



Trucks
Buses

VW Constellation 31.320

Technical Specifications



VW Constellation 31.320

Engine

Manufacturer / Model	Cummins ISC Turbo Intercooler
Cylinders / Displacement (cm ³)	6 / 8.270
Maximum net power - cv @ rpm (*)	320 (235) @ 2.000
Maximum net torque - Nm @ rpm (*)	1.288 (131) @ 1.300 - 1.600
Injection system	Common Rail
Air compressor	
Emission standard	Euro III
Emissions technology	

(*) Values according to ISO 1585

Transmission

Manufacturer / Model	ZF 16S 1650
Type / Actuation	Manual / cables
Speeds	16 forward (synchronized) and 2 reverse
Gear Ratios:	
1 st / Last	15,39:1/10,59:1
Reverse	12,44:1/10,59:1
Axle configuration	6x4

Clutch

Manufacturer / Model	Sachs / Dry, single disc and organic lining
Disk Diameter (mm)	430

Front Axle

Manufacturer / Model	Sifco 13K
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Rear Axle

Manufacturer / Model	Meritor MT 50-168
Ratio	4,89:1 or 5,38:1
Differential lock	Standard

Suspension

Front	Rigid axle, springs semi-elliptical, progressive action, shock absorbers hydraulic, double action, torsion bar standard
Rear	Rigid axle Tandem-Randon (Bogie), springs Semi-elliptical, reverse progressive action, auxiliary 3 rd axle - Type

Frame

Type	Ladder type, straight side member in constant "U" profile, bolted and riveted
Material	LNE 280
Sectional module (cm ³)	431

Wheels and Tires

Rims	Steel (22.5 x 8.25)
Tires	295/80 R22.5

Brakes

Service Brakes	Full air, "S" came
Parking Brake	Spring set
Engine brake type / Type	Exhaust pipe, throttle type valve

Electrical System

Voltage	24V
Battery	2x (12V - 100 Ah)
Alternator	80A - 28V

Refueling Volumes (L)

Fuel tank capacity and material	275 - Plastic
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Dimensions (mm) - Day cabin / Right roof / Low roof

Wheelbase	A	3.440 / 4.580
Front overhang	B	1.511
Rear overhang	C	1.147 / 2.224
Total Length	D	7.458 / 9.675
Distance between rear axles	E	1.360
Height	H	2.907 / 2.907 / 3.224
Load platform height	I	1.066
Maximum width - front (with mirrors / without mirrors)	K	2.997 / 2.507
Maximum width - rear	L	2.517
Track width - front	M	2.074
Track width - rear	N	1.879
Ground clearance - front	O	329
Ground clearance - rear	P	233
Turning diameter (m) - Wall to Wall		16,4 / 19,8

Weights (kg) - Day cabin / Right roof / Low roof

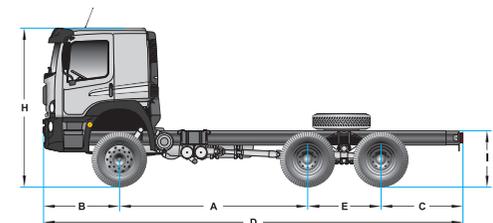
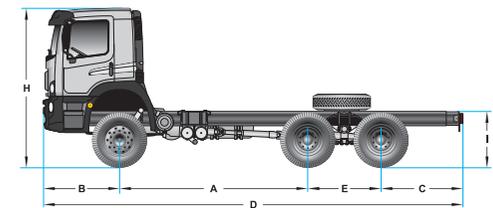
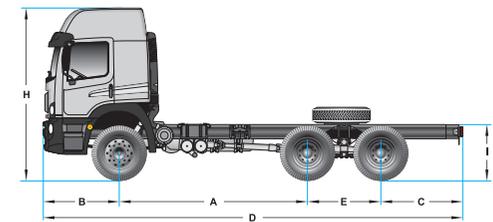
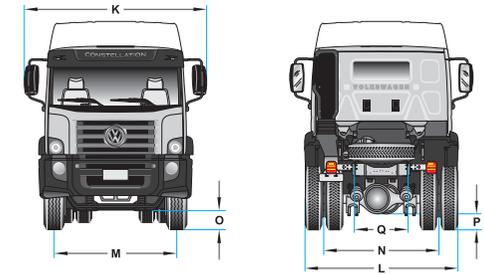
Curb weight	8.340 8.440 / 8.460 8.560
Front axle	3.840 3.890 / 3.890 3.940
Rear axle	4.500 4.550 / 4.570 4.620
Technical axle capacity	30.500
Front axle	6.500
Rear axle	24.000
Total (GVW) - homologated	30.500
Maximum Towing Capacity (MTC)	63.000
Payload (net load + implement/body)	22.160 22.060 / 22.010 21.940

Note: The weights can vary due to optional equipment with a maximum allowance of + or - 3 %

Performance (theoretical calculations)

Rear axle ratio	4,89:1 5,38:1
Maximum speed (km/h)	104 96
Gradeability @ GVW (%)	36 39
Startability @ GVW (%)	28 31

Note: Data projected under simulated performance



Technical data subject to change without notice. Merely illustrative images.
Edition 05/2021