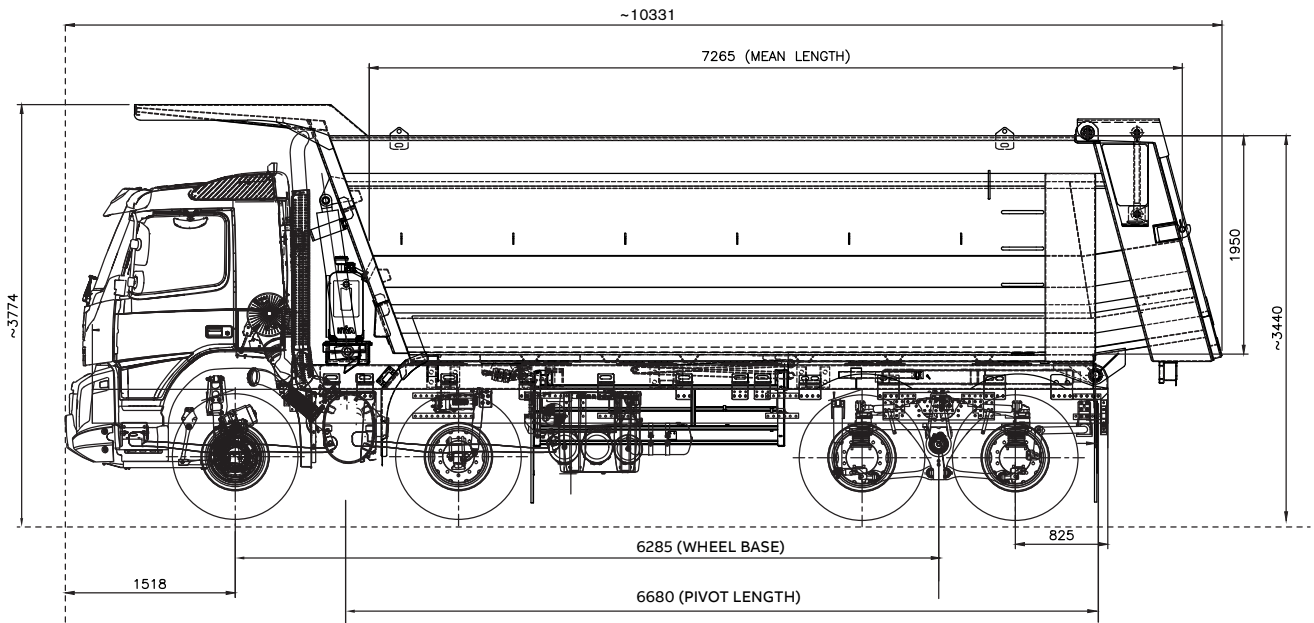




Volvo Trucks. Driving Progress

VOLVO FMX 460 BS-IV 33 CU.M TIPPER





ENGINE

Six-cylinder, in-line direct injection diesel engine	
Overhead camshaft with four valves per cylinder	
Electronically regulated fuel injection with unit injectors	
Heavy duty turbocharger and intercooler	
Engine management system with driving information and diagnosis	
Exhaust after treatment by Selective Catalytic Reduction (SCR) Technology with AdBlue tank	
Displacement	12.8 litre
Bore x stroke	131mm x 158 mm
Compression ratio	17.8:1
Max. power	460 hp @ 1400-1900 rpm
Max. torque	2300 Nm @ 1000-1400 rpm
Economy speed range	1000-1500 rpm
Emissions ⁵	BS-IV / Euro 4
Max. engine brake power	503 hp (VEB+) @ 2300 rpm

⁵Emission requirements conform to ECE/EEC regulations and MoRTH/CMVR/TAP 115/116

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	
E,P,P+ mode, Kick down features for performance driving	
No. of gears	12 forward + 4 reverse

POWER TAKE-OFF

Clutch dependent gearbox mounted power take-off	
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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-axles	
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 20" Cross Ply
Wheel rim size	8.5" x 20"
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 & ADBLUE TANKS	
Steel cylindrical tank mounted on right hand side	
Fuel tank capacity	270 litre
AdBlue tank capacity	32 litre
EXHAUST SYSTEM	
Horizontal muffler, vertical exhaust outlet on right-hand side	
BRAKES	
Dual-line air brake system	
Z-cam drum brakes with automatic adjustments	
Electronic parking brake activation	
Spring type parking brake chambers on 2 nd front axle and 1 st 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 maintenance-free batteries (2 nos.)	
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	
All steel U type body for raw and washed coal transportation	
Struck volume	33 Cu.m
Hydraulic tail gate mechanism	
Full length canopy	
Tipping angle with knock-off valve	45 deg
Scow angle	9 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	110 litre
VEHICLE DIMENSIONS, mm	
Wheel base	6285
Overall length	10331
Overall width	2598
Overall height	3774
Turning circle diameter	23200
Minimum ground clearance	340
VEHICLE WEIGHTS	
Laden weight, kg (as per CMVR limits)	
Front axles (Twin)	12000
Rear axles (Bogie)	19000
Gross vehicle weight	31000
PERFORMANCE DATA	
Economy speed range on top gear	38-57 kmph
Max. speed (Geared)	72 kmph
Max. speed (Limited)	45 kmph

Caution: Do not drill or weld on the frame. Note: Volvo has a 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.

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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