



VOLKSBUS

Buses



Volkswagen 17-210 OD

ENGINE

Model	MWM 6.10 TCA Turbo Intercooler
Gaseous emission standard	Euro II
Configuration / Displacement (cm ³)	6 cylinder in line / 6449
Cylinder bore / Stroke (mm)	103 / 129
Compression ratio	18,0:1
Maximum power - hp ¹ (kW) @ rpm #	206 (152) @ 2600
Maximum torque - Nm (kgfm) @ rpm #	67 (657) @ 1700
Injection sequence	1 - 5 - 3 - 6 - 2 - 4
Injection system	Injection pump - Bosch P-7100 in line
Air compressor brand / Capacity	Knorr - LK 38 / (225 L/m)

(¹) Horsepower (metric) = PS = 0.98632 HP # - values according to NBR / ISO 1585

TRANSMISSION

Brand / Type	Eaton - FS-5106A
Operation	Floor shifting lever
Speeds	6 forward (synchronized) + 1 reverse
Ratios	1st 9,01:1
	2nd 5,27:1
	3rd 3,22:1
	4th 2,04:1
	5th 1,36:1
	6th 1,00:1
	Reverse 7,22:1
Drive configuration	4 x 2

CLUTCH

Type	Dry, single disc, organic lining
Brand	Luk
Actuation concept	Push type, hydraulic
Disk diameter (mm)	380

FRONT AXLE

Type	I-Bean, forged steel
Brand / Model	Meritor FF-844 or Sifco 13 K

REAR AXLE

Type	Rigid axle, stamped steel
Brand / Model	Meritor MS 23-145 (single)
Gear ratio	5,86:1 (Urban) / 4,88:1 (Intercity)
Brand / Model	Meritor MS 23-240 (doble)
Gear ratio	4,88/6,65:1

FRONT SUSPENSION

Type	Rigid axle, stamped steel
Springs	Parabolic
Shock absorbers	Hydraulic, double action
Stabilizer bar	Standard

REAR SUSPENSION

Type	Rigid axle
Main springs	Semi-elliptical, progressive action
Shock absorbers	Hydraulic, double action
Stabilizer bar	Standard

STEERING

Type	Fully hydraulic, recirculating ball type
Brand / Model	ZF Servocon 8097
Gear ratio	20,1:1 ~ 23,8:1

FRAME

Type	Ladder type, single profile, flat surface, bolted and riveted
Material	LNE 38 steel
RBM - Resistant Bending Moment (Nm)	91.135
Sectional modulus (cm ³)	291

WHEELS AND TIRES

Wheel rims	
Steel	7,5" x 22,5"
Tires	
Standard	275 / 80 R 22.5
Option	11.00 R 22,5

BRAKES

Brand	Master
Service brake actuation	Full air, "S" cam, front and rear drums
Circuit	Double, independent, triple air reservoir
Effective braking area (cm ²)	4232
Parking brake type	Spring set
Actuation	Rear wheels
Activation	Modulator valve on instrument panel
Engine brake type	Exhaust pipe, butterfly type valve
Actuation	Electro pneumatic with combine control at throttle / clutch pedal

ELECTRICAL SYSTEM

Voltage	24V
Battery	2 x 12V - 135Ah
Alternator	80A - 28V

CAPACITIES (liters)

Fuel tank - plastic	275	
Engine (with filter)	17,0	
Gearbox	8,5	
Rear axle	15,0 (single ratio)	18,0 (double ratio)
Steering	3,6	
Cooling system		
Without cab heating system	25,0	
With cab heating system	26,2	

DIMENSIONS (mm)

Wheelbase	5180	5950
Overhang		
Front		2040
Rear	3320	2550
Total length		10540
Total width		2455
Wheel track		
Front		2100
Rear		1835
Ground clearance		
Front		244
Rear		240

WEIGHTS (kg)

Curb weight		
Front axle	3030	3060
Rear axle	1840	1880
Total	4870	4940
Technical axle capacity		
Front axle		6200
Rear axle		11000
Total - GVW		17200

Note: Weights may vary according to optional equipment.

PERFORMANCE (Theoretical calculation)

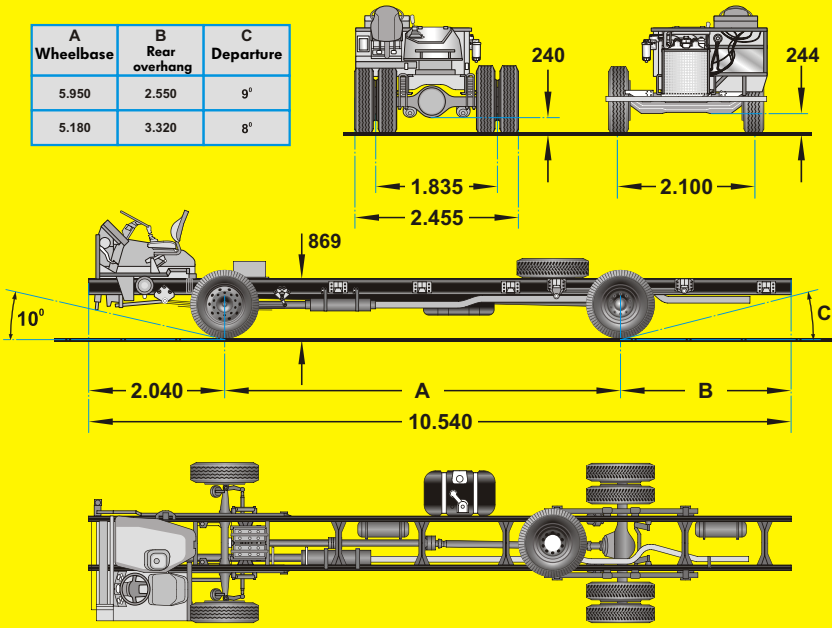
Rear axle ratio	5,86:1	4,88:1	4,88/6,65:1
Maximum speed (km/h)	85	102	102
Grade ability @ GVW (%)	39	33	45
Start ability @ GVW (%)	29	24	33
GVW / Engine power ratio (kg/hp ¹)		82,5	

Data projected by performance simulation

Note: Reference technical data; values and other information may change without previous notice

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A Wheelbase	B Rear overhang	C Departure
5.950	2.550	9°
5.180	3.320	8°



Main dimensions (mm)

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Engine performance curves

MWM 6.10 TCA

Volkswagen 17-210 OD



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