



**DAF Trucks Polska Sp. z o.o.**

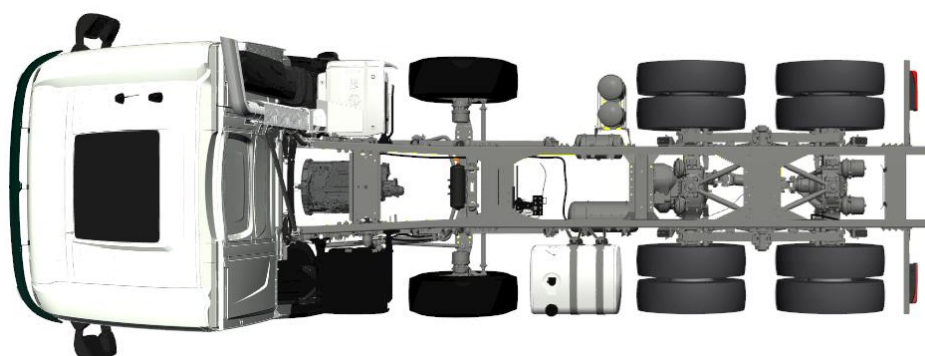


2025-05-30 | D0775908

**XDC 450 FAD 8X4 Podwozie pod zabudowę PMC 25 XDC\_450\_FAD  
\_LIEBHERR\_01**

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## Vehicle Summary XDC 450 FAD 8X4 Podwozie pod zabudowę PMC 25 XDC\_450\_FAD\_LIEBHERR\_01

<b>Market packages</b>	No market package
<b>Application packages 1</b>	Mixer Universal, Plug&Play, HW cntr.
<b>Cab version</b>	Day Cab
<b>Cab colour</b>	E1980WHTE
<b>Connected Services</b>	PACCAR Connect with navigation
<b>Front axle</b>	Front: 2x 8.00 t, parabolic, 167N
<b>Rear axle group</b>	Rear: 26.00 t, trapezium, HR1670T
<b>Supplier tyres</b>	Goodyear
<b>Tyres fr1 or fr axles</b>	F1,385/65R22.5GO OMTSHL 164/000 K Steering CBB 3P
<b>Tyres driven rear axle(s)</b>	R1,315/80R22.5GO OMTD 156/150 K Traction DBB
<b>Spare tyre</b>	SP, not applicable
<b>Engine</b>	Engine MX-11, 330 kW/449 hp. Cab Badge: 450
<b>Exhaust emission</b>	Exhaust emission Euro 6
<b>Gearbox execution</b>	Automated gearbox, TraXon, 12 speeds
<b>Rear axle ratio</b>	Rear axle ratio 3.76
<b>Retarder system</b>	MX Engine Brake
<b>Wheelbase / rear overhang</b>	Wheelbase 5.05 m / rear overhang 1.65 m
<b>Chassis component layout</b>	Standard component location
<b>Exhaust discharge position</b>	Exhaust pipe vertical, high
<b>Fuel tank(s)</b>	330 l alu fuel tank LH, height 620 mm
<b>Type plate related drawbar or solo application</b>	Type plate related solo application, no trailer
<b>Body type</b>	No ex works body type
<b>Chassis weight related gross vehicle mass GVM</b>	Chassis weight related technical GVM max 40000 kg
<b>Drawbar/coupling related max GCM</b>	No drawbar/coupling related max GCM
<b>Vehicle warranty</b>	Standard Warranty - 1Y Full - 2nd year DL - 1Y BD

## Detailed Specification XDC 450 FAD 8X4 Podwozie pod zabudowę PMC 25 XDC\_450\_FAD\_LIEBHERR\_01

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### APPLICATION PACKAGES

- **Option for universal hardwired controlled functionality between chassis and Concrete mixer body with predetermined specification of options, parameter settings and electrical interface. The option can be used for most mixer bodies. For detailed information please consult DAF BBI+.**

### CAB EXTERIOR

- Luxurious Day Cab with unrivalled aerodynamics for fuel efficient driving and low CO2 emissions. The huge and deep frontscreen, curved at the sides combined with large side windows offer an unsurpassed direct view for the driver, to enhance road safety. Cab length: 2030 mm; cab width: 2500 mm. Number of cab entrance steps: 3.
- Chassis front execution: robust provides for a three-piece steel protruding bumper with integrated fog lights, a radiator protection plate, a steel front underrun protection and black grille strips.
- Maintenance free 4-point mechanical cab suspension with integrated shock absorbers.
- **Translucent external sun visor above the windscreen, colour: Midnight blue.**
- Rigid first cab entrance step with anti-slip tread.
- LED head and bumper mounted fog lights.
- Bi-reflector LED head lights with impact-resistant Lexan lens.
- Head light beam for right-hand traffic.
- LED day time running lights are integrated in the head light units. They are ON when the engine is running.
- **Two LED hazard beacon lights on the cab roof.**
- Black door handle and door handle surround. The sleek cab side wall is executed in cab colour.
- Front windscreen of laminated, double layer safety glass.
- Tempered, single layer safety glass.
- Main mirror and wide angle mirror.
- DAF Corner View is a camera system replacing the front view and kerb view mirror. The system consists of a thin corner-view camera, positioned just below the front screen at the co-driver side, and a display, mounted on the A-pillar inside the cab. The camera offers a wider field of view and improved vehicle aerodynamics.
- Camera at the rear of the vehicle for rear view. Camera images will be shown on the additional display in the dashboard wing.
- Central door lock system with exterior light check function. Includes 1 remote control unit with integrated snake blade key with flip mechanism.

### COLOURS

- Cab colour: E1980WHITE

- Colour of lower cab step: Stone Grey.
- Colour of mirror covers: black.
- Chassis colour grey.
- Colour of head lamp panel: Crystal White.
- Colour of bumper: grey.

### CAB INTERIOR

- Left-hand drive.
- Black steering wheel with soft grip finish.
- Cab interior trim colour: Luxury consists of a light interior trim colour on roof and roof console. Door panels and the part below the dashboard are grey.
- Dashboard finish: Vision - The dashboard descends towards the front screen to create more direct view on the road. The centre part has a plane finish, which can be used for various purposes.
- Cab interior decoration: Hexagon. Accents will be in facet black.
- **Soft woven, fabric door covering.**
- Cab wallcovering textile with sound absorbing inner lining.
- **Air suspended driver seat - Luxury Air. High backed with adjustable shoulder support. Two-step seat heating. Upholstery Habsburg for the seat facing, Cornivus for the borders and Habsburg Uni for the edges.**
- **Arm rest on the driver seat.**
- The driver seat is fixed to the cab floor.
- Foldable cinema co-driver seat. Cover material: fabric.
- **Adjustable arm rest at both sides of the co-driver seat.**
- The co-driver seat is fixed to the cab floor.
- Seat belts black.
- **Extractable dashboard table at the top of the centre console.**
- Open storage compartment in the centre console.
- The cab interior lighting comprises a.o. two large bulb light units in the cab ceiling, offering flood light to light the whole cab, dimmable red night driving light and a driver spot light.
- **Cab climate control automatically controls cab temperature, blower, air distribution and air conditioning**
- **Residual heat pump.**
- Pollen filter with activated carbon to eliminate traffic and engine blow-by gasses and odours. Effectiveness 85% for particles up to 0.5 micron and 98% for particles up to 10 micron.
- Electric window openers.
- **Accessory power supply on the dashboard: 2x 12V/5A and one USB-A connection in the small storage compartment in the centre console. Additionally 2x 24V/40A (application connector A144) to the roof console.**

## COMMUNICATION AND DRIVING MANAGEMENT

- Wiring and connectors near the Fuse and Relay Board, for easy installing of a universal FMS (Fleet Management System) system, to read information as defined in the truck manufacturers' FMS standard.
- **10 year subscription for PACCAR Connect. PACCAR Connect with navigation, including 5 year subscription for map updates and live traffic information. PACCAR Connect is an online fleet management system giving insight in relevant truck, driver and location information.**
- **Digital (smart) tachograph VDO DTCO with Global Navigation Satellite System (GNSS) receiver and Dedicated short-range communications (DSRC) unit, compliant to EU Mobility package 1 as described in the EU tachograph regulations.**
- **Speed limiter setting for cruise control/accelerator pedal: 90 km/h.**
- **DAF Infotainment System including DAF Truck Navigation includes a 10.1-inch touchscreen display and control buttons in the dashboard wing. FM/DAB/DAB+ radio is integrated in the system as well as streaming functionalities via USB and Bluetooth. Offers integrated (stand-alone) DAF Truck Navigation capabilities. Supports simultaneous Apple CarPlay / Android Auto projection on secondary display via USB connection. Includes 5-year plan for navigation updates.**
- The Luxury speaker system consists of five speakers: two bass speakers in the door panels (one in each door), two tweeters on the A-pillar and a full-range frequency speaker at the centre of the dashboard.
- **Standard antennas: FM/DAB/DAB+ radio frequencies, 2x cellular for use by mobile phones, GNSS for location purposes. Extra: CB antenna.**
- Adaptive Cruise Control (ACC). Includes Forward Collision Warning (FCW) function.
- Driver Performance Assistant (DPA). Interactive programme to support the driver in achieving the most cost effective driving style. The DPA information is shown on the 5 inch full colour TFT display in the instrument panel.

## SAFETY AND SECURITY

- Speed limit recognition informs the driver of the maximum permitted speed, using map-based information and traffic sign recognition via a camera at the front of the vehicle.
- DAF drowsiness detection assesses the driver's alertness through vehicle systems analysis and warns the driver, when deemed necessary.
- Lane Departure Warning System to prevent inadvertent lane changes due to driver's fatigue or distraction and to form an effective driving aid in low visibility conditions.
- **Acoustic reverse warning with override switch.**
- Basic engine immobiliser.
- Drive-off Assist informs the driver of vulnerable road users in the front bumper area and, if applicable, warns the driver to prevent collision.
- Safety system that detects and informs the driver of a moving object near the co-driver's side of the vehicle. The system also supports the driver to prevent collisions with other road users when changing lane.
- Preparation for an alcohol interlock system, consisting of a standardised interface (connector) for breathalysers in vehicles.
- The vehicle supplied by DAF is compliant with UN Regulation R155 concerning cyber security management systems as well as UN Regulation R156 concerning software update management systems.

## SUSPENSION AND AXLES

- Front axle type 167N, 20 mm vertical offset. Parabolic leaf suspension with shock absorbers and stabiliser. Max. load 2x 8.0 tonnes.
- **Rear spring load max. 26.0 t, brake system design load 26.0 t.**
- **Double driven rear tandem axles type HR1670T with hub reduction and trapezium leaf suspension. Mechanical cross-axle and inter-axle differential locks. Max. group load 26.0 tonnes.**
- Front suspension leaf, extra high driving conditions.

## WHEELS AND TYRES

- **Front axle(s): tyre size 385/65R22.5, wheel size 22.5 x 11.75.**
- **Driven rear axle(s): tyre size 315/80R22.5, wheel size 22.5 x 9.00.**
- Supplier Goodyear.
- Tyre pressure monitoring.
- Steel disc wheels, silvergrey.
- Wheel protection rings with open centre section, colour silver-grey (RAL 9006).
- **Front axles: tyre size 385/65R22.5, Goodyear type OMTSHL, load index 164/000, speed index K, application Steering - On/Off Road. Tyre label: rolling resistance C - wet grip B - noise 73dB(A), Category B - 3PMSF - M+S - RFID.**
- **Driven rear axles: tyre size 315/80R22.5, Goodyear type OMTD, load index 156/150, speed index K, application Traction - On/Off Road. Tyre label: rolling resistance D - wet grip B - noise 75dB(A), Category B.**
- Spare wheel tyre not applicable.

## DRIVELINE

- **Engine MX-11, multi torque 6 cylinder diesel engine, 10.8 litres. Output 330 kW (449 hp) at 1600 rpm. Maximum torque 2350 Nm at 900-1125 rpm.**
- Exhaust emission Euro 6.
- **Eco performance: the shift strategy control settings of a vehicle with Eco performance focus on fuel efficiency and driveability. The fuel efficient setting, which is automatically selected, can temporarily be switched off by pushing the Eco off button to increase the performance of the vehicle.**
- Automated gearbox, TraXon, 12 speeds.
- Automated overdrive gearbox TraXon 12TX2610, ratio 12.92-0.77, 12 speeds.
- **Urge-to-move is a brake pedal controlled manoeuvring mode: if selected, the vehicle starts rolling slowly without applying the accelerator pedal.**
- **Automated gearbox software optimised for off-road applications including Rock-free function. Selection switches on the dashboard for on-road or off-road driving as well as for the Rock-free function.**
- **Rear axle ratio 3.76.**
- Driven rear axle with a mechanical differential lock.

- The ASR (anti-slip regulation) system prevents the driven wheels from slipping when accelerating at driving off and helps the vehicle to remain stable on critical road surfaces.

### BRAKE SYSTEM

- **MX Engine Brake.** Hydraulically operated compression brake assembly integrated in the valve rocker group. The MX Engine Brake works simultaneously with the exhaust brake, resulting in a high combined braking power available at low engine rpm.
- Pneumatic park brake control.
- Spring brake cylinder on the second axle of the rear tandem axle.
- Twin cylinder air compressor with heated dryer and economy mode.
- Ventilated disc brakes at front, rear tandem axle with drum brakes. Dual circuit air system with electronic control (EBS).

### CHASSIS

- **Wheelbase 5.05 m / rear overhang 1.65 m.**
- Side member height 310 mm, thickness 7.0 mm. Full length inner reinforcement.
- Standard location of chassis components.
- **Vertical exhaust discharge at the side of the DPF/SCR unit via an exhaust duct with vertical tail pipe and diffuser behind the cab.**
- **Exhaust discharge upward.**
- EAS unit at the right-hand side of the chassis, horizontal battery box and 45 litres tank for AdBlue® below battery box at the left-hand side.
- Air tanks steel.
- **330 litres aluminium fuel tank at the left-hand side, height 620 mm.**
- Fuel tank at the left-hand side of the chassis.
- Spray suppression in the mudguards, according to directive 91/226/EEC.
- **Rear light brackets with license plate holder.**
- **Preparation for worklamp at the rear.**
- Rear light unit with bulbs. The rear lights are ON when the engine is running.

### DRAWBAR AND TRAILER EQUIPMENT

- Type plate related solo application, without trailer.
- **Drawbar cross member D-value 137 kN, Dc-value 92 kN, V-value 40 kN.**

### BODIES AND PREPARATIONS FOR BODYING

- **Hardwired body signals and warnings.**
- **Connector for hardwired engine speed control on the chassis (A222).** Control functions for engine speed adjustment, programmed engine speed selection, application speed limiter and remote engine start/stop.



- **Preparation for aftermarket switches, providing an application connector in the chassis (A212) and a wiring loom between this application connector and the chassis module rear.**
- **Application connector necessary to support a Plug & Play application package, allowing easy installation of a superstructure on a DAF chassis.**
- **Application connector (A212), providing extra flexibility for body related functions by allowing default pinning to be altered via DAVIE.**
- Additional light connector in the chassis.
- **Loose supply of a wiring loom with LED-type side marker lights.**
- Chassis frame prepared for standard applications.
- **Body attachment BAM 4 over full length of chassis frame.**

### POWER TAKE-OFF (PTO)

- Hardwired gearbox PTO control, no gearbox PTO. Includes a PTO switch on the dashboard and a PTO control valve on the chassis. PTO connector on the cab front bulkhead with input signals for PTO engagement or disengagement and signals for PTO status indication and PTO warning.
- **Rear engine PTO, mounted on MX-11 engine in the 13 o'clock position with F100 6-hole flange (diameter 100 mm) connection. Rotation: counter clockwise. Operation: premanently engaged (non-clutched) without control. Maximum continuous output torque of the PTO: 800 Nm. Maximum peak output torque of the PTO: 1350 Nm. Speed factor: 1.304 (e.g. PTO output speed at 1000 rpm: 1304 rpm). More detailed info on BBI+.**

### 24V POWER SUPPLY

- **Alternator 110 A, batteries 2x 210 Ah AGM.**
- **The Battery Energy Monitoring system measures voltages, current and temperature and provides an indication of the state of charge. When battery power is critical a warning will be shown to prevent road side breakdown.**

### GVM AND GCM

- **Chassis weight related technical GVM max. 40000 kg.**
- **Driveline related max GCM 60000 kg class 3.**

### APPLICATION CONDITIONS

- Application class 0 comprises Western-Europe excluding United Kingdom and Ireland.
- Standard noise level.
- Cab insulation suited for moderate climate conditions (weather patterns remain within reasonable limits).
- Maximum ambient temperature 38 degrees.
- Integrated heated fuel filter on engine.
- **Cyclonic air intake high.**
- **Shield beneath the radiator to prevent the disturbance of dust by the cooling fan.**

## SERVICE AND MAINTENANCE

- **Standard Warranty takes care of 1 year complete vehicle as supplied by the OEM (excl. real wear parts), 2nd year driveline and 1st year breakdown.**
- ITS service.
- Service interval standard.

## VEHICLE DELIVERY

- Whole Vehicle Type Approval (WVTA) for European Union.
- Type plate standard.
- CoC document printed in Polish (PL) language.
- **Standard toolkit consisting of a 750 mm control lever, a 30/32 mm wheel nut wrench, a 30 mm box wrench, an approximately 800 mm long torque pipe, a 24/27 mm open end spanner, a T20 and T30/T45 torx screw wrench and a towing coupling with pintle pin.**
- CO2 calculation is possible in TOPEC RTS.

## CUSTOMER NEEDS

### DAF THIRD PARTY WORK

- **LIEBHERR zabudowa, betonomieszarka samochodowa HTM 905**

Nr oferty LPL-KAM3-0-2503-0005

Szanowni Państwo,

Z przyjemnością przedstawiamy Państwu niezobowiązującą ofertę zgodną z naszymi Ogólnymi Warunkami Dostawy i Płatności, jak następuje:



## Pos. Description

### Truck mixer

#### HTM 905

#### 1 Chassis

the assembly of the truck mixer is carried out according to your specifications on the following chassis. Any necessary supplementary or alteration work on the chassis is calculated according to complexity.

**Manufacturer:** DAF

**Series:** XDC

**Driver cabin:**

#### 1.1 Chassis modification

1.1.1 Body mounting existing on the chassis

1.1.2 Disassembly existing underrun protection

## 1.1.3 Adjustments for special chassis

### 2 Basic unit

#### 2.1 Basic unit HTM 905

#### 2.2 Assembly on truck chassis, prime coated

#### 2.3 Basic frame made of sectional girders, 180 x 80 x 8 mm.

### 3 Equipment

#### 3.1 Mixing drum

##### 3.1.1 Mixing drum, standard version

with a screw-fit cleaning opening, with jacket sheet in 4/4.5 mm and spirals in 4 mm (spiral pitch 800 mm) with wear-resistant steel.

Gross drum volume 16.0 m<sup>3</sup>

Capacity in set volume concrete 9 m<sup>3</sup>

Water volume 10.5 m<sup>3</sup>

##### 3.1.2 Mixing drum discharge with 2nd drip ring

### 3.2 Mixer drive

#### 3.2.1 Planet gear made by PMP PMB 6.5

drum drive absolutely unsusceptible to truck chassis-torsions, comprising of:

- stepless adjustable axial-piston hydraulic pump (fabrication Bosch-Rexroth), with servo adjustment,
- planetary gear (fabrication PMP (PMB 6.5))
- Hydraulic motor (fabrication Bosch-Rexroth)
- Oil cooler with temperature control via thermostat (standard).

Drive to axial-piston hydraulic pump by cardan shaft from auxiliary drive (PTO or NMV).

Type of vehicle drive -

### 3.3 Concrete delivery

#### 3.3.1 Feeding hopper, standard with wear protection (metal sheet)

#### 3.3.2 Rubber ridge on the feeding hopper, 200 mm

#### 3.3.3 Discharge hopper Standard with wear protection Injection nozzle – left

#### 3.3.4 rubber apron, mounted on the outlet chute

#### 3.3.5 Mechanical chute adjustment via manual crank

#### 3.3.6 Support bracket can be fully slewed to the side

#### 3.3.7 Discharge chute 1390mm (standard length), with wear-plate adjustable horizontally by 180 degrees and vertically by 30 degrees

#### 3.3.8 2 Extension chute(s) in steel with fixings

### 3.4 Control

#### 3.4.1 Mixer control, mechanical with emergency stop

via bowden cable and electrical diesel speed adjustment (EDC) via hand-actuated auxiliary switch

(Note: only for non-European export without Israel)

Protective casing fastening - pivoting at the back

Diesel engine speed adjustment - electric in 4 steps

3.4.2 coding of chassis MAN, DAF or unknown for EMC / EDC (when contracting by LMT)

3.4.3 Start and stop device for vehicle motor

on rear control station

3.4.4 without EMC special programming

3.4.5 EDC protection box made from stainless steel

### **3.5 Water system**

3.5.1 Water system filled with compressed air

Filler pipe - C-Coupling

Pressure control valve - 5 bar

3.5.2 Water hose 7.5 m

Hose connection/water hose - Standard

3.5.3 Water tank, 500 l steel

Water feeding via compressed-air

### **3.6 Mounting parts**

3.6.1 Single mudguard made from black plastic mounted on rear axles

3.6.2 Single mudguard for second steering axle made from black plastic

3.6.3 Mud flaps at rear mudguards, with assembly

3.6.4 Sliding ladder, with sliding part made from aluminium

3.6.5 Ladder platform according to EN 12609, incl. cladding and guardrail

3.6.6 Cover complete between the platform made of aluminium

3.6.7 Rear drum bearing block cover incl. rubber seal on discharge hopper

3.6.8 Lateral protection on both sides

in accordance with directive/regulation (EC/EU)

3.6.9 Underride protection folding

in accordance with directive/regulation (EC/EU) / regulation no. ECE-R58.

Standard painting of the rear underrun guard in RAL 7016

3.6.10 1 Step on underrun protection, 240 x 406 mm Assembly step - left

3.6.11 Retro-reflective safety markings in accordance

3.6.12 Positioning lights sideways (delivery by chassis manufacturer, assembling by LMT)

### **3.7 Electrics**

3.7.1 1 LED working floodlight mounted on ladder

3.7.2 Reversing camera ECE-R158 from chassis manufacturer

### **3.8 Accessoires**

### **3.9 Warranty**

3.9.1 1 year warranty for complete mixer

3.9.2 1 year warranty for the mixing drum

#### 4 Design

4.1 1 color varnishing of mixer body (HTM 805 - 905)

4.2 Basic frame varnished with chassis color

Mixer body complete color 1: to be defined

Chassis color: to be defined

Hydraulic motor / pump color: RAL 9011 Graphite black

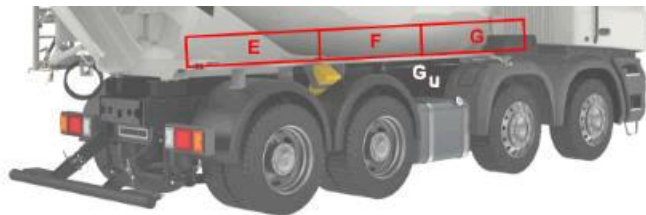
Pump bearing mount color: MB 7350 NOVA-GREY

#### 5 Plattform configuration



Position selected equipment

C Extension chute in steel with fixings



Position selected equipment

E Extension chute in steel with fixings