



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

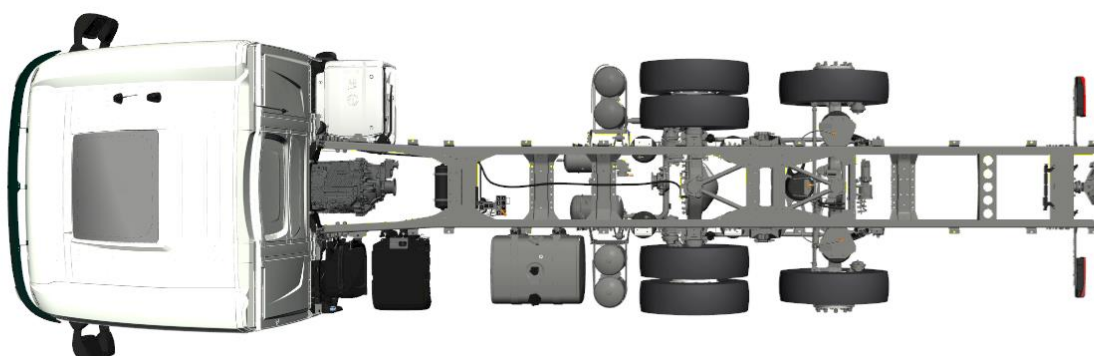


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**XD 450 FAN 6X2 Podwozie pod zabudowę PMC26PL03 XD 450 FAN  
S.C. STOKOTA tanker KMAX3 tires**

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## Vehicle Summary XD 450 FAN 6X2 Podwozie pod zabudowę PMC26PL03 XD 450 FAN S.C. STOKOTA tanker KMAX3 tires

|                                                       |                                                   |
|-------------------------------------------------------|---------------------------------------------------|
| <b>Market packages</b>                                | No market package                                 |
| <b>Application packages 1</b>                         | No application option                             |
| <b>Cab version</b>                                    | Sleeper Cab                                       |
| <b>Cab colour</b>                                     | E1980WHTE                                         |
| <b>Connected Services</b>                             | PACCAR Connect with navigation                    |
| <b>DAF Infotainment System</b>                        | Infotainment including DAF Truck Navigation       |
| <b>Front axle</b>                                     | Front: 8.00 t, parabolic, 165N                    |
| <b>Rear axle group</b>                                | Rear: 20.00 t, air suspension, SR1344             |
| <b>Supplier tyres</b>                                 | Goodyear                                          |
| <b>Tyres fr1 or fr axles</b>                          | F1,315/80R22.5GO KMAXS3 158/150 L Steering BBA 3P |
| <b>Tyres driven rear axle(s)</b>                      | R1,315/80R22.5GO KMAXD3 156/150 L Traction CBA 3P |
| <b>Tyres driven re2 or trailing axle</b>              | R2,315/80R22.5GO KMAXS3 158/150 L Steering BBA 3P |
| <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 2.47                              |
| <b>Retarder system</b>                                | MX Engine Brake                                   |
| <b>Wheelbase / rear overhang</b>                      | Wheelbase 4.40 m / rear overhang 2.55 m           |
| <b>Chassis component layout</b>                       | Standard component location                       |
| <b>Exhaust discharge position</b>                     | Exhaust pipe horizontal, low                      |
| <b>Fuel tank(s)</b>                                   | 340 l alu fuel tank LH, height 620 mm             |
| <b>Type plate related drawbar or solo application</b> | Type plate related drawbar appl. up to max GCM    |
| <b>Body type</b>                                      | No ex works body type                             |
| <b>Chassis weight related gross vehicle mass GVM</b>  | Chassis weight related technical GVM max 27000 kg |
| <b>Drawbar/coupling related max GCM</b>               | Drawbar/coupling related max GCM 53000 kg         |
| <b>Vehicle warranty</b>                               | Standard Warranty - 1Y Full - 2nd year DL - 1Y BD |

## Detailed Specification XD 450 FAN 6X2 Podwozie pod zabudowę PMC26PL03 XD 450 FAN S.C. STOKOTA tanker KMAX3 tires

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### CAB EXTERIOR

- **Luxurious Sleeper 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. The cab interior is extremely comfortable for driving, living and sleeping with unprecedented spaciousness and practical layout. Cab length: 2360 mm; cab width: 2500 mm. Number of cab steps: 3.**
- **Chassis front execution: no bottom plate. Due to the vehicle's chassis height the front underrun protection beam is visible.**
- **Cab suspension air 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.**
- **LED headlights with impact-resistant Lexan lens, including levelling device.**
- 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.
- **Black door handle; door handle surround in cab colour. Keyhole in the door handle at the driver's side to lock and unlock the door manually. 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 2 remote control units with integrated snake blade key with flip mechanism.**

### COLOURS

- Cab colour: E1980WHTE
- Colour of lower cab step: Grey.
- **Colour of mirror covers: black.**
- Chassis colour grey.
- Colour of head lamp panel: Crystal White.

- Colour of bumper: Crystal White.

## 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.**
- **Adjustable arm rests at both sides of 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.
- Open storage compartment in the centre console.
- **Refrigerator in drawer below the lower bunk. Additional storage space is available at the left- and right-hand side of the refrigerator, accessible with tilted bunk.**
- **Standard, foam mattress for the lower bunk, thickness 150 mm.**
- **Curtains along the windscreen and the side windows. Includes curtains for optional side and rear windows, if specified.**
- **LED cab interior lighting, comprising a.o. two large LED light units in the cab ceiling with dimmable flood light to light the whole cab, dimmable red night driving light and a separate spot light for driver as well as co-driver.**
- **Cab climate control automatically controls cab temperature, blower, air distribution and air conditioning**
- **Water-to-air 6 kW auxiliary cab and engine heater with 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.
- Roller blind at the driver side to protect against sunlight.
- **Roof hatch with electric control.**
- Electric window openers.
- **Accessory power supply on the dashboard: 2x 12V/5A and three USB-A connections and additionally 2x 24V/40A (application connector A144) to the roof console.**

- **ECAS remote control with illuminated buttons for various functions including four memory buttons for pre-set chassis heights.**

## 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.
- **PACCAR Connect subscription. PACCAR Connect with navigation, including 5 year subscription for map updates and live traffic information. PACCAR Connect is an online fleet management system providing insight in relevant truck, driver, and location information.**
- **Preparation for satellite communication equipment for the German Maut tax system, consisting of wiring to the installation positions of the on-board unit (OBU) and the digital short-range communication unit (DSRC).**
- Digital (smart) tachograph Stoneridge SE5000 Connect with Galileo Navigation Satellite System (GNSS) receiver, OS-NMA service declaration 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 85 km/h. 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.**
- 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

- **Emergency hammer to enable exit from the vehicle in case of an emergency.**
- 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 & distraction detection assesses the driver's alertness through vehicle system analysis and warns the driver, when deemed necessary. Additionally, the system monitors drivers focus using visual data.
- 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.
- Electronic Vehicle Stability Control system (VSC) to enhance the active driving safety. Improved directional stability (understeer, oversteer jack-knifing) and additional roll-over safety.
- **Acoustic reverse warning with override switch.**
- Basic engine immobiliser.
- **Safety regulations ADR. Certificate for classes AT, FL, EXII and EXIII (excl. materials UN-0331 and UN-0332). Includes battery isolator switch on the chassis, which can also be controlled in the cab.**

- 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 165N, 70 mm vertical offset. Parabolic leaf suspension with shock absorbers and stabiliser. Max. load 8.0 tonnes.**
- Driven rear axle and non-driven steered trailing rear axle with electronically controlled air suspension, including shock absorbers and stabiliser. Driven rear axle type SR1344 with single reduction and 4 air bellows. Trailing axle with 2 air bellows. Max. group load: 20.0 tonnes.
- Trailing axle load 8.0 t.
- **Axle load monitoring: calculation and display of the axle loads of the rigid and trailer (if the trailer is equipped with EBS and axle load sensing). The axle load of a leaf suspended front axle of the rigid will not be displayed.**
- Axle load limiter 11.5 t.
- **Parabolic front suspension, medium driving height conditions.**
- Lifting device for the steered trailing rear axle.
- Manual control to lift the leading and/or trailing rear axle(s) by operating a switch provided the axle load on the driven rear axle(s) is below its maximum.

## WHEELS AND TYRES

- **Front axle(s): tyre size 315/80R22.5, wheel size 22.5 x 9.00.**
- **Driven rear axle(s): tyre size 315/80R22.5, wheel size 22.5 x 9.00.**
- **Trailing axle, tyre size 315/80R22.5, wheel size 22.5 x 9.00.**
- Supplier Goodyear.
- Tyre pressure monitoring.
- **Disc wheels aluminium, Alcoa Brushed, mounting holes 26 mm.**
- Wheel protection rings with open centre section, colour silver-grey (RAL 9006).
- **Front axle: tyre size 315/80R22.5, Goodyear type KMAXS3, load index 158/150, speed index L, application Steering - Regional. Tyre label: rolling resistance B (5,00N/kN) - wet grip B - noise 71dB(A), Category A - 3PMSF - M+S - RFID.**
- **Driven rear axle: tyre size 315/80R22.5, Goodyear type KMAXD3, load index 156/150, speed index L, application Traction - Regional. Tyre label: rolling resistance C (5,60N/kN) - wet grip B - noise 73dB(A), Category A - 3PMSF - M+S - RFID.**



- **Trailing axle: tyre size 315/80R22.5, Goodyear type KMAXS3, load index 158/150, speed index L, application Steering - Regional. Tyre label: rolling resistance B (5,00N/kN) - wet grip B - noise 71dB(A), Category A - 3PMSF - M+S - RFID.**
- 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 fuel: the shift strategy settings of a vehicle with Eco fuel focus on best fuel consumption. The most 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 whilst still taking fuel efficiency into account.
- Automated gearbox, TraXon, 12 speeds.
- **Automated direct drive gearbox TraXon 12TX2210, ratio 16.69-1.00, 12 speeds.**
- Manoeuvring mode for maximum control: if selected, the driveline is gradually engaged, proportionally to the operation of the accelerator pedal.
- **Traction aid for vehicles with a maximum load on the driven rear axle of 15.0 t.**
- **Automated gearbox software optimised for liquid transport.**
- **Rear axle ratio 2.47.**
- **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.**
- **Electro-pneumatic controlled park brake with Auto Apply functionality when the driver's door is opened or at ignition OFF. Auto Apply is a safety feature that prevents the vehicle from starting to free roll (runaway) if the driver leaves it without safely parking it.**
- **Fuel efficient, twin cylinder air compressor with clutch, to eliminate energy loss when air supply is not required.**
- Ventilated disc brakes front and rear. Dual circuit air system with electronic control (EBS). Engine driven, water cooled air compressor with automatic air heated dryer.

## CHASSIS

- **Wheelbase 4.40 m / rear overhang 2.55 m.**
- **Side member height 310 mm, thickness 7.0 mm. Inner reinforcement front side.**
- Standard location of chassis components.
- Horizontal exhaust discharge at the side of the DPF/SCR unit via a low exhaust diffuser.
- **Exhaust discharge to the right-hand side.**



- EAS unit at the right-hand side of the chassis, horizontal battery box and 45 litres tank for AdBlue® at the left-hand side.
- Air tanks steel.
- 340 litres aluminium fuel tank at the left-hand side, height 620 mm.
- Fuel tank at the left-hand side of the chassis.
- Front underrun protection (FUP), according to EU directive 2000/40/EEC.
- Spray suppression in the mudguards, according to directive 91/226/EEC.
- Temporary rear light brackets.
- Rear light unit with bulbs. The rear lights are ON when the engine is running.

#### **DRAWBAR AND TRAILER EQUIPMENT**

- **Type plate related drawbar application, up to the maximum allowable GCM.**
- **Drawbar cross member with Ringfeder trailer coupling: D-value 137 kN, Dc-value 92 kN, V-value 40 kN, S-value 1000 kg. Trailing coupling D = 13.7, Ringfeder RF40 G150B B (40 mm diameter pin). Type B coupling fitted with downward handle on the right-hand side of the coupling. Hole pattern 120 x 55 mm.**
- **Pneumatic trailer connection with palm type couplings.**
- **Electric trailer connection 24V with 15-pin socket. An additional 7-pin socket is mounted to connect the EBS system of the (semi-)trailer. Lighting / accessory cable with 15-pin connectors, EBS cable with 7-pin connectors.**

#### **BODIES AND PREPARATIONS FOR BODYING**

- **Hardwired body signals and warnings.**
- **Body function connector A222 with engine speed control, remote engine start/stop and application speed limiter 1 and application speed limiter 2.**
- **ECAS control to secure vehicle stability during PTO operation. ECAS control comprises both ECAS in bump position and ECAS freeze.**
- **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.**
- **CAN J1939 functions in application connector (chassis: A218; cab: A225).**
- **Additional cab spare wiring providing application connector chassis (option 06692), 4 additional wires in the roof console and 5 extra spare wires in the dashboard.**
- **Four application connectors (cab: A210 and A225; chassis: A218 and A219) for the purpose of a remote control for various tilting body functions on the 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 1, with consoles type B.**

## POWER TAKE-OFF (PTO)

- **First gearbox PTO type NH/4b, mounted at the right-hand side of the gearbox countershaft. Gear ratio 32/25, flange connection.**

## 24V POWER SUPPLY

- **Alternator 130 A, batteries 2x 210 Ah AGM.**

## GVM AND GCM

- Chassis weight related technical GVM max. 27000 kg.
- **Drawbar/coupling related max GCM 53.000 kg.**
- **Driveline related max GCM 50000 kg class 3.**

## APPLICATION CONDITIONS

- Application class 0 comprises Western-Europe excluding United Kingdom and Ireland.
- Standard noise level.
- **Cab insulation suited for more extreme climate conditions (weather patterns with more extreme limits). Compared to the regular cab insulation, the cab back and side walls as well as the cab roof are extra insulated.**
- Maximum ambient temperature 38 degrees.
- Integrated heated fuel filter on engine.
- Air intake front, below the cab.

## 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.
- A number of parts used to manufacture a vehicle contain SVHCs (Substances of Very High Concern) as defined in the REACH legislation.

## VEHICLE DELIVERY

- Whole Vehicle Type Approval (WVTA) for European Union.
- Type plate standard.
- CoC document printed in Polish (PL) language.
- **Lifting jack.**
- **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**

- Tanker 18.000l CR-PV-PL-18-3 Ilość komór 3 TAN525 Pojemność komór przód 5000L / 8000L / 5000L tył

**TECHNICAL SPECIFICATION**

**CR-PV-PL-18-3**

**COFFER-SHAPE RIGID TANK  
PUMPED VERSION  
POLAND**

**FOR THE TRANSPORT OF FUEL  
ACCORDING TO ADR CLASS 3**



**General technical data**

|         |                        |          |
|---------|------------------------|----------|
| TDA011R | Overall capacity (net) | 18.000 L |
|---------|------------------------|----------|

|         |                     |                                                      |
|---------|---------------------|------------------------------------------------------|
| TDA017R | Total length (L)    | Depending on the chassis                             |
| TDA050  | Total width (W)     | ± 2.550 mm                                           |
| TDA067R | Total height (H)    | Depending on the chassis                             |
| TDA030R | Tank length (L')    | ± 6.000 mm                                           |
| TDA068R | Tank height(H')     | ± 1.960 mm                                           |
| TDA108R | Wheelbase (WB)      | Depending on the chassis                             |
| TDA305T | MAW                 | 26.000 kg                                            |
| TDA354T | Max. tot. axle load | Front axle 8000kg Rear axle 18000kg (11500kg+7500kg) |
| TDA464T | Kerbweight          | Depending on the chassis                             |
| TDA594T | Payload             | Depending on the chassis                             |

### ADR

|        |                     |                    |
|--------|---------------------|--------------------|
| ADR010 | ADR                 | Design acc. to ADR |
| ADR050 | Tank code           | LGBF               |
| ADR150 | Approving authority | TDT / AIB          |

### Tank

|        |                  |                                                                    |
|--------|------------------|--------------------------------------------------------------------|
| TAN001 | Execution        | With coaming over the full length, serving as overroll protection. |
| TAN025 | Material         | Aluminum alloy tank                                                |
| TAN050 | Shape            | Coffer-shape cross-section                                         |
| TAN100 | Thickness shell  | min. 5 mm                                                          |
| TAN150 | Thickness heads  | min. 5 mm                                                          |
| TAN200 | Working pressure | Atmospheric                                                        |
| TAN316 | Compartments     | 3                                                                  |
| TAN518 | Capacity/comp    | front 5000L / 8000L / 5000L rear                                   |

### Loading possibilities

|        |                |                                                                                                     |
|--------|----------------|-----------------------------------------------------------------------------------------------------|
| TLP010 | Top loading    | Top loading per compartment.                                                                        |
| TLP050 | Bottom loading | Bottom loading independently for each compartment through API couplings, mounted at the right side. |

### Discharge possibilities

|         |                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|---------|------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| TDP010  | Gravity          | Unmeasured gravity discharge through API couplings.                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| TDP105  | Pumped           | Measured pumped discharge through meter unit Sening GMVT805 via "empty hose" ND80 and "full hose" ND40<br>* centrifugal pump Sening DELTA 2<br>* flowmeter with pneumatic air separator GMVT805<br>* electronic flowmeter Multiflow with temperature compensation<br>* "Empty hose" ND80 with a nominal flow rate of 800L/min<br>* "Full hose" ND40 with a nominal flow rate of 300L/min and the possibility of mechanical control of discharge speed<br>* electronic printer hidden inside driver's cab |
| TDP157R | Full hose (reel) | 1 Off pneumatic driven reel with rubber hose ND40 in length off 40m and with pistol ND50.<br>Hose reel is located behind the driver's cab.                                                                                                                                                                                                                                                                                                                                                               |

### Tank top equipment - general

|        |                    |                                                                                                                                     |
|--------|--------------------|-------------------------------------------------------------------------------------------------------------------------------------|
| TTE001 | Manhole            | 1 off manhole ND500, brand Tecnometal, per compartment.                                                                             |
| TTE100 | Top loading        | Each manhole is equipped with a filling opening ND250.                                                                              |
| TTE350 | Indication         | Each manhole is foreseen with the appropriate compartment number and capacity                                                       |
| TTE500 | Safe access        | The inside of the coaming is foreseen with anti-slip decals for safe operation.                                                     |
| TTE550 | Ladder             | An access ladder to the coaming is mounted at the rear RH-side of the barrel, with a side step.                                     |
| TTE600 | Handrail           | An aluminium foldable handrail is foreseen on the RH-side, over the full length of the coaming.                                     |
| TTE650 | Handrail operation | The raising/lowering of the handrail is executed from the top of the tank, from a side step.                                        |
| TTE800 | Drain valves       | At the rear, the coaming is foreseen with 2 off drain pipes, guided through the tank, terminating each in a manual ball valve 1.5". |

### Bottom loading and vapour recovery

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|        |                       |                                                                                                                                                           |
|--------|-----------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------|
| TBL001 | Bottom valves         | Each compartment is equipped with a pneumatic operated bottom valve ND100, brand Tecnometal.                                                              |
| TBL050 | Loading adaptor       | Each compartment is terminating in manual operated adaptor ND100, type API, brand Tecnometal.                                                             |
| TBL075 | Blind cap             | Each adaptor is foreseen with a blind cap.                                                                                                                |
| TBL120 | Indication            | Each adaptor is foreseen with the appropriate compartment number and compartment capacity.                                                                |
| TBL125 | Piping                | All piping between bottom valves and API valves to be in aluminium 4".                                                                                    |
| TBL155 | API cabinet           | Whole bottom loading equipment is protected against unauthorised opening by the closed cabinet with a single flap door system.                            |
| TBL220 | Location              | Whole bottom loading equipment is grouped together in a closed aluminum cabinet, situated on the RH-side, in the wheelbase.                               |
| TBL500 | Vapour recovery line  | Vapour recovery installed on the left side of the coaming.                                                                                                |
| TBL550 | Vapour transfer valve | Each manhole will be supplementary equipped with a pneumatic operated vapour transfer valve, brand Tecnometal, and connected to the vapour recovery line. |
| TBL600 | Vent valve            | The vent valve is executed with a pneumatic operated vent valve, brand Tecnometal, interlocked with the vapour recovery valve.                            |
| TBL650 | Vapour recovery valve | Mounting of a vapour recovery valve, ND100, brand Tecnometal, near to the API valves.                                                                     |
| TBL700 | Overfill protection   | Each compartment is equipped with an optical overfill protection, brand Scully.                                                                           |
| TBL800 | Electrical connection | A 10-pins electrical connector with a cap is mounted near to the vapour recovery valve to connect the overfill protection to the loading station          |

### Chassis and running gear

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|         |                     |                                                                                            |
|---------|---------------------|--------------------------------------------------------------------------------------------|
| RGE280  | Spare wheel         | Not included.                                                                              |
| RGE501  | Rear bumper         | Rear bumper, brand STOKOTA, with lights delivered with the chassis.                        |
| RGE551R | Additional lighting | Side marker lights delivered with the chassis.<br>Rear outline marker lights on rubber arm |
| RGE600  | Electrical system   | 24 V, acc. ADR regulations.                                                                |
| RGE650  | Side protection     | Side protection in alu profiles, not painted.                                              |

|         |                      |                                                                                                                             |
|---------|----------------------|-----------------------------------------------------------------------------------------------------------------------------|
| RGE725  | Mudguards            | Plastic mudguard with anti-spray mudflap over each wheel.<br>1 Off rubber mudflap at the rear under the bumper is foreseen. |
| RGE760R | Chassis requirements | Chassis should be delivered according to „General requirements STOKOTA regarding chassis”.                                  |
| RGE761R | Tank fixation        | Tank is fixed to the chassis by flexible connectors.                                                                        |

### Grounding features

|        |                |                                                                                                                             |
|--------|----------------|-----------------------------------------------------------------------------------------------------------------------------|
| GRO001 | Grounding reel | A manual operated grounding reel is installed on the unit, with crocodile clamp.                                            |
| GRO011 | Grounding pins | 4 Off round grounding pins are mounted, 2 as close to the front as possible, left and right; 2 at the rear, left and right. |

### Further equipment

|        |                         |                                                                                                                                                                                                                                                |
|--------|-------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| FEQ018 | Hose carrier            | 1 Off hose carrier tubes diam. 160mm, in ALU, mounted left and right of the tank. Each with alu cap at the front and alu door at the rear. No drain is foreseen since hoses have to be closed by caps acc. to ADR rules..<br>Length 5,5m each. |
| FEQ100 | Toolbox                 | 1 Off PVC toolbox, dim. $\pm(600 \times 400 \times 400)$ , mounted on the RH-side in the rear overhang.                                                                                                                                        |
| FEQ125 | Toolbox opening         | Toolbox is open downwards.                                                                                                                                                                                                                     |
| FEQ210 | Fire extinguisher       | 2 Off 6kg fire extinguishers, in a PVC cabinets.                                                                                                                                                                                               |
| FEQ230 | ADR box                 | 1 Off ADR box class 3 is foreseen.                                                                                                                                                                                                             |
| FEQ250 | Wheel chocks            | 2 Off plastic wheel chocks will be mounted.                                                                                                                                                                                                    |
| FEQ300 | UN identification plate | At the rear, a combi UN identification will be mounted.                                                                                                                                                                                        |
| FEQ350 | Warning decals class 3  | 3 Off decals “Flame” are foreseen, 1 on each side and 1 at the rear.                                                                                                                                                                           |
| FEQ375 | Warning decals “fish”   | 3 Off decals “Fish” are foreseen, 1 on each side and 1 at the rear.                                                                                                                                                                            |
| FEQ400 | Emergency closing #1    | 1 Off “Emergency” switch will be mounted near the API valves assembly. When activated all bottom valves will be closed automatically.                                                                                                          |

### Accessories

|         |                     |                                                                                                                                                                                                                                  |
|---------|---------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ACC022R | Delivery hoses      | 1 Off fuel delivery hose, type “Composite”, ND80, with Camlock couplings and caps at each end. Length 5,0m.<br>1 Off gas recuperation hose, type “Composite”, ND80, with symmetrical couplings and caps at each end. Length 5,0m |
| ACC050  | Discharge couplings | 1 Off API 4"-3" and 1 off COV 4"-3" are foreseen.                                                                                                                                                                                |



## Finishing

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|        |                      |                                                                                                                                                                                                                                 |
|--------|----------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| FIN100 | Corrosion protection | All steel parts are sandblasted and coated in the anticorrosive layer (epoxy undercoat).<br>All alu parts, including tank, are chemical cleaned prior to painting and protected by the anticorrosive layer (etching undercoat). |
| FIN150 | Plastering           | Welds around dish ends are plastered to give an optical smoother look.                                                                                                                                                          |
| FIN200 | Coating              | The vehicle painted with two-component acrylic paints, with the exception of metallic and non-metallic bases and clearcoat covering.                                                                                            |
| FIN300 | Colours              | Colours have to be according to RAL-code or FLN-code.                                                                                                                                                                           |
| FIN350 | Different colours    | Two different colours are foreseen in this offer:<br>- One colour for the tank<br>- One colour for chassis and its components..                                                                                                 |
| FIN500 | Logo / Advertising   | No logo's and/or advertising are foreseen in this offer.                                                                                                                                                                        |
| FIN700 | Reflecting stripping | Reflecting stripping is foreseen on RH-side, LH-side and rear of the tank, according to R48 regulation.                                                                                                                         |

## Additional equipment (above not included), included in the price:

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- 1 Off hose carriers bended shape Stokota, in ALU (instead of PVC), fixed left and right of the tank, each with alu cap at the front and alu door at the rear.
- Closed aluminum API cabinet with MANUAL BUS DOOR system instead of FLAP DOOR, additional cost for one side cabinet.
- Sening pump Beta; shaft driven; instead of Sening Delta.
- Trailer connection - version with Beta pump.
- Aluminium gutter under the API valves.
- Trailer female dry-coupling with Kamlock 3".
- 1 Off working light.
- Self-loading by trailer coupling without overflow protection.