



Trucks
Buses

VW Constellation 14.190

Technical Specifications



VW Constellation 14.190

Engine

Manufacturer / Model	MAN D08 34 190
Number of Cylinders / Displacement (cm ³)	4 cyl / 4580
Net Power Max - cv (kw) @ rpm (*)	186 (137) @ 2400
Torque Líq. Máx. - Nm @ rpm (*)	700 @ 1100 - 1600 rpm
Injection system	Common rail
Emission standard	EURO 5
Emission technology	EGR
PTO	Locally installed (optional)

(*) Values according to NBR ISO 1585

Transmission

Manufacturer / Model	Eaton / FS 5406-A
Type / Drive	Manual override / cable
No. of Gears	6 forward (synchronized) and 1 reverse
Gear ratios: 1 st / Last	9.01:1 / 1.00:1
Reverse	8.63:1
Traction system	4 x 2

Clutch

Manufacturer / Model	Sachs / single disc, organic lining
Disc diameter (mm)	395

Front Axle

Manufacturer / Model	Dana / 13K
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Rear Axle

Manufacturer / Model	Meritor MS 19.145 (single)
Reduction ratio	4.88:1

Suspension

Front	Double stage semi-elliptical spring, Hydraulic shock absorbers double acting telescopic Stabilizer bar
Rear	Driving rigid axle, semi-elliptical spring with progressive action, auxillary parabolic spring, telescopic hydraulic shock absorbers double action and optional Stabilizer bar

Chassis

Type	Ladder type, straight "U" profile stringers riveted and screwed
Material	LNE 500

Wheels and Tires

Type	Aço (22.5" x 7.5)
Tires	275 / 80R22.5"

Brake

Service brake	Air, front and rear drums, with ABS + EBD + ATC
Type / Circuit	S-came / double, independent, air reservoirs air dryer with coalescing filter
Parking brake	Butterfly head valve / MAN EVB

Electrical system

Rated Voltage	24V
Auxillary socket for 12 volts	Standard
Cab battery est. / bed	2 x (12V - 100Ah)
Alternator	80A - 28V

Supply Volume

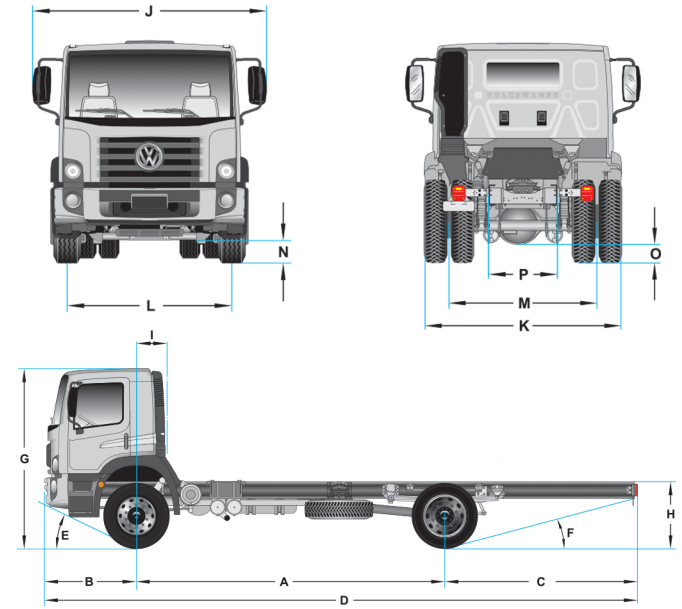
Fuel / Material	275 L / Plastic
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Dimensions (mm)

Wheelbase	A	4800
Front overhang	B	1511
Rear overhang	C	2286
Total length	D	8597
Approached angle	E	20°
Exit angle	F	19°
Vehicle Height	G	2847
Load platform	H	976
Minimum distance between the front axle and start of implement	I	660
Maximum front width (with mirrors / without mirrors)	J	2997 / 2507
Maximum rear width	K	2426
Front gauge	L	2105
Rear gauge	M	1835
Front Ground clearance	N	260
Rear Ground clearance	O	246
Width between spars (extremes)	P	867

Weights (kg)

Curb weight (Total) - day cab / sleeper cab	4850
Front axle - day cab / sleeper cab	3104
Rear axle - day cab / sleeper cab	1746
Technical axle capacity (Total)	14000
Front axle	5000
Rear axle	9000
Total (GVW)	14000
Combined total gross weight	23000
Maximum Traction Capacity (CMT)	23000
Maximum Payload Capacity + body	9150



Performance (theoretical calculations)

Rear axle ratio	4.10 / 5.72:1
Maximum Speed (km/h)	113
Gradeability @ GVW (%)	49
Startability @ GVW (%)	39

Note: Data projected under simulated performance

Accessories

Sunvisor	Radio
Power windows	Jack
Power door locks	Wheel choke
Adjustable steering column	Hose for cab cleaning
Air conditioning	Tool kit
Floor matting	Tachograph
ABS	Fog Lamps
Fire extinguisher	Two (2) Front Reading lights
Electric adjusted mirror	Electronic speed regulator