

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 ³
- Power acc. to ISO 9249	44 kW at 2500 rpm
- Exhaust emission according to RL 97/68 EC, level 1 + EPA	

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	020 km/h

Type "30 km/h"

1st gear

- Travel speed I	06 km/h
- Travel speed II	017 km/h

2nd gear

- Travel speed I	0 ...10.5 km/h
- Travel speed II	030 km/h

Type “35 km/h”**1st gear**

- Travel speed I 06 km/h
- Travel speed II 017 km/h

2nd gear

- Travel speed I 0 ...10.5 km/h
- Travel speed II 035 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 m³/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 ³
- Power acc. to ISO 9249	51.5 kW at 2500 rpm
- Exhaust emission according to RL 97/68 EC, level 1 + EPA	

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
- Blower output, 3-speed	max. 785 m³/h

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