



**HYVA HOOK
LOADER**

**VOLVO FMX 420 8x4
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Make / Model:

Volvo FMX 420 8x4 Rigid N3G X-High Chassis

Driveline:

Drive line is fitted with a 12.8 Litre, diesel D13K240 Engine:

- Outputs: 420 hp @ 1,400 to 1,800 rpm
- Maximum Torque: 2,100 Nm @ 860 to 1,400 rpm

Also features an automatic AT2612 12 speed "I-Shift" gearbox, application software – off road, I-Shift economy mode with automatic power switch return, and differential and cross locks. Drive axle ratio - 3.09:1.

Two drive mode options, balanced and economy. Fitted with Volvo engine brake and exhaust pressure governor, providing 375kW retardation.

Cab External Features:

Cab external features the following items:

- Smoke grey external sun visor
- Heavy duty front bumper
- Tinted glass
- Electric operated tempered and tinted side windows
- Front and rear mechanical cab suspension and integrated shock absorbers
- Central door locking system



- Rain sensing windscreen wipers
- Insect screen in front of radiator
- LED headlights with headlamp protectors
- Sump and radiator guard to protect engine and hoses
- Side and rear marker lights
- Remote central door locking
- Daytime running lights

Chassis:

Chassis height – X High is 300 mm x 8 mm steel web and flange.
Chassis frame inner liner from front bogie to the end of the frame.
Exhaust is fitted with horizontal silencer and rear outlet.

A 255 L aluminium fuel tank is located on OS and a 48 L AdBlue tank is mounted on NS, with anti-spill and anti-syphon device. Both have a locking cap. Wheel base is 5,100 mm with a 1,400 mm overhang with hinge hole centre 615 mm. Rear lights LED, steel air tanks.

Colour:

Cab is finished in 1103WHT winter white. Bumper, mirrors, instep and visor are finished in grey. Chassis is finished in grey.

Cab Interior:

Fitted with following items: Continental VDO DTCO 4.1 version 2 Smart tachograph, dash finished in dark beige / rave, cruise control, I-See



predictive cruise control using map-based topography information, manually operated air conditioning, Thatcham H2 approved immobiliser, reversing alarm, 3 kg fire extinguisher, SRS driver's airbags, driver side sun visor and interior sun blind.

Suspended driver seat with adjustable shock absorber, two arm rests, adjustable plastic steering wheel, back rest and lumbar controls, with integrated red seat belts. Fixed fold-up passenger seat with seat belt. Rubber floor mats.

Electronic stability control (ESC) for low centre of gravity loads. Forward collision warning with AEBS advanced emergency braking system. Side collision avoidance support on driver and passenger side. Drive alert support system.

The steel roof and escape hatch are electronically operated. Electrically heated and operated main and wide angle mirrors with manually adjusted passenger kerb and front mirror. Main mirrors do not have cowlings to improve visibility. Manual key door locking.

Also features rear cab window. And driver side sun visor. Storage as follows: central document box with twin cup holders, rear cab upper 300 mm high storage facility.

Four speakers mounted in dashboard and doors, DAB and AM/FM radio, 1 USB connector, GSR compliant rear mounted camera fitted at the end of the frame. Secondary colour information display.



Dashboard features an integrated 12" colour information display. White interior lights. Roof mounted air intake with single element air filter. Cab climate controlled electronically with air conditioning and sun sensor. In cab smoke detector.

Brake System:

Features drum brakes on front and rear axles with front brake regulating valves (EBS). Fitted with Volvo engine brake and exhaust pressure governor providing enhanced performance thanks to additional exhaust rocker control. EBS medium, Hill hold function.

Axles & Suspension:

Drive Axle Type: RTS2370A 23-tonne single reduction tandem with differential and cross locks.

Front Suspension Type: 3 leaf parabolic spring – design capacity 16 ton – 2 x 8.0 ton front axles.

Front Suspension Maintenance: Lubricated rear shackles, pins and bushings.

Rear Suspension Type: Heavy duty parabolic spring with reinforcement.

Front anti roll bar medium stiffness. Rear anti roll bar normal stiffness. Rear bogie design weight - 21 ton. Fitted with drum brakes, EBS medium including "hill" hold function.



Wheels & Tyres:

Wheels are steel rims with Bridgestone brand tyres and tyre pressure monitoring. Basic toolkit supplied. Anti-spray mud flaps on front axle wings.

- Front Axles: Tyre Size – 315/80R22.5
- Second Front Axle: Tyre Size – 315/70R22.5
- Driven Rear Axles: Tyre Size – 315/70R22.5
- Trailing Axle: Tyre Size – 315/70R22.5

Electrical Power Supply:

Alternator 110 A, 2 x 210 Ah batteries. Battery box is mounted on NS. Battery master switch operated using key fob.

GVC & GCM:

GCW: 60,000 kg

Warranty:

2 year full chassis warranty based on 80,000 KMs per annum, 6 weekly OLI's. **This vehicle is not supplied with a service package.**

Connected Services:

Telematics gateway: GSM/GPRS/4G modern LTE & WLAN. Fleet management system gateway. Volvo Connect Vehicle status service – 2-years prepaid subscription. Volvo Connect Daily Inspection service – 2-years prepaid subscription. I-See predictive cruise map data – 5-years prepaid subscription. Volvo action service on call assistance service

enabled with switch and microphone. Media information Platform with navigation & Volvo Connect “On Board” Support.



Body Description:

The chassis is fitted with a HYVA Titan 26-56 RORO hook loader system. It is built using high tensile steels which offer strength and a low installation height along with increased stability and handling. The main lifting cylinders have heavy duty 90 mm piston rods, along with a heavy duty main lifting frame and rear pivot assembly.

Rear facing container locks meeting CHEM standard are fitted with two rear rollers, plus an additional three reinforced container rollers bolted on per side with lubrication points. Also features two rear stabiliser jacks, anodised aluminium side guards on galvanised brackets and rear under run bar. Conspic markings are fitted to comply with WVTA.

Rear light boards and second steer axle mud wings are easily removed and replaceable if damaged. The newly designed step by step in-cab hook controls are pneumatically operated and feature body raised and rear stabilizer deployed warnings. The HYVA hydraulic system is powered by HYVA PTO and bent axis piston pump.

Sheeting System:

The easy HYVA width adjustable sheeting system is a double arm system which allows it to cover a range of containers. The Tarpaulin / net is dispensed from a roller and is fitted with elastic cords to enable a secure fixing to the container with the aid of an adjustable boat hook pole. A fully integrated hydraulic system which can be selected by the flick of a switch on the external sheeting system control panel situated behind the cab driver side.

