

SWING LOADER
AS 210e

TECHNICAL DATA

Operation weight: 15,000 kg
Engine power: 129 kW (175 hp)
Bucket capacity: 2.1– 3.0 m³



Engine

Low-noise, water-cooled Deutz TCD 6.1 L6 turbo diesel engine. Common Rail injection system, intercooler, cooled external exhaust gas recirculation and particulate filter

Net power at 2200 rpm
acc. to ISO 14396 175 hp / 129 kW
Max. torque at 1450 rpm
acc. to ISO 14396 750 Nm

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: 100 A

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

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

Hydraulic system

Dual-circuit system with gear pumps
1. 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.
2. 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

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

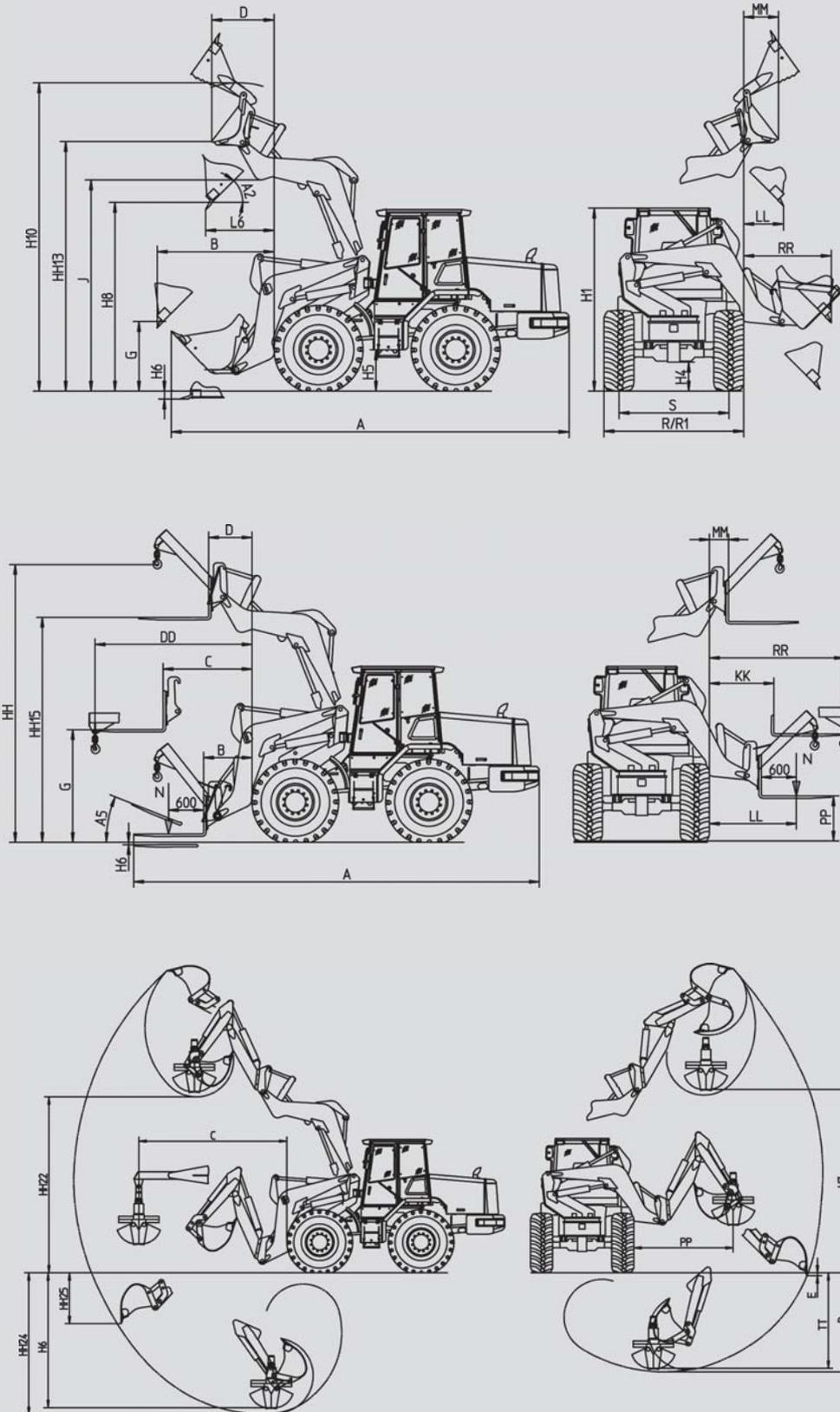
35 km/h version, tires 650/65 R25, 360° warning light, reverse warning system, FOPS protecting roof, bucket protection compliant to road-safety standards, auxiliary hydraulics 2nd circuit, pipe-burst protection system, boom suspension, bio-degradable oil fill for hydraulic system, radio, lift delimitter, pressureless return line, lockable differential in rear axle, disengageable four-wheel drive, air-conditioning system, immobilizer, towing device, road safety kit, 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.

Emissions

Engine
Emissions according to stage III B - EU-RL 97/68
Noise emission
Sound power level (LWA)¹ dB(A)
Acoustic power level (LpA)² dB(A)
The exterior (1) and interior (2) noise levels correspond to the standards
Vibrations
Vibration total value³ < 2.5 m/s²
Effective vibration level⁴ < 0.5 m/s²

1 According to 2000/14/EG
2 According to ISO 6396
3 According to ISO/TR 25398
4 According to ISO/TR 25398

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

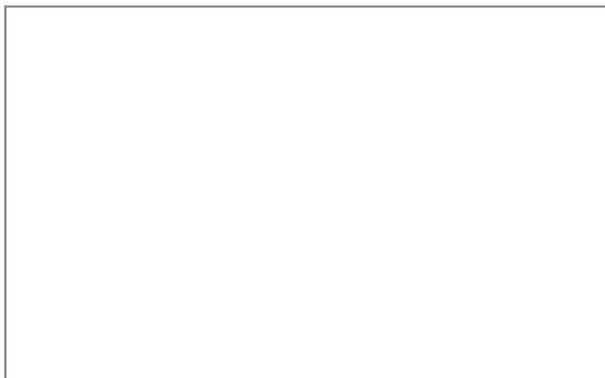
All data based on standard tires. All data are non-binding. Changes are reserved without notice. The order confirmation is exclusively decisive.



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MECALAC BAUMASCHINEN GMBH · Am Friedrichsbrunnen 2 · D-24782 Büdelsdorf
Phone +49 (0) 43 31/3 51-319 · Fax +49 (0) 43 31/3 51-470 · info@mecalac.de · www.mecalac.com
A COMPANY OF GROUPE MECALAC S.A.