








PFL 30

Loading solution for mining

-  **Compact design** meets **high productivity**
-  Lateral cab arrangement for **excellent view for both sides**
-  **Fast production cycles** due to efficient drive technology
-  Daily maintenance from the ground for **safer service**
-  **Intelligent monitoring system** for all PFL-parameters

Technical data

1140-01-000 - Rev.11

MAIN FEATURES

Z-Kinematic, two lifting cylinders, one tipping cylinder	
Bucket volume:	
heaped	3.0 m ³
struck	2.5 m ³
Traction force	110 kN
Tipping load	13,000 kg
Raising time	5.0 s
Lowering time	4.0 s
Dumping time	2.5 s

OPERATION CONDITIONS

Operation temperature	-20 °C *up to +40 °C
Permissible longitudinal gradient	max. 35 %
Operating altitude above sea-level	< 1.500 m
<small>*note cold start limit temperature of the diesel engine</small>	

CHASSIS

Divided chassis with articulated-joint	
Rigid mounted front axle and oscillating rear axle	
Angle of oscillation	+/- 8°
Towing eye rear	
Lifting eyes for assembly and shaft transport	

WEIGHTS AND PERMITTED AXLE LOADS

Total operating weight	18,500 kg*
Payload	6,000 kg
Front axle load, loaded	19,000 kg
Rear axle load, loaded	9,000 kg
<small>*depending on selected options</small>	

DIESEL ENGINE

Diesel - Deutz / TCD 2012 L06 2V

Exhaust stage	EU stage IIIA / EPA Tier 3
Power	147 kW at 2,300 rpm
Exhaust system	Catalytic with measuring points
Generator / Starter	28 V, 80 A / 24 V, 4 kW
Cold start limit temperature	-15 °C
Fuel prefilter and fuel fine filter with water separator	
Engine monitoring and operating data on diagnostic display	
Dry air filter with pre-filter	
Fuels with a sulphur content < 50 mg/kg only	

FUEL SYSTEM

Fuel tank capacity	150 l
Electric level indicator	

AXLES

Manufacturer	Kessler
Type	D91
Differential	open

STEERING

Hydraulic-articulated steering with one double-acting hydraulic cylinders	
Joystick steering	
Emergency steering	

Technical data

1140-01-000 - Rev.11

DRIVE LINE

Hydrodynamic drive, "full power shift" gearbox	
Automatic gearshift control	
All wheel drive	
Manufacturer	DANA
Type	32.400
Single-stage torque converter	
Reversible under load	
Driving:	
• 1 st Gear	5 km/h
• 2 nd Gear	10km/h
• 3 rd gear	16km/h
• 4 th gear	25km/h
Traction force / Gradeability (loaded):	
• 1 st gear	185 kN / 100 %
• 2 nd gear	90 kN / 42 %
• 3 rd gear	52 kN / 12 %
• 4 th gear	30kN / 12 %

SERVICE BRAKE

Spring-applied, hydraulically released (SAHR)
In the axle housings located oil-immersed multiple disc brakes

PARKING BRAKE SYSTEM

Spring-applied, hydraulically released (SAHR)
Hand pump to release the brake in case of system failure

AUXILIARY BRAKE

The parking brake acts simultaneously as an auxiliary brake

TIRES

Tire size 17.50x25

HYDRAULIC SYSTEM

Tank capacity 125 l
Inspection glasses for Min/Max indication
Temperature sensor
Electric level indicator, control of minimum level
All fittings in DIN type

ELECTRIC SYSTEM

Operating voltage 24 V
Battery 2x 12 V, 155 Ah
Lockable main switch
Emergency stop button, one in the drivers canopy, one outside
Reverse alarm
In case of driver absence occurs automatically:

- Switching the traction drive in neutral gear
- Activation of the parking brake
- Deactivation of the steering and working hydraulics

ONBOARD DIAGNOSTICS

Display of operational data of drive line, sensors, actuators
Change of parameters with user roles
Diagnosis of active faults

Technical data

1140-01-000 - Rev.11

LIGHTING (LED)

Four front and four rear work lights, two each for the illumination of the near and two for the long-range with high and low beacon

Two working lights mounted on the canopy, directed backwards

Two flashlights, yellow flashing beacon

FINISH

Driver's canopy RAL 1007

Chassis / Drive components RAL 9005

DRIVER'S CANOPY

Open drivers canopy

- ROPS-/FOPS certification
- Three-point entrance from the side with a half door
- Operation of the kinematic and the driving direction by joysticks
- Controls and displays clearly arranged and within easy reach

Driver's seat

- With lap belt
- Synthetic leather cover
- Adjustment of back rest and seat

Accessories

ACCESSORIES AND EQUIPMENT (INCLUDED)

Frame articulation locking device

Mechanical boom locking device

Central lubrication block

Portable fire extinguisher

Wheel chocks

Tool kit with bag

Safety helmet and ear protection

Two triangular safety reflectors

First-aid kit

DOCUMENTATION

A printed version of the operating instructions in the document box on the vehicle

Operating instructions, spare parts list and wiring diagrams in electronic form via online access



Accessories (options)

1140-01-000 - Rev.11

OTHER OPTIONS

Hydraulic fittings in JIC type

Paus Connect

- Telemetry unit for data transfer to the Paus Connect Cloud
- Data transmission via existing WLAN and/or mobile phone networks
- Intermediate storage of all data in the absence of connectivity (up to 30 days)
- Access to the Paus Connect Cloud
 - Remote diagnosis/remote maintenance
 - Statistical application evaluation
 - Vibrational monitoring
 - Two-way communication
 - Authorisation of machine use
 - User administration with controlled data access
 - Individual evaluations and statistics
- Direct access at the machine for data transfer

External power socket

Extended sealing of connectors

- Grease filling
- Sealing filling

Central automatic lubricating system

PUR foamed tyres

Spare wheel

Extended tool kit

Service packages for 2,000 operating hours

Service packages for 3,000 operating hours

Additional one operating instructions and Spare part list in national language in printed form

DRIVE

Diesel engine, Manufacturer / Type **Cummins / QSB 6.7**

Exhaust stage EU stage IIIA / EPA Tier 3

Power 144 kW at 2,200 rpm

Exhaust system Catalytic with measuring points

Cold start limit temperature -23 °C

Fuel prefilter and fuel fine filter with water separator

Engine monitoring and operating data on diagnostic display

Dry air filter with pre-filter

Diesel Engine, Manufacturer / Type **Deutz / TD 6.1 L6**

Exhaust stage EU stage V / EPA Tier 4F

Power 150 kW at 2,300 rpm

Exhaust system DOC, DPF, SCR

Cold start limit temperature -15°C

Fuel prefilter and fuel fine filter with water separator

Engine monitoring and operating data on diagnostic display

Dry air filter with pre-filter

Fuels with a sulphur content < 50 mg/kg only

WORK EQUIPMENT

Bucket „LD “(for bulk density: $\leq 1.8 \text{ t/m}^3$), volume heaped 3.3 m³

Bucket „HD “(for bulk density: 2.1 – 3.0 t/m³), volume heaped: 2.8 m³

Further equipment and options on request

All machines are designed and manufactured in accordance with the latest safety standards, including the currently valid European Machinery Directive and the ISO standard for mobile machines for underground mining. This means that even the basic version of the machines provides a high level of safety for the operator, which can be supplemented as required with additional optional safety equipment.

The standard equipment includes the following safety features:

- ROPS/FOPS canopy(s)
- Braking system („fail-safe“)
- Emergency stop button
- Three-point safety entrance
- etc.

Safety (options)

SAFETY EQUIPMENT

Towing coupling with automatic release device of the parking brake

Radio remote control

- Radio remote control with very good characteristics regarding robustness, Comfort and reliability
- Coordinated displays and controls

Brake test

Three-point-belt

Seat contact monitoring driver's seat

Driver's belt monitoring

Rear view camera system

HRD fire suppression system automatic

HRD fire suppression system manual

COMFORT EQUIPMENT

Closed driver's compartment:

- Wiping / washing system for windshields
- Heating and ventilation

Air conditioning

Vandalism protection

Reverse alarm acknowledgeable

LIGHTING

Direction lights red/green

Rear working lights active during reversing

Further equipment and options on request

Service

1140-01-000 - Rev.11

CUSTOMER SERVICE

Repairs and maintenance work are central points in customer service. Here, Paus is broadly positioned and offers its customers and dealers worldwide an extensive service program. Thus, trained employees are available under our service hotline as well as competent contact persons at our dealers on site.

PAUS CONNECT

Cloud, which captures and displays all data, messages and location.

Your advantages:

- Faster service
- Life cycle cost management

More information on page 5

SPARE PARTS

We attach great importance to a high availability of Paus spare parts. In addition to maintenance and service parts, which are available at any time, customers and dealers have the possibility to obtain spare parts for engines, axles, gearboxes, etc. easily and quickly through us. Benefit from our online catalog with elaborated spare parts lists.



Dimensions

DIMENSIONS

Length	approx. 8,300 mm
Width	approx. 2,040 mm
Height	approx. 2,280 mm
Height with bucket raised	approx. 4,000 mm

TURNING RADIUS

Outside	approx. 5,900 mm
Inside	approx. 3,250 mm

Dimensions

1140-01-000 - Rev.11

