

Mecalac

SWING LOADER **AS 700**



> Experience of your worksite

SWING LOADER
AS 700

LET'S HAVE A LOOK

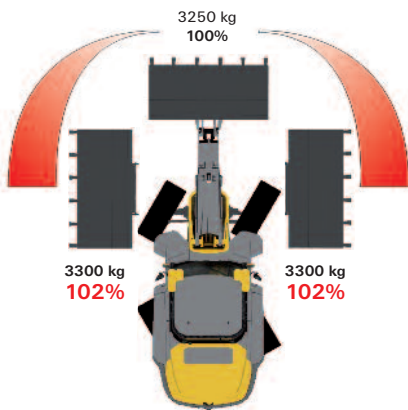
- **48 kW / 65 hp at 2600 rpm**
- **Max. tipping load steered and 90° swivelled: 3300 kg**
- **Max. swing range of 180° (2 x 90°) with all attachments**



Increase of lifting power by 30%



Tipping loads with standard bucket



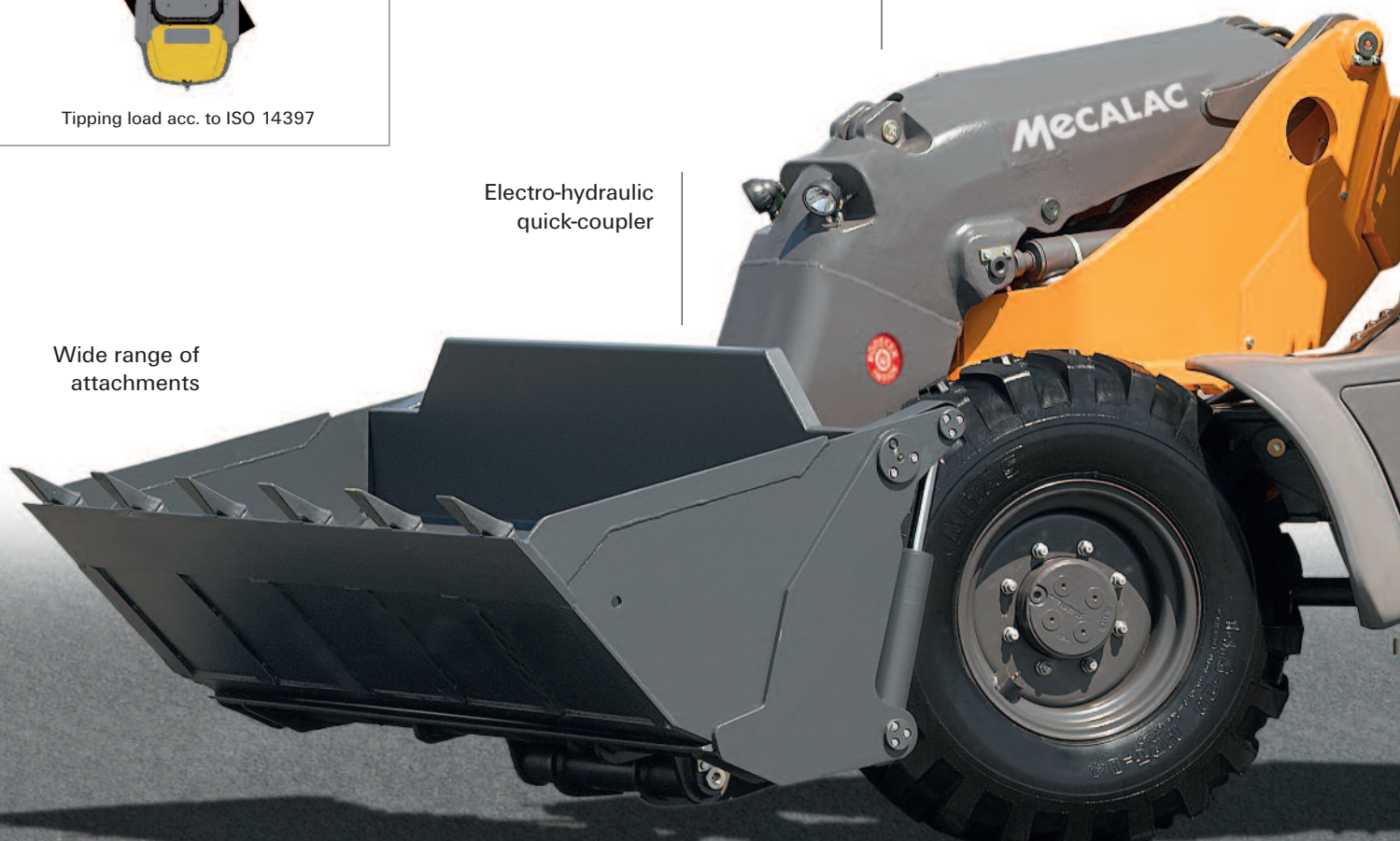
Tipping load acc. to ISO 14397

**Mecalac
Single
Arm
Power**

Swing system with monoboom and **Booster** (increase of lifting power by 30%)

Electro-hydraulic quick-coupler

Wide range of attachments



AT YOUR ADVANTAGES

3



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



Safe and easy access



Mecalac
Panorama
Cab



Mecalac
Four
Wheel
Steering

Four-wheel steering
for maximum
stability and best
manoeuvrability

SWING LOADER
AS 700

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.



SWING LOADER AS 700

TECHNICAL DATA

Operating weight: 5,980 kg
Engine power: 48 kW
Bucket capacity: 0.70 – 1.2 m³



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⁻¹
acc. to SAE J 1995: 65 hp / 48 kW
Max. torque at: 1600 min⁻¹
acc. to SAE J 1995: 214 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: 365/80 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 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 with automatic alignment (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⁻¹: 84 l/min and 225 bar

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

Max. operating pressure at 2600 min⁻¹: 35 l/min and 220 bar

Float position for lifting cylinders

Cylinder:	2 lifting cylinders	80 Ø
	1 tilting cylinder	100 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:	4600 daN
Lifting force with boost :	6000 daN
Breakout force:	4400 daN
Thrust force:	4500 daN

Tipping load:

Standard bucket,	
max. steered, straight	3250 kg
Standard bucket,	
max. steered, 90°-swivelled	3300 kg

Payload on forks:

max. steered, frontal, even terrain	1950 kg
max. steered, max. swivelled even terrain	1950 kg
max. steered, frontal, even terrain*	2450 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

Ample dimensioned ROPS panoramic comfort cabin with removable cabin top. The driver's door, which opens through 180°, and the large wide-opening side window can be locked within the machine contour. Tinted windows, electrical wipers front and rear incl. front and rear screen washers, heated rear window, 2 external rear-view mirrors, ergonomical adjustable joystick, multiply adjustable driver's seat, adjustable to driver's weight, safety belt, steering column is adjustable in inclination, sun visor, heating and ventilation system with fresh air filter. Interior light, 12 V socket, storage pockets in the cabin, lockable storage compartment at the chassis. Central multifunctional display, symbolic displays and control lights, 2 driving lights, 2 working 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 bucket position, towing coupling, fastening and lifting points, 1st auxiliary hydraulics circuit integrated in the joystick. Color scheme: yellow, operator's cabin, axles and wheels grey

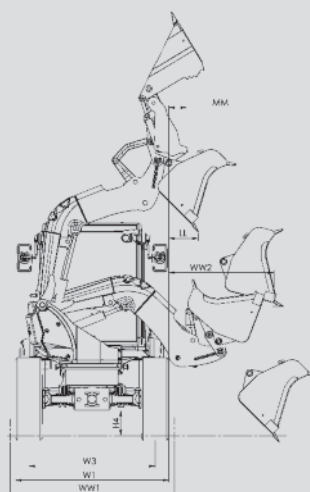
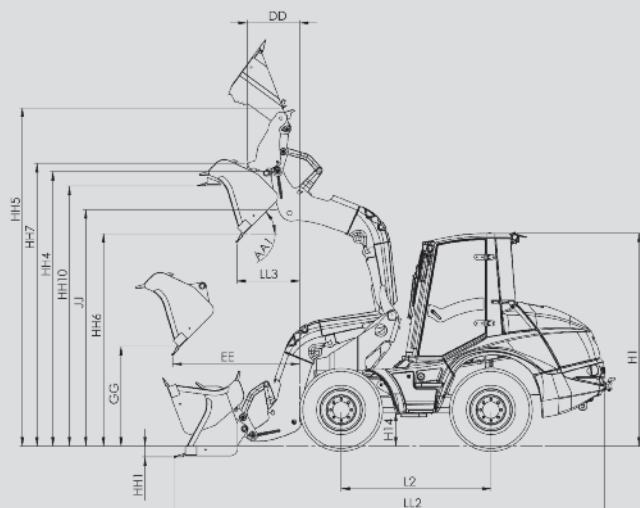
Optional equipment

30 or 40 km/h version, wide tyres, beacon light, interior mirror, acoustic back up alarm, FOPS grid for cabin roof, bucket protection cover compliant to road-safety standards, permanent function for auxiliary hydraulics, high performance hydraulic, safety valves, boom suspension, bio-degradable oil fill for hydraulic system, radio, pressureless return line, inching speed, lockable differential on rear axle, immobilizer, glove box compartment with cover, 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 forks, load hook etc.

Weight

Machine with quick-coupler and standard bucket 0.7 m³ with teeth:	5980 kg
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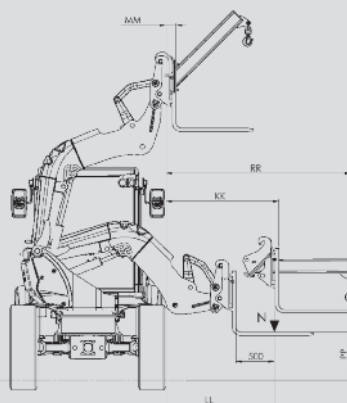
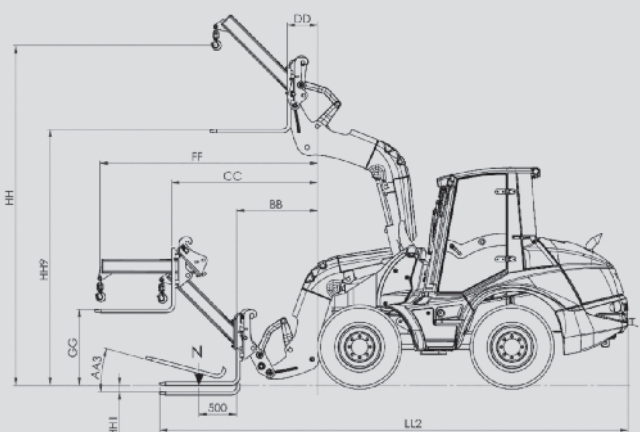
Measurements



Buckets

	Standard 0.7 m³	4 x 1 0.65 m³
AA1	49°	46°
DD		920
EE	1630	1750
GG	1020	1070
H1	2680	2680
H4	390	390
H14	440	440
HH1	130	85
HH4	3500	3500
HH5	4520	4500
HH6	2720	2700
HH7	3280	3270
HH10	3230	3210
JJ	3130	3120
L2	1980	1980
LL	730	730
LL2	5550	5520
LL3	910	910
MM		720
W1	1950	1950
W3	1590	1590
WW1	1950	1950
WW2	1460	1380

All data measured at AA = 45°

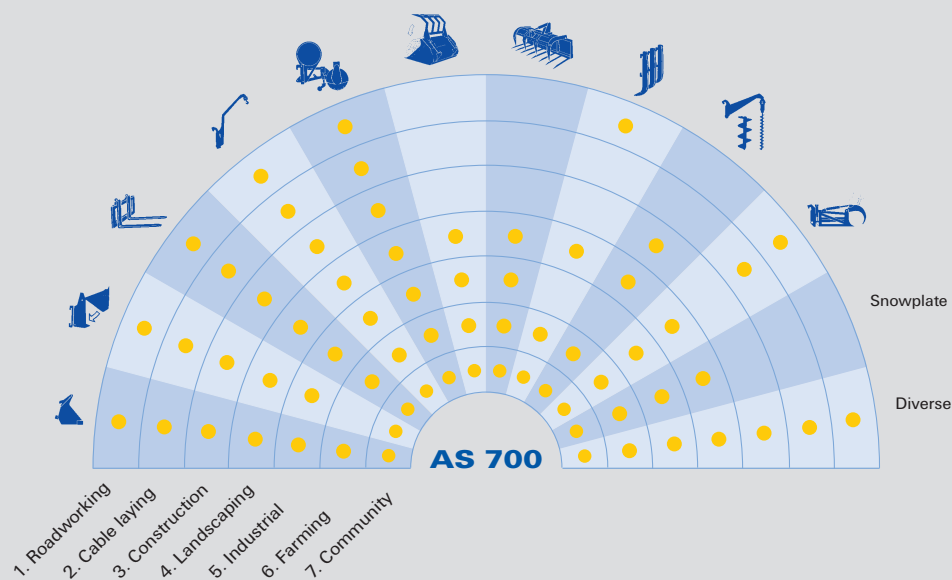


Forks

Load hook

	Forks	Load hook
AA3	19°	
BB	1030	
CC	1460	
DD	740	
FF		3010
GG	1460	
HH		4520
HH1	150	
HH9	3190	
KK	1090	
LL	1510	
LL2	6160	
MM	380	
PP	880	
RR		2630

Range of attachments



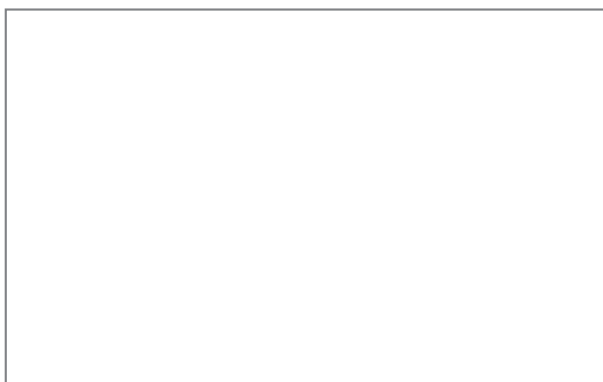
All data based on standard tyres.
Technical data are non-committal and
are subject to constructional modifications!



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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