KEL-BERG®
TRAILERS AND TRUCKS LIMITED

Ver.1 | Issued 08/20

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Volvo FMX 420 8x4 Day Cab c/w Kel-Berg Grab Loader Installation

Chassis Specification

Ver.1 | Issued 04/20

Volvo FMX 420 Day Cab Kel-Berg Grab Loader

Make / Model:

Mercedes Arocs 3240 8x4 Rigid Construction Tipper Chassis

Driveline:

Fitted with OM470 10.7 L, 6 cylinder diesel Euro 6 engine with OBD-C.

- Output: 290 kW (394 hp)

Features a Power-Shift 3, 12 speed automatic gearbox with G" 11-12/14 and off road drive program. Also features mechanical cross-axle and inter-axle differential lock and ASR (anti-slip control).

Cab External:

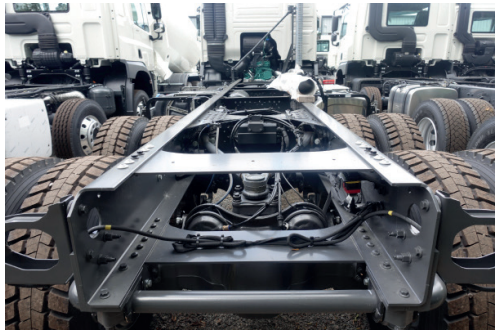
External cab features include:

- Grey translucent external sun visor.
- Electric operated side windows.
- 4 point mechanical comfort cab suppression and integrated shock absorbers.
- Central door locking system.
- Electrical adjustment of main mirrors and wide angle mirrors.
- Daytime running lights.
- Glassed window in the rear cab wall.
- Steel corners on bumpers.

Cab External:

Cab is finished in MB 9147 ARTIC WHTE Headlamp surround, bumpers, mirror co ers and chassis are finished in grey.

Photos:



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Cab Interior:

Cab interior is M-Cab Classis style with 2300 mm space and 170 mm engine tunnel. Interior is decorated with black rock and a dark trim. Features an air suspended driver' s seat with high back, comfort air and climate control which automatically controls cab temperature. Radio / USB player, Bluetooth antenna and two USB charging points. Soneridge or VDO tachograph.

Chassis:

Chassis is a steel construction with inner reinforcement. A single low horizontal DPF & SCR exhaust unit with diffuser is fitted behind the second axle on the driver' s side. A 290 L fuel tank fitted on N/S and 45 L AdBlue tank. 5150 mm wheel base with 800 mm overhang.

Chassis:

Disk brakes on front & rear axle with dual circuit air system and electronic control (EBS). Twin compressor with heated dryer also fitted. Exhaust brake and park brake control, spring brake cylinder on rear axle 2, bulb tail lights and twin line trailer braking.

Axles & Suspension:

Two straight front axles with normal parabolic leaf suspension with shock absorbers and stabiliser.

- Max Load – 2 x 7.5 ton

Rear axles with steel 2 leaf suspension. Double driven hypoid drive tandem with single reduction.

- Max Load – 2 x 10 ton

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Wheels & Tyres:

Front & Rear axles:

- Tyre Size: 295/80R22.5
- Wheel Rim Size: 22.5 x 9

Rear axle:
Front wheel protection rings with open centres. Tyres premium make, ON/OFF Road tread pattern fitted.

Electrical Power Supply:

Alternator 100 A, 2 x 170 Ah batteries.

GVC & GCM:

Chassis weigh related technical GVM max. 32000 kg
Driveline related max GCM 44,000 kg class 2

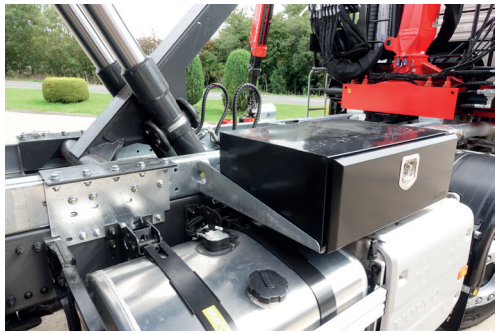
Warranty:

1 year chassis cab with 2nd and 3rd year Driveline takes care of all warrantable repairs on the vehicle for the first year and on the drive-line for this year together with associated with breakdown coverage.

Service & Maintenance:

Two options are available at additional monthly cost
Option 1) Service only package
Option 2) Full R&M Package

Photos:



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Body Specification

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Body Construction:

The body is constructed with durable and hard wearing pressed abrasive resistant steel, suitable for muck-away, demolition rubble and aggregate.

The sides are fixed and pressed from 4 mm abrasive resistant steel, along with heavy duty top rails which are folded from the same steel; giving the body exceptional strength. The floor is a single 5 mm steel sheet with angled edges to the side wall, preventing material from sticking.

The bulkhead and top swing tailgate are also single 4 mm skin pressed abrasive resistant steel material.

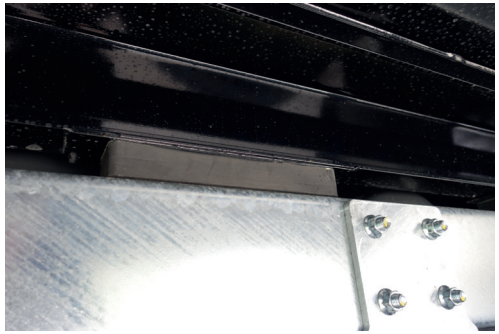
Four tab heavy duty bolt on locking bar 30 mm, steel cover plate over bar to stop stones becoming trapped. Rear pillars 100x190 mm box section.

Rear wings are N3G steel valance with drop down bolt on galvanised wings with smooth mud flaps, easily changed if damaged.

Sub-Frame:

The bolt together Kel-Berg sub-frame is constructed from low weight, high tensile steel. This structural steel is high strength and has been developed for use in load-bearing components, whilst saving weight. This design allows a degree of flexibility within the sub-frame during its normal working duties. It is also fully galvanised to ensure it is long lasting and corrosion free.

Photos:



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Auxiliary Items Included:

2 x powder coated handrails fitted O/S of body near rear axle, body raised warning with in cab light and buzzer, conspic markings fitted to conform with current C & U regulations, side guards fitted to both side of the vehicle on galvanised brackets.

Galvanised parts:

- Shovel rack mounted on front bulkhead.
- Bolt on rear push bar.
- Rear under run bumper.
- Galvanised bolt on sheet roller cover prepared for sheet system.
- Galvanised fixed ladders will be fitted where possible, otherwise folding ladders.

Paint:

Prior to fitting, the body is shot blasted and finished in a two pack paint, single flat colour, in RAL code. This comes with a two year anti-corrosion warranty.

Tipping Gear

Tipping gear is EDBRO TS series. The high tensile steel frame within the TS effectively absorbs side loads imposed by the chassis during tipping, whist protecting the cylinders from side load. With 50% more torsional stiffness than comparable units, the TS provides ultimate stability for the safest tipping, even in the most demanding operating conditions.

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Crane Details:

Installation is fitted with Palfinger Epsilon M125 Classic LC82 crane. Features dual stand up controls with cable controls on diver side. A double access catwalk and platform finished in black.

Crane has a double boom extension with BK057 4.5t rotator, Kinshoffer KM 500 L bucket with lifting hooks, two fixed stabiliser legs and ground controls fitted to the O/S. Also features a main

Cylinder protection guard, rubber bump strip on outer boom, 2 spot lights, emergency stop and load hold valves on the main cylinder.

A rated capacity indicator can be found on controls with LED for 50%, 75% and 100%. Operator is inside invisible safety case. It' s finished in KTL primer and painted inn RAL 3002 red powder coating.

Electrics:

LED side marker lights mounted below bottom rail. Truck manufacturers rear lights to be used and fitted to galvanised bolt on light brackets. Rear LED marker lights fitted to tailgate. Body raised warning with in cab light and buzzer.

Warranty:

Tipping body:	3 years
PTO + Tipping Gear:	3 years
Body paint:	2 years
Crane:	2 years full + 3,4,5 sliding scale structural.

Third party components subject to their parties T&Cs (available on request).

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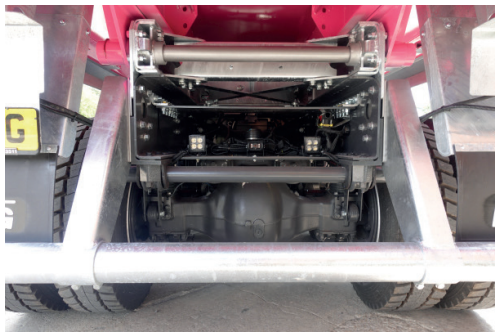

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