

## **Technical Data (Equipment)**

## 11 Technical data

### 11.1 AS 700



#### NOTE

The technical data refer to 14.5 R 20 tyres.

#### 11.1.1 Loader

- Height	2,680 mm
- Width - across outer tyre edge	1,950 mm
- across bucket	1,950 mm
- Wheelbase	1,980 mm
- Track width	1,590 mm
- Operating weight w/o attachment	5,650 kg
- Ground clearance	
- Differential	390 mm
- Cardan shaft	440 mm
- Turning radius (across the rear)	3,450 mm
- Steering angle	+/- 35 °
- Swinging angle	+/- 10 °
- Embankment angle	°
- Climbing ability with payload	60 %
- Perm. towed load at max. drawbar load of 100 kg	
- braked - 48 kW engine	3,500 kg
- 55 kW engine	8,000 kg
- unbraked	750 kg
- Max. lifting capacity -	46.0 kN
- with Boost	60.0 kN
- Max. thrust force	45.0 kN

#### 11.1.2 Engine

##### 11.1.2.1 49 kW engine

- Liquid-cooled diesel engine	
- 4 cylinders, 4-stroke, indirect injection	
- Displacement	3,260 cm <sup>3</sup>
- Power acc. to SAE J1995	49 kW at 2600 rpm
- Exhaust gas emission acc. to RL 97/68 EC tier IIIA + EPA	
- Cooling system	Water
- Total coolant	approx. 14 l
- Anti-freeze	7 l

##### 11.1.2.2 55 kW engine

- Liquid-cooled diesel engine	
- 4 cylinders, 4-stroke, indirect injection	
- Displacement	3,260 cm <sup>3</sup>
- Power acc. to SAE J1995	55 kW at 2600 rpm
- Exhaust gas emission acc. to RL 97/68 EC tier IIIA + EPA	
- Cooling system	Water
- Total coolant	approx. 14 l
- Anti-freeze	7 l

#### 11.1.3 Starter

- 2.2 kW / 12 V

#### 11.1.4 Alternator

- 60 A, 14 V

**11.1.5 Hydrostatic drive motor****“20 km/h” variant**

- Drive stage I 0..... 5 km/h
- Drive stage II 0..... 20 km/h

**“40 km/h” variant****1st gear**

- Drive stage I 0..... 5 km/h
- Drive stage II 0..... 15 km/h

**2nd gear**

- Drive stage I 0..... 11 km/h
- Drive stage II 0..... 40 km/h

**11.1.6 Axle loads**

- Perm. axle loads acc. to StVZO
  - front 5,000 kg
  - rear 5,000 kg
- Perm. total weight acc. to StVZO 7,600 kg

**11.1.7 Tyres**

The following tyres are permitted:

- Size 365/80 R 20 EM-01
  - Tyre pressure - front 3,75 bar
  - rear 3,75 bar
- Size 405/70 R 20 EM-01
  - Tyre pressure - front 3,75 bar
  - rear 3,75 bar
- Size 405/70 R 20 XZSL
  - Tyre pressure - front 3,75 bar
  - rear 3,75 bar
- Size 14.5 R 20 MPT-04
  - Tyre pressure - front 3.0 bar
  - rear 3.0 bar

**11.1.8 Steering system**

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

**11.1.9 Brakes**

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

**11.1.10 Electrical system**

- Battery 88 Ah

**11.1.11 Hydraulic system**

- Contents 134 l
- Hydraulic oil reservoir 80 l
- Flow rate 83.5 l/min
- Operating pressure max. 220 bar
- 2 lift cylinders Ø 80 mm
- 1 tip cylinder Ø 100 mm

## 11 Technical Data (Equipment)



- Times acc. to DIN ISO 7131	
Lift (with payload)	4.7 s
Lower (without load)	3.6 s
Dump 45°	1.2 s
Tilt 45°	1.2 s

### 11.1.11.1 Swivel unit

- Flow rate	35 l/min
- Operating pressure	max. 220 bar
- 2 swivel cylinders	Ø 100 mm
- Time to swivel 90°	3.0 s

### 11.1.11.2 Support system

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

### 11.1.12 Fuel supply system

- Fuel tank contents	130 l
----------------------	-------

### 11.1.13 Heater and ventilation system

- Oil heater	
- Type	
- 3-stage heater	$Q_{80}$ max. kW at $V_{oil}$ l/min max. m <sup>3</sup> /h
- 3-stage blower	

### 11.1.14 Suction/return flow filter

- Filter mesh	10 µm nom.
- Bypass response pressure	$\Delta p = 2.5$ bar

### 11.1.15 Electric contamination indicator

- Switch-on pressure	$\Delta p = 2.0$ bar
----------------------	----------------------

### 11.1.16 Combination cooler with temperature-controlled fan

- Performance - Water	47 kW
- Oil	17 kW

### 11.1.17 Noise emission

Sound power level (LWA) »Noise outside: «	99 dB(A)
Acoustic power level (LpA) » noise in the driver's cabin: «	74 dB(A)

### 11.1.18 Vibrations

Total value of oscillation (k-value)	< 2,5 m/s <sup>2</sup>
--------------------------------------	------------------------

**11.2 AS 900****NOTE**

The technical data refer to 14.5 R 20 tyres.

**11.2.1 Loader**

- Height	2,830 mm
- Width - across outer tyre edge	1,990 mm
- across bucket	2,100 mm
- Wheelbase	1,980 mm
- Track width	1,660 mm
- Operating weight w/o attachment	6,340 kg
- Ground clearance	
- Differential	390 mm
- Cardan shaft	440 mm
- Turning radius (across the rear)	3,450 mm
- Steering angle	+/- 35 °
- Swinging angle	+/- 10 °
- Embankment angle	°
- Climbing ability with payload	60 %
- Perm. towed load at max. drawbar load of 100 kg	
- braked	8,000 kg
- unbraked	750 kg
- Max. lifting capacity -	58.0 kN
- with Boost	75.0 kN
- Max. thrust force	45.0 kN

**11.2.2 Engine****11.2.2.1 55 kW engine**

- Liquid-cooled diesel engine	
- 4 cylinders, 4-stroke, indirect injection	
- Displacement	3,260 cm <sup>3</sup>
- Power acc. to SAE J1995	55 kW at 2600 rpm
- Exhaust gas emission acc. to RL 97/68 EC tier IIIA + EPA	
- Cooling system	Water
- Total coolant	approx. 14 l
- Anti-freeze	7 l

**11.2.2.2 63 kW engine**

- Liquid-cooled diesel engine	
- 4 cylinders, 4-stroke, indirect injection	
- Displacement	3,260 cm <sup>3</sup>
- Power acc. to SAE J1995	63 kW at 2600 rpm
- Exhaust gas emission acc. to RL 97/68 EC tier IIIA + EPA	
- Cooling system	Water
- Total coolant	approx. 14 l
- Anti-freeze	7 l

**11.2.3 Starter**

- 2.2 kW / 12 V

**11.2.4 Alternator**

- 60 A, 14 V

# 11 Technical Data (Equipment)



## 11.2.5 Hydrostatic drive motor

### “20 km/h” variant

- Drive stage I 0.....5 km/h
- Drive stage II 0.....20 km/h

### “40 km/h” variant

#### 1st gear

- Drive stage I 0.....5 km/h
- Drive stage II 0.....17 km/h

#### 2nd gear

- Drive stage I 0.....11 km/h
- Drive stage II 0.....40 km/h

## 11.2.6 Axle loads

- Perm. axle loads acc. to StVZO
  - front 5,000 kg
  - rear 5,000 kg
- Perm. total weight acc. to StVZO 7,600 kg

## 11.2.7 Tyres

The following tyres are permitted:

- Size 14.5 R20 MPT-04
  - Tyre pressure - front 3.0 bar
  - rear 3.0 bar
- Size 16/70 R20 MPT-04
  - Tyre pressure - front 3.0 bar
  - rear 3.0 bar
- Size 405/70 R20 XZSL
  - Tyre pressure - front 3.75 bar
  - rear 3.75 bar
- Size 405/70 R20 EM-01
  - Tyre pressure - front 3.75 bar
  - rear 3.75 bar

## 11.2.8 Steering system

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

## 11.2.9 Brakes

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

## 11.2.10 Electrical system

- Battery 88 Ah

## 11.2.11 Hydraulic system

- Contents 134 l
- Hydraulic oil reservoir 80 l
- Flow rate 82.5 l/min
- Operating pressure max. 220 bar
- 2 lift cylinders Ø 90 mm
- 1 tip cylinders Ø 110 mm

- Times acc. to DIN ISO 7131
- Lift (with payload) 4.7 s
- Lower (without load) 3.6 s
- Dump 45° 1.2 s
- Tilt 45° 1.2 s

#### 11.2.11.1 Swivel unit

- Flow rate 35 l/min
- Operating pressure max. 220 bar
- 2 swivel cylinders Ø 100 mm
- Time to swivel 90° 3.0 s

#### 11.2.11.2 Support system

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

#### 11.2.12 Fuel supply system

- Fuel tank contents 130 l

#### 11.2.13 Heater and ventilation system

- Air/water heat exchanger
- Heater performance
  - 3-stage heater max. 14.5 kW
- Air flow
  - 3-stage blower max. 1,000 m<sup>3</sup>/h
- Electric power 250 W

#### 11.2.14 Suction/return flow filter

- Filter mesh 10 µm nom.
- Bypass response pressure  $\Delta p = 2.5$  bar

#### 11.2.15 Electric contamination indicator

- Switch-on pressure  $\Delta p = 2.0$  bar

#### 11.2.16 Combination cooler with temperature-controlled fan

- Performance
  - Water 47 kW
  - Oil 17 kW

#### 11.2.17 Noise emission

- Sound power level (LWA) » Noise outside: « 99 dB(A)
- Acoustic power level (LpA) » noise in the driver's cabin: « 74 dB(A)

#### 11.2.18 Vibrations

- Total value of oscillation (k-value) < 2,5 m/s<sup>2</sup>