

## **Technical Data (Equipment)**

## 11 Technical Data

### 11.1 AS 70

#### NOTE

All technical data refer to tire size 365/70 R18.

#### 11.1.1 Loader

- Height	2720 mm
- Width	1940 mm
- Wheel base	1900 mm
- Track width	1580 mm
- Operation weight without attachments	5430 kg
- Ground clearance	
- Differential	320 mm
- Turning radius (over rear)	3660 mm
- Steering angle	+/- 33 °
- Oscillation path	+/- 10 °
- Embankment angle	26 °
- Climbing ability with payload	60 %
- Perm. tow load at a max. perpend. force of 100 kg	
- braked	3500 kg
- unbraked	750 kg
- Max. lifting force	32 kN
- Max. shunting force	40.6 kN

#### 11.1.2 Engine

- Oil/air-cooled diesel engine	
- 4-cylinder, 4-stroke, direct injection	
- Displacement	2732 cm <sup>3</sup>
- Power acc. to ISO 9249	53,5 kW at 2500 rpm
- Exhaust emission according to RL 97/68 EC, level 3 + TIER	

#### 11.1.3 Starter

- 2.2 kW, 12 V

#### 11.1.4 Alternator

- 80 A, 14 V

#### 11.1.5 Hydrostatic drive unit

##### Type "20 km/h"

- Travel speed I	0 ..... 5 km/h
- Travel speed II	0 .....20 km/h

##### Type "30 km/h"

##### 1st gear

- Travel speed I	0 .....6 km/h
- Travel speed II	0 .....17 km/h

##### 2nd gear

- Travel speed I	0 ...10.5 km/h
- Travel speed II	0 .....30 km/h

**Type “35 km/h”****1st gear**

- Travel speed I 0 .....6 km/h
- Travel speed II 0 .....17 km/h

**2nd gear**

- Travel speed I 0 ...10.5 km/h
- Travel speed II 0 .....35 km/h

**11.1.6 Axle loads**

- Permitted axle loads in accordance with StVZO
  - Front 4500 kg
  - Rear 4500 kg
- Permitted total weight in accordance with StVZO 7300 kg

**11.1.7 Tires**

The following tire sizes are permitted:

- Size 335/80 R 18
  - Tire pressure - front 3.5 bar
  - rear 2.5 bar
- Size 365/70 R 18
  - Tire pressure - front 3.5 bar
  - rear 2.2 bar
- Size 405/70 R 18
  - Tire pressure - front 3.0 bar
  - rear 2.0 bar

**11.1.8 Steering system**

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

**11.1.9 Brake system**

- Hydrostatic service brake (front axle: wet lamella brake). Acting as an inching brake in the first fraction of the pedal travel.
- Parking brake/auxiliary brake system: wet lamella brake in the front axle.

**11.1.10 Electrical system**

- Battery 88 Ah

**11.1.11 Hydraulic system**

- Capacity 120 l
- Hydraulic oil tank 86 l
- Flow 62.5 + 35.0 l/min
- Max. operating pressure 200 bar
- 2 lift cylinders, diameter 80 mm
- 1 tip cylinder, diameter 90 mm
- Times acc. to DIN ISO 7131
  - Raise (with payload) 5.8 s
  - Lower (without load) 3.5 s
  - Dump 90° 2.0 s
  - Tilt up 45° 1.5 s

### 11.1.11.1 Swivel mechanism

- Flow 35.0 l/min
- Max. operating pressure 200 bar
- 2 swivel cylinders, diameter 100 mm
- Swivel time 180° 7.0 s

### 11.1.11.2 Stabilizers

- Operating press. load-controlled
- 2 stabilizer cylinders, plunger diameter 50 mm

### 11.1.12 Fuel supply system

- Capacity, fuel tank 75.0 l

### 11.1.13 Heating and ventilation system

- Oil heater COBO
- Type 2/9008/COMB-10/A45
- Heat output, 3-speed  $Q_{80}$  max.: 10.5 kW  
at  $\dot{V}_{oil}$ : 30 l/min
- Blower output, 3-speed max. 785 m<sup>3</sup>/h

### 11.1.14 Full flow suction filter

- Grade of filtration 10 µm nom.
- By-pass reaction pressure  $\Delta p$  = 0.25 bar

### 11.1.15 Electrical contamination indicator

- Switch pressure  $\Delta p$  = 0.15 bar

### 11.1.16 Oil cooler with thermostat control

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

**11.2 AS 90/AZ 85t****NOTE**

All technical data refer to tire size 365/80 R 20.

**11.2.1 Loader**

- Height	2770 mm
- Width	2030 mm
- Wheel base	1900 mm
- Track width	1680 mm
- Operation weight without attachments	5845 kg
- Ground clearance	
- Differential	370 mm
- Turning radius (over rear)	3660 mm
- Steering angle	+/- 33 °
- Oscillation path	+/- 10 °
- Embankment angle	29 °
- Climbing ability with payload	60 %
- Perm. tow load at a max. perpend. force of 100 kg	
- braked	3500 kg
- unbraked	750 kg
- Max. lifting force	40 kN
- Max. shunting force	42.8 kN

**11.2.2 Engine**

- Oil/air-cooled diesel engine	
- 4-cylinder, 4-stroke, direct injection	
- Displacement	2732 cm <sup>3</sup>
- Power acc. to ISO 9249	56.5 kW at 2500 rpm
- Exhaust emission according to RL 97/68 EC, level 3 + TIER	

**11.2.3 Starter**

- 2.2 kW, 12 V

**11.2.4 Alternator**

- 80 A, 14 V

**11.2.5 Hydrostatic drive unit****Type "20 km/h"**

- Travel speed I	0..... 6 km/h
- Travel speed II	0.....20 km/h

**Type "30 km/h"****1st gear**

- Travel speed I	0.....6 km/h
- Travel speed II	0.....17 km/h

**2nd gear**

- Travel speed I	0 ...10,5 km/h
- Travel speed II	0.....30 km/h

### Type "40 km/h"

#### 1st gear

- Travel speed I 0.....6 km/h
- Travel speed II 0.....17 km/h

#### 2nd gear

- Travel speed I 0 ...10,5 km/h
- Travel speed II 0.....40 km/h

### 11.2.6 Axle loads

- Permitted axle loads in accordance with StVZO
  - Front 4500 kg
  - Rear 4500 kg
- Permitted total weight in accordance with StVZO 7300 kg

### 11.2.7 Tires

The following tire sizes are permitted:

- Size 14.5 R 20
  - Tire pressure - front 3,5 bar
  - rear 2,2 bar
- Size 16/70 - 20
  - Tire pressure - front 3,0 bar
  - rear 2,0 bar
- Size 550/45 - 22.5
  - Tire pressure - front 2,5 bar
  - rear 2,5 bar
- Size 335/80 R 20
  - Tire pressure - front 3,5 bar
  - rear 2,2 bar
- Size 365/80 R 20
  - Tire pressure - front 3,5 bar
  - rear 2,2 bar
- Size 375/75 R 20
  - Tire pressure - front 3,8 bar
  - rear 2,5 bar
- Size 405/70 R 20
  - Tire pressure - front 3,0 bar
  - rear 2,0 bar

### 11.2.8 Steering system

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

### 11.2.9 Brake system

- Hydrostatic service brake (front axle: wet lamella brake). Acting as an inching brake in the first fraction of the pedal travel.
- Parking brake/auxiliary brake system: wet lamella brake in the front axle.

### 11.2.10 Electrical system

- Battery 88 Ah

**11.2.11 Hydraulic system**

- Capacity	130 l
- Hydraulic oil tank	86 l
- Flow	82.5 + 35.0 l/min
- Max. operating pressure	200 bar
- 2 lift cylinders, diameter	90 mm
- 1 tip cylinder, diameter	100 mm
- Times acc. to DIN ISO 7131	
Raise (with payload)	5.8 s
Lower (without load)	3.5 s
Dump 90°	2.0 s
Tilt up 45°	1.5 s

**11.2.11.1 Swivel mechanism**

- Flow rate	35.0 l/min
- Max. operating pressure	200 bar
- 2 swivel cylinders, diameter	100 mm
- Swivel time 180°	7.0 s

**11.2.11.2 Stabilizers**

- Operating press. load-controlled	
- 2 stabilizer cylinders, plunger diameter	50 mm

**11.2.12 Fuel supply system**

- Capacity, fuel tank	75.0 l
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**11.2.13 Heating and ventilation system**

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

**11.2.14 Full flow suction filter**

- Grade of filtration	10 µm nom.
- By-pass reaction pressure	$\Delta p = 0.25 \text{ bar}$

**11.2.15 Electrical contamination indicator**

- Switch pressure	$\Delta p = 0.15 \text{ bar}$
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**11.2.16 Oil cooler with thermostat control**

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