



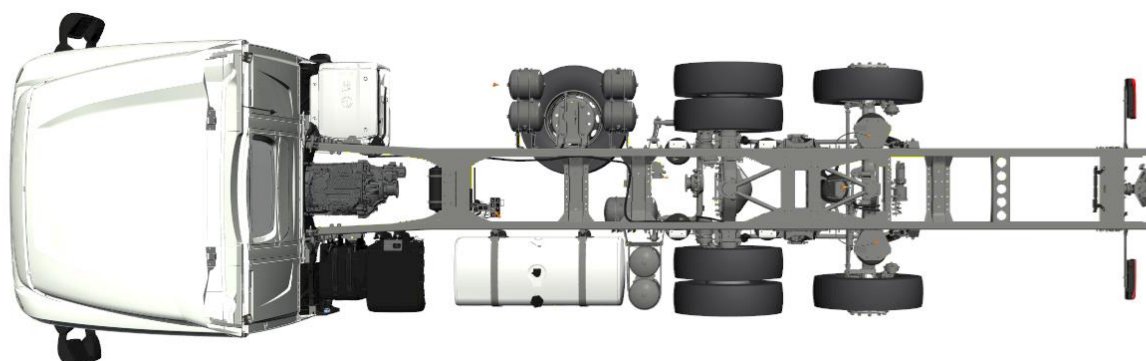
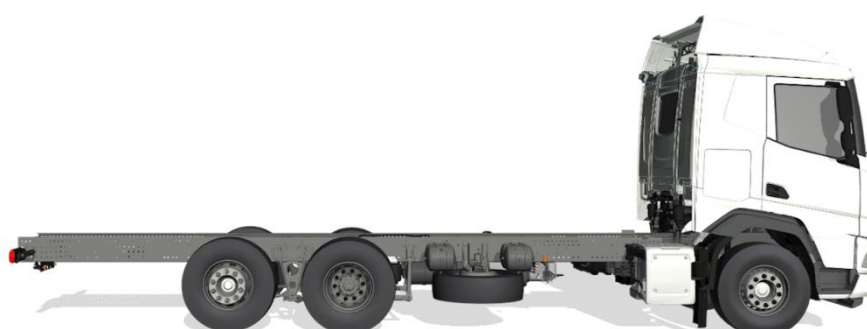
DAF Trucks Polska Sp. z o.o.



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**XF 480 FAN 6X2 Podwozie pod zabudowę PMC26PL04 XF 480 FAN
S.C. HIAB hooklift**

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Vehicle Summary XF 480 FAN 6X2 Podwozie pod zabudowę PMC26PL04 XF 480 FAN S.C. HIAB hooklift



Unlock your custom truck experience! Simply scan the QR code to explore your vehicle in the DAF Truck Configurator. From there you can effortlessly share your configuration with your bodybuilder and others.

Engine	Engine MX-13, 355 kW/483 hp. Cab Badge: 480
Retarder system	MX Engine Brake
Fuel tank(s)	620 l alu fuel tank LH, height 620 mm
Front axle	Front: 9.00 t, parabolic, 187N
Tyres fr1 or fr axles	F1,385/65R22.5GO KMAXS2 160/000 K Steering BBA
Tyres driven rear axle(s)	R1,315/80R22.5GO KMAXD2 156/150 L Traction DCA
Tyres driven re2 or trailing axle	R2,315/80R22.5GO KMAXS2 156/150 L Steering CBA
Spare tyre	SP,315/80R22.5GO KMAXD2 156/150 L Traction DCA
Cab version	Sleeper Cab
Wheelbase / rear overhang	Wheelbase 4.80 m / rear overhang 2.70 m
Rear axle ratio	Rear axle ratio 2.38
Chassis weight related gross vehicle mass GVM	Chassis weight related technical GVM max 28000 kg
Market packages	No market package
Application packages 1	No application option
Cab colour	E1980WHTE
Connected Services	PACCAR Connect
DAF Infotainment System	Infotainment basic
Rear axle group	Rear: 20.00 t, air suspension, SR1344
Supplier tyres	Goodyear
Exhaust emission	Exhaust emission Euro 6
Gearbox execution	Automated gearbox, TraXon, 12 speeds
Chassis component layout	Standard component location
Exhaust discharge position	Exhaust pipe horizontal, low
Type plate related drawbar or solo application	Type plate related drawbar appl. up to max GCM
Body type	No ex works body type
Drawbar/coupling related max GCM	Drawbar/coupling related max GCM 53000 kg
Vehicle warranty	Warranty Plus-Driveline-3 years-300K

Detailed Specification XF 480 FAN 6X2 Podwozie pod zabudowę PMC26PL04 XF 480 FAN S.C. HIAB hooklift

CAB EXTERIOR

- LED head and bumper mounted fog lights.
- LED headlights with impact-resistant Lexan lens, including levelling device.
- Dashboard switch and wiring including connectors A229 and A230 for easy mounting of two LED work lamps on the cab rear wall. The two work lamps are supplied loose.
- Double glazed window in the cab rear wall.
- 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.
- 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.
- Cab suspension air with integrated shock absorbers.
- Chassis front execution: no bottom plate. Due to the vehicle's chassis height the front underrun protection beam is visible.
- Main mirror and wide angle mirror.
- Rigid first cab entrance step with anti-slip tread.
- 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 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.
- 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.

AERODYNAMICS

- Adjustable roof air deflector for optimum aerodynamic streamline between cab and superstructure or semi-trailer. Roof air deflector height measured from underside chassis frame member to highest point roof air deflector: between 2.99 and 3.37 meters.

COLOURS

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

CAB INTERIOR

- **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 rest at both sides of the co-driver seat.**
- **Cab climate control automatically controls cab temperature, blower, air distribution and air conditioning**
- **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.**
- Black steering wheel with silver accents and soft grip finish.
- Arm rest on the driver seat.
- Foldable cinema co-driver seat. Cover material: fabric.
- **Roof hatch with electric control.**
- **Soft woven, fabric door covering.**
- **ECAS remote control with illuminated buttons for various functions including four memory buttons for pre-set chassis heights.**
- Left-hand drive.
- 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.
- Cab wallcovering textile with sound absorbing inner lining.
- The driver seat is fixed to the cab floor.
- 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.
- 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.
- Water-to-air 3.8 kW auxiliary cab heater with residual heat pump. Control panel with 7-day timer.
- 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.
- Electric window openers.

COMMUNICATION AND DRIVING MANAGEMENT

- **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).**
- **Standard antennas: FM/DAB/DAB+ radio frequencies, 2x cellular for use by mobile phones, GNSS for location purposes. Extra: CB antenna.**
- 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 is an online fleet management system providing insight in relevant truck, driver, and location information.
- 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 Basic 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 including phone capabilities. Supports Apple CarPlay and Android Auto projection on secondary display.
- 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.
- Based on GPS technology Predictive Cruise Control anticipates on approaching changes in the gradient. Predictive Cruise Control may overrule the set cruise control speed, change the shift strategy of the automated gearbox or induce EcoRoll actions, in order to save fuel.
- 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

- **Acoustic reverse warning with override switch.**
- **Main switch on the chassis.**
- 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.
- 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

- **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.**
- **Front axle type 187N, 32 mm vertical offset. Parabolic leaf suspension with shock absorbers and stabiliser. Max. load 9.0 tonnes.**
- **Parabolic front suspension, high driving height conditions.**
- 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 limiter 11.5 t.
- 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 385/65R22.5, wheel size 22.5 x 11.75.**
- **Spare: tyre size 315/80R22.5, wheel size 22.5 x 9.00.**
- **Front axle: tyre size 385/65R22.5, Goodyear type KMAXS2, load index 160/000, speed index K, application Steering - Regional. Tyre label: rolling resistance B - wet grip B - noise 70dB(A), Category A.**
- **Driven rear axle: tyre size 315/80R22.5, Goodyear type KMAXD2, load index 156/150, speed index L, application Traction - Regional. Tyre label: rolling resistance D - wet grip C - noise 72dB(A), Category A.**

- **Trailing axle:** tyre size 315/80R22.5, Goodyear type KMAXS2, load index 156/150, speed index L, application Steering - Regional. Tyre label: rolling resistance C - wet grip B - noise 71dB(A), Category A.
- **Spare wheel:** tyre size 315/80R22.5, Goodyear type KMAXD2, load index 156/150, speed index L, application Traction - Regional. Tyre label: rolling resistance D - wet grip C - noise 72dB(A), Category A.
- **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.
- Steel disc wheels, silvergrey.
- Wheel protection rings with open centre section, colour silver-grey (RAL 9006).

DRIVELINE

- **Engine MX-13, multi torque 6 cylinder diesel engine, 12.9 litres. Output 355 kW (483 hp) at 1600 rpm. Maximum torque 2500 Nm at 900-1125 rpm.**
- **Traction aid for vehicles with a maximum load on the driven rear axle of 15.0 t.**
- **Driven rear axle with a mechanical differential lock.**
- **Automated direct drive gearbox TraXon 12TX2210, ratio 16.69-1.00, 12 speeds.**
- **Rear axle ratio 2.38.**
- 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.
- Manoeuvring mode for maximum control: if selected, the driveline is gradually engaged, proportionally to the operation of the accelerator pedal.
- Automated gearbox software optimised for standard transport applications. Gearbox control version: Full.
- 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.**
- **Twin cylinder air compressor with heated dryer and economy mode.**
- Pneumatic park brake control.
- 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

- Spare wheel carrier right-hand side.
- 620 litres aluminium fuel tank at the left-hand side, height 620 mm.
- EAS unit at the right-hand side of the chassis, horizontal battery box and 75 litres tank for AdBlue® at the left-hand side.
- Wheelbase 4.80 m / rear overhang 2.70 m.
- Side member height 310 mm, thickness 7.0 mm. Full length inner reinforcement.
- Exhaust discharge to the right-hand side.
- Standard location of chassis components.
- Horizontal exhaust discharge at the side of the DPF/SCR unit via a low exhaust diffuser.
- Air tanks steel.
- 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

- Drawbar cross member with Ringfeder trailer coupling: D-value 137 kN, Dc-value 92 kN, V-value 40 kN, S-value 1000 kg. Trailer 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.
- Electric trailer connection 24V with two 7-pin sockets. An additional 7-pin socket is mounted to connect the EBS system of the (semi-)trailer. Lighting / accessory cable with two 7-pin connectors at one end and 15-pin connector at the other end; EBS cable with 7-pin connectors.
- Type plate related drawbar application, up to the maximum allowable GCM.
- Pneumatic trailer connection with palm type couplings.

BODIES AND PREPARATIONS FOR BODYING

- Loose supply of a wiring loom with LED-type side marker lights.
- 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.
- 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.
- Hardwired body signals and warnings.
- CAN J1939 functions in application connector (chassis: A218; cab: A225).
- 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 power supply including power connector (A219) in the chassis.**
- **The option Additional rear light wiring provides a second rear light extension harness to enable mounting of a second set of rear lights at the rear of a vehicle.**
- **Body function connector A222 with engine speed control, remote engine start/stop and application speed limiter 1 and application speed limiter 2.**
- Additional light connector in the chassis.
- Chassis frame prepared for standard applications.
- Standard body attachment hole pattern.

POWER TAKE-OFF (PTO)

- **First gearbox PTO N../10c, mounted below the gearbox countershaft. Gear ratio 41/26, direct pump drive.**

24V POWER SUPPLY

- **Alternator 130 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. 28000 kg.**
- Drawbar/coupling related max GCM 53.000 kg.
- Driveline related max GCM 50000 kg class 3.

APPLICATION CONDITIONS

- **Shield beneath the radiator to prevent the disturbance of dust by the cooling fan.**
- 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.
- Air intake front, below the cab.

SERVICE AND MAINTENANCE

- **Warranty Plus - Driveline, takes care of 1 year complete vehicle as supplied by the OEM (excl. real wear parts), 2nd and 3rd year driveline up to 300,000 km 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

- **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.**
- Whole Vehicle Type Approval (WVTA) for European Union.
- Type plate standard.
- CoC document printed in Polish (PL) language.
- CO2 calculation is possible in TOPEC RTS.

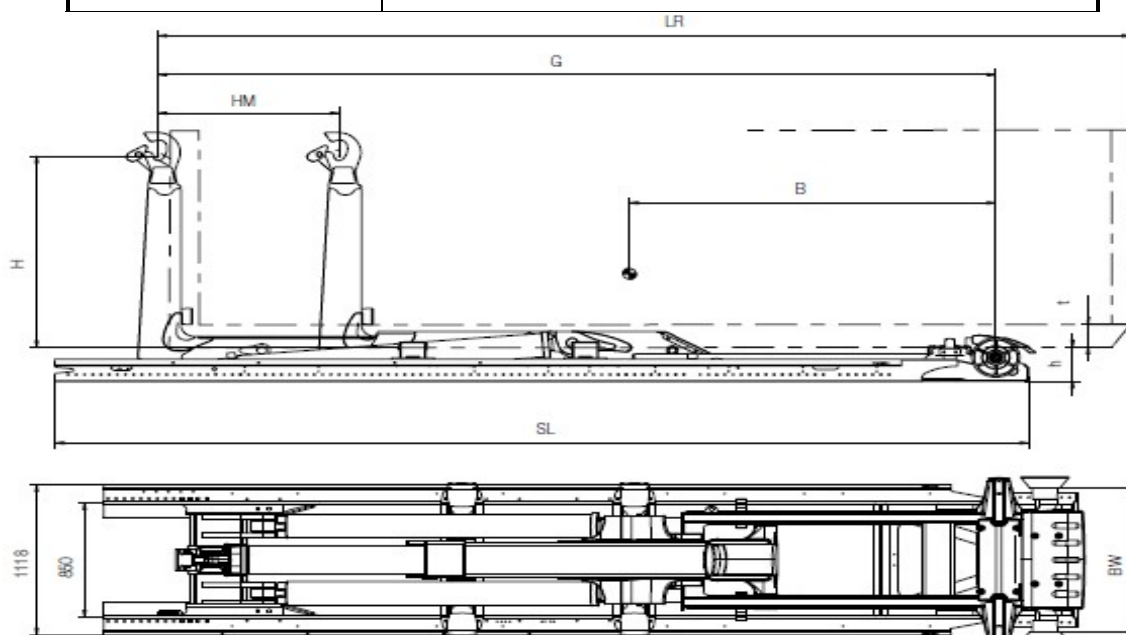
CUSTOMER NEEDS

DAF THIRD PARTY WORK

- **Hakowiec MULTILIFT Ultima 21 S 59**

I. MULTILIFT ULTIMA 21S BASIC DATA

<i>Type MULTILIFT Ultima 21 S 59</i>	
Capacity	21.000 kg
LR-Body length(min-max) internal (m)	4,6-6,9
h-installation height(mm)	250
H-hook height (mm)	1.570
G –length(mm)	5.860
Tipping angle(°)	49°
Max.operating pressure (Mpa)	30
System weight (kg)	2.530
HM-Horizontal movement (mm)	1450
BW-Body width (mm)	1070



II. PRODUCT SPECIFICATION HIAB Ultima 21S59

- CE marked
- Control level, Flex
- Body standard DIN
- Mounting height 250 mm
- Body width 1070 mm
- Load capacity Max 21 t
- Measurement 5900 mm
- Hook height 1570 mm
- Fixed hook (Detachable)
- Hydraulic body locking, inside standard
- Second-Generation Control System
- Control valve position – left, middle
- Hydraulic oil, mineral
- Zinc primer on main frames
- Top coating Hiab black RAL 9005
- Rear rollers yellow RAL1016
- Mechanical subframe / rearframe locking (Half Moon)
- Emergency drive key
- Basic bracket, removable
- Friction relief without middle frame body rollers
- Automatic sequence control
- Fast speed
- Fast tipping
- Warning buzzer, outside cabin
- Safespeed, end-of-movement damping
- Oil tank 100 l, small filter
- Pressure filter set, loose
- Standard warranty (2 years / frames 5 years)