

Technical data (loader)

11 Technical data (loader)

11.1 AX 700



NOTE

The technical data refer to 12.5/80 R18 tyres.

11.1.1 Loader

- Height	2,500 mm
- Width - across über outer tyre edge	1,590 mm
- across bucket	1,625 mm
- Wheelbase	2,030 mm
- Track width	1,250 mm
- Operating weight w/o attachment	4,715 kg
- Ground clearance - Cardan shaft	440 mm
- Differential	350 mm
- Turning radius (across the rear)	3,540 mm
- Articulation angle - left	40°
- right	40°
- Swinging angle	±11°
- Climbing ability with payload	60 %
- Max. lifting capacity	41 kN
- Thrust force	38 kN
- Breakout force	41 kN

11.1.2 Engine

- Watercooled diesel engine	
- Type	4024HF295A
- 4 cylinders, 4-stroke, direct injection	
- Displacement	2,440 cm ³
- Power acc. to SAE J 1995	46.0 kW at 2200 rpm
- Emissions class according to RL 97/68 EC step 3 + TIER	
- Cooling system	Water
- Total coolant	approx. 10,50 l
- Anti-freeze	5,25 l

11.1.3 Starter

-	2.0 kW / 12 V
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11.1.4 Alternator

-	70 A, 14 V
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11.1.5 Hydrostatic drive

Variant "20 km/h"

- Drive stage I	0.....7 km/h
- Drive stage II	0.....20 km/h

Variant "30 km/h"

- Drive stage I	0.....7 km/h
- Drive stage II	0.....30 km/h

11.1.6 Axle loads

- Perm. axle loads acc. to StVZO - front	3,500 kg
- rear	3,500 kg
- Perm. total weight acc. to StVZO	5,100 kg

11.1.7 Tyres

The following tyres are permitted:

- Size	12.5/80 R18
- Tyre pressure - front	3.0 bar
- Tyre pressure - rear	2.75 – 3.0 bar
- Size	15.5/55 R18
- Tyre pressure - front	3.25 bar
- Tyre pressure - rear	3.0 – 3.25 bar
- Size	365/70 R18
- Tyre pressure - front	3.0 bar
- Tyre pressure - rear	2.75 – 3.0 bar
- Size	400/70 R18
- Tyre pressure - front	2.8 bar
- Tyre pressure - rear	2.8 bar
- Size	405/70 R18
- Tyre pressure - front	2.5 bar
- Tyre pressure - rear	2.5 bar
- Size	425/55 R17
- Tyre pressure - front	3.0 bar
- Tyre pressure - rear	2.5 – 3.0 bar

11.1.8 Steering system

- Hydrostatic via priority valve	
- Pressure	max. 180 bar

11.1.9 Brake system

Service brakes:

1. Hydraulic drum brake (fast loader: disc brake) in the front axle acting on all 4 wheels.
2. Hydrostatic inching brake, acting on all four wheels.

Parking brake:

Mechanic parking brake, acting on all four wheels.

11.1.10 Electric system

- Battery	66 Ah
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11.1.11 Hydraulic system

- Contents	60 l
- Hydraulic oil reservoir	40 l
- Flow rate	60 l/min
- Max. operating pressure	250 bar
- 2 lift cylinders	Ø 70/40 mm
- 1 tip cylinders	Ø 90/50 mm
- 1 steering cylinder	Ø 80/35 mm
- Times acc. to DIN ISO 7131	
- Lift (with payload)	4.6 s
- Lower (without load)	2.8 s
- Dump 90°	2.2 s
- Tilt 45°	1.5 s

11.1.12 Fuel supply system

- Contents	
Fuel tank	70 l

11.1.13 Heating and ventilation system

11.1.14 Return suction filter

- Filter mesh 10 µm abs.
- Bypass response pressure $p = 2.5 \text{ bar}$

11.1.15 Combination cooler

AX 70/20 km/h

- Performance max. 31/12 kW
- Flow rate 89/26 l/min

AX 70/30 km/h

- Performance max. 35/15 kW
- Flow rate 89/26 l/min

11.1.16 Noise emission

- Sound power level (LWA) » Noise outside: « 101 dB(A)
- Acoustic power level (LpA) » noise in the driver's cabin: « 80 dB(A)

11.2 AX 850**NOTE**

The technical data refer to 12.5/80 R18 tyres.

11.2.1 Loader

- Height	2,505 mm
- Width - across über outer tyre edge	1,705 mm
- across bucket	1,850 mm
- Wheelbase	2,030 mm
- Track width	1,320 mm
- Operating weight w/o attachment	4,887 kg
- Ground clearance - Cardan shaft	445 mm
- Differential	350 mm
- Turning radius (across the rear)	3,540 mm
- Articulation angle - left	40°
- right	40°
- Swinging angle	±11°
- Climbing ability with payload	60 %
- Max. lifting capacity	43 kN
- Thrust force	38 kN
- Breakout force	41 kN

11.2.2 Engine

- Watercooled diesel engine	
- Type	4024HF295A
- 4 cylinders, 4-stroke, direct injection	
- Displacement	2,440 cm ³
- Power acc. to SAE J 1995	46.0 kW at 2200 rpm
- Emissions class according to RL 97/68 EC step 3 + TIER	
- Cooling system	Water
- Total coolant	approx. 10,50 l
- Anti-freeze	5,25 l

11.2.3 Starter

-	2.0 kW / 12 V
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11.2.4 Alternator

-	70 A, 14 V
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11.2.5 Hydrostatic drive**"20 km/h" variant**

- Drive stage I	0.....7 km/h
- Drive stage II	0.....20 km/h

"30 km/h" variant

- Drive stage I	0.....7 km/h
- Drive stage II	0.....30 km/h

11.2.6 Axle loads

- Perm. axle loads acc. to StVZO - front	3,500 kg
- rear	3,500 kg
- Perm. total weight acc. to StVZO	5,100 kg

11.2.7 Tyres

The following tyres are permitted:

- Size	12.5/80 R18
- Tyre pressure	3.0 bar
- front	2.75 – 3.0 bar
- rear	15.5/55 R18
- Size	3.25 bar
- Tyre pressure	3.0 – 3.25 bar
- front	365/70 R18
- rear	3.0 bar
- Size	2.75 – 3.0 bar
- Tyre pressure	400/70 R18
- front	2.8 bar
- rear	2.8 bar
- Size	405/70 R18
- Tyre pressure	2.5 bar
- front	2.5 bar
- rear	425/55 R17
- Size	3.0 bar
- Tyre pressure	2.5 – 3.0 bar
- front	
- rear	

11.2.8 Steering system

- Hydrostatic via priority valve	
- Pressure	max. 180 bar

11.2.9 Brake system

Service brakes:

1. Hydraulic drum brake (fast loader: disc brake) in the front axle acting on all 4 wheels.
2. Hydrostatic inching brake, acting on all four wheels.

Parking brake:

Mechanic parking brake, acting on all four wheels.

11.2.10 Electric system

- Battery	66 Ah
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11.2.11 Hydraulic system

- Contents	60 l
- Hydraulic oil reservoir	40 l
- Flow rate	60 l/min
- Max. operating pressure	250 bar
- 2 lift cylinders	Ø 80/40 mm
- 1 tip cylinders	Ø 90/50 mm
- 1 steering cylinder	Ø 80/35 mm
- Times acc. to DIN ISO 7131	
- Lift (with payload)	4.7 s
- Lower (without load)	2.9 s
- Dump 90°	2.2 s
- Tilt 45°	1.5 s

11.2.12 Fuel supply system

- Contents	
Fuel tank	70 l

11.2.13 Heating and ventilation system**11.2.14 Return suction filter**

- Filter mesh 10 µm abs.
- Bypass response pressure $p = 2.5 \text{ bar}$

11.2.15 Combination cooler**AX 85/20 km/h**

- Performance max. 31/12 kW
- Flow rate 89/26 l/min

AX 85/30 km/h

- Performance max. 35/15 kW
- Flow rate 89/26 l/min

11.2.16 Noise emission

- Sound power level (LWA) » Noise outside: « 101 dB(A)
- Acoustic power level (LpA) » noise in the driver's cabin: « 80 dB(A)

11.3 AX 1000



NOTE

The technical data refer to 365/70 R18 tyres.

11.3.1 Loader

- Height	2,455 mm
- Width - across über outer tyre edge	1,750 mm
- - across bucket	1,850 mm
- Wheelbase	2,030 mm
- Track width	1,400 mm
- Operating weight w/o attachment	5,165 kg
- Ground clearance - Cardan shaft	415 mm
- - Differential	350 mm
- Turning radius (across the rear) left/right	3,670 mm/3,790 mm
- Articulation angle - left	40°
- - right	40°
- Swinging angle	±11°
- Climbing ability with payload	60 %
- Max. lifting capacity	44.5 kN
- Thrust force	38 kN
- Breakout force	43 kN

11.3.2 Engine

- Watercooled diesel engine	
- Type	4024HF295B
- 4 cylinders, 4-stroke, direct injection	
- Displacement	2,440 cm ³
- Power acc. to SAE J 1995	49 kW at 2200 rpm
- Emissions class according to RL 97/68 EC step 3 + TIER	
- Cooling system	Water
- Total coolant	approx. 10,50 l
- Anti-freeze	5,25 l

11.3.3 Starter

-	2.0 kW / 12 V
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11.3.4 Alternator

-	70 A, 14 V
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11.3.5 Hydrostatic drive

"20 km/h" variant

- Drive stage I	0.....7 km/h
- Drive stage II	0.....20 km/h

"30 km/h" variant

- Drive stage I	0.....7 km/h
- Drive stage II	0.....30 km/h

11.3.6 Axle loads

- Perm. axle loads acc. to StVZO - front	3,500 kg
- - rear	3,500 kg
- Perm. total weight acc. to StVZO	5,500 kg

11.3.7 Tyres

The following tyres are permitted:

- Size	365/70 R18
- Tyre pressure	3.0 bar
- front	2.75 – 3.0 bar
- rear	400/70 R18
- Size	400/70 R18
- Tyre pressure	2.8 bar
- front	2.8 bar
- rear	405/70 R18
- Size	405/70 R18
- Tyre pressure	2.5 bar
- front	2.5 bar
- rear	425/55 R17
- Size	425/55 R17
- Tyre pressure	3.0 bar
- front	2.5 – 3.0 bar
- rear	

11.3.8 Steering system

- Hydrostatic via priority valve	
- Pressure	max. 180 bar

11.3.9 Brake system

Service brakes:

1. Hydraulically operated disc brake at the front axle, acting on all 4 wheels
2. Hydrostatic inching brake, acting on all four wheels.

Parking brake:

Mechanic parking brake, acting on all four wheels.

11.3.10 Electric system

- Battery	66 Ah
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11.3.11 Hydraulic system

- Contents	60 l
- Hydraulic oil reservoir	40 l
- Flow rate	60 l/min
- Max. operating pressure	250 bar
- 2 lift cylinders	Ø 90/45 mm
- 1 tip cylinders	Ø 100/50 mm
- 1 steering cylinder	Ø 80/35 mm
- Times acc. to DIN ISO 7131	
- Lift (with payload)	4.8 s
- Lower (without load)	2.9 s
- Dump 90°	2.3 s
- Tilt 45°	1.6 s

11.3.12 Fuel supply system

- Contents	
Fuel tank	70 l

11.3.13 Heating and ventilation system

11.3.14 Return suction filter

- Filter mesh 10 µm abs.
- Bypass response pressure p = 2.5 bar

11.3.15 Combination cooler

- Performance max. 35/15 kW
- Flow rate 89/26 l/min

11.3.16 Noise emission

- Sound power level (LWA) » Noise outside: « 101 dB(A)
- Acoustic power level (LpA) » noise in the driver's cabin: « 80 dB(A)