



Trucks
Buses

VW Constellation 19.320

Technical Specifications



VW Constellation 19.320

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 |
| Emission standard | Euro III |

(*) Values according to ISO 1585

Transmission

| | |
|----------------------|--|
| Manufacturer / Model | ZF 16S 1.650 |
| Type / Actuation | Manual / cables |
| Speeds | 16 forward (synchronized) and 2 reverse |
| Gear Ratios: | 1st / Last 15,39:1 / 0,85:1 Reverse 12,44:1 / 10,59:1 |
| Axle configuration | 4x2 |

Clutch

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

Front Axle

| | |
|----------------------|-----------|
| Manufacturer / Model | Sifco 13K |
|----------------------|-----------|

Rear Axle

| | |
|----------------------|-------------------|
| Manufacturer / Model | Meritor MS 23-165 |
| Ratio | 4,10:1 |

Suspension

| | |
|-------|--|
| Front | Rigid axle, springs semi-elliptical, progressive, shock absorbers hydraulic double action, torsion bar standard |
| Rear | Metallic rear suspension rigid axle, main springs semi-elliptical, double stage, auxiliary springs parabolic, air cushion rear suspension rigid axle, concept two tension springs, two air cushions, height level valve, panhard bar, shock absorbers hydraulic, double action |

Frame

| | |
|----------|---|
| Type | Ladder type, straight side member in constant "U" profile, bolted and riveted |
| Material | LNE 500 |

Wheels and Tires

| | |
|-------|--|
| Rims | Steel (22,5 x 7,5) or Aluminum (22,5 x 8,25) |
| Tires | 275/80R22,5 / 295/80R22,5 |

Brakes

| | |
|--------------------------|-----------------------------------|
| Service Brakes | Front and rear drums |
| Parking Brake | Spring set |
| Engine brake type / Type | Exhaust pipe, throttle type valve |

Electrical System

| | |
|------------|--|
| Voltage | 24 V |
| Battery | 2 x (12 V - 100 Ah)* / 2 x (12 V - 135 Ah) |
| Alternator | 80 A - 28 V |

Refueling Volumes (L)

| | |
|---------------------------------|---|
| Fuel tank capacity and material | 1 x 480 (Aluminum) or 2 x 275 (Plastic) |
|---------------------------------|---|

Dimensions (mm) - Day Cabin / High roof / Low roof

| | | |
|--|---|-----------------------|
| Wheelbase | A | 3.560 |
| Front overhang | B | 1.511 |
| Rear overhang | C | 1.014 |
| Total Length | D | 6.085 |
| Height | G | 2.907 / 2.907 / 3.224 |
| Distance between the fifth wheel and rear axle | H | 522 / 622 / 722 |
| Fifth wheel height | | 1.113 / 1.233 |
| Maximum width - front (with mirrors / without mirrors) | K | 2.997 / 2.507 |
| Maximum width - rear | L | 2.426 |
| Track width - front | M | 2.105 |
| Track width - rear | N | 1.835 |
| Ground clearance - front | O | 260 |
| Ground clearance - rear | P | 246 |
| Turning diameter (m) - Wall to Wall | | 15 |

Weights (kg) - Day Cabin / High roof / Low roof

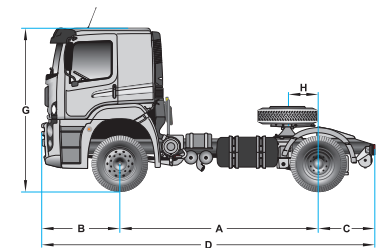
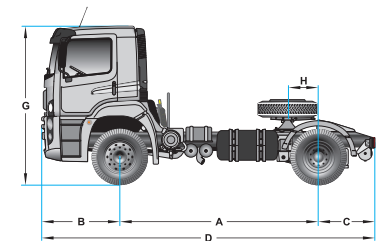
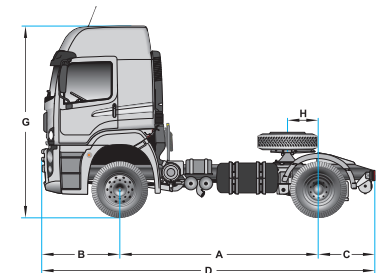
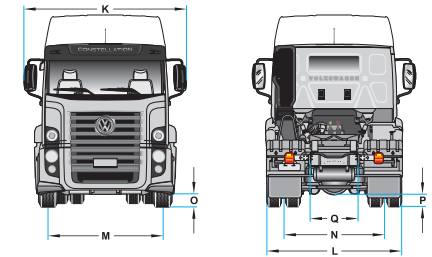
| | |
|-------------------------------------|------------------|
| Curb weight | 6.300* 6.400 |
| Front axle | 4.170* 4.240 |
| Rear axle | 6.300* 6.400 |
| Technical axle capacity | 17.100 |
| Front axle | 6.100 |
| Rear axle | 11.000 |
| Maximum Towing Capacity (MTC) | 45.000 |
| Payload (net load + implement/body) | 38.700* 38.600 |

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

Performance (theoretical calculations)

| | |
|------------------------|---------------|
| Rear axle ratio | 3,73:1 4,10 |
| Maximum speed (km/h) | 118 107 |
| Gradeability @ GVW (%) | 31 34 |
| Startability @ GVW (%) | 24 26 |

Note: Data projected under simulated performance



Technical data subject to change without notice. Merely illustrative images.
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