### **AS 210**





> The loader specialist

> Swing Shovel Loader 2.1 - 3.0 m<sup>3</sup>

### AS 210

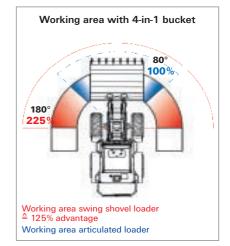
128 kW / 174 hp at 2200 min<sup>.1</sup>

dump height 3.42 m

maximum swing of 180° (2x90°) with all attachments!



4.90 m turning radius measured over rear end





Left foot operated swing pedal avoids tiredness

Wide range of attachments

Manually switchable differential lock in front axle

Hydraulically operated quick coupler

Low-maintenance, play-free chain operated swinging system with constant turning speed and -power Powerful Double-Z-Kinematics with precise parallel lifting and final position cushioning of the lift cylinders

ed swinging and with cus nt turning cyl and -power

AHLMANN

### **AS 210**

#### at your advantages



Safe and easy access



Easy access to all service points

AHLMANN

35



Easy, intuitive handling; nearly all operating functions are integrated in one joystick



Spacious and comfortable cab with excellent all-round visibility

High performance Deutz turbo diesel engine

> Hydrostatic fourwheel steering

> > Payload dependent axle support

Low-maintenance wet lamella brakes

Rigid single-component chassis for maximum stability

### **AS 210**

#### Manoeuvrable and compact



Ahlmann swing shovel loaders are compact, flexible, comfortable, secure and extremely efficient. We have always been at the forefront of innovative design and lead the market in swing shovel technology:

- Short, fast operating cycles for time-saving
- Excellent manoeuvrability particularly in confined areas
- Working in one track and shorter travel distance for minimal traffic obstruction
- Reduced soil compaction due to less operating cycles.



### **AS 210**

#### Low-maintenance and economical



Multiple operations, easy to maintain and long-lasting components guarantee high profitability and are the brand character of Ahlmann swing shovel loaders:

- Many operations are possible without stabilisers even in confined spaces such as pallet lifting, excavating and materials handling
- Extensive range of attachments for almost every application
- Western European technical components
- Optimal access to all service points
- Long maintenance intervals and low maintenance costs
- The chain operated swing function has no maintenance or wear for the life of the machine. Free-play is taken up automatically.



### **AS 210**

Operation weight: 15,000 kg Engine power: 128 kW (174 hp) Standard bucket: 2.1 m<sup>3</sup>





#### Engine

Water-cooled Deutz turbo d intercooler, 6 cylinder (emis step III), 4-stroke, direct fuel	sions acc. to EU 97/68
Туре	TCD 2012 L062V
Net power at	2200 min <sup>-1</sup>
acc. to ISO 14396	(174 hp) 128 kW
Max. torque at	1600 min <sup>-1</sup>
acc. to ISO 14396	688 Nm
spec. fuel consumption at	
max. torque:	220 g/kWh
Air intake filter:	2 level dry-air filter with safety cartridge
Electrical system:	
Operating voltage:	24 Volt
Battery capacity:	2 x 88 Ah
Alternator rating:	55 A 1540 Watt
Starter rating:	(5.5 hp) 4.0 kW

#### Drive

Hydrostatic drive with automotive control, 3 stages, gear-engage under load, multifunctional lever (joystick) for drive and working hydraulics control

Axles:	planetary axles with four-wheel steering for maximum flexibi-			
Differential lock:	lity, oscillating rear axle manually switchable differential lock in front axle			
	locking factor 1	00 %		
Wheels:	tire size:	20,5-25		
	optionally:	650/65 R25		
Speeds:	road gear:	0-20 km/h		
	(optionally 35 km/h)			
	field gear:	0-11 km/h		
Gradability:	under load	60%		
Oscillation:	max. oscillation angle +/- 10°			

#### **Brakes**

Operating brakes:

- 1. hydraulically operated wet lamella brake in front and rear axle, acting on all 4 wheels
- 2. hydrostatic inching brake, acting on all 4 wheels

#### Parking brake

Spring-loaded wet lamella brake in rear axle, acting on all 4 wheels

#### Steering

Hydrostatic four-wheel steering, ca	an be switched
to rear axle steering	
max. steering angle	+/- 25°
Turning radius measured	
over rear end	R = 4,985 mm

### **Technical Data**

- Comfortable driver's cabin with ROPS safety system
- Joystick controls
- Servo-assisted working hydraulics
- High-performance, power-controlled hydrostatic four-wheel drive
- Four-wheel steering

#### Hydraulic system

accessories), and three-fold contro secondary protect Max. operating p 112 I/min and 2: auxiliary hydrauli 2. Circuit (swivelling with primary and high pressure by Max. operating p at 2200 min <sup>-1</sup> : 60	cs circuit (lift/lower, tilt I steering (via priority v I valve with primary and ction 30 bar, max. oil flow fo ics: 172 I/min. g) single control valve I secondary protection, pass line to working hy pressure D I/min and 210 bar aulic controls for 1st ci	alve); d r draulics
Cylinders:	2 lifting cylinders 2 tilting cylinders 2 swing cylinders	110 ø 110 ø 110 ø
Cycle-times:	Lifting (under load) Lowering (w/o load) Dumping (90°) Tilting (45°) Swivelling (90°)	6.3 s 3.7 s 1.4 s 2.1 s 3.5 s
Performance d	ata	
Digging depth with Bucket position:	standard bucket: Tilting angle	90 mm 45°

D	umping angle, t	op 45°
M	ax. dumping ar	ngle 100°
Lifting force:		10,600 daN
Breakout force:		13,000 daN
Thrust force:		11,300 daN
Tipping load: quic	k-coupler cat. V	cat. IV (option)
Standard bucket,		
max. turned, straight	7,800 kg	7,650 kg
Standard bucket,		
max. turned,		
90°-swivelled	7,450 kg	7,500 kg
Payload: quick	c-coupler cat. V	cat. IV (option)
on forks, max. turned,		
frontal, even terrain	5,300 kg	5,450 kg
on forks, max. turned,		
max. swivelled,		
even terrain	4,500 kg	4,700 kg
on forks, max. turned,		
frontal, even terrain*	6,400 kg	6,600 kg
on forks, max. turned,		
frontal, uneven terrain	1* 4,800 kg	4,950 kg
according to ISO 14397		

 Transport position 300 mm above ground acc. to ISO 14397 (ISO 8313) with safety margin

#### Chassis

Rigid single-component chassis for maximum stability especially with swivelled bucket attachment. Quality steel construction, robot welded. Sealed articulated/oscillated pivot for long lifetime. Milled seatings for axles and rotating assembly. Double-Z-Kinematics allow exact parallel adjustment, optimized for use with pallet fork. Operator's cab with flexible four-point mountings for maximum driver comfort and minimum noise levels. Smooth power-assisted and accurate iovstick controls.

- Planetary axles with manually switchable differential lock in front axle (locking factor 100 %)
- · Low-maintenance wet lamella brakes
- Double-Z-Kinematics with precise parallel lifting
- Hydraulically controlled quick-coupler
- Wide range of attachments

#### Filling capacities

Engine with filter	approx.	14.0 I
Fuel tank	approx.	250.0 I
Front axle total	approx.	25.0 I
Rear axle with gearbox	approx.	25.0 I
Hydraulic system with tank	approx.	230.0 I
Distributor gear	approx.	9.5 I

#### Standard features

Comfortable operator's cabin with ROPS safety feature and 1 lockable door, door opens through 180° with safety restraint on machine, tinted windows, electrical wipers front and rear, front and rear screen washers, 1 internal rear-view mirror and 2 external rear-view mirrors, 1 side window opens through 180°, adjustable steering column and multi-functional lever (joystick), pilotcontrolled joystick-operation, multiply adjustable driver's seat, adjusts to driver's weight, hydraulic suspension, safety belt, sun-blinds, heater and fresh air system with external filter, interior lighting, glove-boxes, intuitive modular cockpit with symbolic display components and monitoring LEDs, 24v power outlet, 2 driving lights, 2 working lights mounted on frame of bucket arm, 2 working lights mounted at front of cab roof and 2 at back of cab roof, reversing lights, indicators, rear and brake lights, electrically locking hydraulically operated quick-coupler cat. V, final position cushioning of the lift cylinders, lockable box (120 l), towing coupling, fastening point, auxiliary hydraulics 1st circuit. Color scheme: yellow, operator's cab, axles and wheels grev

#### Optional equipment

35 km/h version, tires 650/65 R25, 360° warning light, reverse warning system, FOPS protecting roof, bucket protection compliant to road-safety standards, auxilliary hydraulics 2nd circuit, pipe-burst protection system, boom suspension, bio-degradable oil fill for hydraulic system, radio, lift delimiter, pressureless return line, lockable differential in rear axle, disengageable four-wheel drive, air-conditioning system, immobilizer, towing device, road safety kit, particle filter, aircushioned driver's seat, automatic brake when switch in neutral position, quickcoupler cat. IV, various attachments possible such as pallet fork, load hook, excavator, grab, hydraulic breaker etc.

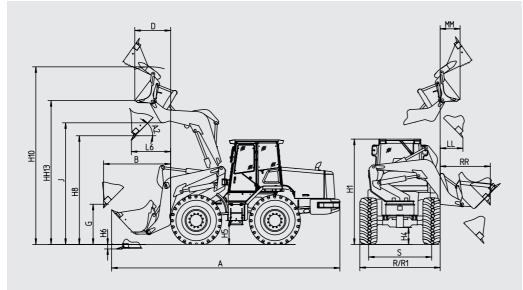
#### Weight

Machine with quick-coupler and	
2.1 m <sup>3</sup> -standard bucket with teeth	15,000 kg
permissible axle load front	7,000 kg
permissible axle load rear	9,000 kg

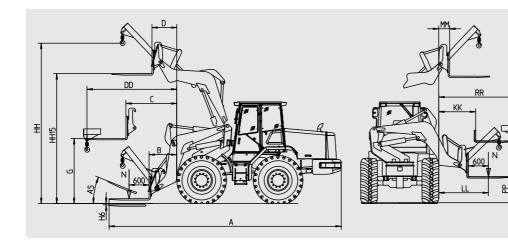
## AS 210

**Technical Data** 

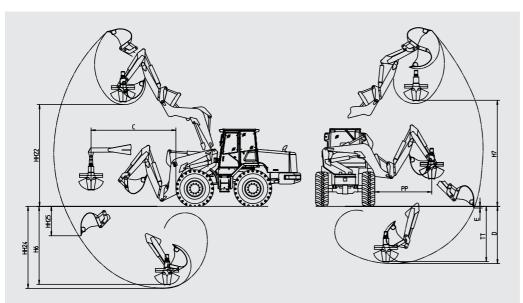
#### Measurements



Buckets (Standard = Stand.)					
240110	Cat.		,	Cat. IV (option)	
	Stand. 2,1 m <sup>3</sup>	4-in-1 1,8 m³	Stand. 2,1 m <sup>3</sup>	4-in-1 1,8 m³	
А	7155	7145	6850	6840	
A2	45°	45°	50°	50°	
В	2190	2360	2100	2170	
D	-	1170	-	1010	
G	1350	1285	1200	1135	
H1	3155	3155	3155	3155	
H4	500	500	500	500	
H5	600	600	600	600	
H6	90	90	70	70	
H8	3420	3355	3120	3055	
H10	5600	5575	5450	5425	
HH13	-	4120	-	3965	
J	3660	3660	3660	3660	
LL	890	985	1010	1100	
L6	1335	1425	1465	1555	
MM	-	720	-	560	
RR	1740	1910	1650	1720	
S	2080	2080	2080	2080	
R	2700	2700	2700	2700	
R1	2605	2605	2605	2605	



	Forks	Load hook	Forks	Load hook
	Ca	at. V	Cat. IV	/ (option)
А	7950	7385	7600	7085
A5	25°	-	25°	-
В	1095	-	900	-
С	1810	-	1560	-
D	950	-	820	-
DD	-	3480	-	3235
G	2000	-	1855	-
HH	-	5425	-	5225
H6	100	-	110	-
HH15	4100	-	3830	-
KK	1390	-	1110	-
LL	1750	-	1500	-
MM	500	-	370	-
PP	750	-	780	-
RR	-	3030	-	2785



Ex	cavator Ca	Grab it. V	Excavator Cat. IV (c	Grab option)
С	-	4065	-	3820
D	2650	-	2750	-
E	100	-	100	-
H6	-	3270	-	3350
H7	-	4100	-	3815
HH22	3900	-	3640	-
HH24	3420	-	3520	-
HH25	1420	-	1450	-
PP	-	3460	-	3370
TT	-	2500	-	2580



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