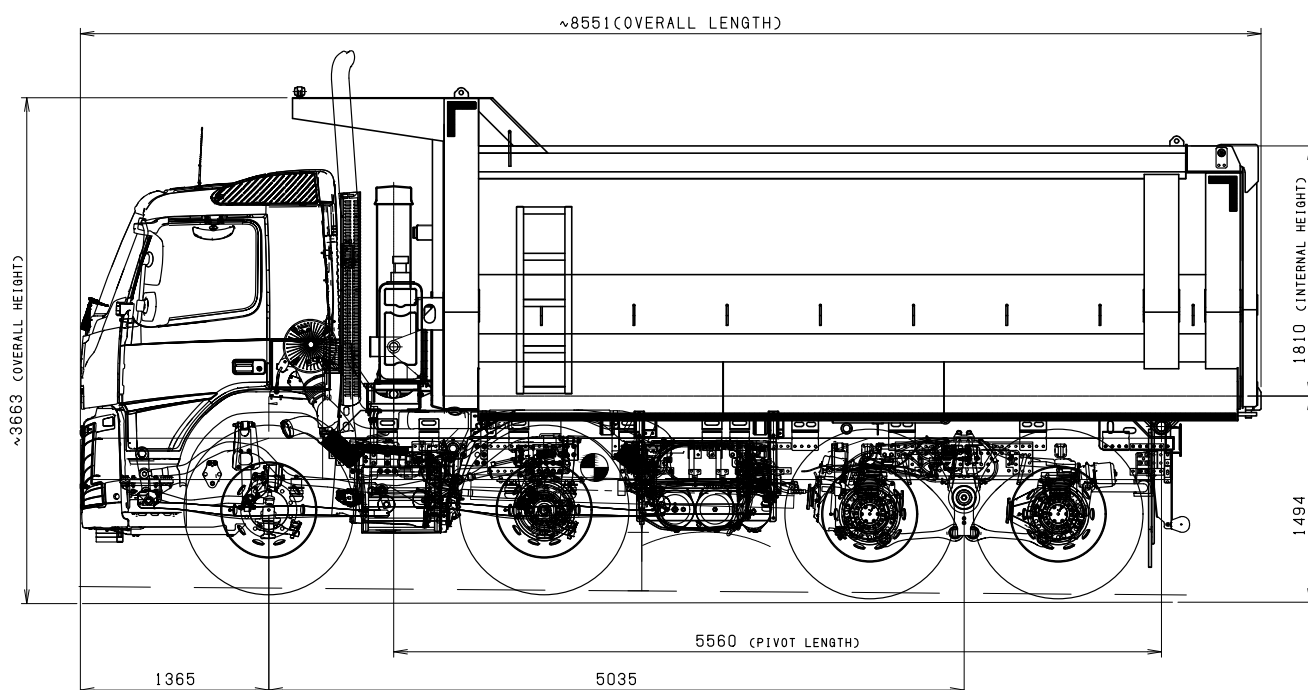




Volvo Trucks. Driving Progress

VOLVO FM 8X4 BS-VI 23 CU.M TIPPER





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 litres
Bore x stroke	131 mm x 158 mm
Compression ratio	18.0:1
Max. power	420 hp @ 1400-1800 rpm
Max. torque	2100 Nm @ 860-1400 rpm
Economy speed range	950-1400 rpm
Emissions*	BS-VI / Euro 6
Max. engine brake power	268 hp @ 2300 rpm

*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 construction & off-road applications	
E, P, P+mode mode, kickdown 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 AXLE

Twin heavy duty steerable front axle with high ground clearance	
Capacity (Twin axles)	20000 kgs

REAR AXLE

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

SUSPENSION

Front

Parabolic suspension with S-shaped leaf geometry	
Double-action shock absorbers and stabilizers	

No. of leaves	3
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Rear

Heavy duty bogie suspension with conventional multi-leaf spring	
Rubber journalled V-stays and reaction rods, stabilizer & two shock absorbers	

No. of leaves	11
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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
Partial 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 TANKS	
Fuel tank mounted on the left hand side between 1 st and 2 nd front axles	
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 nd , 3 rd and 4 th axles	
PNEUMATICS	
Gear driven, dual cylinder reciprocating air compressor	
Max. compressor capacity	900 l/min
Electronically controlled Air Production Modulator (APM)	
Total air tank capacity	123 litres
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	
FM 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, a shoulder, seat cushion extension seat tilt, cushion stiffness
Cushioned foldable co-driver seat
Red safety belt
Cruise control with steering wheel mounted controls
Exteriors
Distinct V-shape Daytime Running Light (DRL)
Integrated head lamp unit with higher illumination main beam and steel protection
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 AND HYDRAULICS	
All steel U-shaped construction body	
Struck volume	23 Cu.M
Mechanically operated tailgate mechanism	
Tipping angle with knock-off valve	47 deg
Heavy duty front mounted telescopic cylinder	
Direct mounted hydraulic pump on PTO	
Oil tank with breather filter, oil level indicator and return line filter	
Oil tank capacity	115 litres

VEHICLE DIMENSIONS, mm – AS PER CMVR	
Wheel base	5035
Overall length	8551
Overall width	2590
Overall height	3663
Turning circle diameter	23200
Maximum ground clearance	348

VEHICLE WEIGHTS	
Laden weight, kg	
Front axles (Twin)*	14000
Rear axles (Bogie)*	21000
Gross Vehicle Weight*	35000

*As per CMVR limits

PERFORMANCE DATA	
Economy speed range on top gear	37-58 kmph
Max. speed (Limited)	45 kmph

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.



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