VOLVO

Volvo FMX 460 8X4 Tipper

Push the limits of productivity

VOLVO



VOLVO FMX 460 8X4

Safety always remains the prime value pillar

Volvo is synonymous with safety. The slimmer A-pillar, larger windscreen and lower door lines have improved direct visibility by 10%. Tinted windshield helps reduce glare and improved rear view mirrors gives you the best views. With improved visibility driver is more confident and chances of accidents are minimized. Power windows and central locking secures the truck. Volvo cabs have been subjected to the toughest tests including the Swedish crash test. Electrically operated steel roof hatch provided as emergency exit. Electronic braking system give you all the more confidence while driving in rough terrain. Downhill cruise control maintains a set speed when the loaded truck is going down the slopes using auxiliary brakes VEB+ (Volvo Engine Brake). This also reduces brake wear and improves service life.

The truck is now provided with reverse camera with the view available on the digital instrument panel.

A body builder module ECU prevents the truck from exceeding 5 kmph speed when the dump body is in raised position, thus preventing accidents at the dump yard.

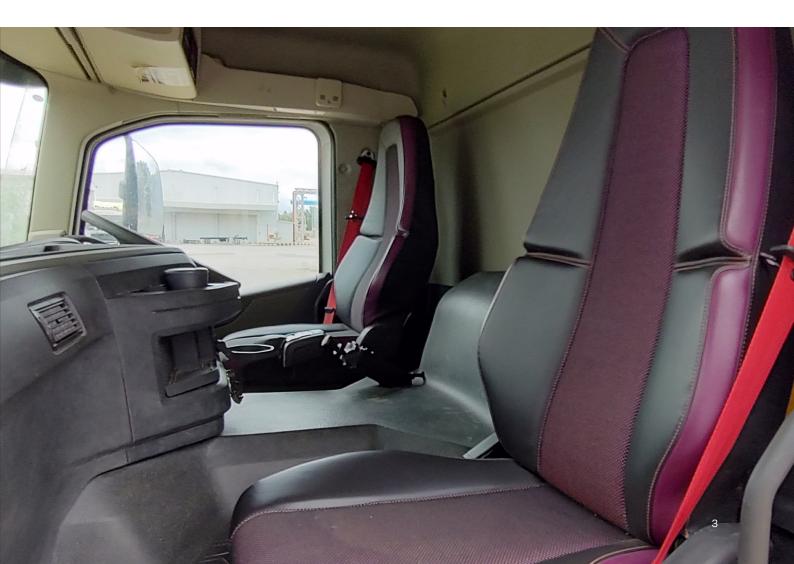


Rear view camera



Most comfortable cab

Drivers are the most important part of the trucking industry and their comfort is directly proportional to the productivity. The new FMX460 cab has been designed keeping this in mind. With 800 liter more cabin space, climate control with enhanced thermal insulation, 2dB quieter cab, and excellent internal and external storage space, soft closure of doors and better vibration arresting... drivers are sure to guarantee few extra trips per shift.



More efficient

The cabin aerodynamics are improved to give better fuel economy. Volvo has been improving their Euro 6 technology since 2013 and is currently offering the fifth generation.

Some of the changes in the components include: Wave type piston design for rapid heat release and reducing soot, new injector with greater precision and increased pressure for improved combustion, +20 bar of cylinder pressure, updated engine block with weight reduction, new Engine Control Module 4.0 with increased inputs / outputs, design modifications in cylinder head, connecting rod, crankshaft etc. patented fuel and air filters.

Convenience redefined

The new Volvo FMX460 has the state of the art I-Shift 12 speed automated manual transmission which chooses the best gear in the interest of power and fuel economy. The ergonomically designed new gear control lever fits snugly in palm. Switch between drive modes like economy, standard, performance and off-road with the push of a button. With I-Shift driver has one less activity to focus on.

With the next generation of gearbox, Gearbox Control Unit is ungraded with new microcontroller with improved processor capacity, which helps in faster and smoother actuation improving gear shifting speeds by 30%. This ensures no torque loss while shifting gears and also improves the fuel efficiency.

Add to this cruise control and downhill cruise control to maintain speed and improve the life of brake liners.



Driver information display



Auto hold switch

There are upgrades in the Exhaust After Treatment System (EATS) as well. New urea pump with greater precision and higher urea injection capacity, improved aging resistance of diesel oxidation catalyst with more platina and palladium, Insulated DPF to maintain correct temperature.



Pre-trip check diagnoses all the vital parameters of the truck and alerts if something needs your attention with pop up message on the driver information display. If not, just turn the ignition and keep rolling. You can avoid the physical inspection of the truck at the beginning of every shift, thus improving the utilization.

Change Direction enables to select reverse gear at lower vehicle speed and start reversing without letting foot off the accelerator pedal and vice versa.

Auto Hold function which is an extension of Electric Parking Brake and Hill Start Aid offers more convenience and extra safety.



Pre-trip check diagnosis



I-Shift Automated Manual Transmission

Ultra-modern displays & controls

The Driver Information Display on the new cabin is a fully digital 12" unit which is dynamic to suit the preferences of the driver. Choose between the classic analogue or digital view using buttons on the steering wheel. All vital statistics of the truck, alerts, driver timers etc... become part of the display. What's more – connect your phone to the truck and drive safe with hands-free comfort.

The new Traction Control unit makes it easier to handle demanding situations on or off-road. The more you turn the knob, the more traction you get. You also get visual feedback of the traction status in the instrument display.

Active Grip Control is a patented technology which significantly improves driving stability, acceleration and braking on slippery surfaces. Thanks to the quick response of the truck, the power generated between the wheels and the road can be controlled at lightning speed to proactively prevent wheel spin. This function significantly improves acceleration on slippery surfaces.



Traction Control knob & display



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Technical specifications

ENGINE (D13K460)

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Six-cylinder, in-line direct inject	ion diesel engine	
Overhead camshaft with four va	alves per cylinder	
Electronically regulated commo injectors	n rail fuel injection with unit	
Heavy duty turbocharger and in	tercooler	
Engine management system wi diagnosis	th driving information and	
Exhaust after treatment by Select technology with additional AdBlu Exhaust Gas Recirculation (EGR	ue tank	
Displacement	12.8 litre	
Bore x stroke	131 x 158 mm	
Compression ratio	18.0 :1	
Max. Power	460 hp @ 1404-1700 rpm	
Max. Torque	2346 Nm @ 945-1400 rpm	
Economy speed range	900-1400 rpm	
Emissions*	BS-VI / Euro 6	
Max. Engine brake power	456 hp (VEB+) @ 2300 rpm	
* Emission requirements conform to ECE/ MoRTH vide GSR 889(E) dtd.16.09.20	'EEC regulations and AIS 137 as notified by 16 w.e.f 01 April, 2023.	
CLUTCH		
Power assisted push-type single	e plate friction disc	
Plate Diameter	430 mm	
GEARBOX (AT2612G)		
I-Shift (Automated range / splitter gearbox)		
Heavy duty transmission oil cooler with additional radiator		
Enhanced software for mining and off-road conditions		
Change Direction		
Economy, Standard, Performance, Off-road drive modes		
No. of gears	12 forward + 4 reverse	
POWER TAKE-OFF		
Clutch dependent gearbox mou	nted power take-off	
FRONT AXLES		
Twin heavy duty steerable front	axle with high ground clearance	
Capacity (twin axles)	18000 kg	
REAR AXLES		
Drive tandem hub reduction ax	e with four planetary gears	
Differential locks – inter-wheels Control (DLC)	and inter-axles, Differential Lock	
Traction Control System (TCS)		
Ratio	5.41:1	
Capacity (Tandem axles)	33000 kg	
SUSPENSION		
Front		
Parabolic suspension with S-shaped leaf geometry		
Double action shock absorbers and stabilisers		
No. of leaves	3	
Rear		
Heavy duty bogie suspension w	rith conventional multi-leaf spring	

Heavy duty bogie suspension with conventional multi-leaf spring Rubber journaled V-stays, reaction rods, stabilizer and two shock absorbers No. of leaves 11

WHEELS & TYRES

Tyre Size	12" x 24" Cross Ply	
Wheel rim size	8.5" x 24"	
Total no. of wheels fitted	12	
Spare wheel rim and tyre	1	
CHASSIS FRAME		
'C' channel section side members made of	high strength steel	
Cross Section 300r	nm x 90mm x 8mm	
Full length inner reinforcement		
Inner reinforcement thickness	5 mm	
STEERING		
Hydraulic power steering with variable disp		
Tilt and telescopic adjustable steering whee		
Steering Wheel Diameter	500 mm	
FUEL & ADBLUE TANKS		
Fuel tank mounted on the left hand side bet front axle	tween 1 st and 2 nd	
Fuel tank capacity	290 litres	
AdBlue tank capacity	57 litres	
EXHAUST SYSTEM		
Horizontal muffler, vertical exhaust outlet or	n right-hand side	
BRAKES		
Electronic Brake System (EBS)		
Dual-line air brake system with ABS		
Hill start aid, Active Grip Control, Auto Hold	ł	
Z-cam drum brakes with automatic adjustments		
Electronic parking brake activation		
Spring type parking brake chambers on 2 nd 1 st rear axle and 2 nd rear axle	front axle,	
PNEUMATICS		
Gear driven, double-cylinder reciprocating a	air compressor	
Max. compressor capacity	870 l/min	
Electronically controlled air production moc	lulator (APM)	
Total air tank capacity	123 litres	
ELECTRICALS		
System voltage	24V	
Volvo enhanced flooded batteries (2 nos.) w reconditioner	vith battery	
Battery voltage	12V	
Battery capacity	225 Ah	
Alternator capacity	110A	
САВ		
New FMX day cabin fully suspended by four coil springs and shock absorbers		
Crash-tested steel welded structure		
Accommodation	1 driver + 1 co-driver	
Cabin tilt angle	70°	

Interiors

12" fully dynamic digital instrument cluster with Home & Focus views

Slimmer A-pillar, larger windscreen & lower door lines enhances direct visibility

Ergonomically designed new dashboard with easy-access stalks, switches $\&\ controls$

Electrical manually controlled climate unit

Central door locking and power windows

Air suspended driver's seat with adjustment of fore-aft, height, backrest, lumbar support, shoulder, seat cushion extension, seat tilt

Cushioned foldable co-driver seat

Cruise control + Downhill cruise control starting from 4 kmph

Red safety belt

Infotainment system and Bluetooth connectivity

Exteriors

Aerodynamically designed with smooth surfaces and rounded corners at the front

Heavy duty bumper with extremely robust design and high approach angle $% \left({{{\rm{D}}_{{\rm{B}}}}} \right)$

Robust front towing device rated for 32 tonnes

Rear view camera with colour display in dashboard for enhanced visibility $% \left({{{\left({{{{\bf{n}}_{{\rm{s}}}}} \right)}_{{\rm{s}}}}} \right)$

Distinct V-shape daytime running light (DRL)

New heavy duty headlamp unit with higher illumination main beam

Electrically operated steel roof hatch as emergency exit

TELEMATICS

Volvo Connect on-board telematics collects and transmits all the vital statistics and performance parameters of the truck

Performance and health of the truck can be monitored from the convenience of your home $% \left({{{\rm{D}}_{\rm{T}}}} \right)$

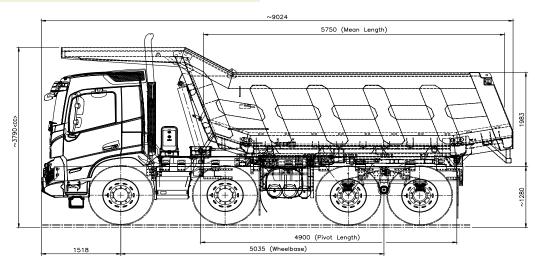
TOOLS & ACCESSORIES

Standard tool kit, first-aid kit, two warning triangles, bulb and fuse kit

20 ton hydraulic jack

TIPPER BODY & HYDRAULICS

Rock body / Exhaust heated body		
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 (Rock body)		
Full length canopy		
Tipping angle with knock-off valve	45 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	135 litres	
VEHICLE DIMENSIONS mm (as per CMVR)		
Wheel base	5035	
Overall length	9024	
Overall width	2598	
Overall height	3790	
Turning circle diameter	22600	
Minimum ground clearance	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	39-58 kmph	
Max. speed (with electronic speed limiter)	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.



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6

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