



**KEL-BERG TRANSIT
CONCRETE MIXER**

**KBM/3/32 8M³ MIXER
DAF XDC 450 SLEEPER INSTALLATION**

Make / Model:

DAF XDC 450 FAD 8x4 Rigid Chassis

Driveline:

Fitted with 10.8 litre, multi-torque 6 cylinder Euro 6 MX-11 diesel engine.

- Outputs 330 kW (449 hp) at 1,600 rpm
- Max Torque 2,350 Nm at 900 - 1,125 rpm

Fitted with automatic TraXon 12 speed 12TX2610 overdrive gearbox, ASR (anti-slip regulation), Eco performance, rear driven axle mechanical differential lock. Engine idle shutdown after 5 minutes idle time.

- Gear ratio 12.92 - 0.77
- Axle ratio 3.73

Cab External Features:

- New 2023 aerodynamic cab.
- DAF Digital Vision System - Foldable camera above cab doors with two displays mounted to inside cab.
- Midnight blue translucent external sun visor.
- Large curved front windscreen.
- Double glazed window in cab rear wall.
- Passenger lower door window of tempered single layer safety glass.
- Cab entrance step with anti-slip tread. 3 steps.
- Central door locking system with light checker function. Includes 2 keys.



- LED head lights with impact resistant Lexan lens and levelling device.
- LED day time running lights integrated into headlight units.
- LED head and bumper mounted fog lights.
- Maintenance free 4-point mechanical cab suspension with integrated shock absorbers.
- Steel front underrun protection.
- Steel three piece bumper.
- Radiator protection plate.

Colour:

- | | |
|-------------------|---------------|
| • Cab | E1980WHITE |
| • Camera housing | Crystal White |
| • Head lamp panel | Crystal White |
| • Chassis | Grey |
| • Bumper finished | Grey |
| • Grille strips | Black |

Chassis:

Wheelbase is 5,700 mm with 1,650 mm overhang. Chassis is 310 mm x 6 mm steel with full length reinforcement. Horizontal exhaust discharge at the side of DPF/SCR unit low exhaust diffuser. Exhaust discharged to right hand side.

EAS unit behind 2nd front axle on right hand side. Horizontal battery box with 45 L AdBlue tank below at left side of the chassis.



Fitted with 340 L aluminium fuel tank on left hand side.

- Rear underrun protection
- Rear lights LED
- Steel air tanks

Cab Interior:

Cab interior has hexagon decoration with light trim colour on roof and roof console. Panels and below dashboard are grey. Accents are facet black. The dashboard descends towards front windscreen to create more vision with plane finish. Dashboard has extractable table on top of centre console. Centre console has open storage compartment also. 2 x 12V/5A dashboard power supply and 1 USB-A connections.

Driver seat is air suspended, high backed, with armrests and black seat belts. Passenger seat is foldable. Pull down roller blind on driver side. Windows are electric. Interior lighting is LED with dimmable red night driving light and separate spot lights for driver and passenger. Equipped with cruise control. Fitted with leather steering wheel. Includes audible reverse warning system with override switch, and basic engine immobiliser.

Cab is climate control, regulating temperature, air distribution and air conditioning. Fitted with residual heat pump.

Fitted with digital (smart) VDO DTCCO tachograph with Global Navigation satellite System (GNSS) receiver and dedicated short-range 2nd axle of



communications (DSRC) unit. DAF Luxury Plus Infotainment System – additional 10.1 inch touch screen display with audio and infotainment functionality.

An FM/DAB/DAB+ radio is integrated in the system as well as streaming functionalities via USB and Bluetooth.

Luxury speaker system – two bass speakers, two tweeters and full range frequency speaker.

Driver performance assistant (DPA) information is shown on 5” colour TFT display in instrument panel

Braking System:

Features ventilated disc brakes front and rear. Dual circuit air system with electronic control (EBS). Twin cylinder air compressor with heated dryer and economy mode. Fitted with MX engine brake – hydraulically operated compression brake assembly integrated in the valve rocker group. Works simultaneously with the exhaust brake.

Electro-pneumatic park brake with auto apply functionality when the driver’s door is open and ignition is off. Spring brake cylinder on the 2nd axle of the rear tandem axle.

Electrical Power Supply:

Alternator 110 A, Batteries 2 X 175 aH



Axles & Suspension:

Front axle 167N, 20 mm vertical offset. Parabolic leaf suspension with shock absorbers and stabiliser - Max load 2x 7.1 ton.

Rear spring max load 19.0 t. Brake system designed load 19.0 t.

Double driven rear tandem axles type SR1132T with single reduction and trapezium leaf suspension. Mechanical cross-axle and inter-axle differential locks. Max group load 19.0 tonnes

Power Take Off (PTO):

First gearbox PTO type NH/4c mounted below gearbox countershaft. Gear ration 27/30, direct pump drive.

GVC & GCM:

Chassis weight related technical GVM max 32,000 kg
Driveline related max GCM 35,500 kg class 2

Warranty:

2 year warranty on chassis and 3rd year on driveline. This takes care of all warrantable repairs on the vehicle for two years and on the driveline for a third year together with associated breakdown coverage.

Service & Maintenance

Two options are available at additional monthly cost,
Option 1) Compliance package
Option 2) Full R&M Package
Please ask for a full details or a monthly cost.



Drum Specification:

Drum shell:	3 mm Swedish Steel
Rated capacity:	8 m ³ / 9 m ³
Dished end cone:	5 mm
Dished end:	3 mm
Neck cone:	3 mm
Mouth cone:	3 mm
Blades:	3 mm
Blade spacing:	950 mm
Blade depth:	495 mm
Capping:	3 x 30 mm

Structure:

The sub-frame is full length with a high tensile steel section (150 x 75 x 8 mm) to match the chassis width. Also features internally welded front and rear support U-bolts which ensure force is applied dynamically throughout the mixer frame.

Body mounts are rigidly fixed plates that are welded into position for local bolting to the truck chassis. Rollers use steel wheels (280 x 90 x 35 mm) with Timken case hardened bearings. Rollers and track rings can be greased at ground level via remote greasing point.

Vehicle Total Height:	12 ft 2 inch
Standard Mixer Install Height:	12 ft
Cutout Hopper Height:	11 ft 4 inch



Mixer Driveline:

PTO uses a GKN shaft via auxiliary drive PCE:

- 687.15 series
- 670mm W/L
- 100 mm DIN flanges
- 6 x M8 Bolt holes

Fitted with a PMH P90 pump with a maximum pressure of 450 bar. This features axial pistons and variable flow - 89.5 cm³ / 89.5 cc capacity. Motor is a PMH M90 hydraulic fixed flow pump - 89.5 cm³ / 89.5 cc displacement.

Gearbox is a PMP B6.5 1202.4 hydraulic pump which drives the water pump via a shear coupling. Oil is cooled using ASA oil cooler with temperature control via 59° thermostat - 20 L oil reservoir and filter.

Oils:

Hydraulic: ISO 46 Hydraulic Oil
Gearbox: SAE85W90

Rear Control Station:

The mixer is controlled via a cable located both at the rear and in cab. Engine revs are controlled using push buttons. A 3" hydraulic pressure gauge mounted on rear control panel provides indication of slump. Water is controlled using a 1" BSP stainless steel control valve and batching metre.



Water System:

The water tanks maximum capacity is 400 L and features an external sight glass. Water is pumped using a direct drive centrifugal pump which is driven using a PTO. A sacrificial sheer coupling is used to protect the gearbox in the event of frost.

A 1^{1/4}" Maddalena BSP brass flow metre with analogue display and reset facility is fitted to rear control station. Each end is connected with a quick release for easy changes.

1^{1/2}" BSP stainless steel ball valves are fitted. These are robust and have an improved stem seal with rugged steel handle.

1/4" BSP stainless steel ball valve located at front, middle and rear. Rear and middle valves drain entire system. Front valve is low to ground and drains pump.

3/4" hoses with brass nose located at rear ground level and platform for wash off.

Tank fills valves are located on front O/S and N/S with claw style compressed air coupling.



Chutes & Hoppers:

Charge hopper is a single piece of steel with high flow design and wear plate. Discharge hopper is a high capacity design with wear liner. A 3 mm (130 cm) pan chute is fitted with a wear liner.

Two spare plastic chutes are mounted on top of mudwings each side of installation. Chute is actuated using mechanical screw jack ram for raise and lower with manual rotation and locking clamp.

Body Fittings:

A fixed ladder gives access to wide platform and features anti-slip rungs. Pull out ladder to lower. The platform incorporates a large anti-slip design with step to right and handrail with auto close anti-fall back barrier.

Mudwings are a three piece thermo plastic and galvanised steel combination with gloss finish for easy cleaning. Galvanised side guards are bolted on with hinged legs and anodised aluminium side rails.

A variety of warning badges are placed on the vehicle including “cement burns”, “authorised operator only”, “rotator parts”, etc.

We have full Whole Vehicle Type Approval (WVTA) for our mixers.



Anti-Corrosion Protection:

An arc spraying metallisation process is used to coat the installation in molten zinc that protects the steel from corrosion. This is achieved by melting zinc wire with an electric arc which is then atomised using compressed air and propelled towards the metalwork. The molten spray solidifies immediately, mechanically bonding to the roughened steel to form a dense, strongly adherent coating providing excellent corrosion protection.

Arc spraying metallization is able to withstand the harsh cleaning chemicals used in mixer cleaning, ensuring that the installation remains protected and its structural integrity is not compromised during its long service life.

This does not include the mixer drum or aluminium water tank.



Costed Optional Extras:

Most major concrete franchises require some costed extras which we can supply. These include:

- 6 kg fire extinguisher
- Additional LED work lights
- Kerb view cameras instead of lower door window
- Franchise liveries
- Away Wash System
- Additional camera systems and side scan systems
- Caution boards
- Hopper cutout for increased headroom

