

Technical data (loader)

11 Technical data

NOTE

The technical data refer to 16/70-20 tyres.

11.1 Loader

- Height	2770 mm
- Width	2030 mm
- Wheelbase	2050 mm
- Track width	1680 mm
- Operating weight w/o attachment	6860 kg
- Ground clearance	
- Differential	370 mm
- Turning radius (across the rear)	4215 mm
- Steering angle	+/- 33 °
- Swinging angle	+/- 10 °
- Embankment angle	29 °
- Climbing ability with payload	60 %
- Perm. towed load at max. drawbar load of 100 kg	
- braked	3500 kg
- unbraked	750 kg
- Max. lifting capacity	34 kN
- Max. thrust force	42.8 kN

11.2 Engine

- Oil/air cooled diesel engine	
- 4 cylinders, 4-stroke, direct injection	
- Displacement	3109 cm ³
- Performance acc. to ISO 9249	53.5 kW at 2500 rpm
- Exhaust gas emission acc. to RL 97/68 EC level 2 + EPA	

11.3 Starter

- 2.2 kW, 12 V

11.4 Alternator

- 80 A, 14 V

11.5 Hydrostatic drive motor

“20 km/h” variant

- Drive stage I	0.....6 km/h
- Drive stage II	0.....20 km/h

“30 km/h” variant

1st gear

- Drive stage I	0.....6 km/h
- Drive stage II	0.....17 km/h

2nd gear

- Drive stage I	0...10.5 km/h
- Drive stage II	0.....30 km/h

“35 km/h” variant**1st gear**

- Drive stage I 0.....6 km/h
- Drive stage II 0.....17 km/h

2nd gear

- Drive stage I 0...10.5 km/h
- Drive stage II 0.....35 km/h

11.6 Axle loads

- Perm. axle loads acc. to StVZO
 - front 4500 kg
 - rear 4500 kg
- Perm. total weight acc. to StVZO 7300 kg

11.7 Tyres

The following tyres are permitted:

- Size 16/70 - 20
- Tyre pressure
 - front 3.5 bar
 - rear 2.2 bar
- Size 400/70 - 20
- Tyre pressure
 - front 3.5 bar
 - rear 2.5 bar
- Size 405/70 R 20
- Tyre pressure
 - front 3.8 bar
 - rear 2.5 bar

11.8 Steering system

- Four-wheel (can be switched to rear-wheel steering)
- Hydrostatic via priority valve
- Pressure max. 170 bar

11.9 Brake system

- hydrostatic service brake (front axle: wet lamella brake). Acting as inching brake in the first pedal actuation stage.
- Parking brake/auxiliary brake system: Wet lamella brake in the front axle.

11.10 Electrical system

- Battery 88 Ah

11.11 Hydraulic system

- Contents 130 l
 - Hydraulic oil reservoir 86 l
 - Flow rate 82.5 + 27.5 l/min
 - Operating pressure max. 200 bar
 - 1 lift cylinders Ø 110 mm
 - 1 tip cylinders Ø 110 mm
 - 1 telescope cylinder Ø 80 mm
 - 1 compensation cylinder Ø 80 mm
 - Times acc. to DIN ISO 7131
 - Lift (with payload) 5.3 s
 - Lower (without load) 2.8 s
 - Dump 45° 1.5 s
 - Tilt 45° 1.5 s
 - Retract telescope 2.1 s
 - Extend telescope 3.4 s
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11.11.1 Swivel unit

- Flow rate 27.5 l/min
- Operating pressure max. 200 bar
- 2 swivel cylinders Ø 100 mm
- Time to swivel 90° 4.9 s

11.11.2 Support system

- Operating pressure depending on load
- 2 support cylinders, plunger diameter 50 mm

11.12 Fuel supply system

- Fuel tank contents 75.0 l

11.13 Heater and ventilation system

- Oil heater COBO
- Type 2/9008/COMB-10/A45
- 3-stage heater $Q_{80} \text{ max. } 10.5 \text{ kW}$
at $\dot{V}_{\text{oil}} 30 \text{ l/min}$
max. 785 m³/h
- 3-stage blower

11.14 Full flow suction filter

- Filter mesh 10 µm nom.
- Bypass response pressure $\Delta p = 0.25 \text{ bar}$

11.15 Electric contamination indicator

- Switch-on pressure $\Delta p = 0.15 \text{ bar}$

11.16 Oil cooler with temperature-controlled fan

- Performance max. 17 kW
- Flow rate 28 l/min

11.17 Noise emission

“20 km/h” variant

- Sound power level (LWA)
- Noise outside: 100 dB(A)
- Acoustic power level (LWA)
- Noise in the driver's cabin: 77 dB(A)

“30 km/h” variant

- Sound power level (LWA)
- Noise outside: 99 dB(A)
- Acoustic power level (LWA)
- Noise in the driver's cabin: 77 dB(A)

“35 km/h” variant

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