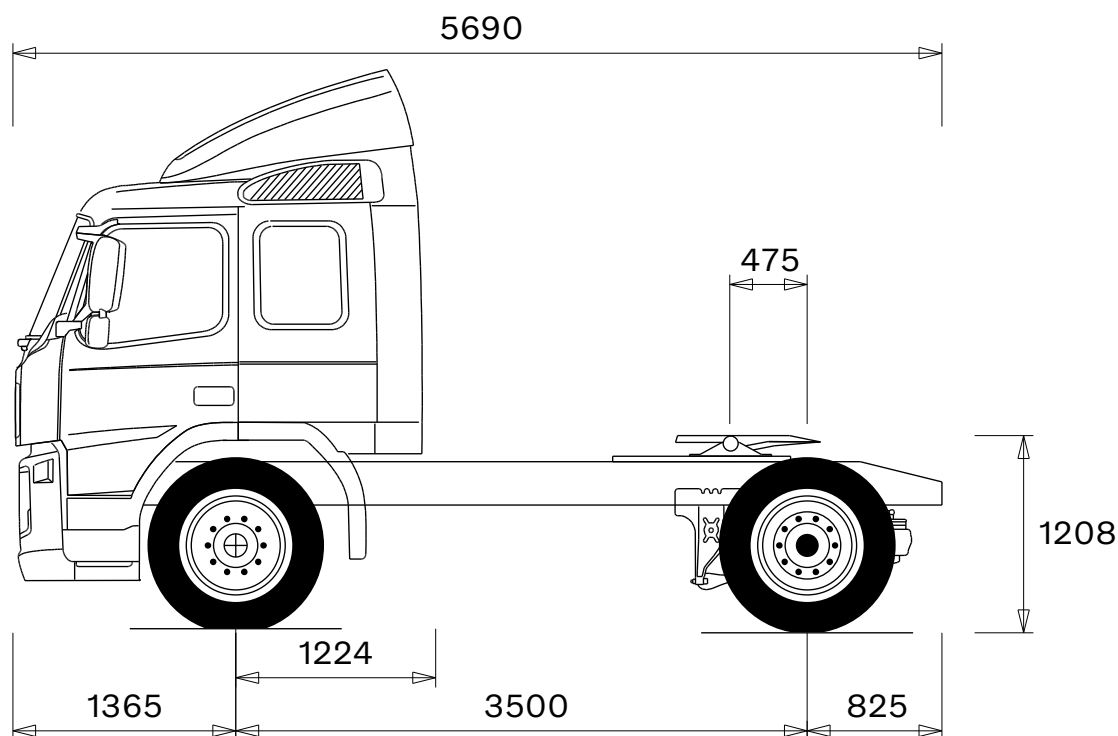




Volvo Trucks. Driving Progress

VOLVO FM 420 4X2 BS-VI TRACTOR





ENGINE

Six-cylinder, in-line direct-injection diesel engine	
Overhead camshaft with four valves per cylinder	
Electronically regulated fuel injection with unit injectors	
Exhaust after treatment by Selective Catalytic Reduction (SCR) technology with AdBlue Tank	
Displacement	12.8 litre
Bore x stroke	131 mm x 158 mm
Compression ratio	18 :1
Max. power	420 hp @ 1400-1800 rpm
Max. torque	2100 Nm @ 800-1400 rpm
Economy speed range	950 -1400 rpm
Emissions*	BS-VI / Euro 6
Max. engine brake power	502 hp (VEB+) @ 2300 rpm
Exhaust brake effect	268 hp(EPG) @ 2300 rpm

*Emission requirements conform to ECE/EEC regulations and MoRTH / CMVR / TAP 115 / 116

CLUTCH

Single plate push type friction disc clutch	
Plate diameter	430 mm

GEARBOX

I-Shift Automated gearbox	
Heavy duty transmission oil cooler with additional radiator	
I-Roll, Shift strategy, smart cruise control features for economy driving	
No. of gears	12 Forward + 4 Reverse

FRONT AXLE

Heavy duty steerable front axle	
Capacity	8000 kgs / 8T

REAR AXLE

Driven single reduction solo axle	
Differential lock	
Ratio : 2 Options	3.67:1 3.4:1
Capacity	13000 kgs / 13T

SUSPENSION

Front

Parabolic leaf suspension	
Double-action shock absorbers and stabilizers	
No. of leaves	3

Rear

Electronically controlled air suspension with 3 driving levels	
Rubber insulated V-stays and reaction rods, stabilizer & two shock absorbers	
No. of air bellows	4

WHEELS AND TYRES

Tyre size	295/80R22.5, Radial tubeless
Wheel rim size	8.25" x 22.5"
Total no. of wheels fitted	6
1 no. spare wheel rim and tyre	

CHASSIS FRAME

'C' channel section side members made of high strength steel	
Depth	300 mm
Flange width	90 mm
Section thickness	8 mm

STEERING	
Power steering with fixed displacement	
Mechanically adjustable steering wheel	
Steering wheel diameter	450 mm
FUEL AND ADBLUE TANKS	
D shaped fuel tank mounted on right and left hand side	
Left Fuel tank capacity	405 litre
Right Fuel tank capacity	330 litre
AdBlue tank capacity	64 litre
EXHAUST SYSTEM	
Horizontal muffler, vertical exhaust outlet on right hand side	
BRAKES	
Electronic Brake System (EBS)	
Electronic Stability Program (ESP) Package 1	
2-cam disc brakes with automatic adjustment & ABS	
Electronic parking brake activation	
Spring type parking brake chambers on front and rear axle	
PNEUMATICS	
Gear driven, dual cylinder reciprocating air compressor	636 cc
Electronically controlled Air Production Modulator (APM)	
Total air tank capacity	101 litre
ELECTRICALS	
System voltage	24 V
Volvo maintenance free batteries (2 nos)	
Battery voltage	12 V
Battery capacity	170 Ah
Alternator capacity	110 A
CABIN	
FM sleeper cabin	
Crash tested steel welded structure	
Accommodation	1 driver + 1 co-driver + 1 bunk
Cabin tilt angle	70°
Interiors	
Air bag on driver's side	
Electrical manually controlled climate unit	
Ergonomically designed dashboard with easy access stalks, switches & controls	
Instrument cluster with easy glance displays and on-board diagnostics	
Air suspended driver's seat with adjustment of fore-aft, height, backrest, lumbar support, a shoulder, seat cushion extension seat tilt, cushion extension seat tilt	
Cushioned foldable co-driver seat	
Red safety belt	
Lower sleeper bunk with cushion	

Exteriors	
Aerodynamic roof air deflector	
Cab side air deflectors	
Distinct V-shape Daytime Running Light (DRL)	
Integrated head lamp unit with higher illumination main beam	
Fog light and static cornering light	
Cab fully suspended by four coil springs and shock absorbers	
TELEMATICS	
Dynafleet - Volvo Fleet Services	
TOOLS AND ACCESSORIES	
Standard tool kit, first aid kit, two warning triangles, bulb and fuse kit	
20 ton hydraulic jack	
FIFTH WHEEL COUPLING	
50 mm (2") heavy duty fifth wheel coupling	
Standard kingpin offset (before rear axle)	475 mm
VEHICLE DIMENSIONS	
Wheel base	3500 mm
Overall length	5690 mm
Overall width	2534 mm
Overall height	3030 mm
VEHICLE WEIGHTS	
Front axle	7T
Rear axle	12.5T
GCW with 2 axle trailers	40.5T
GCW with 2 axle air suspended trailer	42.5T
GCW with 3 axle trailer	46.5T
GCW with 3 axle air suspended trailer	49.5T

Caution: Do not drill or weld on the frame. Note: Volvo has policy of continual product improvement. The specifications / images shown here are indicative and are subject to change without prior notice. Performance parameters are subject to stability of the vehicle. Accessories shown are not part of the standard equipment.

VOLVO

www.volvotrucks.in

Unit No. 502, 5th Floor, Southern Wing (Wing-B), Embassy Prime, Bagmane Techpark, C V Raman Nagar, Bengaluru - 560 093.

Phone: +91 80 6788 7000, Fax: +91 80 6788 7124

For more information contact: vtimarketing@volvo.in

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