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Volvo FMX 460 8X4 Coal Tipper

Push the limits of productivity

Volvo Trucks. Driving Progress

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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 door 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 improve 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.

An inclinometer is provided which stops the truck's tipping system while on uneven surface. This prevents toppling while unloading.







Rear view camera

Inclinometer

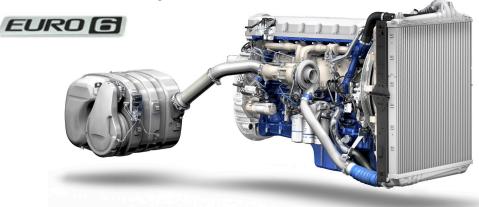
Most comfortable cab

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 ltr 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. The latest engine management system, better gear shift programming over and above subtle design improvements in the engine like smoother cylinder liners, oil scraper ring, turbo impeller with inverse design, new low viscous VDS 5 oil with longer change intervals... help save some more liters of fuel in the long run.



Convenience redefined

The new Volvo FMX 460 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 a push of a button. With I-Shift your driver has one less activity to focus on.

Add to this cruise control and downhill cruise control to maintain speed.

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.



I-Shift Automated Manual Transmission



Driver information display



Pre-trip check diagnostics

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 like loose soil, slush etc... which is very common during monsoon. The more you turn the knob, the more traction you get. You also get visual feedback of the traction status in the instrument display



Traction control knob and display

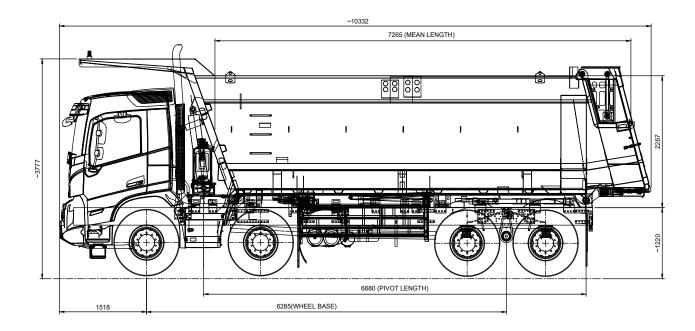


Technical specifications

ENGINE		
Six-cylinder, in-line direct injection	diesel engine	
Overhead camshaft with four valve	es per cylinder	
Electronically regulated common r	ail fuel injection with unit injectors	
Heavy duty turbocharger and inter	cooler	
Engine management system with	driving information and diagnosis	
Exhaust after treatment by Selecti technology with additional AdBlue Exhaust Gas Recirculation (EGR).		
Displacement	12.8 litre	
Bore x stroke	131 mm 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*	BS-VI / Euro 6	
Max. Engine brake power	503 hp (VEB+) @ 2300 rpm	
* Emission requirements conform to ECE/I MoRTH vide GSR 889(E) dtd.16.09.201		
CLUTCH Power assisted push-type single p	late 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	
Economy,Standard,Performance,Off-road drive modes		
No. of gears	12 forward + 4 reverse	
POWER TAKE-OFF		
Clutch dependent gearbox mounte	ed power take-off	
FRONT AXLES		
Twin heavy duty steerable front ax	le with high ground clearance	
Capacity (twin axles)	18000 kg	
REAR AXLES		
Drive tandem hub reduction axle w	vith four planetary gears	
Differential locks – inter-wheels ar Control (DLC)	nd inter-axles, Differential Lock	
Traction Control System (TCS)		
Ratio	5.41:1	
Capacity (Tandem axles)	33000 kg	
SUSPENSION		
Front		
Parabolic suspension with S-shape	ed leaf geometry	
Double action shock absorbers and	d stabilisers	
No. of leaves	3	
Rear		
Heavy duty bogie suspension with conventional multi-leaf spring		
Rubber journalled V-stays, react shock absorbers	ion rods, stabiliser and two	
No. of leaves	11	

WHEELS AND TYRES		
	10" v 20"	Cross Ply
Wheel rim size	12 × 20	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 hig	ah strend	ath steel
	-	im x 8mm
Full length inner reinforcement		
Inner reinforcement thickness		5 mm
STEERING		0 11111
Hydraulic power steering with variable displac	ement n	oump
Tilt and telescopic adjustable steering wheel	onione p	amp
Steering Wheel Diameter		500 mm
FUEL AND ADBLUE TANKS		
Fuel tank mounted on the left hand side betwee front axle	een 1 st ar	nd 2 nd
Fuel tank capacity		290 litres
AdBlue tank capacity		57 litres
EXHAUST SYSTEM		
Horizontal muffler, vertical exhaust outlet on ri	ght-han	d side
BRAKES		
Electronic Brake System (EBS)		
Dual-line air brake system with ABS		
Hill start aid		
Z-cam drum brakes with automatic adjustmer	nts	
Electronic parking brake activation		
Spring type parking brake chambers on 2 nd fro and 2nd rear axle	nt axle, ⁻	1 st rear axle
PNEUMATICS		
Gear driven, double-cylinder reciprocating air o	compres	sor
Max. compressor capacity	g	900 l/min
Electronically controlled air production modula	ator (API	M)
Total air tank capacity	-	123 litres
ELECTRICALS		
System voltage		24V
Volvo enhanced flooded batteries (2 nos.) with reconditioner	1 battery	
Battery voltage		12V
Battery capacity		170Ah
Alternator capacity		110A
CAB New FMX day cabin fully suspended by four c	oil spring	gs and
shock absorbers Crash-tested steel welded structure		
	driver	1 co-driver
	unver+	
Cabin tilt angle		70°

nteriors	TIPPER BODY & HYDRAULICS	
12" fully dynamic digital instrument cluster with Home & Focus	Steel U type body for raw and washed coal transportation	
views Slimmer A-pillar, larger windscreen & lower door lines enhances	Hydraulic tail gate mechanism with pneumatic operated lock	
direct visibility	Struck volume	33 Cu.m
Ergonomicallý designed new dashboard with easy-access stalks, switches & controls	Full length canopy	
Electrical manually controlled climate unit	Tipping angle with knock-off valve	41 deg
Central door locking and power windows	Scow angle	9 deg
Air suspended driver's seat with adjustment of fore-aft, height, backrest, lumbar support, shoulder, seat cushion extension, seat tilt	Heavy duty front mounted telescopic cylinder	
	Direct mounted hydraulic pump on PTO	
Cushioned foldable co-driver seat	Oil tank with breather filter, oil level indicator and return line filter	
	Oil tank capacity	135 litres
Cruise control + Downhill cruise control	Inclinometer for enhanced safety while unloading	
Red safety belt	VEHICLE DIMENSIONS mm	
Exteriors	Wheel base	6285
Aerodynamically designed with smooth surfaces and rounded corners at the front	Overall length	10332
Heavy duty bumper with extremely robust design and high	Overall width	2598
approach angle	Overall height	3777
Robust front towing device rated for 32 tonnes	Turning circle diameter	23200
Rear view camera with colour display in dashboard for enhanced visibility	, in the second s	
Distinct V-shape daytime running light (DRL)	Minimum ground clearance	340
New heavy duty headlamp unit with higher illumination main		
beam	Laden weight, kg (as per CMVR limits)	
Electrically operated steel roof hatch as emergency exit	Front axles (Twin)	14000
TELEMATICS	Rear axles (Bogie)	21000
Volvo Connect onboard telematics collects and transmits all the	Gross vehicle weight	35000
vital statistics and performance parameters of the truck Performance and health of the truck can be monitored from the	PERFORMANCE DATA	
convenience of your home	Economy speed range on top gear	38-57 kmph
TOOLS AND ACCESSORIES	Max. speed (with electronic speed limiter)	45 kmph
Standard tool kit, first-aid kit, two warning triangles, bulb and use kit		



20 ton hydraulic jack

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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