

Contents of this configuration

Contents of this configuration	2
Vehicle description	3
Vehicle Standard data	3
Permissible Weight	3
Configuration for: TGS 40.480 6X6 BB-WW / L58WAJ04	4
Colours	9
Drive line: TGS 40.480 6X6 BB-WW / L58WAJ04	10
Vehicle data Drive line	10
Results Drive line	11
Motor data: TGS 40.480 6X6 BB-WW / L58WAJ04	13
Chassis drawing: L58WAJ04 / TGS 40.480 6X6 BB-WW	14
Technical data: TGS 40.480 6X6 BB-WW / L58WAJ04	15
Available cabs: L58WAJ04 / TGS 40.480 6X6 BB-WW	16

Vehicle Standard data

Variant description	TGS 40.480 6X6 BB-WW
Basic vehicle	L58WAJ04
Number	
Emission class	EURO2
Vehicle type	Three-way tipper
Cab	M Cab
wheelbase	3900 mm
Overhang	800 mm
Steering layout	Left

Permissible Weight

	NATREG	TECHN	TECH+
Total weight	40000 Kg	40000 Kg	40000 Kg
Perm. Total weight	0 Kg	0 Kg	0 Kg
Front axle	9000 Kg	9000 Kg	9000 Kg
Rear axle	16000 Kg	16000 Kg	16000 Kg
Rear axle 2	16000 Kg	16000 Kg	16000 Kg

Key

NATREG	: National permissible weights
TECHN	: Technically permissible weights
TECH+	: Technically permissible weights including additional load for special deployment

Configuration for: TGS 40.480 6X6 BB-WW / L58WAJ04

Explanation: ■ = Equipment

Engine Cooling System Clutch

- Engine D2676LF03 - 480 HP / 353 KW EURO2 - 2,300 Nm common rail (018KP)
- extended radiator and intercooler over 35 degrees ambient temperature (027AX)
- visco fan (116AE)
- Short mounting base (engine only) (118EK)
- EDC engine regulation (118MA)
- fuel filter (124AL)
- Auxiliary fuel filter with water separator (124AZ)
- connection for external engine speed control (ZDR) (203EK)
- air compressor 1-cylinder, 360 ccm (205AN)
- without exhaust valve brake (EVB) (208XD)
- Without flame-start/jump-start system (210XX)
- single-plate clutch MFZ 430 (211FF)
- stoneguard grille in front of radiator (280EU)
- Electronic speed limiter 89 km/h + 1km/h tolerance (345AU)
- Cruise control (345EA)
- anti-noise measures are not in accordance with EU standard (542FX)
- confirmation for international registration (542IZ)

Intake / Exhaust System

- air intake upswept with dry air filter / precleaner (201AR)
- Air filter cartridge with safety insert for heavy-duty deployment (201EM)
- exhaust upswept right (206AP)

Gearbox

- gearbox ZF 16 S 252 OD (022GE)

Transfer case

- transfer case G172 (146KA)

Power Take-Offs

- PTO NH/4C without flange f=1.17/1.40 right horizontal (122QN)
- tipper display in cab (symbols) (133MF)

Front Axle / Front Springs / Front Axle Load

- front axle VP-09 driven (025MS)
- front springs parabolic 9,5 t (026EF)
- front wheel drive (dis)engageable (146AF)

Rear Axle / Rear Springs / Rear Axle Load

- front axle breather upswept (227AA)
- high design (281AA)
- Stabiliser for front axle (363AA)

Transmission ratios

- rear springs parabolic 16 t (028FP)
- Fit tandem axles (028PA)
- hub-reduction rear axle HPD-1682/ HP-1652 (034MS)
- with differential lock in rear axle (037AC)
- rear axle breather upswept (227AC)
- Stabiliser on both rear axles (362AH)

- planetary axle ratio $i = 4.33$ (035LF)









Rims

- Disc wheel 10-pin 8.5-24 as spare wheel TL (038VU)
- Disc wheels 10-hole 8.5-24 on 2nd rear axle TL (038WK)
- Disc wheels 10-hole 8.5-24 on 1st FA TL (038WN)
- Disc wheels 10-hole 8.5-24 on 1st RA TL (038WQ)
- without spare wheel holder (245XX)

Tyres

- | | |
|-------------|--|
| Front axle | <ul style="list-style-type: none"> ▪ 2 * WA 325/95R24 STEERED AXLE ON+OFF-ROAD TY-RES TL 162/160 K
81#R0000977 wahlweise Strg-S + G |
| Rear axle | <ul style="list-style-type: none"> ▪ 4 * WA 325/95R24 DRIVE AXLE ON+OFF-ROAD TYRES TL 162/160 K
81#R0000978 wahlweise Drive-S + G |
| Rear axle 2 | <ul style="list-style-type: none"> ▪ 4 * WA 325/95R24 DRIVE AXLE ON+OFF-ROAD TYRES TL 162/160 K
81#R0000978 wahlweise Drive-S + G |
| Spare tyre | <ul style="list-style-type: none"> ▪ 1 * WA 325/95R24 STEERED AXLE ON+OFF-ROAD TY-RES TL 162/160 K
81#R0000977 wahlweise Strg-S + G |

Label

	 Fuel efficiency class (A-G)	 Wet grip class (A-G)	 Rolling noise	 Rolling noise class (1-3)
Front axle	D	C	73 dB	
Rear axle	D	C	74 dB	
Rear axle 2	D	C	74 dB	
Spare tyre	D	C	73 dB	

Fuel Tanks

- fuel tank 300l right (023CT)
- fuel tank fitted (03KAA)
- guard plate for 1 tank (123AC)
- strainer for fuel tank (123CC)
- Lockable tank fastener - 1 u. ventilated for master key system (303AX)

Steering

- steering arrangement, left (001AA)
- steering wheel with height and inclination adjustment (030EE)
- steering wheel lock (256AA)

Frame

- Wheelbase 3900+1400 mm (005NW)
- rear frame overhang 800 mm (006CI)
- rear underride guard, roand (230AH)
- Without front underride guard (230XW)
- Without lateral underride guard (230YX)
- 3-part steel bumper (233EM)
- cross member for trailer coupling (236AF)
- body attachment brackets bolted (241AH)

Brake System

- MAN BrakeMatic (electronic brake system) (032AB)
- brake shoe width for rear axle 220 mm (034EC)
- anti-lock braking system (ABS) (258HA)
- drum brake for front axle (259CC)
- drum brake for rear axle (259CE)

Cab exterior

- without brake connection on frame end (262XX)
- Air dryer (370CM)
- M cab 2240mm wide, 1880mm long (050NN)
- without stowage boxes (052XA)
- front panel unlockable from inside (05NAE)
- Entry lighting for driver and co-driver (272FA)
- Cab mounts on coil springs for 'M' cab (283FB)
- Central locking (321EC)
- Windscreen of laminated glass tinted (380AC)
- Door windows tinted (380CA)
- Cab rear wall without windows (381AA)
- Side windows tinted behind B-post (385AT)
- Mechanical sliding roof (386AS)
- kerb mirror, right (392AH)
- Electrically heated and adjustable rear view mirror, heated wide-angle mirror (392CZ)
- Mirror brackets for body width 2500-2600 mm width 2500 mm (392HA)
- Without front mirror on co-driver's side/at centre (392XJ)
- without spray reduction facility (404XG)

Cab interior

- seat coverings in standard quality (058BA)
- driver's seat static, longitudinal, seat back and height adjustment (058NE)
- co-driver's seat static, with longitudinal + seat back adjustment (059NA)
- door interior panelling washable (080AE)
- Brushed aluminium insert on instrument panel (150WR)
- air conditioning system AC R134A without CFHC (153KA)
- without cab insulation NORDIC (against cold) for M, L and LX cab (159XS)
- fine dust and pollen filter (201FA)
- reading lamp for driver (319AR)
- Without Mattress for lower bunk (376XH)
- Without Mattress for upper bunk (376XK)
- No bunks for 'M' , 'C' , 'DK' cabs (376XL)
- Without curtain before bunks (381XC)
- Without all-roand curtain (381YX)
- Electric door window lifters for driver and co-driver (387AF)

	▪ Roller blind for windscreen, mechanical	(388AH)
	▪ handles left and right (on B-post)	(389AC)
	▪ handles left and right (on A-post)	(389AD)
	▪ without waste paper bins between the seats	(390XN)
	▪ without oddment box	(390XX)
	▪ Signs in French	(523AE)
	▪ Plastic floor and engine tunnel covering	(538AE)
Instruments	▪ instrument panel km/h 'High-Line'	(02AAE)
	▪ EC tachograph electronic - 2 drivers with engine speed recorder	(042CP)
	▪ MAN Tronic (on-board computer)	(325AA)
	▪ Language 1 'English' for display in instrument panel	(325EC)
	▪ Language 2 'French' for display in instrument panel	(325FE)
	▪ Display on the dashboard for operating data	(339FP)
	▪ charging pressure indicator	(346CA)
Lights	▪ Halogen twin headlights H7 for right-hand traffic	(310EE)
	▪ Protective grille for headlights headlights	(311AA)
	▪ lateral marker lights	(318AK)
Radio / Communication Systems	▪ MAN Media Truck radio, 12 V with five-inch colour display	(350NN)
	▪ Without navigation SD	(350XO)
	▪ AUX-IN/USB in the instrument panel	(351US)
Electrical System	▪ Two-tone horn,electric	(324AC)
	▪ Without tanker socket for ABS	(326XC)
	▪ Without 12/24 V socket on end of frame	(326XY)
	▪ Battery main switch, mechanical	(327AF)
	▪ Two 12-V 155-Ah batteries	(329CS)
	▪ Battery box up to 175 Ah	(329ER)
	▪ Maintenance sign for batteries - 'maintenance-free'	(329HC)
	▪ Basic alternator	(331AB)
Other	▪ operator's manual in English	(194AB)
	▪ additional operator's manual in FRENCH	(194EC)
	▪ antifreeze effective down to -35 degrees	(373AE)

	mudflap front	(400AH)
	Plastic mudguard rear (half-shell; without spray reduction)	(401CQ)
	Bonding set, separate	(405AC)
	hazard-warning sign	(405AK)
	Hazard-warning lamp	(405AR)
	lock for battery box	(406ED)
	Jack 25 t	(407AA)
	1 chock	(411AA)
Operation and Country-specific Items		
	General PTO parameterisation	(119EH)
	Fittings for right-hand traffic	(600AC)
Load variants and miscellaneous		
	Propshafts for high load profile	(029GC)
	Height over cab, unloaded up to 4000 mm	(798LF)

Drive line: TGS 40.480 6X6 BB-WW / L58WAJ04

Vehicle data Drive line

Transport task

Application Street
 Road speed 89 km/u
 Truck Combination Drawbar train
 Driving surface Asphalt street
 tyre profile Eco

Engine

Name Engine D2676LF03 - 480 HP / 353 KW
 EURO2 - 2,300 Nm common rail
 Power 480 HP (353 kW)
 Economy band 1320-1455 [rpm]
 Max. RPM 1900 [rpm]

Gearbox

Name gearbox ZF 16 S 252 OD
 Ratio 13,8-0,84

1	13.8	5	6.53	9	3.02	13	1.43
2	11.54	6	5.46	10	2.53	14	1.2
3	9.49	7	4.57	11	2.08	15	1.0
4	7.93	8	3.82	12	1.74	16	0.84

max. permissible total weight 160000 Kg
 Gears (forward/reverse) 16/2

Rear axle

Name hub-reduction rear axle HPD-1682/ HP-1652
 Construction type AP
 Load capacity 32000
 Ratio 4.33

max. permissible total weight 80000 Kg

Tyres rear axle

Name WA 325/95R24 DRIVE AXLE ON+OFF-ROAD
 TYRES TL 162/160 K
 Diameter 1227.0 mm
 Circumference 3743.0 mm
 Load capacity single/twin (axle) 9500/18000 Kg

Results Drive line

RPM for rating speed RPM for rating speed (89 km/u) 1460 [rpm]

Remaining gradability In the largest gear for Road speed 2.0 %

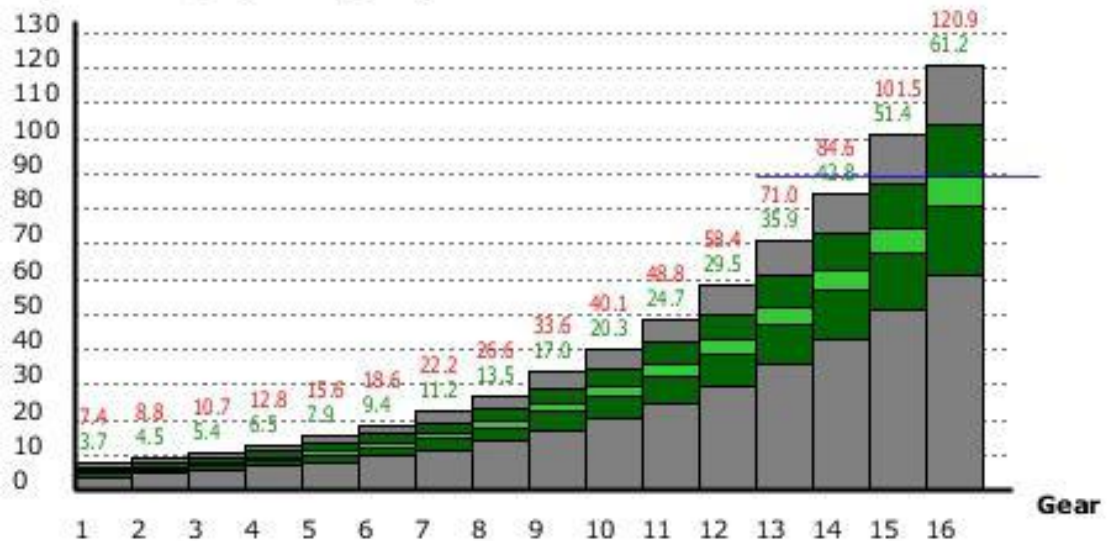
Traction Slipping barrier Asphalt street 60 %

Speed

Speed in km/h (Street gears)

Gear	Ratio at max. speed	at 1000 rpm	Gear	Ratio	at max. speed	at 1000 rpm
1	13.8	7.4	10	2.53	40.1	20.3
2	11.54	8.8	11	2.08	48.8	24.7
3	9.49	10.7	12	1.74	58.4	29.5
4	7.93	12.8	13	1.43	71.0	35.9
5	6.53	15.6	14	1.2	84.6	42.8
6	5.46	18.6	15	1.0	101.5	51.4
7	4.57	22.2	16	0.84	120.9	61.2
8	3.82	26.6	R1	12.92	7.9	4.0
9	3.02	33.6	R2	10.8	9.4	4.8

Speed in km/u (Street gears)

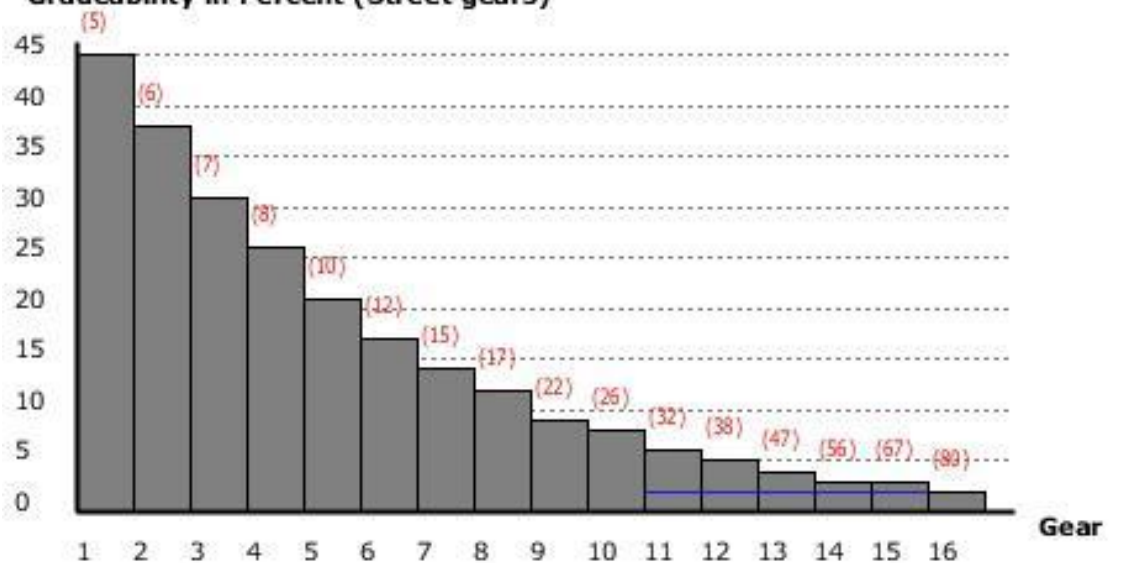


Gradeability

Climbing Ability in % / km/u With a max. torque

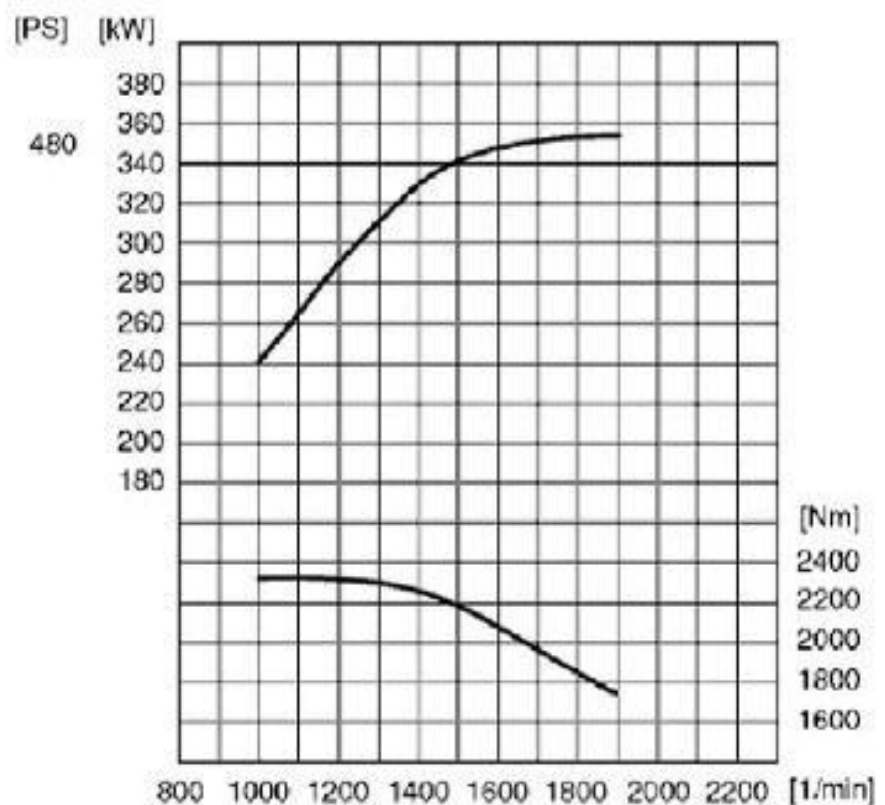
Gear	Ratio	Speed of street gears	Gradeability Street gears	Speed of terrain gears	Gradeability all-terrain gears
1	13.8	5.0	45	3.0	60
2	11.54	6.0	38	4.0	60
3	9.49	7.0	31	4.0	51
4	7.93	8.0	26	5.0	43
5	6.53	10.0	21	6.0	35
6	5.46	12.0	17	7.0	29
7	4.57	15.0	14	9.0	24
8	3.82	17.0	12	11.0	20
9	3.02	22.0	9	13.0	16
10	2.53	26.0	8	16.0	13
11	2.08	32.0	6	20.0	11
12	1.74	38.0	5	23.0	9
13	1.43	47.0	4	28.0	7
14	1.2	56.0	3	34.0	6
15	1.0	67.0	3	41.0	5
16	0.84	80.0	2	48.0	4
R1	12.92	5.0	42	3.0	60
R2	10.8	6.0	35	4.0	58

Gradeability in Percent (Street gears)

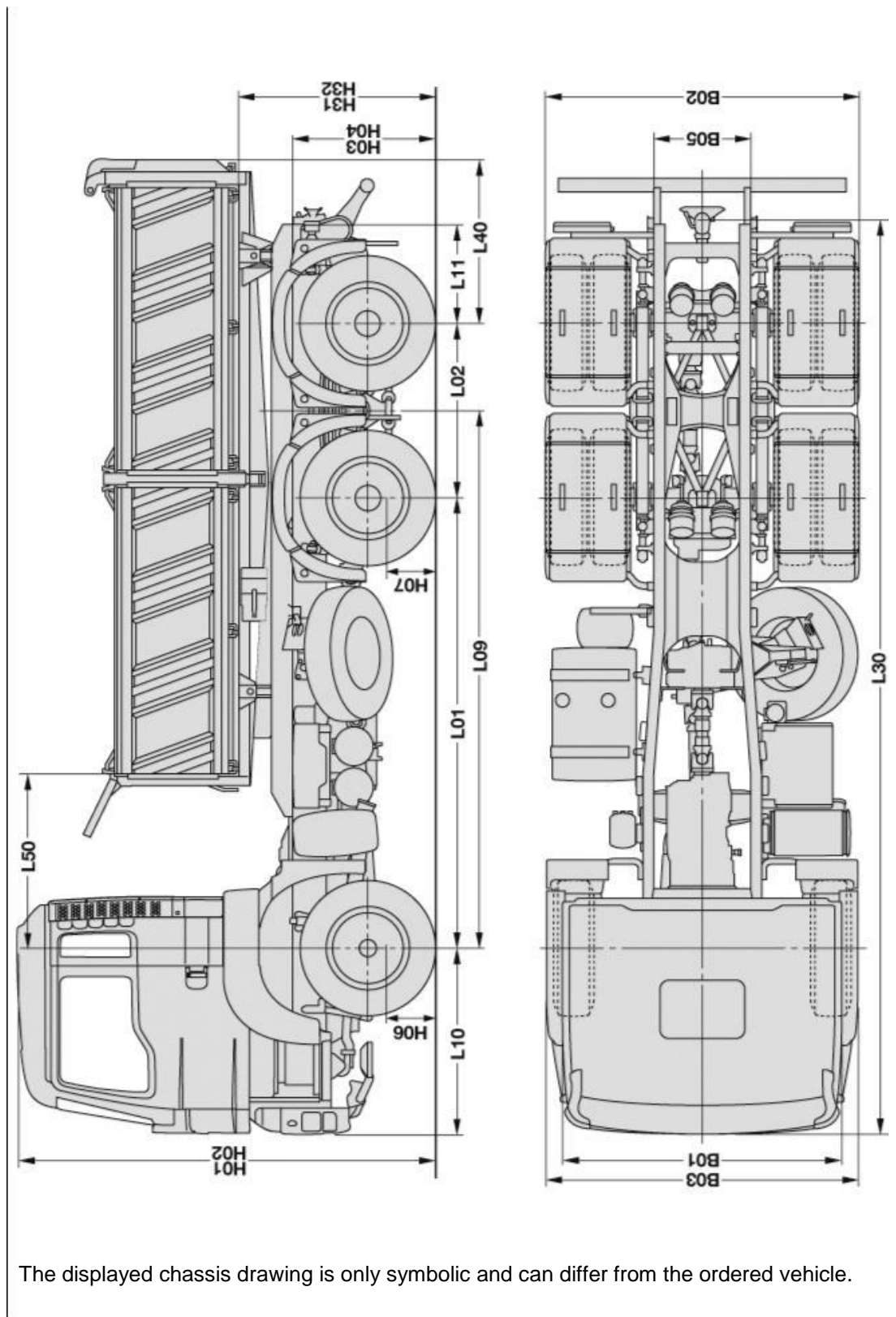


Motor data: TGS 40.480 6X6 BB-WW / L58WAJ04

MAN 6-cylinder in-line engine D2676LF03, displacement 12419 ccm, with 4-valve technology, electronically controlled (EDC) common rail injection, turbocharging and charge air cooling. Rating 220 hp/353 kW at 1700-1900 rpm, torque 2300 Nm at 1000-1400 rpm, low-emission exhaust gases according to EURO 2 standard, exhaust gas aftertreatment not required. Maximum sulphur content in fuel around 2500 ppm; the oil change intervals are correspondingly reduced.



Chassis drawing: L58WAJ04 / TGS 40.480 6X6 BB-WW



The displayed chassis drawing is only symbolic and can differ from the ordered vehicle.

Technical data: TGS 40.480 6X6 BB-WW / L58WAJ04

Vehicle type: Three-way tipper

M Cab

Drive configuration: 06X06

Tyres

Front axle:	WA 325/95R24 STEERED AXLE ON+OFF-ROAD TYRES TL 162/160 K
Rear axle:	WA 325/95R24 DRIVE AXLE ON+OFF-ROAD TYRES TL 162/160 K
Rear axle 2:	WA 325/95R24 DRIVE AXLE ON+OFF-ROAD TYRES TL 162/160 K

Length

L01: Wheelbase from 1. - 2. Axles	3900.0
L02: Wheelbase from 2. - 3. Axles	1400.0
L03: Wheelbase from 3. - 4. Axles	0.0
L04: Wheelbase from 4. - 5. Axles	0.0
L05: Wheelbase from 5. - 6. Axles	0.0
L09: Theoretical wheelbase	4600.0
L10: Vehicle overhang front	1492.0
L11: Vehicle overhang rear	800.0
L12: 1. Wheel centre to first frame bend	1400.0
L13: 1. Wheel centre to second frame bend	2550.0
L14: Frame length behind cab	5630.0
L20: Body centre of gravity to	563.0
L21: Body centre of gravity from	406.0
L22: Body centre of gravity executed, Truck	0.0
L23: Trailer truck end distance: executed	0.0
L24: Body centre of gravity before wheel centre of last axle	0.0
L30: Distance to centre of coupling	0.0
L40: Vehicle overhang rear	0.0
L41: Vehicle overhang theoretical, rear	0.0
L42: Total length	0.0
L43: Body length Series	0.0
L44: Possible body length	0.0
L45: min. body length for measurement L20	0.0
L46: Maximum body length for dimension L21	0.0
L47: perm. Body length with perm. vehicle overhang	0.0
L48: max. platform length	0.0
L49: perm. Theoretical vehicle overhang	0.0
L50: Body begins at first wheel centre	550.0

Heights

H01: Height above Cabin, not loaded	3443.0
H02: Height above Cabin, loaded	3356.0
H03: Frame height, unloaded	1250.0
H04: Frame height, loaded	1167.0
H06: Chassis clearance front	414.0
H07: Chassis clearance rear	372.0
H08: Chassis clearance between axles	443.0
H10: Lift from driving position at front	0.0
H11: Lower from driving position at front	0.0
H12: Lift from rear running position	0.0
H13: Lower from rear running position	0.0
H14: Lift the leading axle.	0.0
H15: Lift the trailing axle	0.0
H16: Centre wheel to lower edge of frame, unloaded	383.0
H17: Centre wheel to lower edge of frame, loaded	330.0
H20: Trailer truck aux. frame	0.0
H21: Trailer truck coupling mounting plate	0.0

H22: Trailer truck height without coupling, not loaded	0.0
H23: Trailer truck height without coupling, loaded	0.0
H24: Construction height Fifth wheel, assumed	0.0
H25: Fifth wheel unloaded above ground	0.0
H26: Fifth wheel loaded above ground	0.0
H27: Upper edge of tyres to semitrailer upper edge, lowered	0.0
H30: Chassis height, series	0.0
H31: Loading surface is not loaded	0.0
H32: Loading surface is loaded	0.0
H33: Front wall height, series	0.0
H34: Platform gate height, series	0.0

Widths

B01: Cab width overall	2240.0
B02: Width above rear wheels	2476.0
B03: Overall width	2500.0
B04: Frame width, front	945.0
B05: Frame width, rear	765.0
B20: Body width series	0.0

Weights

G01: Perm. Axle load 1. Axle	9000.0
G02: Perm. Axle load 2. Axle	16000.0
G03: Perm. Axle load 3. Axle	16000.0
G04: Perm. Axle load 4. Axle	0.0
G05: Perm. Axle load 5. Axle	0.0
G09: Perm. Total weight	40000.0
G50: Chassis weight with cab	10570.0
G51: Chassis weight front	5400.0
G52: Chassis weight rear	5170.0
G53: Load capacity / semitrailer load	29430.0
G54: Empty weight with series body	0.0
G55: Net cargo	0.0
G56: weight of plant pallet	0.0
G60: Perm. train weight	44000.0
G61: Perm. trailer load	4000.0

Circular dimensions and radii

K01: Turning diameter in m	19.5
K02: Turning circle diameter in m	21.0
R01: Pivoting diameter front	0.0
R02: Pivoting diameter rear	0.0

Surface and cubic dimensions

F01: Loading surface in m² Series	0.0
V01: Loading volume in m³ series	0.0

Drawing no and frame profile

BLN:	6
PNR: Frame profile number	32
ZNR: Drawing number	81.99126.0754

The specified technical data relates to the vehicle's standard equipment (not taking into account the selected special equipment).

Chassis weight: weight of the entire chassis incl. 1 driver, tools and full fuel tank.

Tolerances according to chassis drawing (see above for drawing number; download from www.manted.de).