

MecALAC

AF



MecALAC





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.

Thanks to their four-wheel steering, they feature an unsurpassed tipping load stability. A spacious operator's cabin, a great number of options, top performance data and easy maintenance make the machines an all-round power pack for professional use.

# EXPERIENCE OF YOUR WORKSITE

# AF 1050 / AF 1200

**INNOVATION,  
PERFORMANCE AND TOP  
QUALITY ARE THE KEY TO  
CUSTOMER SATISFACTION**

The four-wheel steered AF series featuring a rigid chassis is characterised by high power, safety and comfort. The sleek Monoboom protects the inside components and enables a good view on the attachments. The small turning radius made possible by the four-wheel steering ensures fast work cycles in most confined spaces.

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

# SUMMARY



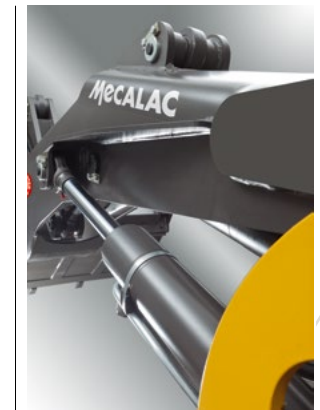
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**LET'S HAVE A LOOK  
AT YOUR ADVANTAGES**



**8**

**MECALAC  
MONOBOOM**

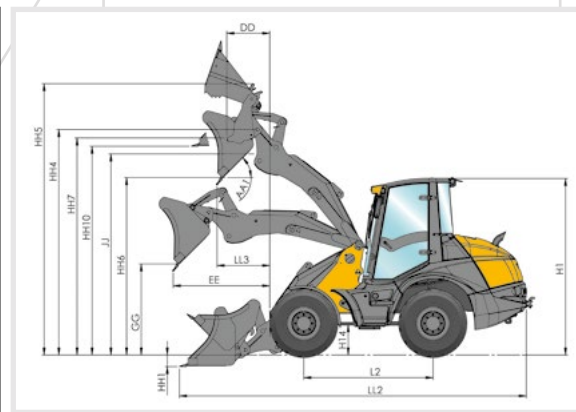




## 10 MECALAC FOUR WHEEL STEERING



## 12 TECHNICAL DATA



# LET'S HAVE A LOOK AT YOUR **+** ADVANTAGES

## TOP PERFORMANCE AND PRECISION IN MOST CONFINED SPACES

The compact AF series with bucket volumes of 1.4 - 2.6 yd<sup>3</sup> is ideal for demanding tasks. The rigid chassis with four-wheel steering makes these machines extremely safe. This means, there is no tipping load loss when the loader is in a fully steered position. The panorama cabin with comfort seat offers an excellent all-round vision. A 25 mph version (option) and the agile four-wheel steering are a perfect basis for fast and precise work cycles.

- **2 DOORS FOR EASY ACCESS ON BOTH SIDES**
- **RIGID CHASSIS**
- **FOUR-WHEEL STEERING FOR MAX. STABILITY AND EXCELLENT MANOEUVRABILITY**
- **MONOBOOM WITH POWERFUL AND PROTECTED Z-KINEMATICS**
- **INCREASED LIFTING POWER WITH BOOSTER KINEMATICS**
- **ELECTROHYDRAULIC BRAND-COMPATIBLE QUICK-COUPLER**
- **OPTIMAL ACCESS TO ALL SERVICE POINTS**
- **WIDE RANGE OF ATTACHMENTS**





## FOCUS ON INNOVATION

### PRACTICAL DESIGN

The Monoboam designed by MECALAC is a real innovation. It stands out by two key features: The large and bulky normal loader boom shape was converted into a sleek, elegant design offering the operator an improved view on the attachments and the work environment. This facilitates to comfortable and safe working.

The MECALAC Slide Roof Boom Construction also protects cylinders, cables and hydraulic hoses against atmospheric conditions and dropping material. At the same time, the components' service life can be increased considerably.





## BOOSTER INSIDE

During loading, the additional compensation cylinder integrated in the Monoboom can increase the lifting force by up to 30%. Paired with the Z-Kinematics ensuring high tearing forces and optimum parallel lifting, this provides to more power for your daily work tasks without increased fuel consumption.

This power boost is particularly noticeable when loading bulk goods. Fast cycles and an unrivalled view on the attachments make daily work even more efficient. The powerful auxiliary hydraulics also let you operate, for example, road sweepers or plate compactors.



**PROFES-  
SIONAL**





**STABLE**

**MECALAC FOUR-WHEEL STEERING**



**100%  
FUNCTIONAL**

## COMPACT & AGILE

The extremely robust rigid chassis with four-wheel steering is the basis for maximum stability at maximum performance because the footprint remains unchanged at all times. In other words, there is no tipping load loss when the loader is in a steered position. A small turning radius ensures optimum agility, even on most confined worksites. Less steering and driving motion reduces ground compaction.

The Monoboam adds to the famed agility and flexibility of the loader that lets you quickly and efficiently complete every task. It is the interplay of our MECALAC technologies that distinguishes our loaders and has made them so successful until today.

Flexibility. Performance. Safety.





	AF 1050	AF 1200
OPERATION WEIGHT:	12,786 LBS (5800 KG)	13,230 LBS (6000 KG)
ENGINE POWER:	55 KW / 75 HP	55 KW / 75 HP
BUCKET CAPACITY:	1.40 – 2.00 yd <sup>3</sup> (1.05 – 1.50 m <sup>3</sup> )	1.60 – 2.60 yd <sup>3</sup> (1.20 – 2.00 m <sup>3</sup> )

- COMFORTABLE PANORAMIC DRIVER'S CABIN WITH ROPS SAFETY SYSTEM
- JOYSTICK CONTROLS
- SERVO-ASSISTED WORKING HYDRAULICS
- HIGH-PERFORMANCE, POWER CONTROLLED, HYDROSTATIC FOUR-WHEEL DRIVE
- FOUR-WHEEL STEERING SYSTEM WITH AUTOMATIC ALIGNMENT
- PLANETARY AXLES WITH SELF-LOCKING DIFFERENTIAL ON FRONT AXLE
- MONOBOOM WITH Z-KINEMATICS
- INCREASE OF LIFTING POWER BY BOOSTER-KINEMATICS
- HYDRAULICALLY CONTROLLED QUICK-COUPLER WITH ELECTRIC SAFETY FEATURE
- BRAND COMPATIBLE QUICK-COUPLER
- WIDE RANGE OF ATTACHMENTS

ENGINE	AF 1050	AF 1200
Low-noise, water-cooled Deutz TCD 2,9 L4 turbo diesel engine with intercooler. Compliant to EPA Tier 4 regulations. Common Rail injection system, cooled external exhaust gas recirculation and diesel oxidation catalyst (DOC). No regeneration necessary.	•	•
Net power at:	2600 rpm	2600 rpm
acc. to ISO 14396	75 hp / 55 kW	75 hp / 55 kW
Max. torque at:	1600 rpm	1600 rpm
acc. to ISO 14396	221 lb ft (300 Nm)	221 lb ft (300 Nm)
Air intake filter:		
2-level dry-air filter with safety cartridge	•	•
Electrical system:		
Operating voltage:	12 Volt	12 Volt
Battery capacity:	12 Volt (95 Ah)	12 Volt (95 Ah)
Alternator rating:	12 Volt (120 Ah)	12 Volt (120 Ah)

DRIVE	AF 1050	AF 1200
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: standard: optional:	14.5-20 405/70 R20	16/17-20 405/70 R20
Speeds: Road gear:	0-12 mph (0-20 km/h)	0-12 mph (0-20 km/h)
Option:	0-25 mph (0-40 km/h)	0-25 mph (0-40 km/h)
Field gear:	0-3 mph (0-5 km/h)	0-3 mph (0-5 km/h)
Oscillation: max. oscillation angle	+/- 10°	+/- 10°

BRAKES	AF 1050	AF 1200
Working brakes: 1. hydrostatic inching brake, acting on all 4 wheels 2. hydraulically operated, servo-assisted disc brake, acting on all four wheels (30/40 km/h versions: oil-immersed multiple disc brake) on front axle, acting on all 4 wheels	• •	• •
Parking brake: mechanical actuated disc brake on front axle (30/40 km/h versions: Spring loaded brake), acting on all 4 wheels	•	•

STEERING	AF 1050	AF 1200
Hydrostatic four-wheel steering with 3 steering modes: four-wheel/rear axle and crab steer	•	•
max. steering angle	+/- 35°	+/- 35°
Turning radius: Measured over rear	12'2" (3700 mm)	12'2" (3700 mm)

HYDRAULIC SYSTEM	AF 1050	AF 1200
Single circuit working hydraulics with gear pump (lift/lower, tilt, accessories), and steering (via priority valve); three-way control valve with primary and secondary safeguards	•	•
Performance max. at 2600 rpm:	21.84 gpm (84 l/min) and 3,263 psi (225 bar)	21.84 gmp (84 l/min) and 3,263 psi (225 bar)
Floating position for boom cylinders Cylinder: 2 lifting cylinders 1 tilting cylinder	• •	• •

PERFORMANCE DATA	AF 1050	AF 1200
Bucket position: Crowd angle Dump angle top	45° 45°	45° 45°
Lifting force:	12,140 lbf (5400 daN)	14,837 lbf (6600 daN)
Breakout force:	11,016 lbf (4900 daN)	11,016 lbf (4900 daN)
Thrust force:	10,454 lbf (4650 daN)	10,454 lbf (4650 daN)
Tipping load: Standard bucket, max. steered, straight	8,378 lbs (3800 kg)	9,480 lbs (4300 kg)
Payload: on forks, max. steered, frontal, even terrain	5,512 lbs (2500 kg)	6,327 lbs (2870 kg)

Tipping load according to ISO 14397. Payload according to EN 474-3

FILLING CAPACITIES	AF 1050	AF 1200
Engine with filter	approx. 2.11 gal (8.0 l)	approx. 2.11 gal (8.0 l)
Fuel tank	approx. 34.34 gal (130.0 l)	approx. 34.34 gal (130.0 l)
Front axle total	approx. 2.91 gal (11.0 l)	approx. 2.91 gal (11.0 l)
Rear axle with gearbox	approx. 3.17 gal (12.0 l)	approx. 3.17 gal (12.0 l)
Hydraulic system with tank	approx. 35.40 gal (134.0 l)	approx. 35.40 gal (134.0 l)

CHASSIS	AF 1050	AF 1200
Rigid, single-component chassis for maximum stability, independent of steering position	•	•
Innovative Booster boom with protected, internal kinematics as well as collision save internal lines, hoses and electrics	•	•
Standard, brand compatible electrohydraulic quick-coupler with exact parallel guidance feature	•	•
The monoboom concept guarantees optimum visibility to 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	•	•

STANDARD FEATURES	AF 1050	AF 1200
Amplly 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	•	•
Big, single piece floor mat for easy cleaning	•	•
Tinted windows	•	•
Parallel guided windscreen wiper for maximum visibility	•	•
Rear wiper	•	•
Front and rear screen washing device	•	•
Heatable 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	•	•
Main battery switch	•	•
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	•	•
Brand compatible hydraulic quick-coupler with electric safety device	•	•
Indicator for parallel position at monoboom	•	•
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	AF 1050	AF 1200
30 or 40 km/h version	o	o
Wide tyres	o	o
Beacon light	o	o
Interior mirror	o	o
Acoustic back up alarm	o	o
FOPS grid for cabin roof	o	o
2nd auxiliary hydraulics	o	o
Permanent function for auxiliary hydraulics	o	o
High performance hydraulic	o	o
Safety valves	o	o
Boom suspension	o	o
Bio-degradable oil fill for hydraulic system	o	o
Radio	o	o
Lifting height limiter	o	o
Pressureless return line	o	o
Inching speed	o	o
Lockable differential on rear axle	o	o
Air suspended drivers seat	o	o
Air-conditioning system	o	o
Immobilizer	o	o
Heatable rear mirrors	o	o
Sliding windows right and left	o	o
2 working lights rear	o	o
Towing coupling complying to road regulations	o	o
Rear mounting bracket	o	o
Special corrosion protection for salt applications	o	o
Attachments as per separate list as pallet fork, load hook etc.	o	o

EMISSIONS	AF 1050	AF 1200
Engine: Emissions according to stage III B - EU-RL 97/68	•	•
Noise emission:		
Sound power level LWA <sup>1</sup>	100 dB(A)	100 dB(A)
Acoustic power LpA <sup>2</sup>	74 dB(A)	74 dB(A)
Vibrations:		
Vibration total value <sup>3</sup>	< 2.5 m/s <sup>2</sup>	< 2.5 m/s <sup>2</sup>
Effective vibration level <sup>4</sup>	< 0.5 m/s <sup>2</sup>	< 0.5 m/s <sup>2</sup>

<sup>1</sup> According to 2000/14/EG

<sup>2</sup> According to ISO 6396

<sup>3</sup> According to ISO/TR 25398

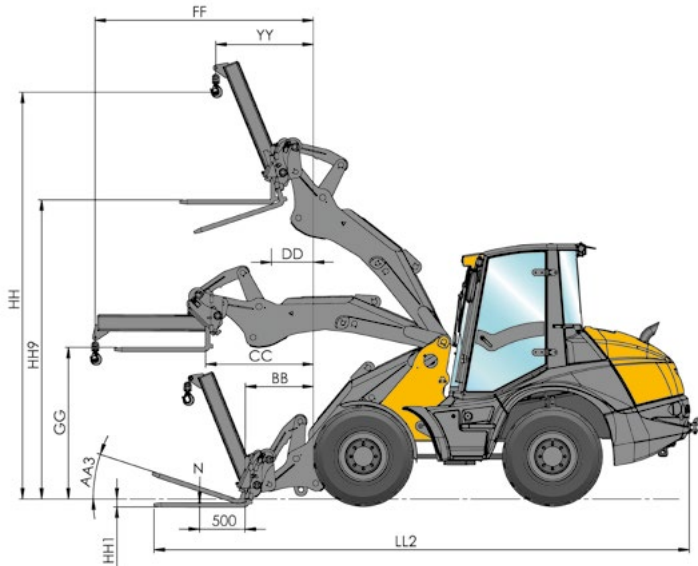
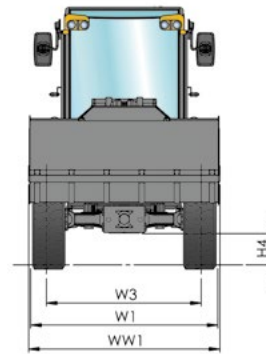
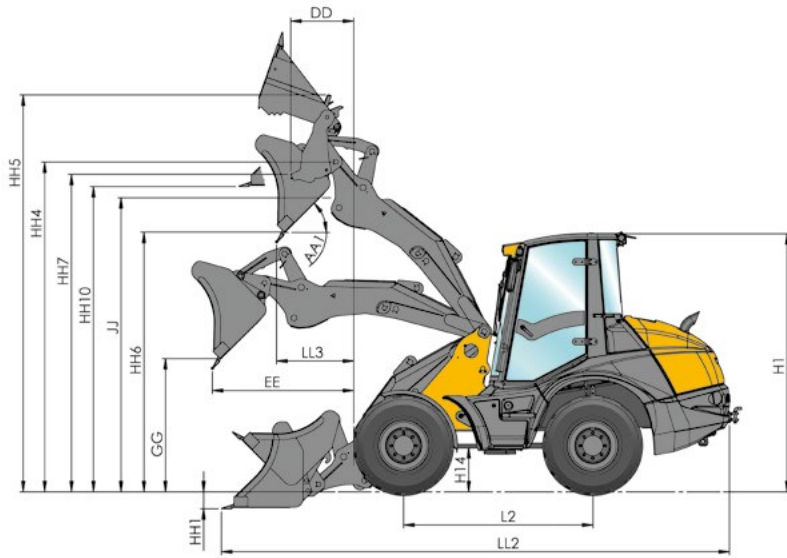
<sup>4</sup> According to ISO/TR 25398

All data based on standard tires.

All data are non-binding.

Changes are reserved without notice.

The order confirmation is exclusively decisive.



AF 1050		AF 1200	
BUCKETS		BUCKETS	
STD. 1.40 yd <sup>3</sup> (1.05 m <sup>3</sup> )	45°	4 x1 1.31 yd <sup>3</sup> (1.00 m <sup>3</sup> )	43°
AA1	45°		43°
DD		1'1" (570 mm)	
EE	5'3" (1610 mm)	5'12" (1820 mm)	
GG	2'10" (875 mm)	2'6" (765 mm)	
H1	9'4" (2840 mm)	9'4" (2840 mm)	
H14	1'5" (420 mm)	1'5" (420 mm)	
H4	1'5" (420 mm)	1'5" (420 mm)	
HH1	0'4" (100 mm)	0'3.5" (90 mm)	
HH10	11'4" (3455 mm)	11'3" (3435 mm)	
HH4	11'12" (3650 mm)	11'12" (3650 mm)	
HH5	15'1" (4590 mm)	14'10" (4530 mm)	
HH6	9'3" (2820 mm)	9'1" (2780 mm)	
HH7		11'1" (3390 mm)	
JJ	9'7" (2920 mm)	9'7" (2920 mm)	
L2	6'10" (2085 mm)	6'10" (2085 mm)	
LL2	19'11" (6080 mm)	20'1" (6120 mm)	
LL3	2'5" (740 mm)	2'5" (740 mm)	
W1	6'9" (2060 mm)	6'9" (2060 mm)	
W3	5'5" (1660 mm)	5'5" (1660 mm)	
WW1	6'11" (2100 mm)	6'11" (2100 mm)	

AF 1200		AF 1200	
BUCKETS		BUCKETS	
STD. 1.60 yd <sup>3</sup> (1.20 m <sup>3</sup> )	45°	4 x1 1.44 yd <sup>3</sup> (1.10 m <sup>3</sup> )	43°
AA1	45°		43°
DD		1'1" (570 mm)	
EE	5'3" (1610 mm)	5'12" (1820 mm)	
GG	2'10" (875 mm)	2'6" (765 mm)	
H1	9'4" (2840 mm)	9'4" (2840 mm)	
H14	1'5" (420 mm)	1'5" (420 mm)	
H4	1'5" (420 mm)	1'5" (420 mm)	
HH1	0'4" (100 mm)	0'3.5" (90 mm)	
HH10	11'4" (3455 mm)	11'3" (3435 mm)	
HH4	11'12" (3650 mm)	11'12" (3650 mm)	
HH5	15'1" (4590 mm)	14'10" (4530 mm)	
HH6	9'3" (2820 mm)	9'1" (2780 mm)	
HH7		11'1" (3390 mm)	
JJ	9'7" (2920 mm)	9'7" (2920 mm)	
L2	6'10" (2085 mm)	6'10" (2085 mm)	
LL2	19'11" (6080 mm)	20'1" (6120 mm)	
LL3	2'5" (740 mm)	2'5" (740 mm)	
W1	6'9" (2060 mm)	6'9" (2060 mm)	
W3	5'5" (1660 mm)	5'5" (1660 mm)	
WW1	6'11" (2100 mm)	6'11" (2100 mm)	

AF 1050		AF 1200	
FORKS		LOADHOOK	
AA3	18°		
BB	2'9" (850 mm)		
CC	4'3" (1300 mm)		
DD	1'5" (440 mm)		
FF		8'10" (2730 mm)	
YY		4'0" (1220 mm)	
GG	4'10" (1470 mm)		
HH1	0'5" (120 mm)		
HH		14'7" (4450 mm)	
HH9	10'11" (3340 mm)		
LL2	19'10" (6050 mm)		

AF 1200		AF 1200	
FORKS		LOADHOOK	
AA3	18°		
BB	2'9" (850 mm)		
CC	4'3" (1300 mm)		
DD	1'5" (440 mm)		
FF		8'10" (2730 mm)	
YY		4'0" (1220 mm)	
GG	4'10" (1470 mm)		
HH1	0'5" (120 mm)		
HH		14'7" (4450 mm)	
HH9	10'11" (3340 mm)		
LL2	19'10" (6050 mm)		



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