

## MANTED®-data

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### Vehicle main data

MAN code	ZOTN6LLY (25.01.2021 08:36)		
Variant	TGS 33.480 6x4 BB SA	Frame side member profile	270 x 85 x 8 (Profile number: 31)
Wheelbase	3600 + 1400	Frame overhang	700
Type code	26K (0T0BN)		
Cab	Long-haul transport cab with mid-height roof FM (0P2DG)		
Vehicle kind	Vehicle type Semitrailer tractor (SA) (0P2UR)		
steering	Left-hand-drive (0P3AS)		
type	Frame type, normal height (0P2TS)		
Engine	Diesel engine MAN D2676 LF03, 353 kW (480 hp) output, 2,300 Nm torque, Euro 2 (0P6BO)		
Application segment	Long-haul transport, standard (0P6WE)		
Body designation	042 SZM Heavy-duty transport (0P2QN)		

## Equipment

### Suspension

Leaf-spring suspension on front axle, parabolic, 3-leaf, steel	0P1JE	Leaf-spring suspension on rear axle, parabolic, 5-leaf, steel	0P1J2
Leaf-spring suspension on 2nd rear axle, parabolic, 5-leaf, steel	0P1JL		

### Axles

#### Axle type

Front axle, 9,200 kg, not driven, cranked, steered, not liftable	0P5EV	Without 2nd front axle	0P4ZI
Without leading axle	0P5E5	Rear axle, 13,000 kg, planetary axle with drive shaft, straight, not steered, not liftable	0P4ZM
2nd rear axle, 13,000 kg, planetary axle without drive shaft, straight, not steered, not liftable	0P4Y7	Without trailing axle	0P4Z3

#### Axle drive

Rear axle as planetary axle, driven, permanent	0P1GU		
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#### Brake version

Disc brakes on front axle	0P1I9	Drum brakes on rear axle	0P1I5
Drum brakes on 2nd rear axle	0P1IF		

#### Manoeuvrability

Front axle, steered	0P1K4		
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#### Axle ratio

Axle ratio, i = 4.33	0P0D6		
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### Wheels

#### Felgen

Rim size, front axle, 10-hole, 11.75x22.5	0P0NB	Rim size, rear axle, 10-hole, 9.00x22.5	0P0MU
Rim size, 2nd rear axle, 10-hole, 9.00x22.5	0P0O7		

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### Tyres

Front axle tyres Michelin 385/65R22.5 XZY3 Steering-Road+Offroad TL	0PEWZ	Rear axle tyres Michelin 315/80R22.5 WORKS D Drive-Road+Offroad TL	0PDQH
Tyres for 2nd rear axle Michelin 315/80R22.5 WORKS D Drive-Road+Offroad TL	0PDZ8		

### Trailer coupling

Towing coupling at final cross member, ROCKINGER SK5	0P1MZ	SAF Holland SK-HD 38.36 3.5" fifth-wheel coupling	0P1RO
Without ball-head coupling	0P1R6	Without trailer/towing coupling at double final cross member, bottom	0P1NV
Without trailer/towing coupling on low coupling mount	0P1NT		

### Compressed-air system

#### Compressed air tank

Aluminium compressed-air tank	0P0XG	Without compressed-air tank installation	0P0WV
Without compressed-air tank, additional	0P1GN		

#### Compressed-air connection body supply

Without compressed-air connection for body supply	0P0XF		
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#### Compressed-air connection trailer

Without trailer brake connection at end of frame, left	0P1NY	Without trailer-brake connections on front of vehicle	0P6WV
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### Electrics

#### Battery

2 batteries, 12 V, 180 Ah, long-life (EFB), maintenance free	0PGB1		
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#### Alternator

Three-phase alternator 28 V, 120 A, 3,360 W, Longlife Eco	0P1BW		
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#### Interface for body

Interface for data exch. with body (customer-specific control module) and engine intermediate speed control (ZDR), behind cab front panel	0P2NA	Without electrical preparation for gritter (displacement/speed signal)	0P2KL
Without preparation, electrical, for hydraulic liftgate	0P1G1	Preparation for engine start/stop facility, under front panel	0P0K8
Without preparation for additional speed limitation, engine speed regulation	0P0CN	No additional wiring harness for rear lights	0P2AU

#### Fuses for body

No safety devices, electric, for non-MAN bodies	0P1V4		
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#### Air suspension control

Without ECAS parameter input for lowering air suspension	0P1KR	Without ECAS parameterisation for auxiliary circuit for suppression of level control	0P1KV
Without parameter input, additional ECAS operating options	0P1KZ		

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### Electrical connections for trailer

Without adapter for trailer socket on rear of vehicle	0P8KS	Without adapter for trailer socket on frame end, central	0P8OC
Trailer socket for anti-lock braking system (ABS), behind cab	0P1O5	Trailer socket, frame end, 24 V, 15-pin	0P1OM
Without trailer socket on low coupling mount	0P1P0	Without additional trailer socket at frame end	0P1T1

### Gas system

Exhaust silencer, side, right	0P1BH	Exhaust tailpipe, behind cab, right, vertical, with exhaust manifold	0P1BP
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### fuel tank

#### Diesel tank

Fuel tank capacity 590 l, right	0P4EL	Fuel tank, right, aluminium	0P4GM
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### Luftansaugung

Air intake, behind cab, raised	0P0AY		
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### gearbox/power take-offs

#### Gearbox

MAN TipMatic 12.28 OD, with retarder 35	0P5VX		
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#### Power take-off

PTO, gearbox-dependent, type NH/4c, without flange, f=1.14, position approx. 2:30 o'clock	0P4QY	Preparation for PTO, engine-dependent, flywheel side, f=1.233 speed factor	0P4W7
Without power take-off on transfer case	0P4YC	Without PTO, PTO-dependent	0P4TE

### Guard plates

Mudguard, front axle	0P1AT	Without mudguards on 2nd front axle	0P1BA
Without mudguards on leading axle	0P1AW	Mudguard, rear axle, upper shell removable	0P1AM
Mudguard, 2nd rear axle, removable upper shell	0P1B3	Without mudguards on trailing axle	0P1AS

### Underride protection

Underride protection, front	0P1FN	Without underride protection, side	0P1FG
Without underride protection, rear	0P1FB		

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## Dimensions

### Longitudinal Dimensions

Total length (BEP-L001)	7307	Theoretical wheelbase (BEP-L015)	4300
Front overhang according (BEP-L016)	1607	Front overhang according to 2007/46	1475
Rear frame overhang (BEP-L019)	700	Middle front axle to end of cab (BEP-L063)	805
Distance from first front axle to body (BEP-L102)	1004	Length of frame behind cab	4696
Back edge of final cross member to last wheel middle (final cross member)	700	Back edge of the final cross member to last wheel middle (low coupling system)	-
Front edge to coupling kingpin	7245	Distance to kingpin from front axle, nominal position (BEP-L073)	3875
Distance to kingpin from rear axle, nominal position (BEP-L076)	275	Fifth wheel lead	1125
Body centre of gravity, front position	3779	Centre of gravity, rearmost position	3964
Minimal body length	5550	Maximale Aufbauhöhe	5921

### Width Dimensions

Overall chassis width with cab (BEP-W001)	2981	Width above cab (BEP-W002)	2240
Frame width in front area (BEP-W035)	940	Frame width in rear area (BEP-W036)	760

### Height Dimensions

Maximum external height, unladen (BEP-H001)	3478	Maximum external height, laden (BEP-H002)	3380
Frame height at theoretical rear wheelbase, unladen (BEP-H039)	1065	Frame height at theoretical rear wheelbase, laden (BEP-H040)	981
Lifting from the driving position, front (BEP-H046)	0	Lowering from the driving position, front (BEP-H047)	0
Lifting from driving position, rear (BEP-H048)	0	Lowering from the driving position, front (BEP-H049)	0
Fifth-wheel height above ground, unladen	1379	Fifth-wheel height above ground level, laden	1295
Ability to drive through water in accordance with DIN 14502-2	-		

### Circle Dimensions and Radii

Turning track diameter (BEP-W011)	17.6	Turning circle diameter (BEP-W012)	19.3
Slew radius front (BEP-L078)	2910	Slew radius rear (BEP-L079)	2212

### Disclaimer:

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## Weights

<b>Weight</b>			
Chassis weight with cab	9778	Weight of chassis at front	5189
Weight of chassis at rear	4589	Payload	23222
<b>Legally permissible loads</b>			
Legally permissible axle load on the 1st axle (BEP-M041.1)	8000	Legally permissible axle load on the 2nd axle (BEP-M041.2)	13000
Legally permissible axle load on the 3rd axle (BEP-M041.3)	13000	Legally permissible axle load on the 4th axle (BEP-M041.4)	0
Legally permissible axle load on the 5th axle (BEP-M041.5)	0	Legally permissible axle load on the 6th axle (BEP-M041.6)	0
Legally permissible overall vehicle weight (BEP-M002)	33000	Legally permissible gross train weight	44000
Legally permissible trailer load (BEP-M011)	0		
<b>Technically permissible loads</b>			
Technically permissible axle load on the 1st axle (BEP-M040.1)	8000	Technically permissible axle load on the 2nd axle (BEP-M040.2)	13000
Technically permissible axle load on the 3rd axle (BEP-M040.3)	13000	Technically permissible axle load on the 4th axle (BEP-M040.4)	0
Technically permissible axle load on the 5th axle (BEP-M040.5)	0	Technically permissible axle load on the 6th axle (BEP-M040.6)	0
Technically permissible gross vehicle weight (BEP-M001)	33000	Technically permissible gross train weight	44000
Technically permissible trailer load (BEP-M010)	0		
<b>Technically Plus permissible loads</b>			
Technically Plus permissible axle load on the 1st axle	8000	Technically Plus permissible axle load on the 2nd axle	13000
Technically Plus permissible axle load on the 3rd axle	13000	Technically Plus permissible axle load on the 4th axle	0
Technically Plus permissible axle load on the 5th axle	0	Technically Plus permissible axle load on the 6th axle	0
Technically Plus permissible gross vehicle weight	33000	Technically Plus permissible gross train weight	44000
Technically Plus permissible trailer load	0		

## Body calculation

No data available.

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## Drawings

### Chassis drawing

#### 2D chassis drawing

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No data available.

#### 3D complete vehicle model

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No data available.

Cable routing is not shown on the chassis drawing.

### Frame rails

#### Frame rails left (81.41164-0415)

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DWF	81-41164-0415_1_C.dwf
DWG	81-41164-0415_1_C.zip
DXF	81-41164-0415_1_C.zip
PDF	81-41164-0415_1_C.pdf

#### Frame rails right (81.41174-0415)

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DWF	81-41174-0415_1_C.dwf
DWG	81-41174-0415_1_C.zip
DXF	81-41174-0415_1_C.zip
PDF	81-41174-0415_1_C.pdf

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## Power take offs

Direction of rotation is to be understood as 'looking towards the journal', i.e. towards the point of output. Tables and schematic representation see MANTED Guide to Fitting Bodies.

### PTO to gearbox - gearbox-dependent

#### PTO (ISO 21308: BEP-G121.n)

manufacturer	ZF	Description (ISO 21308: BEP-G120.n)	NH/4c
Connection	Pump	version	ISO 7653
installation location	gearbox end	Weight	5.5
oil volume	0.5	Operating time at max. 110° oil temperature	short-time operation (<60 min)
rotation direction	links	permitted mass moment	50.0
expandable	Yes	Comment	-
Sales code	0P4QY		

#### Gearbox

manufacturer	ZF	Description (ISO 21308: BEP-G050)	12TX-2821 TO
Variant	mit Intarder	sale designation	MAN TipMatic® 12 28 OD mit Retarder 35
transmission bell housing (TBH)	integrated	Diameter main drive flange	180
length (TBH up to MOF)	910	weight filled	352
min. transmission	12.92	max. transmission	0.77
Comment	-	SAE connection	1
Sales code	0P5VX		

#### Position, DN factor, torque in Nm

position of power take-off at the gearbox	rechts	speed factor f fast	1.13
speed factor f slow	0.00	Max. output torque at 1500 revolutions at PTO	430

#### Hint:

A point of output is assigned. The maximum output torque is possible.

#### Installation position

from first front axle	1403	below frame upper edge	-245
right of the vehicle centre	217		

All dimensions relate to centre of the power take-off or the rear edge of the flange or pump mounting surface.  
+/- 25 mm tolerance in each direction.

### PTO to gearbox - PTO-dependent

No data available.

### PTO - engine-dependent

No data available.