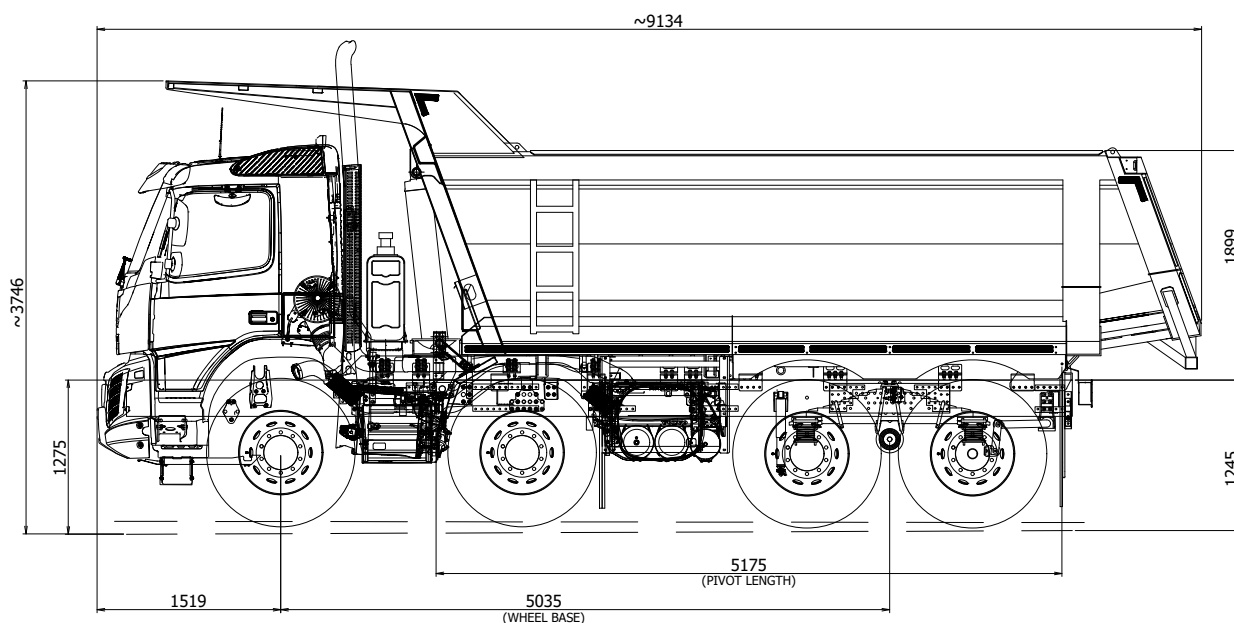




Volvo Trucks. Driving Progress

# **VOLVO FMX 460 BS VI 20.3 CU.M TIPPER**





Note: The body type may vary at the time of delivery based on availability or modifications, if any.

## ENGINE

Six-cylinder, in-line direct injection diesel engine  
Overhead camshaft with four valves per cylinder  
Electronically regulated common rail fuel injection  
Heavy duty turbocharger and intercooler  
Engine management system with driving information and diagnosis  
Exhaust after treatment by Selective Catalytic Reduction (SCR) Technology with additional AdBlue tank.  
Exhaust Gas Recirculation (EGR).

Displacement	12.8 litre
Bore x stroke	131mm x 158 mm
Compression ratio	18.0:1
Max. power	460 hp @ 1400-1800 rpm
Max. torque	2300 Nm @ 900-1400 rpm
Economy speed range	950-1400 rpm
Emissions <sup>§</sup>	BS VI / Euro 6
Max. engine brake power	503 hp (VEB+) @ 2300 rpm

<sup>§</sup>Emission requirements conform to ECE/EEC regulations and AIS 137 as notified by MoRTH vide GSR 889(E) dtd.16.09.2016 w.e.f 01 April, 2020.

## CLUTCH

Power assisted push-type single plate friction disc	
Plate diameter	430 mm

## GEARBOX

I-Shift (Automated range / splitter gearbox)  
Heavy duty transmission oil cooler with additional radiator  
Enhanced software for mining and off-road conditions  
EP, P+ mode, kickdown features for performance driving  
No. of gears 12 forward + 4 reverse

## POWER TAKE-OFF

Clutch dependent gearbox mounted power take-off

## FRONT AXLES

Twin heavy duty steerable front axle with high ground clearance  
Capacity (Twin axles) 18000 kgs

## REAR AXLES

Drive tandem hub reduction axle with four planetary gears  
Differential locks – inter-wheels and inter-axes, Differential Lock Control (DLC)  
Traction Control System (TCS)  
Ratio 5.41:1  
Capacity (Tandem axles) 33000 kgs

## SUSPENSION

Front  
Parabolic suspension with S-shaped leaf geometry  
Double action shock absorbers and stabilisers  
No. of leaves 3  
Rear  
Heavy duty bogie suspension with conventional multi-leaf spring  
Rubber journalled V-stays, reaction rods, stabiliser and two shock absorbers  
No. of leaves 11

## WHEELS AND TYRES

Tyre size 12" x 24" Cross Ply  
Wheel rim size 8.5" x 24"  
Total no. of wheels fitted 12  
1 no. spare wheel rim and tyre

## CHASSIS FRAME

'C' channel section side members made of high strength steel  
Cross section 300 mm x 90 mm x 8 mm  
Full length inner reinforcement  
Inner reinforcement thickness 5 mm

## STEERING

Hydraulic power steering with variable displacement pump  
Tilt and telescopic adjustable steering wheel  
Steering wheel diameter 500 mm



FUEL AND ADBLUE TANK	
Fuel tank mounted on the left hand side between 1 <sup>st</sup> and 2 <sup>nd</sup> front axle	
Fuel tank capacity	290 litres
AdBlue tank capacity	57 litres

EXHAUST SYSTEM	
Horizontal muffler, vertical exhaust outlet on right-hand side	

BRAKES	
Electronic Brake System (EBS)	
Dual-line air brake system with ABS	
Hill start aid	
Z-cam drum brakes with automatic adjustments	
Electronic parking brake activation	
Spring type parking brake chambers on 2 <sup>nd</sup> front axle, 1 <sup>st</sup> rear axle and 2 <sup>nd</sup> rear axle	

PNEUMATICS	
Gear driven, double-cylinder reciprocating air compressor	
Max. compressor capacity	900 l/min
Electronically controlled air pressure modulator (APM)	
Total air tank capacity	123 litre

ELECTRICALS	
System voltage	24 V
Volvo enhanced flooded batteries (2 nos.) with battery reconditioner	
Battery voltage	12 V
Battery capacity	170 Ah
Alternator capacity	110 A

CAB	
FMX day cabin	
Crash-tested steel welded structure	
Accommodation	1 driver + 1 co-driver
Cabin tilt angle	70°

Interiors	
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, shoulder, seat cushion extension, seat tilt, cushion stiffness	
Cushioned foldable co-driver seat	
Red safety belt	

Exteriors	
Heavy duty bumper with extremely robust design and high approach angle	
Robust front towing device rated for 32 tonnes	
Distinct V-shape daytime running light (DRL)	
Heavy duty headlamp unit with higher illumination main beam	
Cab fully suspended by four coil springs and shock absorbers	

TELEMATICS	
Volvo Dynafleet Online services	

TOOLS AND ACCESSORIES	
Standard tool kit, first-aid kit, two warning triangles, bulb and fuse kit	
20 tonne hydraulic jack	

TIPPER BODY & HYDRAULICS	
Rock body - U Shape and Box type	
All steel welded construction low C G Rock body	
Struck volume	20.3 Cu.m
Floor, sideboard and headboard made of high tensile wear resistant steel	
5 nos. angular solid rock breakers on the floor for box type design and no rock breakers on U-shape body design	
Full length canopy	
Tipping angle with knock-off valve	45 deg
Heavy duty front mounted telescopic cylinder	
Direct mounted hydraulic pump on P.T.O.	
Oil tank with breather filter, oil level indicator and return line filter	
Oil tank capacity (U-Shape/ Box type)	110 litre / 80 litre

VEHICLE DIMENSIONS, mm – AS PER CMVR		
	Box type	U-Shape
Wheel base	5035	5035
Overall length	9028	9134
Overall width	2600	2600
Overall height	3755	3746
Turning circle diameter	22600	22600
Minimum ground clearance	390	390

VEHICLE WEIGHTS	
Laden weight, kg (as per CMVR limits)	
Front axles (Twin)	14000
Rear axles (Bogie)	21000
Gross vehicle weight	35000

PERFORMANCE DATA	
Economy speed range on top gear	41-62 kmph
Max. speed (Limited)	45 kmph

# **VOLVO**

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