



Truck
Bus

VW Constellation 17.210 4x2

Technical Specifications



VW Constellation 17.210 4x2

STAR71419

Engine		
Manufacturer / Model		MAN / D0834LF08
No. of cylinders / Displacement (cm³)		4 / 4,580
Net Power Max. - cv (kw) @ rpm (*)		205 (150) @ 2,300
Net Torque Max. - Nm @ rpm (*)		750 @ 1,200 - 1,800
Injection System		Common Rail
Emissions Standard		PROCONVE P-8
Emissions Technology		SCR

(*) Values according to NBR ISO 1585.

Transmission		
Manufacturer / Model		EATON / FS 5406A
Type / Drive		Manual / Cable
No. of gears		6 forward (synchronized), 1 reverse
Transmission ratio	1st / Last	9.01:1 / 1.00:1
	Reverse	8.63:1
Traction		4x2

Clutch		
Manufacturer / Type		Sachs / dry monodisk, organic coating
Disk diameter (mm)		395

Front Axle		
Manufacturer / Model		Dana / 13K

Drive Rear Axle			
Manufacturer / Model		Meritor / MS 23.145 (simple)	Meritor / MS 23.235 (double)
Reduction ratio		5.29:1	4.10/5.72:1 4.56/6.36:1

Suspension	
Front	Semi-elliptic double stage springs, double action telescopic hydraulic dampers and stabilizer bar
Rear	Rigid drive axle, semi-elliptic progressive action main springs, parabolic auxiliary springs, double action telescopic hydraulic dampers and stabilizer bar

Chassis	
Type	Ladder, constant "U" profile simple straight rails, riveted and bolted
Material	LNE 600

Wheels and Tires	
Type	Steel 22.5" x 7.5"
Tires	275/80 R22.5

Brakes	
Service Brake	Air, front and rear wheel drums with ABS + EBD + ATC (Traction Control) + HSA (Hill Start Assist) + ESC (Electronic Stability Control)
Parking Brake	Pneumatic system with accumulator springs
Engine Brake	Engine head brake + exhaust brake with butterfly valve

Electric System	
Nominal Voltage	24V
Battery (Extended Cabin / Bed Cabin)	2 x (12V - 100Ah) Optional: 2 x (12V - 135Ah) or 2 x (12V - 170Ah)
Alternator	110A - 28V

Supply volumes (l)	
Fuel / material	275 2 x 275 liters / Plastic
ARLA 32	60 litros

Dimensions (mm)			
Wheelbase	A	4,800	5,207
Front overhang	B	1,517	
Rear overhang	C	2,288	2,415
Total length	D	8,605	9,139
Entry angle	E	20°	21°
Exit angle	F	17°	15°
Height - extended cabin	G	2,847	
Loading platform height	H	976	
Minimum distance between front axle and body - extended cabin	I	680	
Maximum front width (with / without rearview mirrors)	J	2,986 / 2,545	
Maximum rear width	K	2,430	
Front gauge	L	2,105	
Rear gauge	M	1,830	
Front clearance	N	238	
Rear clearance	O	241	
Length between rails (ends)	P	872	

Note: Dimensions considering 295/80R22.5 tires.

Pesos (kg)			
Weight in running order (Total) (Ext. Cabin)		4,880	5,170
Front axle (Ext. Cabin)		3,123	3,309
Rear axle (Ext. Cabin)		1,757	1,861
Technical capacity (Total)		16,800	
Front Axle		6,100 6,000	
Rear Axle		10,700 10,000	
Gross Vehicle Weight (GVW) - homologated		16,000	
Combined Gross Vehicle Weight (CGVW) - homologated		27,000	
Maximum Traction Capacity (MTC)		27,000	
Payload + body (Ext. Cabin)		11,120	10,830

Note: Weights may undergo changes due to optional items. 3% tolerance. According to NBR ISO 1176:2006

Performance (theoretical calculation)			
Rear axle reduction ratio	4.56/6.36:1	4.10/5.72:1	5.29:1
Maximum speed at GVW (km/h)	102	111	90
"Ramp capacity at GVW (%)	50	45	42
"Ramp start at GVW (%)	40	36	33

Note: Data projected by performance simulation

