

AHLMANN

COMPACT SYSTEM **AX 850**



> The loader specialist

> Articulated Loader 0.85 – 1.5 m³

AX 850

Let's have a look

**46 kW / 63 hp
at 2800 rpm**

**payload on forks:
2350 kg**

**manually switched
100% differential
lock on front and
rear axle**



Optimum front and rear view due to ASAP-monoboom and compact rear end



A Ahlmann
S Single
A Arm
P Power

Monoboom with powerful protected Z-kinematics and parallel guidance



Transportation height < 4m

Electrohydraulic
brand-compatible
quick-coupler

Extensive range
of attachments



AX 850

at your advantages

A Ahlmann
S Self
S Stabilising
C Concept

Maximum travelling
comfort on any ground
thanks to auto-stabilised
oscillation



Easy access to all service points



Comfortable cab with excellent
all-round visibility and easy
access

Device height: 2470 mm

A Ahlmann
P Panorama
S Space
C Cab

Hydraulic
on demand
fan control



AX 850

Powerful at work



Due to the ASAP-mono-boom, the Ahlmann AX features high breakout forces. Its Z-kinematics allow for perfect parallel guidance of attachments. This results in a high degree of safety, in particular when loading pallets. Fast tipping cycles and an excellent view on the attachments make daily work even more efficient.

The self-stabilizing articulated oscillating centre-pivot makes for maximum stability and comfortable driving even when working on uneven grounds.



AX 850

Comfortable and economic



The spacious cabin and the ergonomically laid out controls offer a convenient workplace for long-term work. Large tinted windows ensure an excellent all-round visibility.

The panorama roof allows for an exact overhead view, for example for truck loading.

A multi-position comfort swivel seat, glove-box with ample storage space and a powerful 3-stage ventilation and heating system make daily work a pleasure.



AX 850

Technical Data

Operating weight: 5175 kg
 Engine power: 46 kW (63 hp)
 Standard bucket: 0.85 m³



Engine

Low-noise water-cooled 4-cylinder John Deere turbo diesel engine (emissions according to EU-RL 97/68), 4-stroke, direct injection
 Type 4024 HF 295
 Net power at 2800 rpm
 acc. to SAE J 1995 (63 hp) 46 kW
 Max. torque at 2000 rpm
 acc. to ISO 9249 214 Nm
 Spec. fuel consumption
 at max. torque 242 g/kWh
 Cooling: controlled hydraulic fan drive

Air intake filter: 2-level dry-air filter

Electrical system:
 Operating voltage: 12 Volt
 Battery capacity: 66 Ah
 Alternator rating: 980 Watt 70 A
 Starter rating: (2.7 hp) 2.0 kW

Drive

Hydrostatic, controlled drive, 2 stages for maximum propulsive force, stages shiftable under load, multifunction lever (joystick) for drive and working hydraulics control

Axes: large-scale production planetary axles
 Differential lock: manually switched differential lock in both axles, locking value 100%
 Wheels: tyre size: 12.5-18
 alternatively: 405/70 R18
 Speeds: road gear: 0-20 km/h
 (optional 30 km/h)
 field gear: 0-7 km/h
 Gradability: under load 60%
 Oscillation: max. oscillation angle +/- 11°
 Ground clearance: measured at differential 350 mm

Brakes

Working brakes:
 1. hydrostatic inching brake, acting on all 4 wheels
 2. hydraulically operated drum brake at the front axle, acting on all 4 wheels
 (for 30 km/h version: disc brake)

Parking brake:
 Mechanically activated parking brake, acting on all 4 wheels, with deactivation of the drive

Steering

Hydrostatic articulated steering
 Max. steering angle 2 x 40°
 Turning radius over rear R = 3540 mm

- ASAP-monoboom (Ahlmann Single Arm Power) with hydraulic quick-coupler
- Powerful Z-kinematics
- ASSC (Ahlmann Self Stabilising Concept)
- APSC (Ahlmann Panorama Space Cab) with removable cabin top

- Power-controlled high-performance hydrostatic drive
- Planetary axles with manually switched 100% differential lock on front and rear axle
- Smooth joystick operation
- Extensive range of attachments

Hydraulic system

Single circuit hydraulics with central gear pump (lift/lower, tilt, quick-coupler) and steering (via priority valve); three-way control valve with primary and secondary safeguards
 Max. power at 2800 rpm 60 l/min and 250 bar
 Floating position for lifting cylinders
 Cylinders: 2 lifting cylinders 80 ø
 1 tilting cylinder 100 ø
 Cycle times: Lift (under load) 4.7 s
 Lower 2.9 s
 Crowd time 1.5 s
 Dump time 2.2 s

Performance data

Digging depth with standard bucket: 110 mm
 Bucket position: Crowd angle 45°
 Dump angle top max. 46°
 Dump angle max. 125°
 Lifting force: 4300 daN
 Breakout force: 4300 daN
 Thrust force: 3800 daN

Tipping load:
 standard bucket, straight 3850 kg
 standard bucket, articulated 3400 kg

Payload/machine (even ground):
 on forks, frontal 2350 kg
 on forks, articulated 2100 kg
 on forks, frontal* 2750 kg
 on forks, articulated* 2500 kg

Tipping load according to ISO 14397
 Payload according to EN 474-3
 * Transport position 300 mm above ground

Chassis

Robot-welded front and rear chassis with self-stabilising articulated oscillating centre-pivot (ASSC) for max. stability in articulated position. ASAP-monoboom, with patented protected Z-kinematics on the inside. This allows exact parallel guidance of the pallet fork and excellent visibility on working attachments.
 Operator's cabin with flexible four-point mountings for maximum driver comfort and minimum noise levels. Smooth, precise joystick control.

Filling capacities

Engine with filters approx. 8.5 l
 Fuel tank approx. 70.0 l
 Front axle total approx. 5.9 l
 Rear axle total approx. 6.5 l
 Hydraulic system incl. tank approx. 60.0 l

Standard features

Spacious APSC (Ahlmann Panorama Space Cab) cabin with removable cabin top. The driver door, which opens through 180°, and the large wide-opening side window can be locked within the machine contour. Tinted windows, electrical wipers front and rear, incl. front and rear screen washers, rear screen heating, 2 external rear-view mirrors, ergonomic joystick controls, multiply adjustable driver's seat, adjusts to driver's weight, safety belt, sunshade, heater and fresh air system with external air filter, interior lighting, 12V power outlet, storage space, central multifunction display, display elements and control lights with symbolic indicators, 2 driving lights on front, reversing lights, indicators, brake and tail lights, hydraulically operated quick coupler, electro-hydraulic locking system, towing hitch, fastening points, radio-ready cabin
 Colour scheme: yellow/grey

Optional equipment

30 km/h version, 405/70 R18 tyres, exhaust outlet above hood, 360° warning light, bucket protector for compliance with road-safety requirements, reverse warning system, additional hydraulic system for frontal attachments, pipe break protection, boom suspension system, biodegradable oil fill for hydraulic system, main battery switch, radio, glove compartment, glove compartment with emergency seat, 2 working lights at the front and rear of the cabin roof, air conditioning, pressureless return line, immobilizer transponder, road-safety kit; various attachments possible such as multi-purpose bucket, pallet fork, load hook, etc.

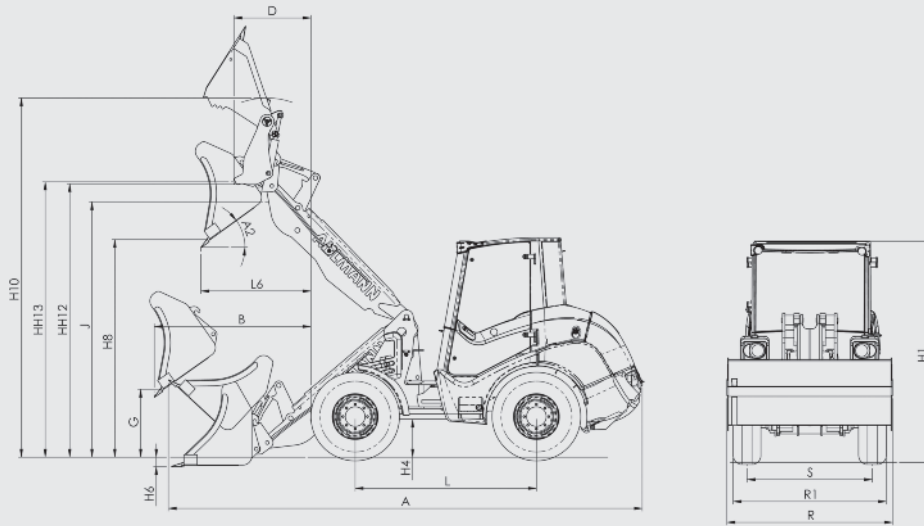
Weight

Machine with quick-change mechanism and with standard bucket 0.85 m³
 and teeth 5175 kg
 permissible axle load, front 3500 kg
 permissible axle load, rear 3500 kg

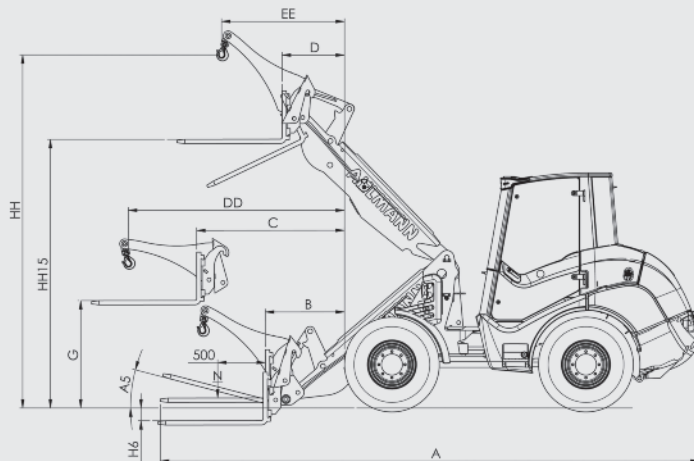
AX 850

Technical Data

Measurements

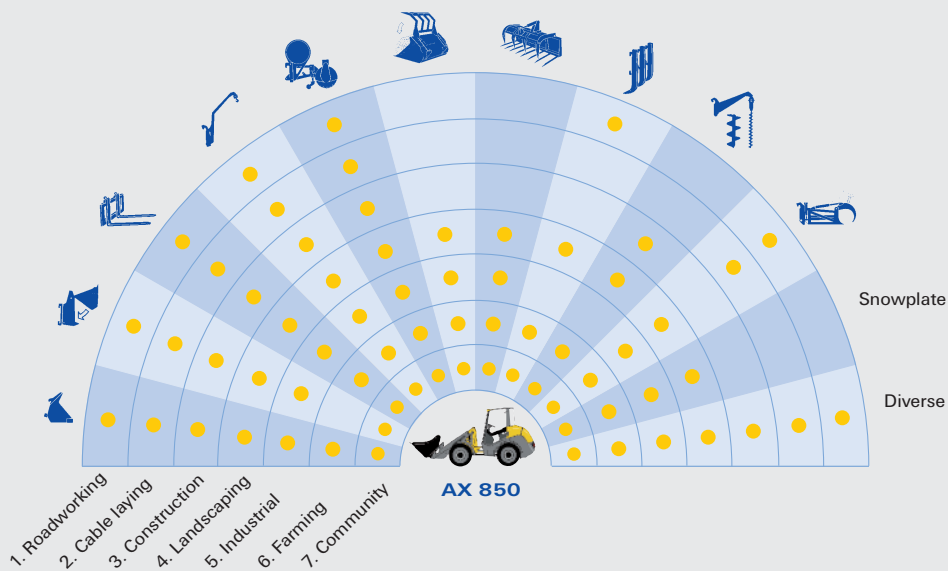


Buckets		
Standard	0.85 m³	4 x 1 0.8 m³
A	5300	5440
A2	46°	46°
B	1600	1740
D		860
G	675	535
H1	2470	2470
H4	440	440
H6	110	85
H8	2490	2350
H10	4095	4025
HH12	3065	3065
HH13		3085
J	2860	2860
L	2030	2030
L6	700	840
R	1950	1950
R1	1750	1750
S	1400	1400



	Forks	Load hook
A	5720	5320
A5	19°	
B	900	
C	1315	
D	500	
DD		2150
EE		1325
G	1125	
H6	110	
HH		3700
HH15	2825	

Range of attachments

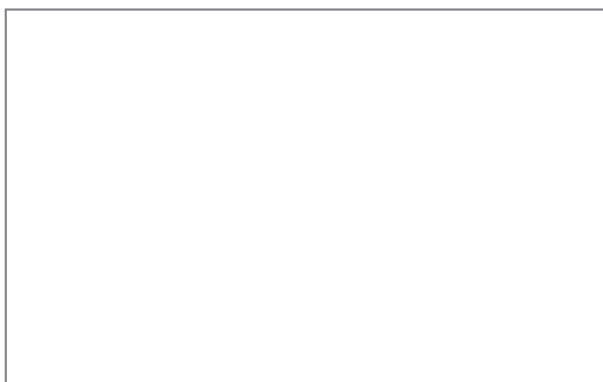




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