



Truck
Bus

VW Constellation 17.280 Tractor

Technical Specifications



NOTE: Image shown is merely for illustration purposes. Accessories may vary.

VW Constellation 17.280 Tractor

Engine

Manufacturer / Model	MAN D08 36 280
Number of Cylinders / Displacement (cm ³)	6 cyl / 6871
Net Power Max - cv (kw) @ rpm (*)	275 (205) @ 2300
Torque Liq. Max. - Nm @ rpm (*)	1050 @ 1100 - 1700 rpm
Injection system	Common rail
Emission standard	EURO 5
Emission technology	EGR

(*) Values according to NBR ISO 1585

Transmission

Manufacturer / Model	ZF / 9S 1110 TD
Type / Drive	Manual / cable
No. of Gears	9 forward (synchronized) and 1 reverse
Gear ratios: 1 st / Last	12.73:1 / 1.00:1
Reverse	12.04:1
Traction system	4 x 2

Clutch

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

Front Axle

Manufacturer / Model	Dana / 13K
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Rear Axle

Manufacturer / Model	Meritor / MS-23-155
Gear ratio	4.10:1

Suspension

Front	Progressive spring leaves, semi-elliptic, hydraulic-telescopic type and double action shock absorbers and torsion bar
Rear	Semi-elliptic springs with progressive action

Steering

Manufacturer / Model	ZF / 8097
Type	Fully hydraulic, recirculating ball type

Frame

Type	Ladder type, straight side member in constant "U" profile bolted and riveted
Material	LNE 380

Wheels and Tires

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

Brakes

Service brake	Air, front and rear drums, with ABS + EBD
Type / Circuit	S-came / double, independent, air reservoirs, air dryer with coalescent filter
Parking brake	Spring braker
Actuation	Rear wheels
Activation	Modulator valve on instrumental panel
Parking brake	Spring braker
Engine brake type	MAN EVBec (top engine brake) & Butterfly
Activation	Electro pneumatic with combined control at throttle

Electrical system

Rated Voltage	24V
Auxillary socket for 12 volts	Standard
Battery sleeper cab	2 x (12V - 135Ah)
Alternator	80A - 28V

Supply Volume

Fuel / Material	275 L / Plastic
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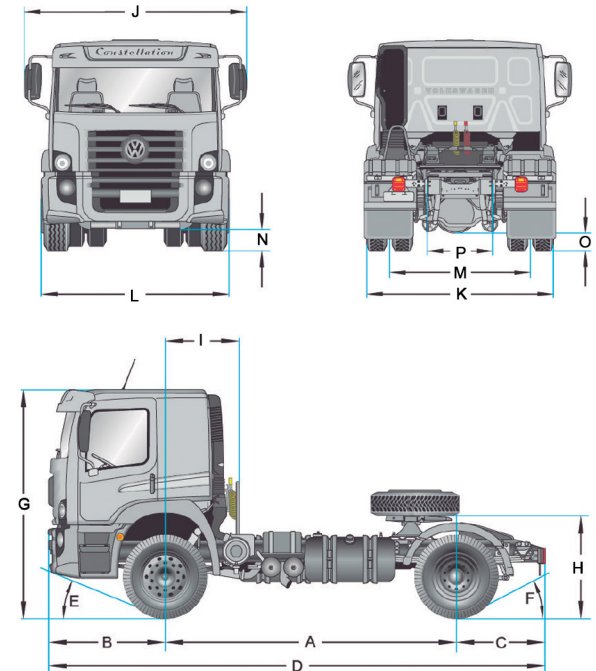
Dimensions (mm)

Wheelbase	A	3560
Front overhang	B	1511
Rear overhang	C	990
Total length	D	6062
Approached angle	E	18°
Exit angle	F	35°
Vehicle Height	G	2875
Distance between 5th wheel and rear axle	H	723
5th wheel Height		1213
Minimum distance between the front axle and start of implement	I	833
Maximum front width (with mirrors / without mirrors)	J	2987 / 2414
Maximum rear width	K	2519
Track width - Front	L	2110
Track width - Rear	M	2519
Front Ground clearance	N	225
Rear Ground clearance	O	247
Chassis rail width (external)	P	872

Performance (theoretical calculations)

Rear axle ratio	4.10:1
Maximum Speed (km/h)	106
Gradeability @ GVW (%)	28
Startability @ GVW (%)	23

Note: Data projected under simulated performance



Weights (kg)

Curb weight (Total)	5915
Front axle	3845
Rear axle	2070
Technical axle capacity (Total)	17100
Front axle	6100
Rear axle	11000
Total (GVW)	17100
Maximum Towing Capacity (MTC)	35000
Maximum Payload Capacity + body	29085

Equipped with

Sunvisor	Radio
Air conditioning (optional)	Jack
ABS	Tool kit
Fire extinguisher	