

## **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	2.700 mm
- Wheelbase	2.400 mm
- Track width	2.080 mm
- Operating weight w/o attachment	13.800 kg
- Ground clearance	
- Distribution gear	600 mm
- Differential	500 mm
- Turning radius (across the rear with four-wheel steering)	4.985 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

#### 11.2 Engine

- Type	TCD 2012 L06-2V
- Water-cooled turbodiesel engine with charge air-cooling	
- 6 cylinders, 4-stroke, direct injection	
- Displacement	6.057 cm <sup>3</sup>
- 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 3 + TIER	

#### 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. - (with inching speed control)	0..... 11 km/h
1st gear shift:	0..... 11 km/h
2nd gear shift:	0..... 20 km/h

##### “35 km/h” variant

Alpha max. - (with inching speed control)	0..... 11 km/h
1st gear shift:	0..... 11 km/h
2nd gear shift:	0..... 35 km/h

**11.6 Axle loads**

- Perm. axle loads acc. to StVZO
  - front 7.000 kg
  - rear 9.000 kg
- Perm. total weight acc. to StVZO 14.500 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

**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 m<sup>3</sup>/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: 104 dB(A)

In-band acoustic level (L<sub>pA</sub>)

Noise level in cab: 76 dB(A)