



Original may vary from picture

Main feature of the machine:

- Compact Load Haul Dump (LHD) for use in underground mining
- Z-Kinematic, two lifting cylinders, one tip cylinder
- Bucket „ST“ (for a bulk density 1.9 - 2.0 t/m³), volume heaped: 0.8 m³
- Volume struck: 0.6 m³
- Pulling force: 40 kN
- Tipping load: 5,000 kg
- Lifting time: 4.0 s
- Drawdown time: 3.0 s
- Tipping time: 2.5 s

Operating conditions:

- Operating temperature: -20 °C *up to +40 °C
 - Permissible longitudinal gradient: max. 35 %
 - Operating altitude above sea level: < 1,500 m
- * note cold start limit temperature of the diesel engine

Chassis:

- Divided chassis with articulated-oscillated-joint
- rigid mounted rear and front axle
- Angle of oscillation: ± 8°
- Towing eye rear
- Lifting eyes for assembly and shaft transport

Weights and permitted axle loads:

- Operating weight: 6,300 kg*
- Payload: 1,500 kg*
- Front axle load, loaded: 5,500 kg
- Rear axle load, loaded: 4,000 kg

* depending on selected options

Diesel engine:

- Manufacturer / Type: Deutz / TD 2.9
- Exhaust stage: EU stage IIIB / EPA Tier 4F
- Power: 55.4 kW at 2,300 rpm
- Exhaust system: Catalyser 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
- for fuels with a sulphur content < 50 mg/kg

Fuel system:

- Fuel tank capacity: 90 l
- Electric level indicator

Drive line:

- Hydrostatic drive
- Reversible under load
- All wheel drive
- Manufacturer: Danfoss
- Type: H1
- Drive performance:
 - o 1st Gear: 5 km/h
 - o 2nd Gear: 15 km/h
- Pulling force / Gradeability:
 - o maximum: 45 kN / 75 %
 - o 1st Gear (5 km/h): 37 kN / 55 %
 - o 2nd Gear (15 km/h): 11 kN / 14 %

Axles:

- Manufacture: Comer
- Type: 128
- Differential: open

Service brake:

- Oil-immersed multiple-disc brake, pump-storage brake system acting on all 4 wheels
- Additional brake function, operating wear-free on all 4 wheels via hydrostatic drive

Parking brake system:

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

Auxiliary brake:

- One circuit of the service brake

Tires 9.00x20

Hydraulic system:

- Tank capacity:
- Inspection glasses for Min/Max indication
- Temperature sensor
- Electric level indicator, control of minimum level
- All screwing's in JIC type

80 l

Steering:

- Hydraulic-articulated steering with one double-acting hydraulic cylinders
- Joystick Steering
- emergency steering

Electric system:

- Operating voltage:
- Battery:
- Lockable main switch
- Emergency stop button, 1x in the drivers stand, 1x outside
- Reversing signal
- In case of driver absence occurs automatically:
 - o switching the traction drive in neutral gear
 - o Activation of the parking brake
 - o Deactivation of the steering

24 V

2 x 12 V, 110 Ah

Onboard diagnostics:

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

Lighting (LED):

- four front and four rear work lights, two each for the illumination of the near and two for the long-range
- two working light mounted on the canopy, directed backwards
- two flashlights, yellow

Driver's compartment:

- Open drivers stand:
 - o ROPS/FOPS proofed
 - o 3-point entrance from the side through a half door
 - o Operation of the kinematic and the driving direction by joysticks
 - o Controls and displays relevant to driving clearly arranged and within easy reach
- Driver's seat:
 - o with lap belt
 - o Synthetic leather cover
 - o Adjustment of back part and seating, height

Finish:

- | | |
|-------------------------------|----------|
| - Driver's cabin: | RAL 1007 |
| - Chassis / Drive components: | RAL 9005 |

Accessories and equipment (included):

- Articulation joint lock
- Loading beam lock
- Central lubrication bar
- one hand-held fire extinguisher
- 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

Options

Drive:

- Diesel engine, Manufacturer / Type: Deutz / BF 4L 914
 - o Exhaust stage: EU stage II / EPA Tier 2
 - o Power: 69 kW at 2,300 rpm
 - o Exhaust system: Catalyser with measuring points
 - o Generator / Starter: 28 V, 55 A / 24 V, 4 kW
 - o Cold start limit temperature: -15 °C
 - o Fuel prefilter and fuel fine filter with water separator
 - o Engine monitoring and operating data on diagnostic display
 - o Dry air filter with pre-filter
 - o Air cooled
- Diesel engine, Manufacturer / Type: Deutz / D 914 L04
 - o Exhaust stage: EU stage IIIa / EPA Tier 3
 - o Power: 55 kW at 2,150 rpm
 - o Exhaust system: Catalyser with measuring points
 - o Generator / Starter: 28 V, 55 A / 24 V, 4 kW
 - o Cold start limit temperature: -15 °C
 - o Fuel prefilter and fuel fine filter with water separator
 - o Engine monitoring and operating data on diagnostic display
 - o Dry air filter with pre-filter
 - o Air cooled
- Diesel engine, Manufacturer / Type: Deutz / TD 2.9 L4
 - o Exhaust stage: EU stage V / EPA Tier 4F
 - o Power: 55.4 kW at 2,300 rpm
 - o Exhaust system: DOC, DPF
 - o Generator / Starter: 28 V, 80 A / 24 V, 4 kW
 - o Cold start limit temperature: -15 °C
 - o Fuel prefilter and fuel fine filter with water separator
 - o Engine monitoring and operating data on diagnostic display
 - o Dry air filter with pre-filter
 - o for fuels with a sulphur content < 50 mg/kg

Work equipment:

- bucket „LD “(for bulk density: $\leq 1.8 \text{ t/m}^3$), volume heaped: 0.9 m³
- bucket „HD “(for bulk density: $2.1 - 3.0 \text{ t/m}^3$), volume heaped: 0.6 m³

Safety equipment:

- Radio remote control:
 - o Radio remote control with very good characteristics regarding robustness, Comfort and reliability
 - o coordinated displays and controls
- Brake test
- 3-point seat belt for driver
- Seat contact monitoring driver's seat
- Belt monitoring driver's seat
- Rear view camera system
- HRD fire extinguishing system automatic
- HRD Fire extinguishing system manual

Comfort equipment:

- Return signal acknowledgeable

Lighting:

- Direction lights red / green
- Rear working lights active when reversing

Other options:

- Paus Connect:
 - o telemetry unit for data transfer to the Paus Connect Cloud
 - o data transmission via existing WLAN and/or mobile phone networks
 - o intermediate storage of all data in the absence of connectivity (up to 30 days)
 - o 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
 - o direct access at the machine to read out data
- External power socket
- Extended sealing of connectors:
 - o Grease filling
 - o Sealing tape
- Central automatic lubricating system
- Tire filling with PUR foam
- Spare wheel
- Extended tool kit
- Service packages for 2,000 operating hours
- Service packages for 3,000 operating hours
- Additional 1 operating instructions and Spare part list in national language in printed form

Further equipment and options on request