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EN

MECALAC

AS1600

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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, telescopic and 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.

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LET'S HAVE A LOOK AT YOUR + ADVANTAGES

- AIR CONDITIONING SYSTEM
- RIGID CHASSIS
- LOAD SENSING HYDRAULIC SYSTEM WITH FLOWSHARING
- HYDROSTATIC TRACTION DRIVE WITH MDRIVE
- FOUR-WHEEL STEERING FOR MAX. STABILITY AND EXCELLENT MANOEUVRABILITY
- INTUITIVE OPERATING CONCEPT
- SWIVELLING BUCKET ARM WITH POWERFUL Z^{PLUS}-KINEMATICS
- ELECTRO-HYDRAULIC QUICK-COUPLER
- OPTIMAL ACCESS TO ALL SERVICE POINTS

FIRM GRIP ON YOUR WORKSITE WITH POWERFUL SWING LOADER

Mecalac swing loaders are compact, versatile, comfortable, safe and extremely powerful. They are characterised by the highest stability paired with maximum agility and efficiency for every worksite. They allow work tasks to be completed faster and therefore more productively.

The key to productivity is that you can simultaneously drive, steer and swing while performing your daily loading work.

The AS1600 is the flagship in the 11-ton class. It was developed as a professional swing loader to meet the highest demands.

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SWING RANGE OF 180° + WITHOUT TIPPING LOAD LOSS

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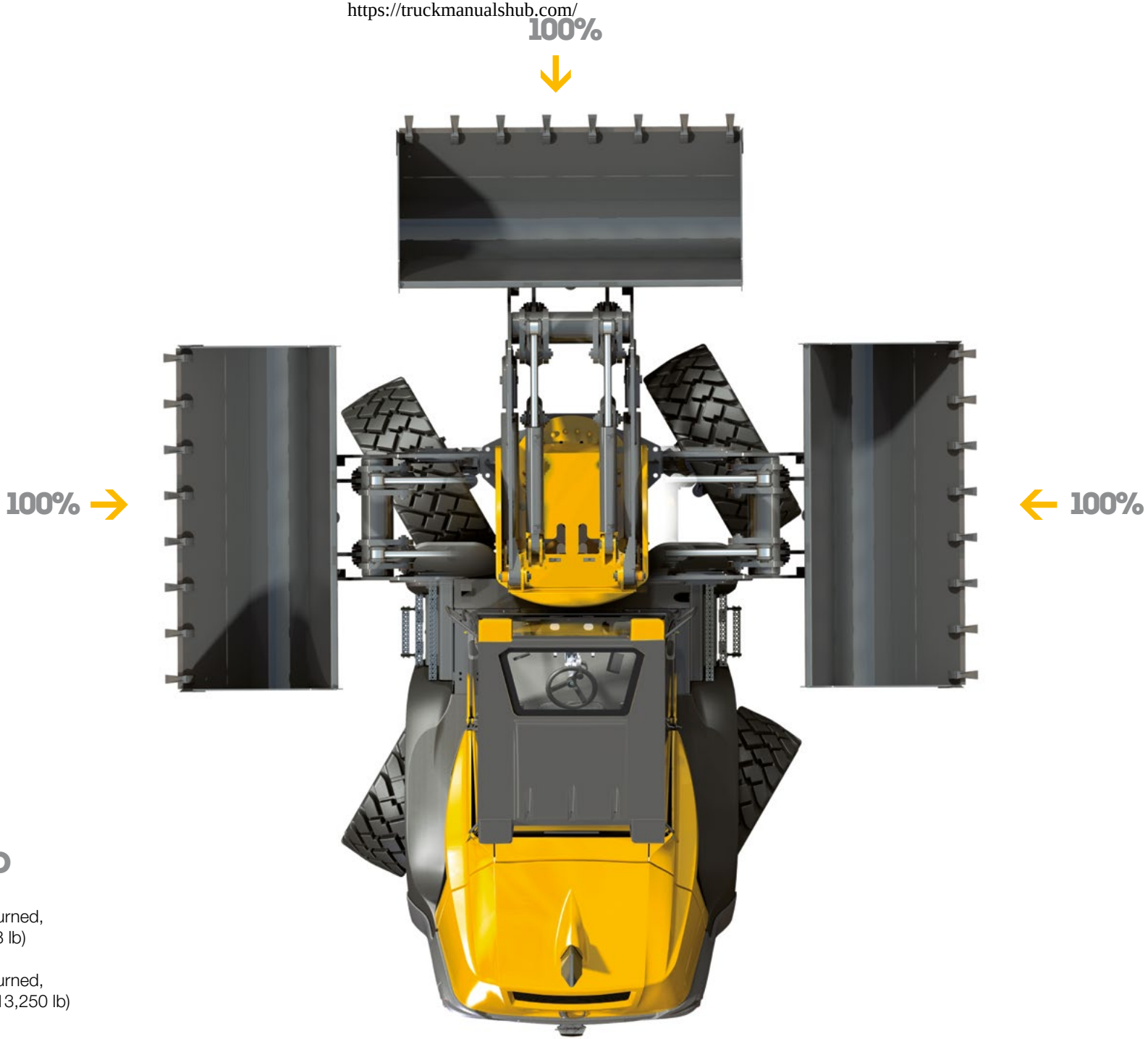

TIPPING LOAD

Standard bucket, max. turned, straight: 6000 kg (13,228 lb)

Standard bucket, max. turned, 90°-swivelled: 6010 kg (13,250 lb)

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TECHNICAL DATA

DATA	
Operating weight	**10,920 kg** (24,074 lb)
Engine power	**100 kW** (136 hp / 134 imperial hp)
Bucket capacity	**1.6 – 2.5 m³** (2.1 - 3.3 yd³)

- 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 axle
- Low-maintenance wet lamella brakes in front and rear axle
- Z^{plus}-kinematics with precise parallel lifting
- Electro-hydraulic quick-coupler
- Wide range of attachments

ENGINE	
Low-noise, water-cooled Deutz TCD 3,6 L4 turbo diesel engine with intercooler. Common Rail injection system, cooled external exhaust gas recirculation, diesel oxidation catalyst (DOC) and selective catalytic reduction. No regeneration necessary.	•
Net power at acc. to ISO 14396	2200 rpm 100 kW (136 hp / 134 imperial)
Max. torque at acc. to ISO 14396	1600 rpm 500 Nm
Air intake filter: 2-level dry-air filter with safety cartridge	•
Electrical system: -Operating voltage -Battery capacity -Alternator rating	 24 V 2 x 95 Ah 100 A

DRIVE	
Hydrostatic drive with automotive control including MDRIVE (hand throttle and inching speed can be coupled to the pedal), 3 stages (jolt-free), multifunctional lever (joystick) for drive and working hydraulics control	•
Axles: planetary axles with four-wheel steering for maximum flexibility, oscillating rear axle	•
Differential lock: Automatic self-locking differential in front axle	•
Wheels: tire size -optionally -optionally	17,5-25 17,5 R25 550/65 R25
Speeds: -road gear -field gear	 0-20 km/h (0-12 mph) 0-15 km/h (0-9 mph)
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 4-wheel steering with automatic alignment (4 steering modes: 4-wheel, front wheel, crab and reduced crab steering)	
max. steering angle	+/-35°
Turning radius measured over rear end	R = 4350 mm (14'3")

HYDRAULIC SYSTEM	
Dual-circuit system	
1. Load sensing working hydraulics circuit (lift/lower, tilt, accessories), and swivel function (via priority valve); four-fold control valve with primary and secondary protection; with servo-controlled joystick operation Max. operating pressure at 2200 rpm: max. oil flow for auxiliary hydraulics	 138 l/min (36,46 gal/min) and 235 bar (3408 PSI)
2. Circuit constant pump (swivelling), single control valve with primary and secondary protection	•
Float position for lifting cylinders	•
Boom suspension	•

PERFORMANCE DATA	
Bucket position:	
Tilting angle	45°
Dumping angle, top	53°
Lifting force:	6900 daN (15,511 lbf)
Breakout force:	8000 daN (17,984 lbf)
Thrust force:	9000 daN (20,232 lbf)
Tipping load:	
Standard bucket, max. turned, straight	6000 kg (13,228 lb)
Standard bucket, max. turned, 90°-swivelled	6010 kg (13,250 lb)
Payload:	
on forks, max. turned, frontal, even terrain	4125 kg (9,094 lb)
on forks, max. turned, max. swivelled, even terrain	3945 kg (8,697 lb)
Tipping load according to ISO 14397, payload according to EN 474-3	

FILLING CAPACITIES	
Engine with filter	approx. 8 l (2.1 gal)
Fuel tank	approx. 150 l (39.6 gal)
AdBlue ®-tank	approx. 10 l (2.6 gal)
Front axle	approx. 21 l (5.5 gal)
Rear axle	approx. 18.5 l (4.9 gal)
Hydraulic system with tank	approx. 160 l (42.3 gal)
Distributor gear	approx. 3.4 l (0.9 gal)

NOTE: METRIC MEASUREMENTS ARE THE CRITICAL VALUES
• 1 Litre = 0.26417 US Liquid Gallons • 1 Litre = 0.21997 Imperial Liquid Gallons

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TECHNICAL DATA

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	•
Swing boom system with Z^{plus}-kinematics with precise parallel lifting	•
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	
Amply dimensioned ROPS panoramic comfort cabin. The driver's door, which can be opened by 150 °, and the large, wide-opening side windows can be locked within the machine contours.	•
Air-conditioning system	•
Single piece floor mat for easy cleaning	•
Tinted windows	•
Parallel guided windscreen wiper	•
Rear wiper	•
Front and rear screen washing device	•
Heated rear window	•
2 large fold away outside mirrors	•
Roof hatch	•
3-Step drive selector switch	•
Intuitive modular control panel with onboard computer for machine monitoring and machine settings like: * Flow volume of auxiliary hydraulic function * Selection of the speed in the low gear	•
Speedometer	•
Steering column is adjustable in height and inclination	•
Ergonomically adjustable joystick	•
Multiply adjustable driver's seat	•
Safety belt	•
Sun visor	•
Heating and ventilation system with recirculation air function	•
Main battery switch	•
Interior light	•
Socket	24 V
Coat hook	•
Storage pockets in the cabin	•
Lockable storage compartment at the chassis	•
2 driving lights on cabin roof	•
2 working lights rear	•
2 working lights at monoboom	•
Single key system	•
Hydraulic quick coupler with electric safety device	•
Towing coupling	•
Fastening and lifting points	•
Proportional 1st and 2nd auxiliary hydraulics circuit is integrated in the joystick	•
Color scheme	yellow
Operator's cabin, axles and wheels	grey

OPTIONAL EQUIPMENT	
Version	40 km/h (25 mph)
Wide tires	•
Beacon light	•
Interior mirror	•
Acoustic back up alarm	•
FOPS grid for cabin roof	•
Permanent function for auxiliary hydraulics	•
Safety valves	•
Bio-degradable oil fill for hydraulic system	•
Pressureless return line	•
Left joystick	•
Lockable differential on rear axle	•
Air suspended driver's seat	•
Radio	•
Immobilizer	•
Special corrosion protection for salt applications	•
Attachments as per separate list as pallet fork, load hook etc.	•

EMISSIONS	
Engine: emissions according to stage IV - EU-RL 97/68	•
Noise emission:	
- Sound power level LWA[1]	102 dB(A)
- Acoustic power level LpA[2]	75 dB(A)
Vibrations:	
- Vibration total value[3]	< 2.5 m (8'2")/s^2
- Effective vibration level[4]	< 0.5 m (1'7")/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

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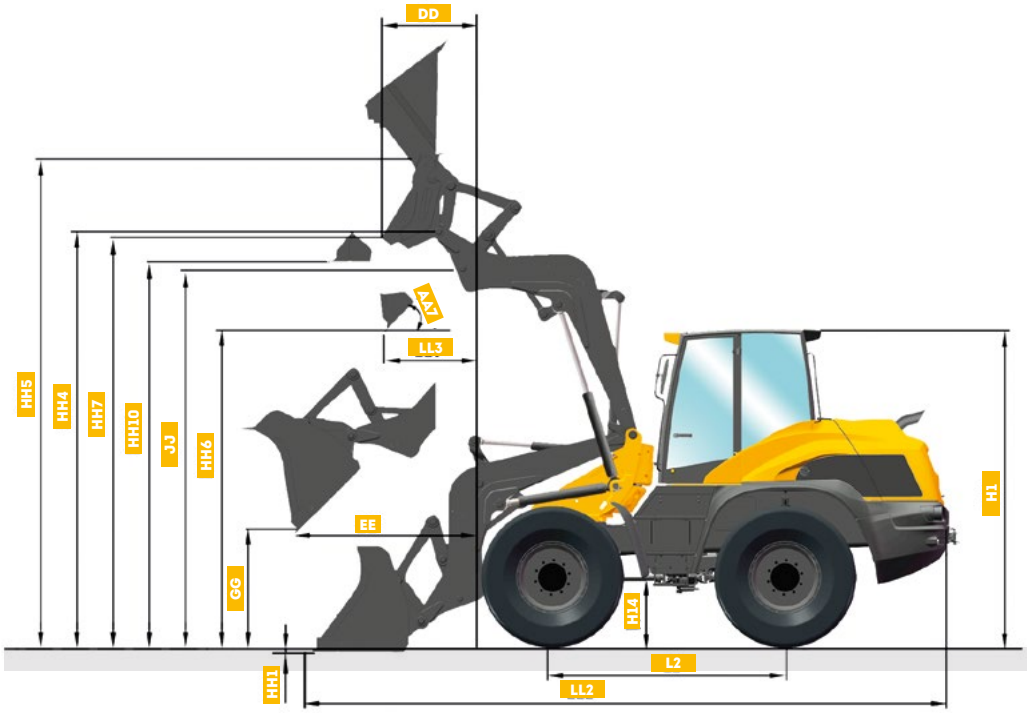
TECHNICAL DATA



MACHINE DIMENSIONS		
BUCKET	STD. 1.6 m³ (2.1 yd³)	4x1 - 1.6 m³ (2.1 yd³)
AA1	53°	53°
DD	-	790 mm (2'7.1")
EE	1915 mm (6'3.4")	1995 mm (6'6.5")
GG	1100 mm (3'7.3")	1035 mm (3'4.7")
H1	3100 mm (10'2")	3100 mm (10'2")
H4	440 mm (1'5.3")	440 mm (1'5.3")
H14	500 mm (1'7.7")	500 mm (1'7.7")
HH1	110 mm (0'4.3")	110 mm (0'4.3")
HH4	3985 mm (13'0.9")	3985 mm (13'0.9")
HH5	4975 mm (16'3.9")	4950 mm (16'2.9")
HH6	3100 mm (10'2")	3010 mm (9'10")
HH7	-	3910 mm (12'9.9")

MACHINE DIMENSIONS		
BUCKET	STD. 1.6 m³ (2.1 yd³)	4x1 - 1.6 m³ (2.1 yd³)
HH10	3750 mm (12'3.6")	3750 mm (12'3.6")
JJ	3390 mm (11'1.5")	3390 mm (11'1.5")
L2	2280 mm (7'5.8")	2280 mm (7'5.8")
LL	550 mm (1'9.7")	610 mm (2'0")
LL2	6580 mm (21'7.1")	6570 mm (21'6.7")
LL3	1070 mm (3'6.1")	1140 mm (3'8.9")
MM	-	370 mm (1'2.6")
W1	2460 mm (8'0.9")	2460 mm (8'0.9")
W3	1980 mm (6'6")	1980 mm (6'6")
WW1	2480 mm (8'1.6")	2480 mm (8'1.6")
WW2	1495 mm (4'10.9")	1555 mm (5'1.2")

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TECHNICAL DATA

MACHINE DIMENSIONS	FORK	LOAD HOOK
AA3	25°	-
BB	940 mm (3'1")	-
CC	1535 (5'0.4")	-
DD	680 (2'2.8")	-
FF	-	3255 (10'8.1")
GG	1750 (5'8.9")	-
HH	-	5145 (16'10.6")
HH1	60 (0'2.4")	-
HH9	3735 (12'3")	-
KK	1110 (3'7.7")	-
LL	1415 (4'7.7")	-
LL2	7015 (23'0.2")	6515 (21'4.5")
MM	305 (1'0.4")	-
PP	780 (2'6.7")	-
RR	-	2845 (9'4")

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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