

Technical Data (Loader)

11 Technical data (loader)



NOTE

The technical data refer to 20.5 -25 tyres.

11.1 Loader

- Height	3.155 mm
- Width	2.660 mm
- Wheelbase	2.400 mm
- Track width	2.080 mm
- Operating weight w/o attachment	13.800 kg
- Ground clearance	
- Distribution gear	500 mm
- Differential	495 mm
- Turning radius (with four-wheel steering)	
- across the rear	4.985 mm
- across the bucket	6.080 mm
- wheels internal	2.265 mm
- Steering angle	+/- 25°
- Swinging angle	+/- 10°
- Climbing ability with payload	
due to the permitted slanting of the engine, limited to	60 %
- Max. lifting capacity	106 kN
- Max. thrust force	113 kN
- Tear-out force	130 kN

11.2 Engine

- Type	BF6M 2012C
- Water-cooled turbodiesel engine with charge air-cooling	
- 6 cylinders, 4-stroke, direct injection	
- Displacement	6.057 cm ³
- Performance acc. to ISO 9249	128 kW at 2.200 rpm
- Cooling system	Water
- Total coolant	approx. 16 l
- Anti-freeze	8 l
- Exhaust gas emission acc. to RL 97/68 EC level 2 + EPA	

11.3 Starter

-	4 kW, 24 V
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11.4 Alternator

-	55 A, 24 V
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11.5 Hydrostatic drive motor

“20 km/h” variant

Alpha max	0.....4.5 km/h
1st gear shift:	0.....11 km/h
2nd gear shift:	0.....20 km/h

“35 km/h” variant

Alpha max.	0.....4.5 km/h
1st gear shift:	0.....11 km/h
2nd gear shift:	0.....35 km/h

11.6 Axle loads

- Perm. axle loads	- front	9.500 kg
	- rear	9.500 kg
- Perm. total weight		16.500 kg

11.7 Tyres

The following tyres are permitted:

- Size		20.5 - 25
- Tyre pressure	- front	3.0 bar
	- rear	3.0 bar
- Size		20.5 R 25
- Tyre pressure	- front	3.0 bar
	- rear	3.0 bar

11.8 Steering system

- Four-wheel (can be switched to rear-wheel steering)	
- Hydrostatic via priority valve	
- Pressure max.	140 bar

11.9 Brake system

- Service brake:	
Hydraulic wet lamella brake in the front and rear axles, acting on all four wheels.	
- Parking brake:	
Spring-loaded wet lamella brake in the rear axle.	
- Flow rate pump III	36 l/min

11.10 Electrical system

- Battery	2 x 88 Ah
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11.11 Hydraulic system

- Contents	230 l
- Hydraulic oil reservoir	180 l

11.11.1 Working hydraulics

- Flow rate pump I (via priority valve)	114 l/min
- Flow rate pump II (via swivel unit)	60 l/min
- Total flow rate	174 l/min
- Operating pressure	max. 220 bar
- 2 lift cylinders	Ø 110 mm
- 2 tip cylinders	Ø 110 mm
- Times acc. to DIN ISO 7131	
Lift (with payload)	6.0 s
Lower (without load)	3.5 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)	60 l/min
- Operating pressure	max. 180 bar
- 2 swivel cylinders	Ø 110 mm
- Time to swivel 180°	15.0 s

11.11.3 Support system

- Operating pressure depending on load
- 2 support cylinders
- Plunger diameter 70 mm

11.12 Fuel supply system

- Contents
- Fuel tank 250 l

11.13 Heater and ventilation system (driver's cabin)

- Water heat exchanger
- Type Gallay PVH 2505
- Heating capacity, continuously adjustable 6.4 kW
- Air-conditioning system capacity 5.5 kW
- Throughput 400 m³/h

11.14 Suction / return flow filter (hydraulics).

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

11.15 Electric contamination indicator

- Switch-on pressure $\Delta p = 2.5$ bar

11.16 Oil cooler (hydrostatic)

- Performance max. 35 kW
- Flow rate 56 l/min

11.17 Noise emission

- Sound power level (LWA)
- Noise outside: 106 dB(A)
- In-band acoustic level (LpA)
- Noise level in cab: 78 dB(A)