



TGS 42.440-540 8x4 BB CH

WARRANTY

Term coverage	1 year entire vehicle
Km coverage	Unlimited
Term coverage	2 year driveline
Km coverage	Unlimited

ROADSIDE ASSISTANCE

Term coverage	48 months
Km coverage	Unlimited

ENGINE

Model	D26
Displacement	12.4 L
Power D676 LFAZ	324 kW (440 hp) at 1,800 rpm
D2676 LFAY	2,250 Nm at 930 - 1,350 rpm
	353 kW (480 hp) at 1,800 rpm
	2,450 Nm at 930 - 1,350 rpm
Torque D2676 LFBI	397 kW (540 hp) at 1,800 rpm
	2,650 Nm at 930 - 1,350 rpm
Bore + stroke	126 mm + 166 mm
Compression ratio	22:1
Fuel injection	Electronically controlled, common rail
Emission level	Euro VI E
Engine brake output	305 kW
Cooling system protection	Lower radiator protection

MASS LIMITS

GVM	42,000 kg
GCM	70,000 kg

PERFORMANCE

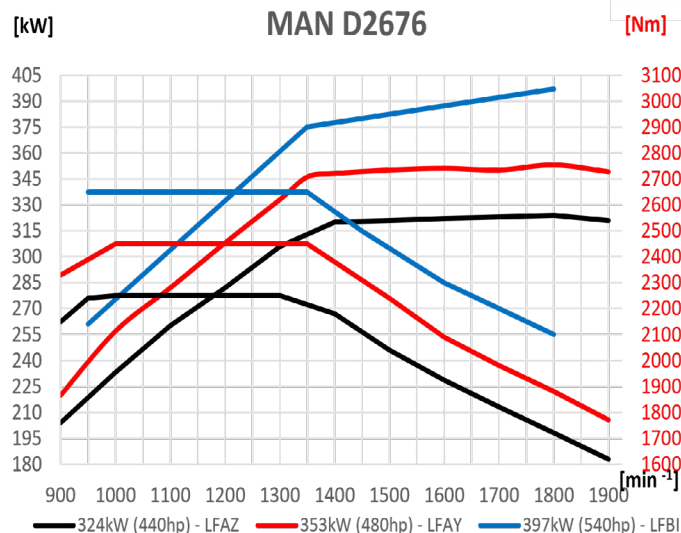
Engine rpm @ 100 km / h	1,544
Road speed limiter	100 km p/h

EMISSION CONTROL

Emission control	CRT particulate filter + SCR + soft EGR
Adblue capacity	35 L
Adblue tank	Plastic, RHS chassis-mounted Lockable cap with master key
Exhaust system	RHS chassis mounted
Outlet	Downswept behind second steer axle

FUEL SYSTEMS

Fuel filter	For fuels to class 21
Fuel pre filter	Oil separ / water trap with water sensor, frame mounted
Fuel capacity	590 L
Fuel tank	Aluminium, LHS chassis mounted Lockable cap with master key



TRANSMISSION

Description	Automated transmission
Make & model	MAN Tipmatic 12.28 OD
Shift type	Steering column stalk
Gear ratios	1 st : 12.92 5 th : 4.57 9 th : 1.68 2 nd : 9.98 6 th : 3.53 10 th : 1.30 3 rd : 7.67 7 th : 2.83 11 th : 1.00 4 th : 5.94 8 th : 2.19 12 th : 0.77 R1 : 12.03 R2 : 9.29
Gearbox programming	Idle speed driving Manouvring, performance, rock free, efficiency & off-road shift strategies
Clutch	Single-disc, 430 mm, dry, reinforced
Transfer case	Without
Transfer case type	Without
Optional:	Without
Transfer case management	Without

POWER TAKE OFF

Rear engine PTO Optional:	Preparation, flywheel side, f=1.27 Flange type DIN ISO spline type Preparation only
Gearbox PTO	1:30, 2:30 & 3 o'clock
Mounting positions Optional:	With and without flange types available

BODY INTERFACING

Interfacing	Body power supply, rear front panel Digital data exchange Vehicle data (FMS) Extended signal output (EIO) Compressed air connection Engine start/stop prep, under front panel
Electrical preparation	16 pin & 18 pin plugs, keypad preparation Body control in instrument panel (CANbus) Bank of 6 blank switches

ELECTRICAL SYSTEMS

Batteries	2 x 170 Ah long-life maintenance free
Battery location	RHS chassis
Battery master switch	Mechanical
Battery box	Medium, lockable
Alternator	3 phase 28 V, 120 A, 3,360 W
Alternator type	Local interconnected network (LIN)

AIR & BRAKING SYSTEMS

Air intake position	Behind cabin, raised
Engine air intake type	Pre-separator
Engine dry air filter	With safety insert
Air compressor	1 cyl, 360 cm with economy system
Air dryer	1 cyl heated
Compressed air tank	Steel
Compressed air treatment	Electronically controlled
Brake system	Electronic braking system (EBS)
Anti-lock braking system	With off-road logic
Engine valve brake	Electronically controlled with stages
Park brake control Optional:	Pneumatic, next to drivers seat Electronic, in dash
Anti-jackknife brake control	Pneumatic, next to drivers seat
Hill hold	MAN easy start with hill climb brake
Wheel brakes	Drum brakes front and rear

STEERING

Type	Pneumatic
Column	Telescopic, tilt adjust & parking position
Steering wheel	500 mm diameter, with steering lock multifunction consisting of: • Menu operation • Voice control • Infotainment operation • Driver assistance settings • Phone control

FRONT AXLE & SUSPENSION

Front axle model	2x VO-09, non-driven planetary axle
Type	Straight, steer axle
Capacity	9,000 kg + 9,000 kg
Differential locks	Without
Suspension	3-leaf parabolic with loadshare
Suspension rating	8,000 kg + 8,000 kg
Shock absorbers	With
Stabiliser	Torsion bar spring

REAR AXLE & SUSPENSION

Rear axle model	HPD-1382/HP1352, driven planetary axle
Type	Straight, fork axle
Capacity	13,000 kg + 13,000 kg
Differential locks	With
Suspension	Progressive spring assembly
Suspension rating	13,000 kg + 13,000 kg
Shock absorbers	With
Stabiliser	Torsion bar spring
Rear axle ratio	4.0
Optional:	3.63, 4.33, 4.83

FRAME

Wheelbase / Overhang	3,500 mm / 2,800 mm
Frame design	Medium
Frame dimensions	270 mm x 85 mm x 9.5 mm
Vehicle frame end	Straight
Tensile strength	Rp0.2 (MPa) min 500
Rear cross member	Prepared for trailer coupling
Front tow point	Central jaw integrated into bumper
Frame paint	Black - RAL 9011
Spare wheel hoist	LHS chassis behind rear axle
Wheel chocks	1 units with retaining device
Taillights	LED
Side marker lights	LED

SAFETY FEATURES

Driver restraint systems	Driver airbag with seatbelt pre tensioner
Driver assistance systems	Emergency braking signal, automatic VSM transference management Light function test Anti slip regulator (ASR) Electronic stability program (ESP) Reversing motion system MAN attention guard Emergency brake assist II plus Adaptive cruise control Lane guard system Front detection Distance warning system
Optional:	

WHEEL EQUIPMENT

Front rims	9.00" 22.5 8-hole steel rim
Front tyres	315 / 80 R steer, on-off road tread
Rear rims	9.00" 22.5 8-hole steel rim
Rear tyres	315 / 80 R dual drive, on-off road tread
Spare rim	9.00" 22.5 8-hole steel rim
Spare tyre	315 / 80 R steer, on-off road tread

TOWING EQUIPMENT

Air supply	2-line trailer brake connection, end frame
Trailer sockets	24 V, 7 + 7 pin end of frame Antilock braking system end of frame

CABIN EXTERIOR

Cabin strength rating	ECE R29.3 cabin strength
Cabin	NN: Narrow, medium, normal height TN: Narrow, long, normal height
Optional:	Electronic assisted
Cab tilting	Mechanical spring
Cab suspension	Airbag
Optional:	With
Rear window	Without
Optional:	Steel, 3-piece
Front bumper	Electric + heated with manoeuvring aid
Exterior rear view mirrors	1 x mechanically adjustable 1 x left side, electronically adjustable
Front view mirror	Single piece
External Sunvisor	White - RAL 9016
Cabin paint	Textured
Bumper & step paint	Without
Cabin aerokit	Roof foil - NN & full aero TN
Optional:	Composite safety glass, tinted
Windscreen	Manual wiper activation
Windscreen wipers	Automatic rain sensing activation
Optional:	Hinged
Step units	H7 bulb with fine & wide mesh protection
Headlights	LED
Optional:	LED
Daytime running lights	LED
Turn signals	Manual
Driving light control	Automatic with light sensor
Optional:	Manual
High-beam headlight operation	Assisted
Optional:	Single tone, electric
Horn	Compressed air, roof mounted x 2

CABIN MEASUREMENTS

Cabin Type	NN Cabin Day	TN Cabin Sleeper
Exterior length	1,880 mm	2,280 mm
Exterior width	2,240 mm	2,240 mm
Interior length	1,770 mm	2,145 mm
Interior width	2,070 mm	2,070 mm
Height of engine tunnel	280 mm	280 mm
Interior height above engine tunnel	1,410 mm	1,410 mm
Interior height in front co-driver seat	1,645 mm	1,650 mm
Length of bed	-	1,960 mm
Width of bed	-	800 mm
Roof storage units	41 L	41 L
Roof storage compartments	-	-
Storage box rear left	-	208 L
Storage box rear right	-	242 L
Storage facility under bed central	-	133 L

CABIN INTERIOR

Colour scheme	Dark moon grey with silver accents
Internal sun blind	Folding type - driver & co-driver
Door glare protection	Roller blind for driver & co-driver doors
Interior lighting	H7 bulb
Optional:	LED
Roof storage	41 L with 4 x single DIN slots
Rear storage	Rear wall, driver & co-driver side, x 2
Optional:	Storage box
Sockets	Coolbox
Instrumentation	2 units 12 V & 24 V, cab centre
Bunk	12.3" digital dash
Optional:	Without
Seating capacity	1 bunk, 800 mm width, 90 mm mattress
Optional:	2
Driver seat	3
Seat belt	Comfort, air spring with lumbar and shoulder adjustment, seat ventilation, seat belt adjustment
Co-driver seat	3-point lap sash
Seat belt	Comfort, air sprung
Seat belt indicator	3-point lap sash
Air conditioning	Driver side
Infotainment	Climate control with pre separator air intake
Sound system	Advanced mid media system
Optional:	Low reflection 7" colour HD display
	Bluetooth for 2 x mobile phones
	Smart phone integration
	AM/FM/DAB/DAB+
	Navigation maps
	Reverse camera input
	2 x door broadband loudspeakers
	2 x A pillar tweeters
	2 x door bass loudspeakers
	Subwoofer - TN cabin

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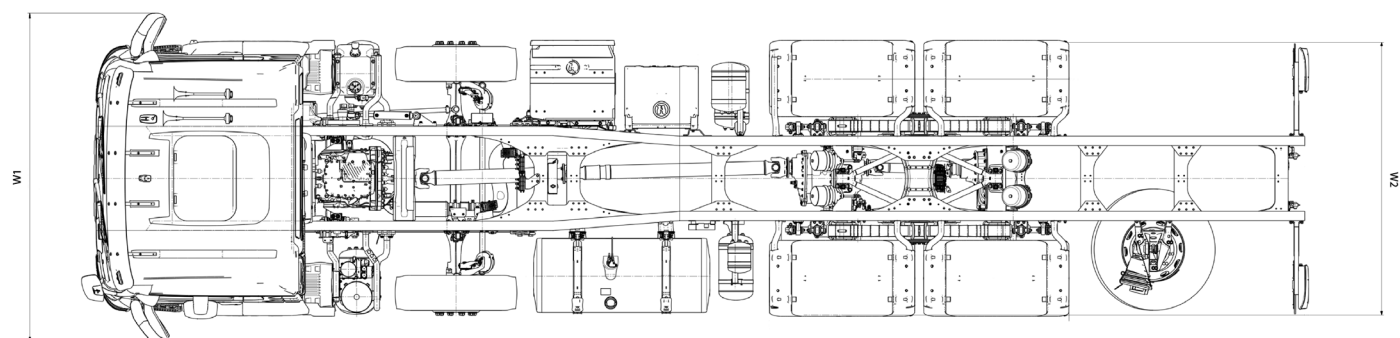
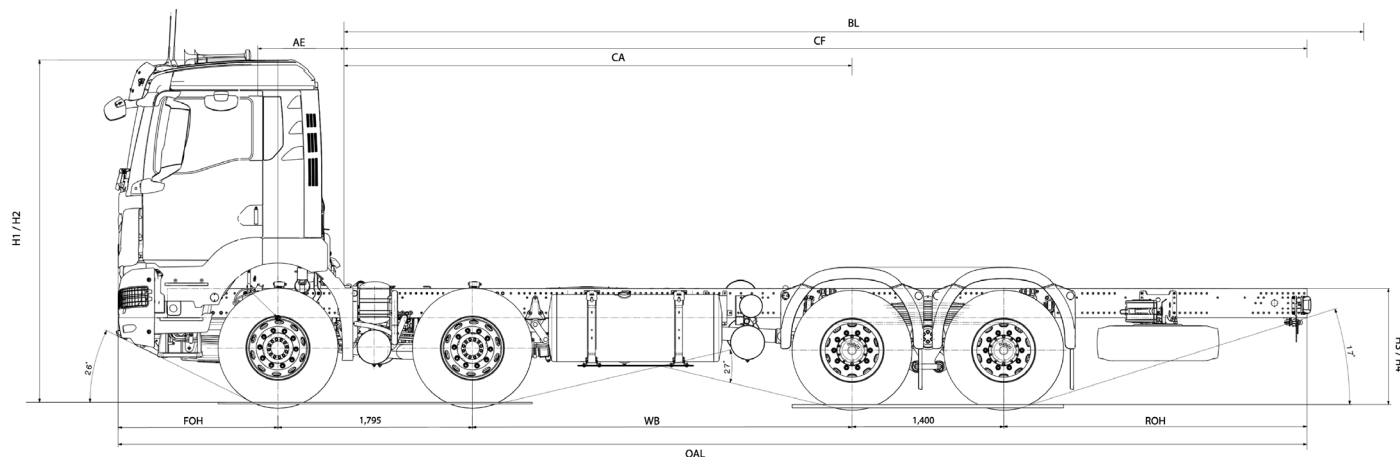


CHASSIS WEIGHTS

NN cab: Weights				TN cab: Weights			Turning	
Wheelbase	Front kg	Rear kg	Total kg	Front kg	Rear kg	Total kg	Kerb	Wall
3,500 mm	6,891	4,631	11,523	6,973	4,631	11,605	20.9	22.6

Note: Chassis weight includes oil, water, AdBlue, 100% fuel and 70kg driver. Weight can vary $\pm 5\%$

CHASSIS DIMENSIONS



Note: Diagram shows NN Cabin

NN cab: Longitudinal dimensions (mm)

	FOH	ROH	OAL	CA	CF	AE	Max BL
Wheelbase 3,500 mm	1,475	2,800	10,975	4,835	9,035	465	8,595

NN cab: Height dimensions (mm)

Empty	Loaded	Empty	Loaded		
H1	H2	H3	H4	W1	W2
3,383	3,319	1,183	1,080	2,499	2,500

TN cab: Longitudinal dimensions (mm)

	FOH	ROH	OAL	CA	CF	AE	Max BL
Wheelbase 3,500 mm	1,475	2,800	10,975	4,435	8,635	865	8,195

TN cab: Height dimensions (mm)

Empty	Loaded	Empty	Loaded		
H1	H2	H3	H4	W1	W2
3,383	3,319	1,183	1,080	2,499	2,500