rear, round
0P6WX	Wheel chock, two units, without retaining device, delivered loose

**Pneumatic brakes, compressed-air generation, brake system**

0P0AF	Air compressor, 1-cylinder, 360 ccm
0P0AB	Compressed-air treatment, pneumatically controlled
0P0XH	Steel compressed-air tank
0P0BL	Electronic brake system (EBS)
0P0BE	Anti-lock braking system (ABS)
0P0CM	Full brake assistant
0P0BW	MAN EVBec high-performance engine brake, stages possible
0P1I9	Disc brakes on front axle

0P1II	Disc brakes on 2nd front axle
0P1I5	Drum brakes on rear axle
0P1IF	Drum brakes on 2nd rear axle
0P3KH	Parking brake control, next to driver's seat
0PGBL	Parking brake with spring-type actuator on rear axles (incl. leading axle/ trailing axle)

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

0P2AQ	Rear lights
0P2AD	Light function test
0P2BJ	Side marker lights, LED

#### **Driveline/running gear**

##### **Engine, radiator**

0P6BD	Diesel engine MAN D2066 LF41, 294 kW (400 hp) output, 1,900 Nm torque, Euro 5
0PHIF	Fuel filter, heated, for fuels up to Cleanliness Class 21
0P0AU	Fuel pre-filter, with oil separator/water trap, heated
0P8PN	Ventilation, crankcase, open
0P2E7	Anti-noise skirt, engine
0P1YE	Reduction of dust swirl through radiator fan
0P4XX	Engine cooler, normal length
0P1XE	Radiator protection, lower
0P0B6	Engine oil dipstick and digital oil level gauge
0P0KA	Warning message for engine coolant level, with advance warning
0P0AK	Antifreeze, down to -32 °C
0P0GD	Flame-start system
0P1X4	Cover for intercooler

##### **Gearbox, clutch**

0P5VL	Manually operated gearbox, MAN 16.25 OD
0PGCL	Gearbox for increased percentage of overrun during driving operation
0P3KL	Manual gearbox operation, single-H, group/split switch
0P0DT	Single-disc clutch, 430 mm, dry

##### **Wheels, tyres**

0PFW2	Required tyre speed index J
0PEXT	Front axle tyres optionally 315/80R22.5 Steering-Road+Offroad TL (156/150 K)
0P0P0	Rim type, front axle, steel, single-part
0P0NI	Rim size, front axle, 10-hole, 9.00x22.5
0P0PR	Wheel nut cover ring, front axle
0PFIO	Tyres 2nd front axle optional 315/80R22.5 steer S+G TL (156/150 K)
0P0PF	Rim type, 2nd front axle, steel, 1-part
0P0OH	Rim size, 2nd front axle, 10-hole, 9.00x22.5
0P0Q3	Wheel nut cover ring, 2nd front axle
0PDRX	Rear axle tyres optionally 315/80R22.5 Drive-Road+Offroad TL (154/150 K)
0P0OO	Rim type, rear axle, steel, single-part
0P0MU	Rim size, rear axle, 10-hole, 9.00x22.5
0PEA2	Tyres for 2nd rear axle optionally 315/80R22.5 Drive-Road+Offroad TL (154/150 K)

0P0PA	Rim type, 2nd rear axle, steel, single-part
0P0O7	Rim size, 2nd rear axle, 10-hole, 9.00x22.5
0P6YL	Top coating, rims, steel, white-aluminium

#### **Axles**

0P3BI	8x4
0P1JX	Steering ratio, standard
0P1JV	Steering oil tank with electrical measuring sensor
0P5EX	Front axle, 9,200 kg, not driven, straight, steered, not liftable
0P1AT	Mudguard, front axle
0P1XS	Splash guard mat on mudguard, front axle, longer at bottom
0P4ZH	2nd front axle, 9,200 kg, not driven, straight, steered, not liftable
0P1B8	Mudguard, 2nd front axle, removable upper shell
0P1Y4	Splash guard mat on mudguard, 2nd front axle, longer at bottom
0P4ZM	Rear axle, 13,000 kg, planetary axle with drive shaft, straight, not steered, not liftable
0P1HN	Twin tyre on rear axle
0P4Y7	2nd rear axle, 13,000 kg, planetary axle without drive shaft, straight, not steered, not liftable
0P1HW	Twin tyre on 2nd rear axle
0P0D2	Axle ratio, $i = 4.00$
0P0DI	Differential locks on driven rear axles
0P0DL	Without differential locks, front axles
0P1KO	Emergency steering pump

#### **Axle control system and suspension**

0P2YB	Suspension type for front axles and driven rear axles, leaf/leaf (BB)
0P1JE	Leaf-spring suspension on front axle, parabolic, 3-leaf, steel
0P1JS	Leaf-spring suspension on 2nd front axle, parabolic, 3-leaf, steel
0P1IY	Leaf-spring suspension on rear axle, progressive, steel
0P1JI	Leaf-spring suspension on 2nd rear axle, progressive, steel
0P5C2	Spring load-bearing capacity front axle 8,000 kg
0P5DE	Spring load-bearing capacity of 2nd front axle, 8,000 kg
0P5BV	Spring load-bearing capacity of rear axle, 13,000 kg
0P5C7	Spring load-bearing capacity of 2nd rear axle, 13,000 kg
0P1M4	Shock absorbers on front axle
0P1ME	Shock absorbers on 2nd front axle
0P1LQ	Shock absorbers on rear axle
0P1M9	Shock absorbers on 2nd rear axle
0P1LD	Stabiliser, front axle
0P1LA	Stabiliser, rear axle
0P1LH	Stabiliser, 2nd rear axle
0P6ZR	Wishbone

#### **Cab**

##### **Cab and cab exterior**

0P6YB	Top coating, cab
0P6YQ	Textured coating, bumper, steel
0P6X9	Textured coating, step units

0P6YG	Textured coating, mudguard, behind cab
0P2DL	Local transport cab NN
0P1V8	Cab mount, Basic
0P1V6	Cab tilt mechanism, manual
0P1VY	No tilting roof/sliding roof
0P1SG	Bumper, steel, 3 pieces
0P1VE	Front step, integrated, with grab option
0P1X0	Windscreen, composite safety glass, tinted
0P1WK	Sunblind, in front of windscreen
0P1WG	Wiper system for windscreen
0P1UL	Wiper activation, manual
0P1V0	Step unit, hinged
0P1WS	Central locking, no remote control
0P3JT	Vehicle key, 2 units
0P1WV	No door extension
0P2DQ	Door labelling, according to trade tonnage of vehicle
0P1WO	Door windows, tinted
0P1WM	Door window, safety glass
0P1VB	Cab rear wall, with window

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

0P1ZN	Front headlights, H7
0P1ZT	Stone protection for front headlights, guard, wide mesh
0P2BP	Daytime driving lights, LED
0P2AC	Headlight beam regulator, manual
0P1ZF	Driving-light control, manual
0P2BS	Contour lights, LED, 2 units
0P1Z6	Turn signal lights, sides, bulb
0P1W1	Horn, two-tone, electrical
0P2A5	Preparation for loading area lighting

#### **Mirrors and mirror replacements**

0P2CC	Exterior rear-view mirror, mechanically adjustable
0P2CP	Mirror housing, not painted
0P2CT	Rear-view mirror arms, suitable for body width 2,500 mm to 2,600 mm
0P2CH	Kerb mirror, right, mechanically adjustable
0P2CJ	Front mirror, mechanical adjustment

#### **Seats**

0P2PQ	Seat covers, fabric, standard
0P2P2	Comfort driver's seat, air-sprung
0P4XQ	Adjustment of seat belt height, driver's seat
0P2OO	Co-driver's seat, not sprung, with storage box
0P2Q6	Storage space, in seat bracket of co-driver's seat

#### **Driver's workplace**

0P2GD	Multi-function steering wheel, adjustable height and angle
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0P2GE	Steering wheel, with parking position
0P3JZ	Steering lock
0P3L3	Instrumentation, Basic km/h
0P2KY	Tachograph Simulation Unit (TSU), instead of tachograph
0P2KG	Tachograph, calibrated
0P2FA	2 pull-out cup holders in instrument panel
0P2FJ	Single DIN slots, 4 units, roof space, front

#### **Cab air-conditioning system**

0P2NU	Air-conditioning system, manual
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#### **Bunk area**

##### **Cab interior**

0P2I6	Colour scheme for interior styling, dark
0PGBT	Interior styling analogous to colour scheme
0P2FE	Windscreen roller blind, internal
0PHA6	Interior light, central
0P2IQ	Reading light, 1 unit, driver's side
0P2IO	Entry lighting
0P2IA	Door interior cladding, washable
0P2HJ	Drawer, 1 unit, instrument panel in middle section
0P2F2	Storage box, cab rear wall, 2 units, behind driver's and co-driver's sides
0P2G2	Grab handle, above door, internal, 2 units, 1 right and 1 left
0PHPK	Entry handles, standard

#### **Accessories and tools**

0P3F6	No jack
0P3F1	Warning triangle, 1 units
0P3F3	First aid kit

#### **Intelligent Truck**

##### **Assistance systems**

0P1TR	Tempomat (cruise control, CC)
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##### **Infotainment (radio,...)**

0P2M1	MMT infotainment system, Starter Basic
0P2MF	MAN loudspeaker system
0P2N2	No navigation map
0P2MO	MAN TeleMatics

#### **Bodies/interfaces**

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

0P1O3	Without trailer brake connection behind cab
0P1RJ	No fifth-wheel coupling

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

0P1NQ	Without trailer/towing coupling on final cross member
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0P1SQ	Preparation for trailer coupling on final cross member
0P1O0	Without trailer brake connection at end of frame, centre
0P1OW	Without trailer socket at frame end
0P1O9	Without trailer socket for anti-lock brake system (ABS)

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

0P0XE	Compressed-air connection for body supply
0P0K8	Preparation for engine start/stop facility, under front panel
0PHPE	Interface for data exchange with body (customer-specific control module) and intermediate engine speed (ZDR), behind front panel and behind cab
0P2J3	Display of workshop data for body, control module for ext. data exchange (customer-specific control module) with body functions

#### **Attachments and interfaces to attachments (e.g. silo compressor, front mounting plate,...)**

##### **PTOs**

0P4N8	PTO, engine-dependent, non-shiftable
0P4W7	Preparation for PTO, engine-dependent, flywheel side, $f=1.233$ speed factor
0P4OS	Preparation for PTO, engine-dependent
0P4QK	PTO, gearbox-dependent, type NH/4c, without flange, $f=1.17/1.40$ , position approx. 4 o'clock
0P4VK	PTO, gearbox-dependent, for short-time operation less than 60 min
0P4X9	PTO, gearbox-dependent, shiftable
0P4W0	Function parameters for PTO, gearbox-dependent, stationary operation
0P4VS	Gearbox shift blocking for PTO operation, pneumatic
0P4X2	Sector-specific parameterisation for truck mixer (working speed control)

#### **Towing, recovery and lashing**

0P1MK	Central coupling jaw, integrated in bumper/front cross member, with lock pin
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DE01P	Prüfbuch
DE02G	Serienmäßige Garantie
DE04A	1 MAN Fahrerjacke, reflektierend (Damen/Herren)
DE19A	Auslieferungspaket: Technische Einweisung im Servicestützpunkt nach Aufbaufertigstellung

#### **Wheel**

Front axle	Front axle tyres optionally 315/80R22.5 Steering-Road+Offroad TL (156/150 K) Rim type, front axle, steel, single-part Rim size, front axle, 10-hole, 9.00x22.5
Front axle 2	Tyres 2nd front axle optional 315/80R22.5 steer S+G TL (156/150 K) Rim type, 2nd front axle, steel, 1-part Rim size, 2nd front axle, 10-hole, 9.00x22.5
Rear axle	Rear axle tyres optionally 315/80R22.5 Drive-Road+Offroad TL (154/150 K) Rim type, rear axle, steel, single-part Rim size, rear axle, 10-hole, 9.00x22.5
Rear axle 2	Tyres for 2nd rear axle optionally 315/80R22.5 Drive-Road+Offroad TL (154/150 K) Rim type, 2nd rear axle, steel, single-part Rim size, 2nd rear axle, 10-hole, 9.00x22.5

#### **Colour**

Chassis	GRAPHITE BLACK RAL 9011 - Water
Cab	PURE WHITE RAL 9010 - Normal



### **Ready-mix concrete mixer EM10R - Regular Drum**

- Nominal volume 10m<sup>3</sup> ready-mixed concrete
- Mixing drum in "Regular" design
- Mixing drum in light construction made of **steel S355**
- Mixing drum made of **S355 in 5mm**
- Mixing spirals in the center made of **S355 in 5mm**

#### **Drive**

- Gearbox make **ZF-P5300**
- Hydraulic pump make **Bosch Rexroth**
- Hydraulic motor make **Bosch Rexroth**
- Oil cooling system integrated

#### **Water system**

- Water tank 500l (compressed air)
- Water tank steel
- Stopcock below the water tank mounted in the filling line
- water connection "C"-coupling, one-sided
- Compressed air water system
- Water connection at the stand platform with hose line

#### **Mixer body**

- Mudguards made of aluminum (corrugated) above the rear axles
- 2x extension troughs made of plastic incl. holder
- Mixing drum with a service flap
- Climbing ladder with stand platform
- Feed hopper
- Rubber attachment on the feed hopper
- Swiveling, single-arm discharge chute
- Wear plates in feed hopper, discharge pan and swivel chute
- Drum locking device to secure the drum during maintenance work
- Polyurethane primer
- Weight approx. 3.965kg, +/- 5% deviations

#### **Assembly**

- Assembly of the mixer on chassis
- (Any modifications or additions to the chassis will be charged at cost).
- Rear underride guard rigid
  - Connection to EMC interface
- (Interface must be available on truck side)
- TÜV acceptance

**Operation & electrics**

- Mixer operation - mechanical
- Start-stop system (with EDC)
- Mix drive mixer control
- with emergency stop function according to EU safety technology

**Painting**

- painted one color in white

**Options:**

- Additional extension chute (plastic or steel)
- Folding chute plastic (or steel)
- Retention flap swivel chute
- Dust box plastic or stainless steel
- Additional tool container (plastic non-pressurized or stainless steel compressed air)
- Tool holder (broom, shovel, trowel)
- pneumatic  $\frac{3}{4}$  drum lock
- rear view camera
- LED working light
- Intelligent drum control (electric drum control)
- step on the underride guard
- water gauge
- Pressure gauge
- Frame cover
- Fire extinguisher
- Support for flowing concrete pipe (5 m long)
- Transition piece to the flowing concrete pipe (reducing chute)
- Hydraulic chute support

**Warranty/ Guarantee**

The warranty period for the entire body is 12 months from delivery, 24 months for the gearbox, hydraulic motor and hydraulic pump, and 60 months for the drum walls including the spirals.

Warranty claims can only be made if there is evidence of use with finished concrete bars, in single-shift operation and if a free annual drum inspection has been carried out at our factory.