

# Mecalac

SWING LOADER **AS 900**



> Experience of your worksite

SWING LOADER  
**AS 900**

# LET'S HAVE A LOOK

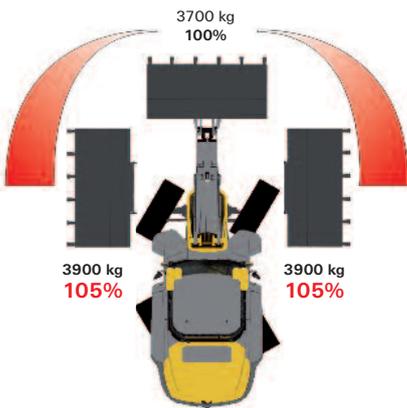
- **55 kW / 75 hp at 2600 rpm**
- **Max. tipping load steered and 90° swivelled: 3900 kg**
- **Max. swing range of 180° (2 x 90°) with all attachments**



Increase of lifting power by 29%



Tipping loads with standard bucket



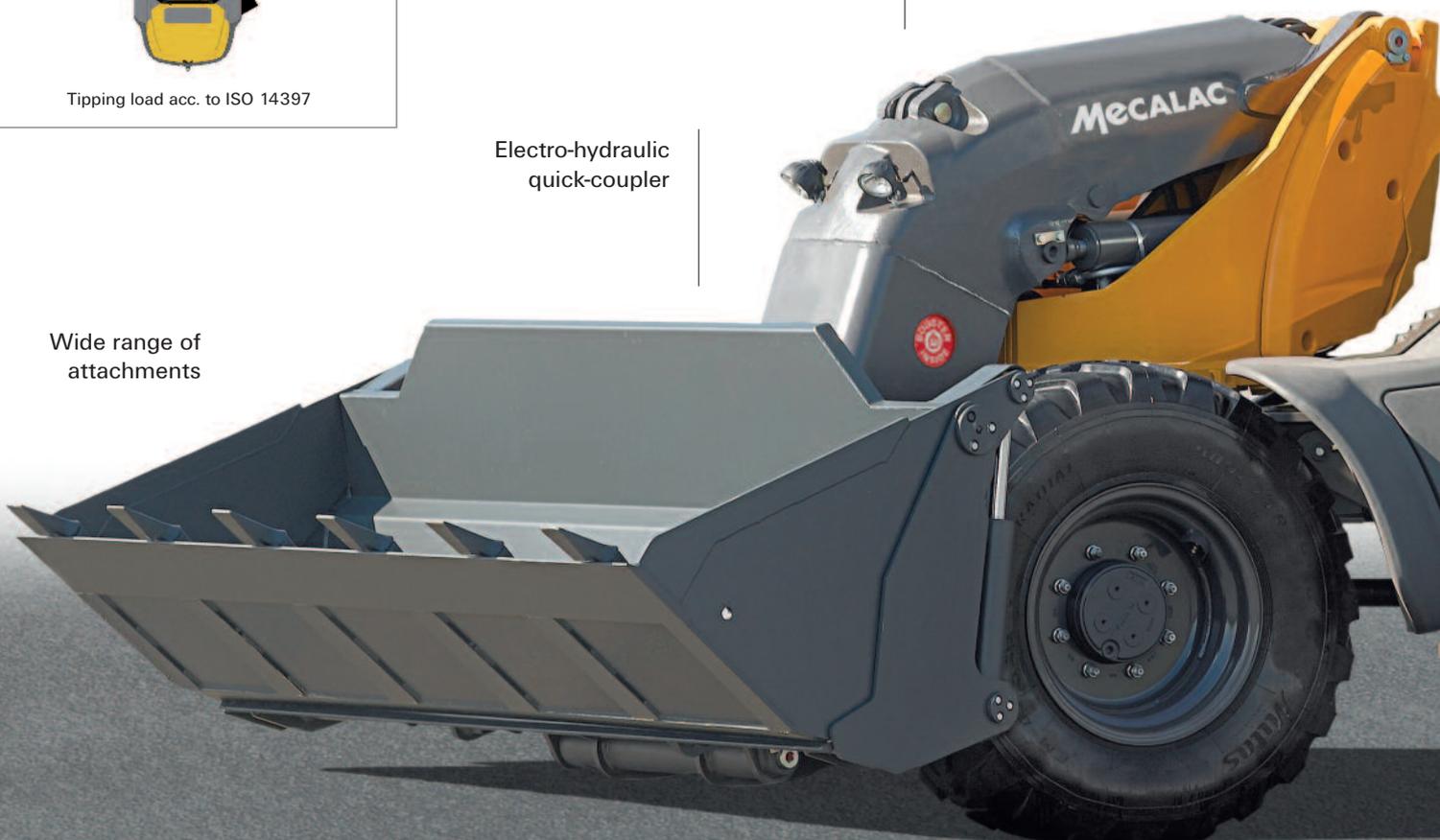
Tipping load acc. to ISO 14397

**Mecalac  
Single  
Arm  
Power**

Swing system with monoboom and **Booster** (increase of lifting power by 29%)

Electro-hydraulic quick-coupler

Wide range of attachments



# AT YOUR ADVANTAGES



The slender monoboom increases the working area between the wheels by 32%



2 doors for easy access on both sides

Mecalac  
Panorama  
Cab



Mecalac  
Four  
Wheel  
Steering

Four-wheel steering for maximum stability and best manoeuvrability



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# 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.



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# TECHNICAL DATA

Operating weight: 6640 kg  
Engine power: 55 kW  
Bucket capacity: 0.90 – 1.5 m<sup>3</sup>



## Engine

Low noise, water-cooled 4 cylinder Cummins diesel engine (emissions acc. to EU 97/68), 4-stroke, direct fuel injection

Net power at 2600 min<sup>-1</sup>  
acc. to SAE J 1995: 75 hp / 55 kW  
Option: 86 hp / 63 kW turbo with intercooler

Max. torque at: 1600 min<sup>-1</sup>  
acc. to SAE J 1995: 245 Nm

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

Cooling system: thermo-controlled hydrostatic fan

Electrical system:  
Operating voltage: 12 Volt  
Battery capacity: 88 Ah  
Alternator rating: 120 A 1680 Watt  
Starter rating: (3.0 hp) 2.2 kW

## Drive

Hydrostatic drive with automotive control, 2 stages for maximum propulsive force, shiftable under load, multifunctional lever (joystick) for drive and working hydraulics control

Axles: planetary axles with four-wheel steering for maximum manoeuvrability, oscillating rear axle with suspension

Differential lock: self-locking differential in front axle

Wheels: tyre size: 14.5-20  
optional: 405/70 R20

Speeds: Road gear: 0-20 km/h  
(optional: 30 or 40 km/h)

Oscillation: max. oscillation angle +/- 10°

## Brakes

Working brakes:  
1. hydrostatic inching brake, acting on all 4 wheels  
2. hydraulically operated oil-immersed wet lamella brake on front axle, acting on all 4 wheels

Parking brake:  
hydraulically operated spring loaded brake, acting on all 4 wheels

## Steering

Hydrostatic four-wheel steering with 3 steering modes (four-wheel, rear axle and crab steer)  
max. steering angle +/- 35°

Turning radius, measured over:  
\* rear 3450 mm

- Zero-play, chain operated 180° swing system
- Comfortable panoramic driver's cabin with ROPS safety system
- Servo-assisted joystick controls
- High-performance, power-controlled, hydrostatic four-wheel drive
- Four-wheel steering system with automatic alignment

## Hydraulic system

Dual-circuit system with gear pumps

1. Working hydraulics circuit (lift/lower, tilt, accessories), and steering (via priority valve); three-way control valve with primary and secondary safeguards  
Max. operating pressure at 2600 min<sup>-1</sup>: 84 l/min and 225 bar

2. Circuit (swivelling) single control valve with primary and secondary safeguards  
Max. operating pressure at 2600 min<sup>-1</sup>: 35 l/min and 220 bar  
Float position for lifting cylinders

Cylinder: 2 lifting cylinders 90 Ø  
1 tilting cylinder 110 Ø  
2 swing cylinders 100 Ø

Cycle-times: Lift (under load) 4.7 s  
Lower (w/o load) 3.6 s  
Crowd time 1.2 s  
Dump time (45°) 1.2 s  
Swivel time (90°) 3.0 s

## Performance data

Digging depth with standard bucket: 130 mm

Bucket position: Crowd angle 45°  
Dump angle top 45°  
Dump angle max. 105°

Lifting force: 5800 daN  
Lifting force with **boost**: 7500 daN  
Breakout force: 5400 daN  
Thrust force: 4500 daN

**Tipping load:**  
Standard bucket, max. steered, straight 3700 kg  
Standard bucket, max. steered, 90°-swivelled 3900 kg

**Payload on forks:**  
max. steered, frontal, even terrain 2300 kg  
max. steered, max. swivelled, even terrain 2300 kg  
max. steered, frontal, even terrain\* 2875 kg

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

## Chassis

Rigid, single-frame, robot welded 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. Innovative, slender **booster** boom with protected, internal kinematics as well as collision save internal lines, hoses and electrics. Standard electro-hydraulic quick-coupler with exact parallel guidance feature. The slender monoboom allows maximum utilization of the swing area and excellent visibility on working attachments. 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.

- Planetary axles with self-locking differential on front axle
- Low-maintenance wet lamella brake
- Monoboom with Z-Kinematics
- Increase of lifting power by **Booster**-Kinematics
- Hydraulically controlled quick-coupler with electric safety feature
- Wide range of attachments

## Filling capacities

Engine with filter	approx.	8.0 l
Fuel tank	approx.	130.0 l
Front axle total	approx.	11.0 l
Rear axle with gearbox	approx.	12.0 l
Hydraulic system with tank	approx.	134.0 l

## Standard features

Amply dimensioned ROPS panoramic comfort cabin with 2 lockable doors for easy entry from both sides. The large doors open through 180° within the contour of the loader and can be locked in 2 positions. Single piece floor mat for easy cleaning. Tinted windows, parallel guided windscreen wiper for maximum visibility, rear wiper, front and rear screen washing device, heated rear window, 2 large fold away outside mirrors, tinted roof window, steering column is adjustable in height and inclination, ergonomically adjustable joystick, multiply adjustable driver's seat with armrest and mechanical, weight adjustable suspension and safety belt. Sun visor, heating and ventilation system with fresh air filter and recirculation air function. Interior light, 12 V socket, coat hook, storage pockets in the cabin, storage box with lid, lockable storage compartment at the chassis. Central multifunctional display, symbolic displays and control lights, 2 driving lights on cabin roof, 2 working lights at monoboom, reversing lights, indicators, rear and brake lights, single key system. Hydraulic quick coupler with electric safety device, indicator for parallel position at monoboom, towing coupling, fastening and lifting points, 1<sup>st</sup> auxiliary hydraulics circuit integrating in the joystick. Color scheme: yellow, operator's cabin, axles and wheels: grey

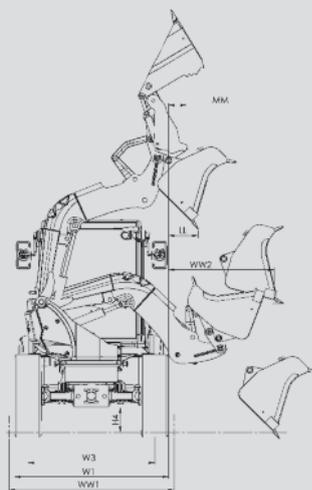
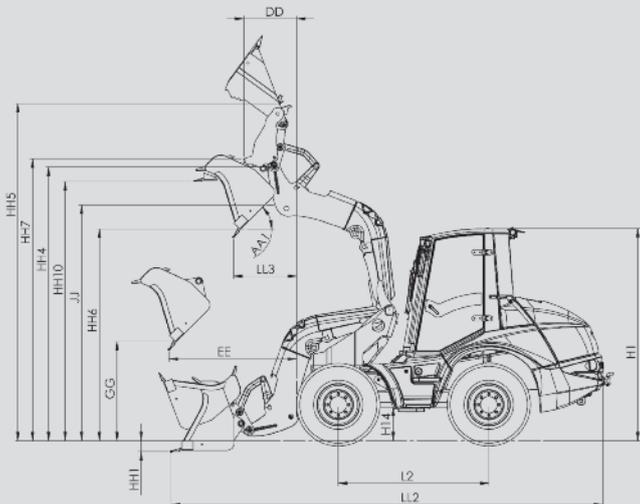
## Optional equipment

30 or 40 km/h version, wide tires, beacon light, interior mirror, acoustic back up alarm, FOPS grid for cabin roof, bucket protection cover compliant to road-safety standards, 2<sup>nd</sup> auxiliary hydraulics, permanent function for auxiliary hydraulics, high performance hydraulic, safety valves, boom suspension, bio-degradable oil fill for hydraulic system, radio, lifting height limiter, pressureless return line, inching speed, lockable differential on rear axle, air suspended driver's seat, air-conditioning system, immobilizer, heated rear mirrors, sliding windows right and left, main battery switch, 2 working lights rear, towing coupling complying to road regulations, rear mounting bracket, special corrosion protection for salt applications. Attachments as per separate list as pallet fork, load hook etc.

## Weight

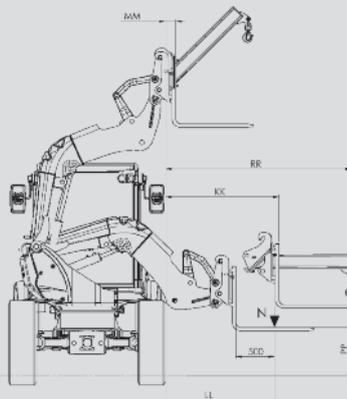
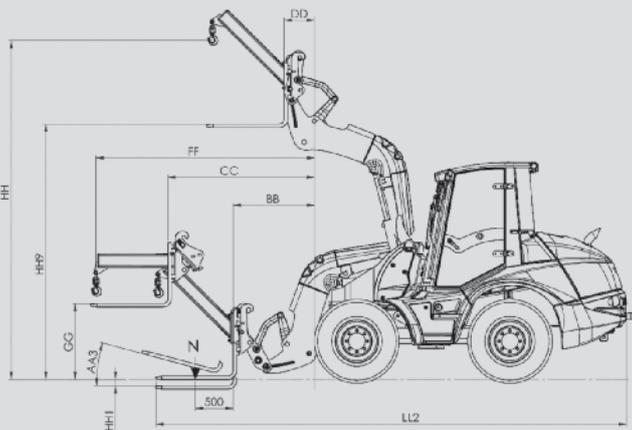
Machine with quick-coupler and standard bucket 0,9 m<sup>3</sup> with teeth: 6640 kg

Measurements

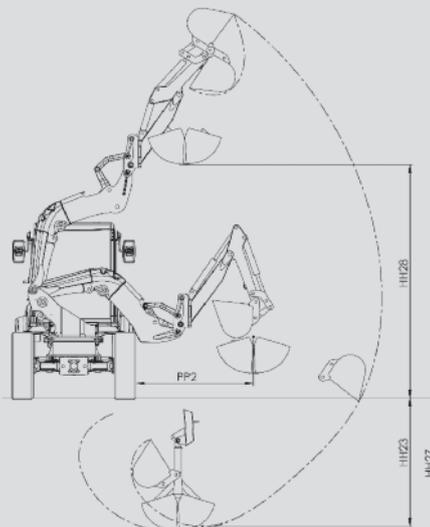
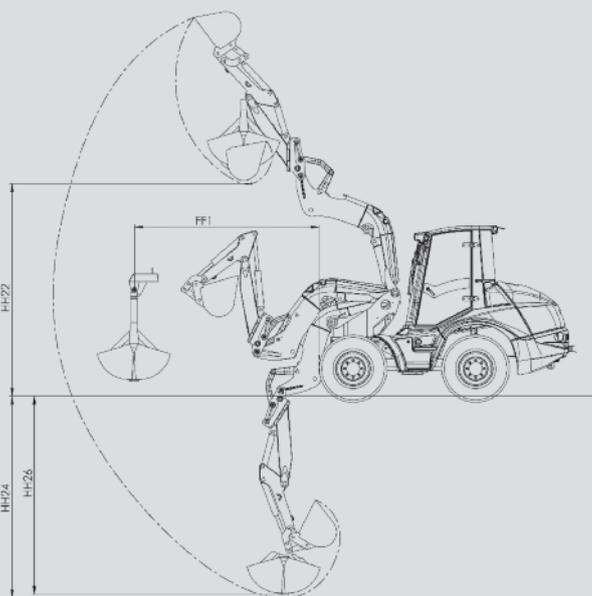


Buckets		
Standard	0.9 m <sup>3</sup>	4 x 1 0.85 m <sup>3</sup>
AA1	49°	46°
DD		920
EE	1660	1750
GG	940	1000
H1	2830	2830
H4	390	390
H14	440	440
HH1	150	110
HH4	3500	3500
HH5	4490	4470
HH6	2650	2600
HH7	3280	3270
HH10	3230	3210
JJ	3130	3120
L2	1980	1980
LL	740	740
LL2	5590	5560
LL3	940	1010
MM		650
W1	1990	1990
W3	1660	1660
WW1	2100	2100
WW2	1470	1390

All data measured at AA = 45°



	Forks	Load hook
AA3	19°	
BB	1050	
CC	1480	
DD	760	
FF		3030
GG	1440	
HH		4500
HH1	170	
HH9	3170	
KK	1010	
LL	1430	
LL2	6160	
MM	300	
PP	810	
RR		2560



	Excavator	Grab
FF1		2930
HH22	3330	
HH23	2020	
HH24	2660	
HH26		2680
HH27		1980
HH28		3140
PP2		2130

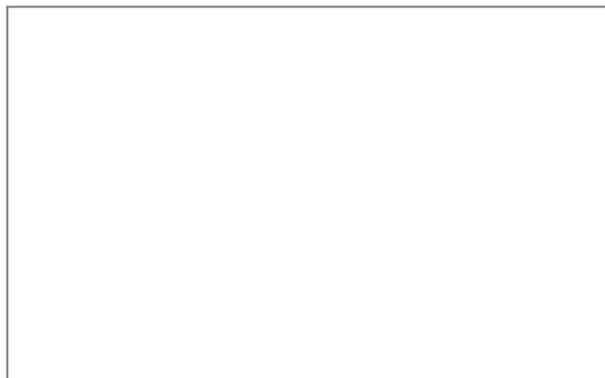
All data based on standard tyres. Technical data are non-committal and are subject to constructional modifications!



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

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](mailto:info@mecalac.de) · [www.mecalac.com](http://www.mecalac.com)  
A COMPANY OF GROUPE MECALAC S.A.