

Technical data (loader)

11 Technical data (loader)



NOTE

The technical data refer to 17.5-25 12 PR tyres.

11.1 Loader

- Height	3100 mm
- Width	2460 mm
- Wheelbase	2280 mm
- Track width	1980 mm
- Operating weight w/o attachment	10455 kg
- Ground clearance	
- Differential	440 mm
- Turning radius (across the rear with four-wheel steering)	4350 mm
- Steering angle	+/- 35 °
- Swinging angle	+/- 10 °
- Embankment angle	33 °
- Climbing ability with payload	
due to the permitted slanting of the engine, limited to	60 %
- Perm. towed load at max. drawbar load of 250 kg	
- braked	3500 kg
- unbraked	750 kg
- Max. lifting capacity	69 kN
- Max. thrust force	90 kN

11.2 Engine

- Water cooled intercooler turbo diesel engine	
- 4 cylinders, 4-stroke, direct injection	
- Displacement	4038 cm ³
- Performance acc. to ISO 14396	100 kW at 2300 rpm
- Emissions class according to EU-RL 97/68	
- Cooling system	Water
- Total coolant	approx. 16 l
- Anti-freeze	8 l

11.3 Starter

-	3.0 kW / 24 V
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11.4 Alternator

-	55 A, 28 V
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11.5 Hydrostatic drive motor

“20 km/h” variant

Alpha max. (turtle symbol)	0.....4 km/h
- [with inching speed control (option)]	0.....12 km/h]
1st gear	012 km/h
2nd gear	0.....20 km/h

“25 km/h” variant

Alpha max. (turtle symbol)	0.....4 km/h
- [with inching speed control (option)]	0.....12 km/h]
1st gear	012 km/h
2nd gear	0.....25 km/h

“40 km/h” variant

Alpha max. (turtle symbol)	0.....4 km/h
- [with inching speed control (option)]	0.....12 km/h]
1st gear	012 km/h
2nd gear	0.....40 km/h

11.6 Axle loads

- Perm. axle loads acc. to StVZO
 - front 7000 kg
 - rear 7500 kg
- Perm. total weight acc. to StVZO 11500 kg

11.7 Tyres

The following tyres are permitted:

- Size 17.5 - 25
 - Tyre pressure
 - front 3.0 bar
 - rear 3.0 bar
- Size 17.5 R 25
 - Tyre pressure
 - front 3.0 bar
 - rear 3.0 bar
- Size 455/70 R 24
 - Tyre pressure
 - front 4.5 bar
 - rear 3.0 bar
- Size 550/65 R 25
 - Tyre pressure
 - front 2.2 bar
 - rear 2.2 bar

11.8 Steering system

- Four-wheel (can be switched to rear-wheel steering)
- Hydrostatic via priority valve
- Pressure max. 175 bar

11.9 Brakes

- Service brakes:
 - 1. Hydraulic wet lamella brake in the front and rear axles, acting on all four wheels.
 - 2. Hydrostatic inching brake, acting on all four wheels.
- Parking brake: Wet lamella spring brake in the rear axle, acting on all four wheels.

11.10 Electrical system

- Battery 2 x 88 Ah

11.11 Hydraulic system

- Contents 160 l
- Hydraulic oil reservoir 115 l

11.11.1 Working hydraulics

- Flow rate pump I (via priority valve) 87 l/min
- Flow rate pump II (via swivel unit and shut-off valve) 38 l/min
- Total flow rate 125 l/min
- Operating pressure max. 230 bar
- 2 lift cylinders Ø 100/70 mm
- 2 tip cylinders Ø 90/55 mm
- Times acc. to DIN ISO 7131
 - Lift (with payload) 5.6 s
 - Lower (without load) 3.0 s
 - Dump 90° 1.5 s
 - Tilt 45° 1.0 s

11.11.2 Swivel unit hydraulics

- Flow rate pump II (via shut-off valve) 38 l/min
- Operating pressure max. 210 bar
- 2 swivel cylinders Ø 100/45 mm
- Time to swivel 180° 7.0 s

11.11.3 Support system

- Operating pressure depending on load
- 2 support cylinders
- Plunger diameter 60 mm

11.12 Fuel supply system

- Contents
- Fuel tank 170 l

11.13 Heater and ventilation system (driver's cabin)

- Water heater
- Type
- Heating power - 3-stage
- Fan power - 3-stage

11.14 Suction / return flow filter (hydraulics).

- Filter mesh acc. to ISO 4572 10 µm abs.
- Bypass trigger pressure p = 3.0 bar

11.15 Electric contamination indicator

- Switch-on pressure p = 2.5 bar

11.16 Oil cooler (combination cooler) with thermostat valve

- Performance max. 30 kW
- Flow rate 43 l/min

11.17 Noise emission

"20 km/h" variant

- Sound power level (LWA)
- Noise outside: 103 dB(A)
- Acoustic power level (LWA)
- Noise in the driver's cabin: 77 dB(A)

"40 km/h" variant

- Sound power level (LWA)
- Noise outside: 103 dB(A)
- Acoustic power level (LWA)
- Noise in the driver's cabin: 77 dB(A)