

Mecalac

SWING LOADER **AS 210e**



> Experience of your worksite

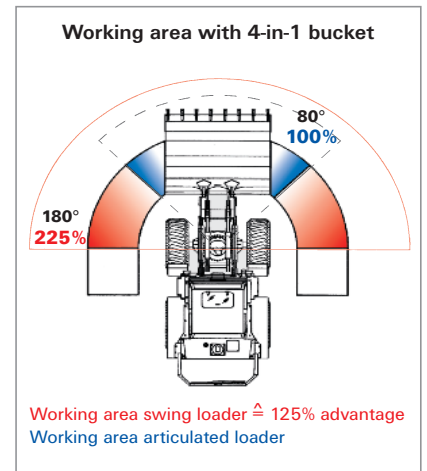
SWING LOADER
AS 210e

LET'S HAVE A LOOK

- **128 kW / 174 hp at 2200 rpm**
- **Dump height 3.42 m**
- **Max. swing range of 180° (2 x 90°) with all attachments**



4.90 m turning radius measured over rear end



Left foot operated swing pedal avoids tiredness

Manually switchable differential lock in front axle

Hydraulically operated quick coupler

Low-maintenance, play-free chain operated swing system with constant turning speed and -power

Powerful Double-Z-Kinematics with precise parallel lifting and final position cushioning of the lift cylinders

Wide range of attachments



AT YOUR ADVANTAGES



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



Safe and easy access



High performance
Deutz turbo
diesel engine

Hydrostatic four-
wheel steering

Payload dependent
axle support

Low-maintenance
wet lamella brakes

Rigid single-component
chassis for maximum stability

SWING LOADER
AS 210e

MANOEUVRABLE AND COMPACT



Mecalac swing 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.



LOW-MAINTENANCE AND ECONOMICAL



Multiple operations, easy to maintain and long-lasting components guarantee high profitability and are the brand character of Mecalac swing 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.



Operation weight: 15,000 kg
 Engine power: 128 kW (174 hp)
 Bucket capacity: 2.1– 3.0 m³



Engine

Water-cooled Deutz turbo diesel engine with intercooler, 6 cylinder (emissions acc. to EU 97/68), 4-stroke, direct fuel injection
 Net power at 2200 min⁻¹
 acc. to ISO 14396 (174 hp) 128 kW
 Max. torque at 1600 min⁻¹
 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 flexibility, oscillating rear axle

Differential lock: manually switchable differential lock in front axle locking factor 100 %

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

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

- 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

Dual-circuit system with gear pumps

- Working hydraulics circuit (lift/lower, tilt, accessories), and steering (via priority valve); three-fold control valve with primary and secondary protection
 Max. operating pressure at 2200 min⁻¹: 112 l/min and 230 bar, max. oil flow for auxiliary hydraulics: 172 l/min.
- Circuit (swivelling) single control valve with primary and secondary protection, high pressure bypass line to working hydraulics
 Max. operating pressure at 2200 min⁻¹: 60 l/min and 210 bar

Servo-assisted hydraulic controls for 1st circuit, joystick operated

Float position for lifting cylinders

Cylinders: 2 lifting cylinders 110 ø
 2 tilting cylinders 110 ø
 2 swing cylinders 110 ø

Cycle-times: Lifting (under load) 6.3 s
 Lowering (w/o load) 3.7 s
 Dumping (90°) 1.4 s
 Tilting (45°) 2.1 s
 Swivelling (90°) 3.5 s

Performance data

Digging depth with standard bucket: 90 mm
 Bucket position: Tilting angle 45°
 Dumping angle, top 45°
 Max. dumping angle 100°

Lifting force: 10,600 daN
 Breakout force: 13,000 daN
 Thrust force: 11,300 daN

Tipping load: [quick-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-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

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

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 joystick 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 l
Fuel tank	approx.	250.0 l
Front axle total	approx.	25.0 l
Rear axle with gearbox	approx.	25.0 l
Hydraulic system with tank	approx.	230.0 l
Distributor gear	approx.	9.5 l

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), pilot-controlled 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 grey

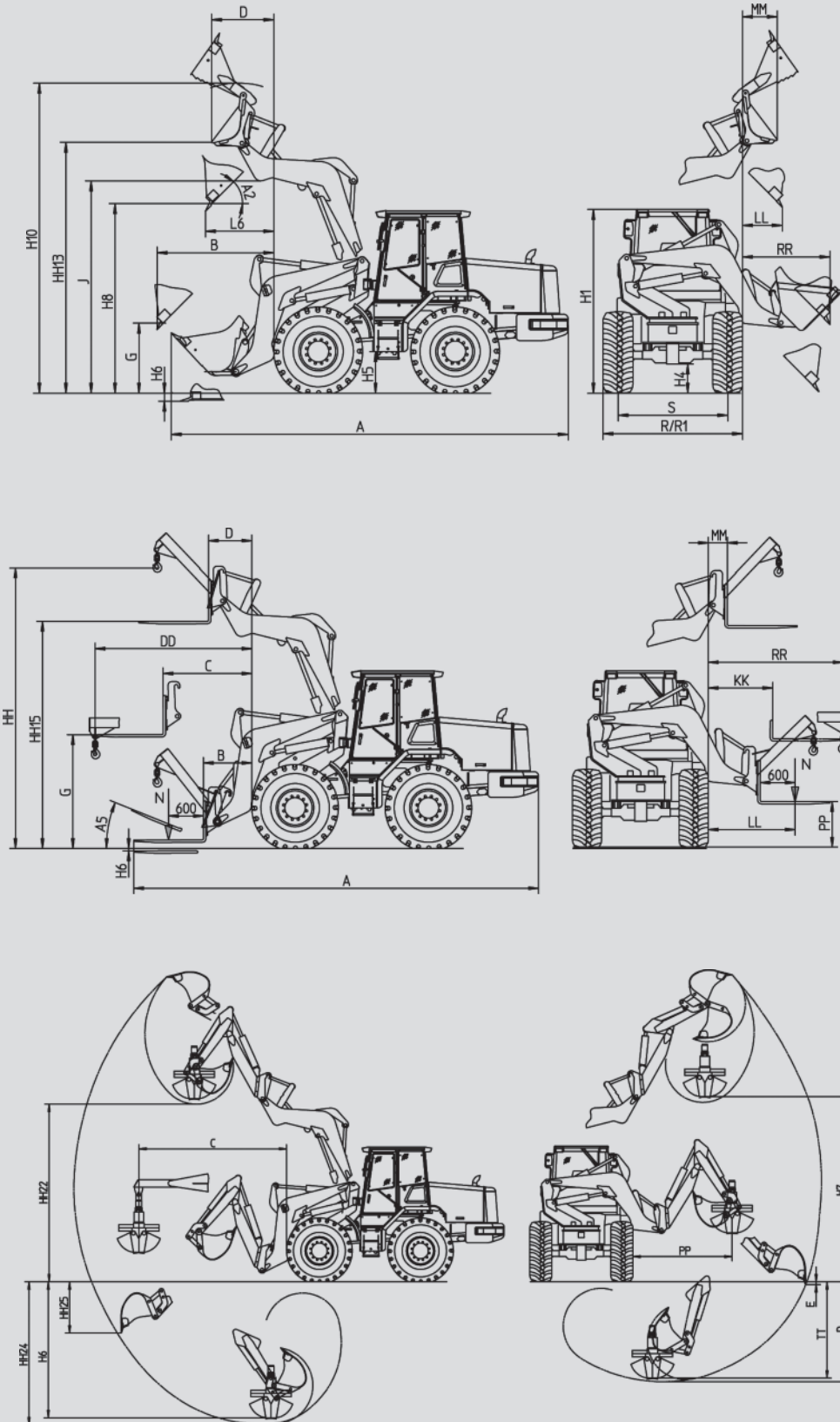
Optional equipment

35 km/h version, tires 650/65 R25, 360° warning light, reverse warning system, FOPS protecting roof, bucket protection compliant to road-safety standards, auxiliary hydraulics 2nd circuit, pipe-burst protection system, boom suspension, bio-degradable oil fill for hydraulic system, radio, lift delimitter, pressureless return line, lockable differential in rear axle, disengageable four-wheel drive, air-conditioning system, immobilizer, towing device, road safety kit, particle filter, air-cushioned driver's seat, automatic brake when switch in neutral position, quick-coupler 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 ³ standard bucket with teeth	15,000 kg
permissible axle load front	7,000 kg
permissible axle load rear	9,000 kg

Measurements



Buckets (Standard=Stand.)				
	Cat. V		Cat. IV (Option)	
	Stand. 2.1 m ³	4-in-1 1.8 m ³	Stand. 2.1 m ³	4-in-1 1.8 m ³
A	7155	7145	6850	6840
A2	45°	45°	50°	50°
B	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 Cat. V		Forks Load hook Cat. IV (option)	
A	7950	7385	7600	7085
A5	25°	-	25°	-
B	1095	-	900	-
C	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

	Excavator Grab Cat. V		Excavator Grab Cat. IV (Option)	
C	-	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

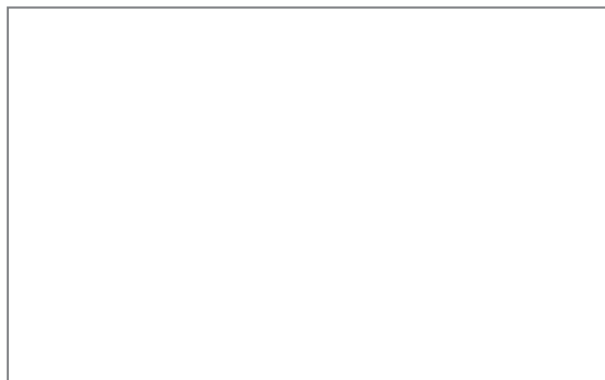
All data based on standard tyres.
 Technical data are non-committal and are subject to constructional modifications!



For decades we develop and produce high quality and innovative wheel loaders in Büdelsdorf in northern Germany. With our articulated loaders, four-wheel steered front loaders and four-wheel steered swing loaders, we are the world's only manufacturer to offer all steering concepts. Our four-wheel-steered swing loaders stand as the world's technologically most innovative wheel loaders.



Your Local Dealer



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