

Mecalac

AS 50



Mecalac



AS 50

Courtesy of Machine.Market



For decades, MECALAC has been developing and producing high-quality and innovative wheel loaders at the Büdelsdorf site in Northern Germany.

With our articulated loaders, four-wheel steered front loaders and four-wheel steered swing loaders, we are the only manufacturer to offer all concepts for compact loaders. At MECALAC you can choose the best suitable solution for your application.

MECALAC swing loaders are among the most technologically advanced wheel loaders worldwide. At the same time, they are also the safest wheel loaders: Whatever they can load frontally, can also be transported and 90° swiveled without loss of stability, even with the steering at maximum angle.

EXPERIENCE OF YOUR WORKSITE AS 50

HANDLE YOUR DAILY WORKSITE PROCESS FAST AND EFFICIENTLY - THAT'S WHAT MECALAC SWING LOADERS STAND FOR

The four-wheel steered MECALAC swing loaders featuring a low-torsion, rigid chassis offer the highest stability, maximum agility and efficiency for every worksite. They allow worksite tasks to be completed faster and therefore more productive. The key to productivity is that you can simultaneously drive, steer and swing while performing your daily loading work.

Versatile operation, ease of maintenance and durable components are warrantors for profitability and synonyms for MECALAC swing loaders.

SUMMARY



6 LET'S HAVE A LOOK AT YOUR ADVANTAGES





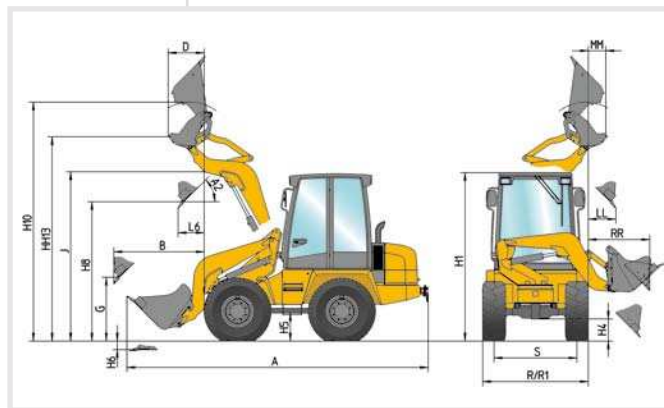
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LET'S HAVE A LOOK AT YOUR ADVANTAGES

FIRM GRIP ON YOUR WORKSITE WITH FOUR-WHEEL STEERED SWING LOADERS

MECALAC swing loaders are compact, versatile, comfortable, safe, and extremely powerful. Their profitability and their innovative swivel principle have been the key for long-term market leadership in the swing loader sector which they continue to expand.

Due to the swing system with P-Kinematics, providing an optimized view, and a turning radius of 2,77m only, it is also the most agile loader of its class. Equipped with an auxiliary hydraulics as standard, the AS 50 can be operated with many other attachments in addition to bucket and forks.

- 2 DOORS FOR EASY ACCESS ON BOTH SIDES
- RIGID FRAME
- FOUR-WHEEL STEERING FOR MAX. STABILITY AND EXCELLENT MANOEUVRABILITY
- LOAD-DEPENDENT AXLE SUPPORT
- CHAIN OPERATED SWING SYSTEM WITH CONSTANT AND PRECISE SWING SPEED
- P-KINEMATICS WITH PRECISE PARALLEL LIFTING
- AUTOMATIC DIFFERENTIAL LOCK IN THE FRONT AXLE
- ELECTRO-HYDRAULIC QUICK-COUPLER
- OPTIMAL ACCESS TO ALL SERVICE POINTS
- WIDE RANGE OF ATTACHMENTS





MECALAC CHAIN OPERATED SWING SYSTEM

The zero-play chain swing system providing constant working speed allows easy, efficient and precise work cycles for high productivity.

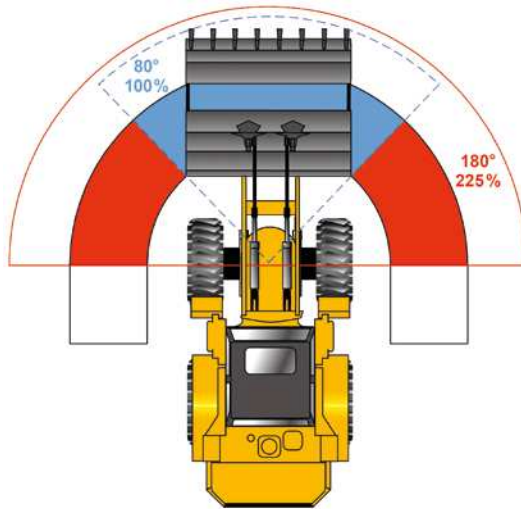


**COMPACT
& AGILE**

AS 50



POWERFUL



working area swing loader = 125% advantage
working area articulated loader

180° SWING RANGE



SWIVELLING INSTEAD OF STEERING

The extremely robust and rigid chassis with four-wheel steering is the basis for maximum stability at maximum performance because the footprint remains unchanged at all times. A minimised turning radius ensures optimum agility, even on most confined worksites. The swing range of 180° efficiently expands the working area. Work cycles can be completed faster without steering. Less steering and driving motion reduces ground compaction.

The combination of swing range and four-wheel steering translates to unique flexibility and agility of the loader that lets you complete every task quickly and efficiently. It is the interplay of our MECALAC technologies that distinguishes our loaders and has made them so successful until today. Flexibility. Performance. Safety.



SPACIOUS
PRACTICAL & ROBUST

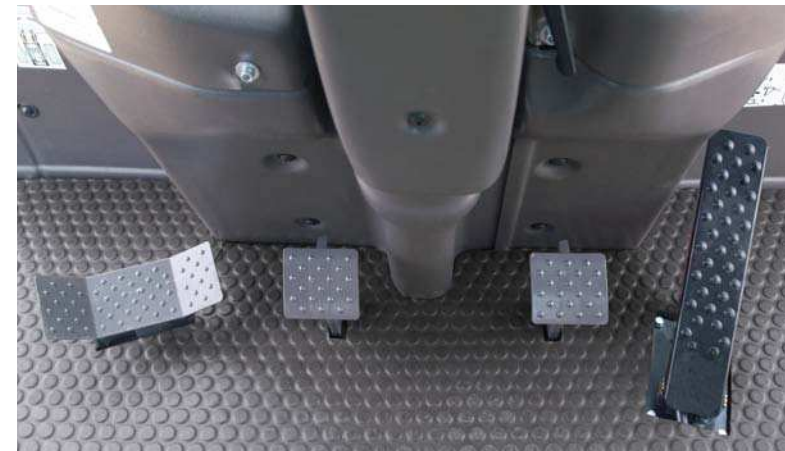
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MECALAC PANORAMA-CAB

The spacious ROPS cabin was designed with regard to function. Thanks to centrally arranged controls, the driver has a full overview at all times. Large tinted glass panes ensure an excellent all-round vision. Two lockable doors allow for access on both sides and can be locked within the loader contour.

A multi-position driver's seat with weight-dependent hydraulic suspensions is a standard feature. The spacious cabin and a heater and fresh air system with external air filter facilitate daily work.



**FUNCTIONAL
& COMPACT**


AS 50

OPERATING WEIGHT: 4160 KG
 ENGINE POWER: 29.9 KW / 40 HP
 BUCKET CAPACITY: 0.50 – 0.80 m³

- 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

ENGINE

Oil/air-cooled Deutz diesel engine, 3 cylinders (emissions acc. to EU 97/68 step III)	•
Type D 2011 L03i	
Net power at 2500 min ⁻¹	
acc. to ISO 9249	40 hp / 29.9 kW
Max. torque at: 1700 min ⁻¹	
acc. to ISO 9249	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
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
field gear:	0-5 km/h
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

Turning radius measured over rear end, R =

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⁻¹:

2. Circuit (swivelling) single control valve with primary and secondary protection

Max. operating pressure at 2500 min⁻¹:

Float position for lifting cylinders

Cylinders: 2 lifting cylinders

1 tilting cylinder

2 swing cylinders

PERFORMANCE DATA

Bucket position:

Tilting angle

Dumping angle, top

Max. dumping angle

Lifting force:

Breakout force:

Thrust force*:

Tipping load:

Standard bucket, max. turned, straight*

Standard bucket, max. turned, 90°-swivelled*

Payload:

on forks, max. turned, frontal, even terrain*

on forks, max. turned, max. swivelled, even terrain*

Tipping load according to ISO 14397.

Payload according to EN 474-3. * with counterweight

FILLING CAPACITIES

Engine with filter

Fuel tank

Front axle total

Rear axle with gearbox

Hydraulic system with tank

CHASSIS

Rigid, single-frame chassis with rear axle support for maximum stability, especially when working in swivelled position

Sealed articulated/oscillated pivot with play-free, chain operated swinging system with constant turning speed and power

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

The servo-assisted joystick controls are smooth, accurate and long lasting

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

TECHNICAL DATA

OPTIONAL EQUIPMENT

30 km/h version	o
Tires 15,5/55 R18	o
360° warning light	o
Internal rear-view mirror	o
Reverse warning system	o
Bucket protection compliant to road-safety standards	o
Auxiliary hydraulics 2nd circuit	o
Pipe-burst protection system	o
Boom suspension	o
Counterweight	o
Bio-degradable oil fill for hydraulic system	o
Radio	o
Pressureless return line	o
Immobilizer	o
Various attachments possible such as pallet fork, load hook, hydraulic breaker etc.	o

EMISSIONS

Engine: Emissions according to stage III - EU-RL 97/68	•
Noise emission	
Sound power level LWA ¹	99 dB(A)
Acoustic power level LpA ²	78 dB(A)
Vibrations:	
Vibration total value ³	< 2,5 m/s ²
Effective vibration level ⁴	< 0,5 m/s ²

¹ According to 2000/14/EG

² According to ISO 6396

³ According to ISO/TR 25398

⁴ According to ISO/TR 25398

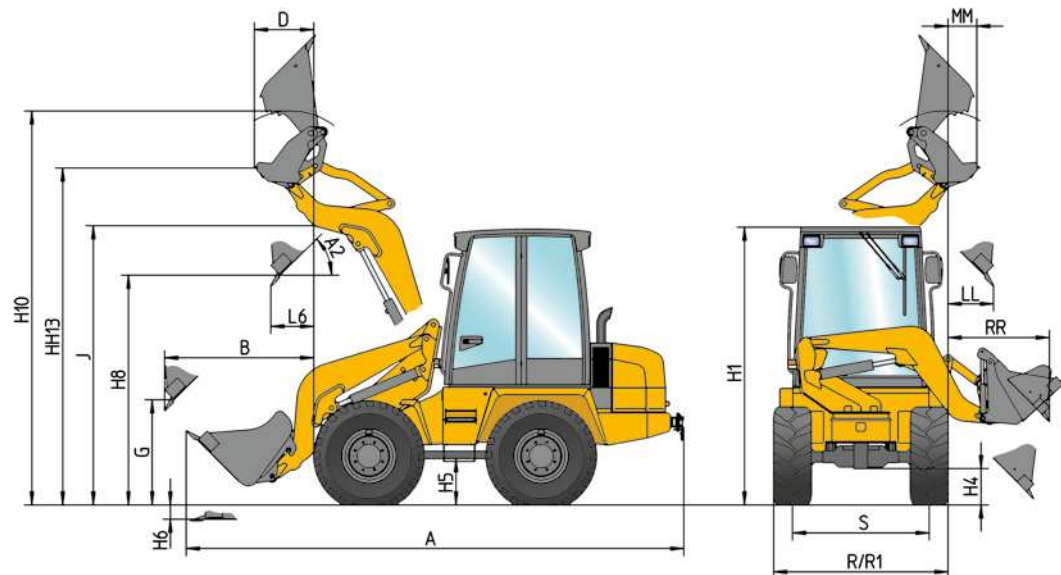
All data based on standard tires.

All data are non-binding.

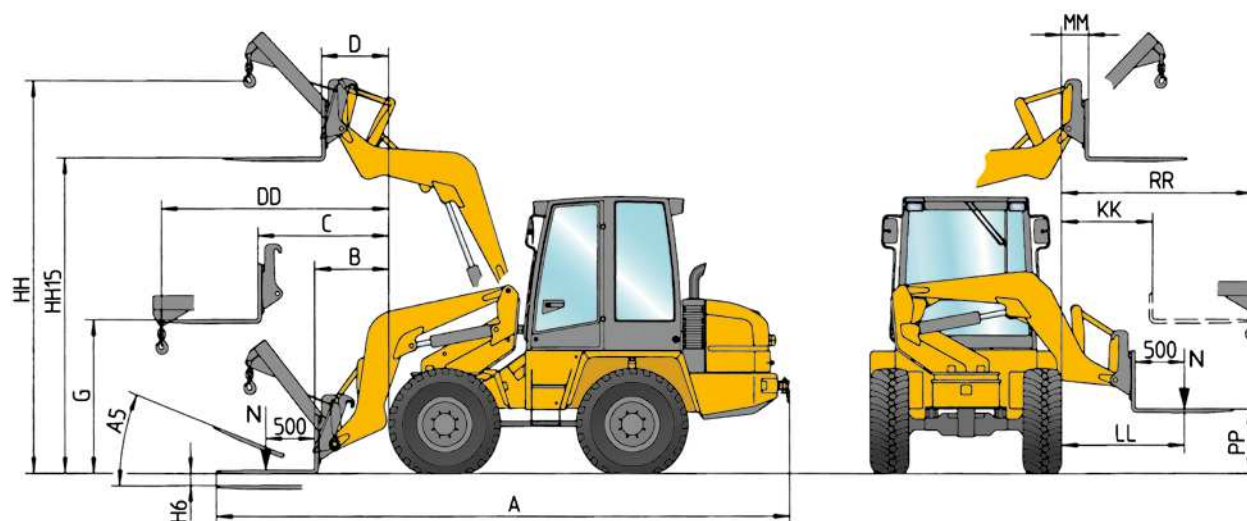
Changes are reserved without notice.

The order confirmation is exclusively decisive.

TECHNICAL DATA



BUCKETS		
	STD. 0.50 m ³	4x1 0.45 m ³
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



	FORKS	LOAD HOOK
A	5280	4310
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



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A company of Groupe Mecalac S.A.

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