

# Mecalac

SWING LOADER **AS 50**



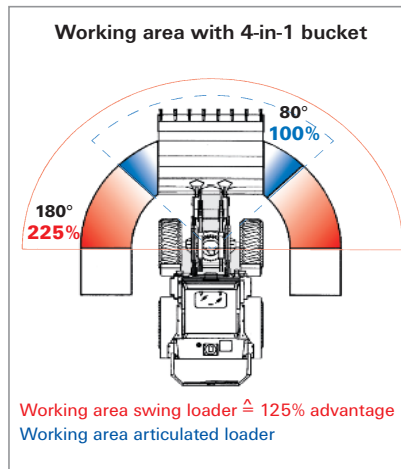
> Experience of your worksite

SWING LOADER

**AS 50**

# LET'S HAVE A LOOK

- **29.9 kW / 40 hp at 2500 rpm**
- **Max. tipping load (standard bucket): 2410 kg**
- **Max. swing range of 180° (2 x 90°) with all attachments**



Safe, easy access on both sides



Left foot operated swing pedal avoids tiredness

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

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

Self-engaging, automatic differential lock in front axle (locking factor 45%)

Hydraulically operated quick coupler

Wide range of attachments



# AT YOUR ADVANTAGES



Easy access to all service points



Comfortable cab with excellent all-round visibility



High performance  
Deutz diesel engine

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Hydrostatic  
four-wheel steering

Payload  
dependent  
axle support

Rigid single-  
component chassis  
for maximum stability

SWING LOADER

**AS 50**

# 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 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.



Operating weight: 4,160 kg  
 Engine power: 29.9 kW (40 hp)  
 Bucket capacity: 0.5 – 0.8 m<sup>3</sup>



### Engine

Oil/air-cooled Deutz diesel engine  
 3 cylinders (emissions acc. to EU 97/68 step III),  
 4-stroke, direct fuel injection

Type	D 2011 L03i
Net power at acc. to ISO 9249	2500 min <sup>-1</sup> (40 hp) 29.9 kW
Max. torque at acc. to ISO 9249	1700 min <sup>-1</sup> 130 Nm
spec. fuel consumption at max. torque:	224 g/kWh

Air intake filter: 2 level dry-air filter  
with safety cartridge

Electrical system:	Operating voltage: 12 Volt
	Battery capacity: 66 Ah
Alternator rating:	60 A 840 Watt
Starter rating:	(3.0 hp) 2.2 kW

### Drive

Hydrostatic drive with automotive control,  
 2 stages for maximum propulsive force,  
 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:	self-engaging, automatic differential lock in front axle locking factor 45%	
Wheels:	tire size:	12,5-18
	optionally:	15,5/55 R18
Speeds:	road gear:	0-20 km/h
	(optionally 30 km/h)	
	field gear:	0-5 km/h
Oscillation:	max. oscillation angle +/- 10°	

### Brakes

Operating brakes:

1. hydraulically operated drum brake in front axle, acting on all 4 wheels
2. hydrostatic inching brake, acting on all 4 wheels

Parking brake:  
 Drum brake in front axle, acting on all 4 wheels

### Steering

Hydrostatic four-wheel steering,  
 can be switched to rear axle steering  
 max. steering angle +/- 35°  
 Turning radius measured  
 over rear end R = 2770 mm

- Low-maintenance shovel arm
- Comfortable driver's cab with ROPS safety system
- Joystick controls
- Servo-assisted working hydraulics
- High-performance, power-controlled, hydrostatic four-wheel drive

- Four-wheel steering
- Planetary axles with self-locking differential in front
- P-Kinematics for excellent visibility on all work tools
- 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 2500 min<sup>-1</sup>: 40 l/min and 200 bar
2. circuit (swivelling) single control valve with primary and secondary protection  
 Max. operating pressure at 2500 min<sup>-1</sup>: 20 l/min and 200 bar

Float position for lifting cylinders

Cylinders:	2 lifting cylinders	70 ø
	1 tilting cylinder	70 ø
	2 swing cylinders	80 ø
Cycle-times:	Lifting (under load)	5.5 s
	Lowering (w/o load)	3.5 s
	Dumping (90°)	3.5 s
	Tilting (45°)	2.2 s
	Swivelling (90°)	3.4 s

### Performance data

Digging depth with standard bucket:	100 mm
Bucket position:	Tilting angle 45°
	Dumping angle, top 46°
	Max. dumping angle 105°
Lifting force:	2,400 daN
Breakout force:	3,500 daN
Thrust force*:	3,000 daN

**Tipping load:**

Standard bucket, max. turned, straight*	2,410 kg
Standard bucket, max. turned, 90°-swivelled*	2,065 kg

**Payload:**

on forks, max. turned, frontal, even terrain*	1,640 kg
on forks, max. turned, max. swivelled, even terrain*	1,290 kg
on forks, max. turned, frontal, even terrain**	1,770 kg
on forks, max. turned, frontal, uneven terrain**	1,330 kg

\* Tipping load according to ISO 14397  
 Payload according to EN 474-3  
 \* with counterweight  
 \*\* with counterweight in transport position 150 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. Swivelling cylinders integrated in the frame ensure constant swivel speed and torque with integrated final cylinder cushioning. Separately driven via second hydraulics circuit. P-Kinematics in shovel arm for excellent visibility on all work tools. Low-maintenance shovel arm. Operator's cab with flexible four-point mountings for maximum driver comfort and minimum noise levels. Smooth power-assisted and accurate joystick controls.

### Filling capacities

Engine with filter	approx.	6.0 l
Fuel tank	approx.	45.0 l
Front axle total	approx.	7.0 l
Rear axle with gearbox	approx.	7.5 l
Hydraulic system with tank	approx.	60.0 l

### Standard features

Comfortable operator's cab with ROPS safety feature and 2 lockable doors allowing access from both sides of vehicle, doors open through 180° with safety restraint on machine, tinted windows, electrical wipers front and rear, front and rear screen washers, 2 external rear-view mirrors, multiply adjustable driver's seat, adjusts to driver's weight, hydraulic suspension, safety belt, sun-blind, heater and fresh air system with external filter, interior lighting, glove-boxes, intuitive modular cockpit with symbolic display components and monitoring LEDs, 12v power outlet, 2 driving lights at front of cab roof, 2 working lights mounted at back of cab roof, indicators, rear and brake lights, low-maintenance shovel arm, electrically locking hydraulically operated quick-coupler, towing coupling, fastening and lifting points, auxiliary hydraulics 1st circuit.  
 Color scheme: yellow, operator's cab, axles and wheels grey

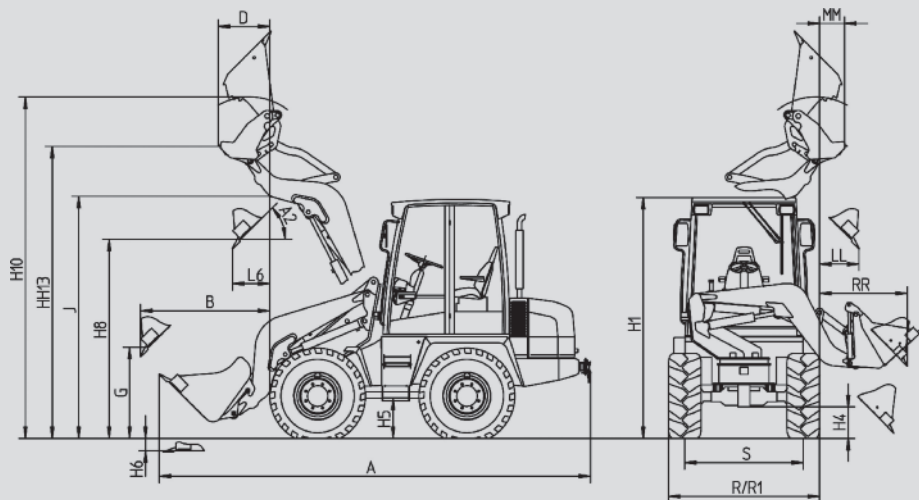
### Optional equipment

30 km/h version, tires 15,5/55 R18, 360° warning light, internal rear-view mirror, reverse warning system, bucket protection compliant to road-safety standards, auxiliary hydraulics 2nd circuit, pipe-burst protection system, boom suspension, counterweight, biodegradable oil fill for hydraulic system, radio, pressureless return line, immobilizer, various attachments possible such as pallet fork, load hook, hydraulic breaker etc.

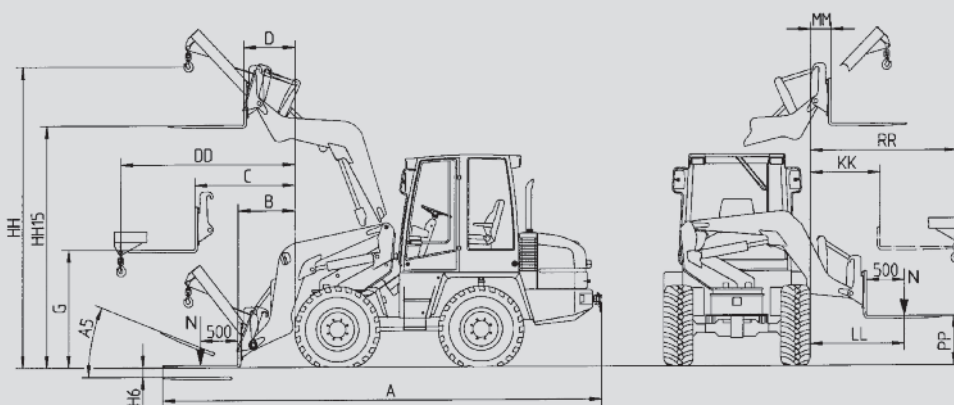
### Weight

Machine with quick-coupler and 0.5 m <sup>3</sup> -standard bucket with teeth	4,160 kg
permissible axle load front	3,000 kg
permissible axle load rear	3,000 kg

Measurements

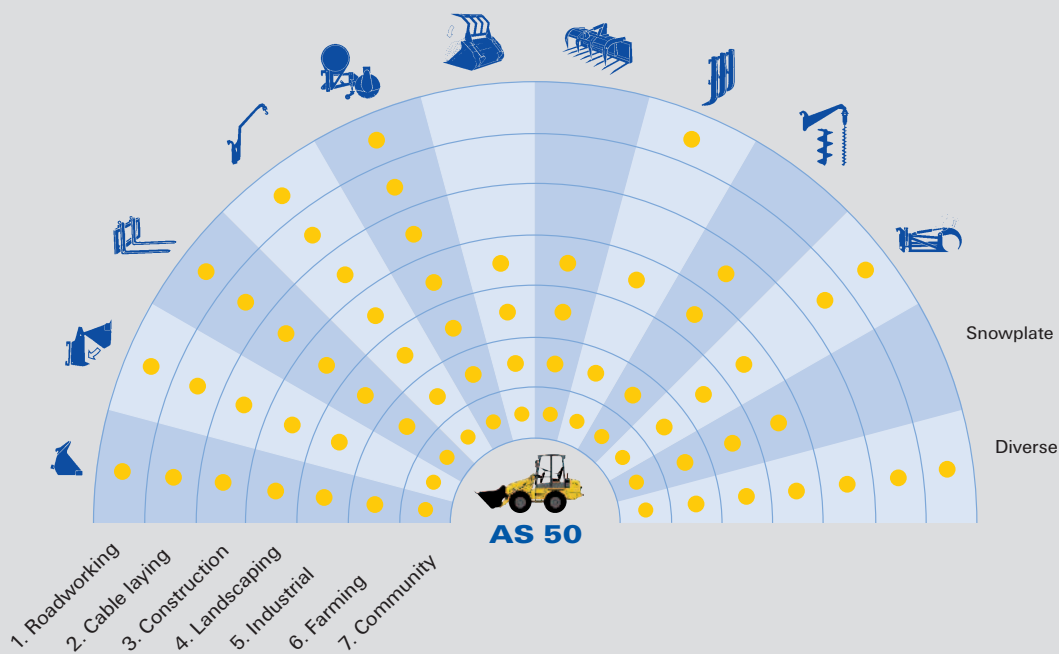


Buckets		
	Standard 0.50m <sup>3</sup>	4 x 1 0.45m <sup>3</sup>
A	4865	4820
A2	46°	46°
B	1420	1370
D		340
G	810	825
H1	2550	2550
H4	320	320
H5	400	400
H6	100	85
H8	2490	2470
H10	3775	3615
HH13		3200
J	3030	3030
LL	275	205
L6	460	410
MM		140
RR	1070	1020
S	1290	1290
R	1650	1650
R1	1620	1620



	Load hook	Forks
A	4310	5280
A5		21°
B		705
C		1155
D		160
DD	1770	
G		1265
HH	3510	
H6		85
HH15		2940
KK		815
LL		1155
MM		115
PP		510
RR	1410	

Range of attachments



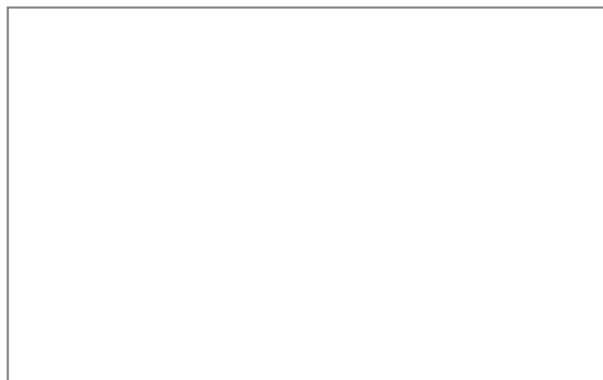
All data based on standard tyres. Technical data are non-committal and are subject to constructional modifications!



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



# Mecalac

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