

ZERO EMISSION







Sinich to ZERO EMISSION

MECALAC BELIEVES THAT INNOVATION MEANS SPEEDING UP THE MOVE TOWARDS JOBSITES THAT ARE LESS HARMFUL TO PEOPLE AND THE ENVIRONMENT

For a very long time now, Mecalac has been giving thought to the environment, and we view sustainable development as an investment and a key issue for the future. The group's R&D policy is focused on designing products that have the smallest possible environmental impact, both on jobsites and on local residents.

MECALAC E-SERIES: 100%-ELECTRIC MACHINES FOR URBAN JOBSITES

Mecalac is offering the first 100%-electric machines, which meet the three key requirements for the urban jobsites of today and tomorrow: autonomy, performance and 360° compactness. It is a technological response inspired by people, field and constraints that are constantly evolving. With the E-Series, Mecalac is entering a new chapter of its history by granting our concepts one of its most beautiful letter patent of nobility: "e" for electric, "e" for ecosystem, "e" for zero emission and "e" for emblematic. The E-Series are the logical conclusion of an approach that has been making construction sites the best they can be since 1974, with ever-more versatile products that reduce the number of machines on site, making their operation as time-efficient as possible and profitable to run.





INNOVATION TODAY

Any electric machine must take up three major challenges: autonomy, performance and compactness. The Mecalac e12 is the first 100% electric 10-12t excavator with no compromise on these three requirements. The key to the autonomy and performance of this machine lies in its very architecture. Installing the power source away from the turret allows for a record capacity of 150 kW.h and translates into an unrivalled autonomy of 8 hours.

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AUTONOMY PERFORMANCE COMPACTNESS

THE 3 MAJOR STRENGTHS OF THE E12

The electric version of the 12MTX fits perfectly within Mecalac's philosophy of moving towards urban construction sites that are ever-more compact, efficient and environmentally friendly. The architecture of the diesel 12MTX makes it the natural forerunner of the electric version, so the location for the engine now houses a Lithium-ion battery technology, ideal for on-board solutions.

`This technology combines weight/power/quality ratios that are far superior to conventional batteries with an optimized service life and total safety.





DIGGING





LOADING

HANDLING

HANDLINGTOOLCARRIER







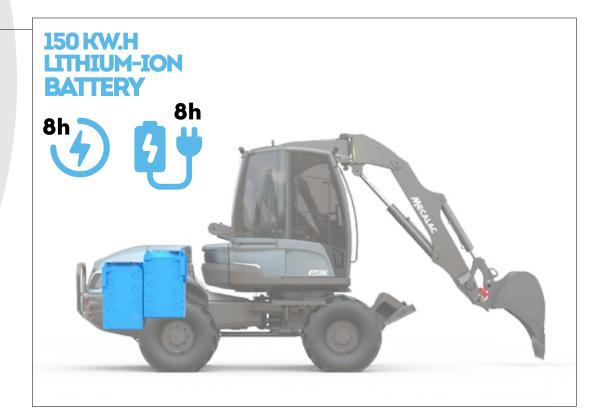
BATTERIES ARCHITECTURE





LESS MEANS MORE

It takes only 8 hours to charge the e12. Without compromising on power, it does the job all day long without having to recharge its batteries, for 8 hours of autonomy. The Mecalac e12 means less vibration, less noise, less maintenance (no more filters, no more oil...), less risk of on-site accidents, less spent on maintenance and absolutely no CO_2 or particulate emission at the point of use.



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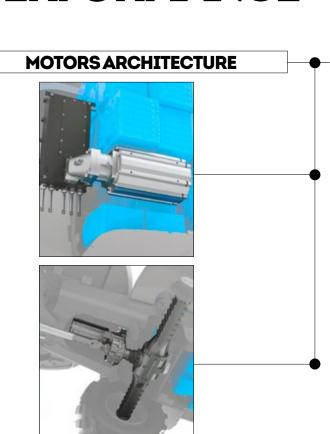




A NEW DIRECTION FOR URBAN JOBSITES

With a structure designed for urban environments from the outset and two independent electric motors, one powering the front linkage and work tools and one for the transmission, the Mecalac e12 is destined for urban machine fleets. In addition to its performance and autonomy, its 100% electric transmission offers unrivalled traction force as soon as it starts and energy regeneration when braking. The incredible power density of the electric motors makes it possible to preserve extreme compactness and they do not require any maintenance.









Switch to 360° COMPACTNESS

FREEDOM OF MOVEMENT

With a full 360° swing diameter of only 2710 mm (8'11"), a 2.25 m (7'4") turning radius at wheels and an outstanding boom tilt angle (140°), the e12 only needs one road lane in urban areas to carry out its work. Traffic can continue with only a minimum of interruptions while the operator is able to work closer to the various obstacles he may come across. Efficient, the e12 offers compactness, while capitalizing on all its functionalities and capacities with a minimal impact on city environments.

Unlike conventional wheeled excavator, the e12 works all day, racking up more time in action than it does idling every day. Its articulated chassis allows it to move easily on any job site, and its agility also contributes to its overall performance.





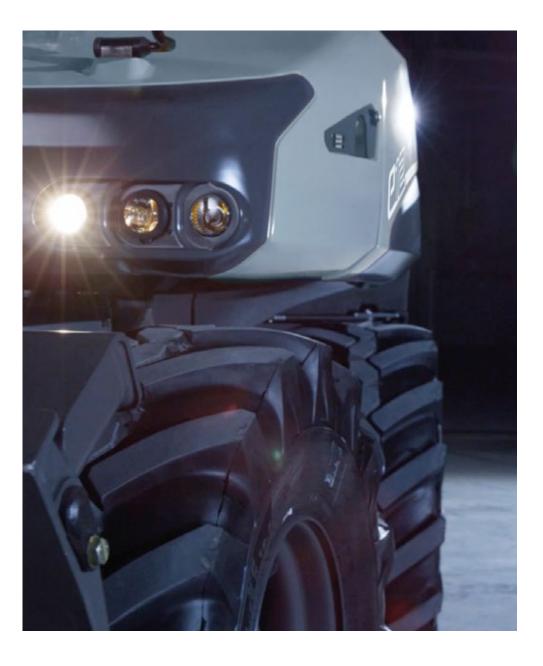
At a time when a fixed date has already been announced for banning diesels in major conurbations, and with increasingly dense urban development and the cramped spaces going hand in hand with that, the new Mecalac e12's perfect blend of architecture and technology is paving the way for safer, cleaner and more efficient urban building sites.

TECHNICAL DATA

100% electric	•
Capacity	150 kW.h
2x lithium-ion batteries	Nickel-Manganese-Cobalt (NMC)
Autonomy*	8 hours
Full charge duration**	8 hours
2 electric motors	1 for the transmission and 1 for the implements
0 CO ₂ and particulate emission	(at point of use)

*Depending on application types.

** Indicative, on 22kW, subject to environmental conditions.





UPMOST EFFICIENCY

The Mecalac Swing loader – with high efficiency and speed of action –provides top performance on all construction sites. Its ability to simultaneously drive, maneuver and pivot is key to the high productivity. The new eS1000 takes the Swing concept to a new level with its 100% electric power and transmission. Switch to autonomy, stability and space management.

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AUTONOMY, STABILITY, SPACE MANAGEMENT

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OPTIMAL IN EVERY WAY

Mecalac swing loaders are compact, versatile, comfortable, safe, and extremely powerful. Their increased profitability and their innovative swing system have been the key for long-term market leadership in the swing loader class, which they continue to expand in terms of autonomy, stability, mobility and space management.

They are now electrically powered: the new eS1000 Swing loader allows the operator to take full advantage of the unique features of this machine with no emission at the point of use and limited noise pollution.







LESS MOVES AND MORE AUTONOMY

The Swing Loader architecture results in an economy of movement. This translates into reduced cycle times, noise and visual nuisance, maintenance and risks of accidents, as well as a lower impact on the environment.

While diesel versions of the Swing Loader limit fuel consumption through this economy of motion, the electric eS1000 version also consumes only the right amount of energy for the jobsite operation and optimizes battery use for an unprecedented 8-hour autonomy.



TECHNICAL DATA	
100% electric	•
Capacity	75 kW.h
1x lithium-ion battery	Nickel-Manganese-Cobalt (NMC)
Autonomy*	8 hours
Full charge duration**	4 hours
3 electric motors	1 for the transmission, 1 for the implements and 1 for the swing system
0 CO ₂ and particulate emission	(at point of use)

*Depending on application types

** Indicative, on 22kW, subject to environmental conditions



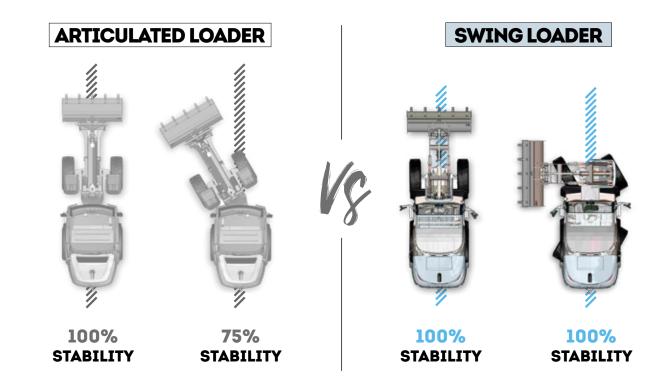


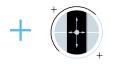


PROVEN STABILITY

Whatever is lifted by the bucket at the front, once the rear axle is locked, can be turned through 180° without any loss of steadiness. Thanks to this incredible stability in all positions and on all terrains, the Swing loader is able to drastically transform the logistics of construction sites.

Whatever the circumstances, it never loses its balance whether moving on site, between sites or during the various work stages, maintaining its mobility while reliably and securely overcoming any obstacles with ease.







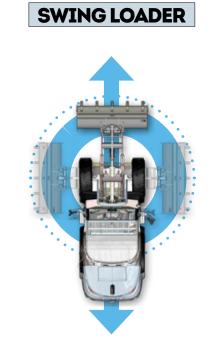
MECALAC SWING, IMMEDIATE EFFICIENCY

Urban construction sites and places with limited space and time to work are the natural environment for compact wheel loaders. The small turning radius of our swing loaders ensures a very high degree of manoeuverability. In addition, efficiency is determined by loading and unloading cycles. A large proportion of the conventional loaders' cycle times consists of time-consuming maneuvers.

The innovative Mecalac Swing Loader concept is born from the wish to focus on operation efficiency to reduce these non added-value maneuvers by swinging the boom, instead of moving the machine itself.

ARTICULATED LOADER







EMISSION-FREE LOGISTICS

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Robust, reliable and essential on many urban worksites, Mecalac dumpers are the result of decades of expertise in the design and manufacture of public works machinery. Complementing the digging and loading capabilities of the e12 excavator and the eS1000 wheel loader, the new Mecalac eMDX site dumper paves the way for clean and silent transport of materials on construction sites. Not only can you still transport large quantities of materials with Mecalac site dumpers, but now you can also do it with less vibrations, less noise, less maintenance and absolutely no CO₂ and particulate emission at point of use.

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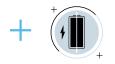
AUTONOMY, PERFORMANCE, SAFETY

FIRST 100% ELECTRIC 6-TON SITE DUMPER

Site dumpers are complementary machines that can quickly change the dynamic of a jobsite. Compact and maneuverable, capable of operating in all ground conditions, they provide an efficient solution for moving materials on the jobsite.

The new Mecalac eMDX keeps the fundamentals and heritage of the Mecalac 6MDX site dumpers in terms of productivity, safety and reliability, while incorporating Mecalac's technologies and expertise in zero emission solutions.







SEAMLESS SWITCH TO ELECTRIC

Requirements of urban worksites as well as the habits of operators have been taken into account to develop the Mecalac eMDX site dumper so that the machine autonomy and productivity are not impacted.

With a record battery capacity of 75 kW.h, the eMDX can operate intensively for a minimum of 8 hours non stop. Only 4 hours are required to charge the battery. The eMDX unrivalled 8-hour autonomy can be achieved thanks to the battery's power and heat management technologies. In your jobsite, this autonomy can translates into dozens of additional hours as site dumpers are mainly used on a periodic basis with frequent machine stops.



75 KW.H LITHIUM-ION BATTERY 8h 3h 4h 4h

TECHNICAL DATA	
100% electric	•
Capacity	75 kW.h
1x lithium-ion battery	Nickel-Manganese-Cobalt (NMC)
Autonomy*	8 hours (non-stop)
Full charge duration**	4 hours
2 electric motors	1 for the transmission and 1 for the skip and hydraulics
$0 \mathrm{CO}_{_2}$ and particulate emission	(at point of use)

*Depending on application types

** Indicative, on 22kW, subject to environmental conditions





Switch to PERFORMANCE

Unlike "mini" electric site dumpers available on the market, Mecalac has focused its R&D investment to offer an emission-free solution for transporting materials on a scale never before achieved. The result is the Mecalac eMDX, the first 6-ton electric site dumper with uncompromising levels of autonomy, performance and safety.

The automatic transmission ensures that all the power of the electric motor is transmitted to the permanent four-wheel drive, for unrivalled power and efficiency on all terrains. LARGEST 100% ELECTRIC SITE DUMPER





THE SAFEST CABBED DUMPER GOT EVEN SAFER

In addition to the ROPS/FOPS certification, the cab of the eMDX has been tested by Mecalac to withstand impacts while loading the dumper skip. A series of front and side impact tests have been performed using different excavator swing speeds to simulate real impacts that could occur. The eMDX cab has proven to be highly resistant to potential impacts, reinforcing our leadership position in terms of safety.

Mecalac's design features ensure enhanced safety with easier machine access, excellent all-around visibility, and a higher level of operator protection. Adding to this, an advanced object detection radar identifies potential hazards in front of the machine, maximizing safety standards.

MDX-SERIES CAB: DESIGNED & TESTED TO WITHSTAND IMPACT



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MECALAC POWER PACK

ZERO EMISSION

To complete our range of electric products and allow you to charge your machines wherever you are, Mecalac proposes an its on-site charging solution, the power pack.

PLUG. CHARGE. WORK.

Thanks to its storage capacity, this power pack allows you to charge your electric machine on your jobsite, even when it is not hooked up to the grid. This battery-powered charger replaces traditional generators by providing you with greener electric power wherever you need it.

To avoid a significant investment, this power pack is available for rental periods from 3 days to several weeks. Depending on your energy needs, two mobile chargers can be combined, giving you up to 600 kWh of available energy. In addition, an electrical cabinet with various sockets is available for charging other devices.

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The delivery and start-up of the power pack is included in the rental price and is carried out by our partner *GCK Energy*, specialized in green energy supply.

Please contact your dealer for more information.

TECHNICAL DATA	
Power	200 kVA
Available energy	300 kW.h
Batteries	Lithium-Ion Intelligent Battery System (IBS)
Impact resistance	Up to 8G
Operation mode	On & Off Grid
Certifications	CE / CSC / ADR
Operating range	From -20°C to +45°C (-4°F - 113°F)
Dimension	ISO 10 Feet

ZERO EMISSION MCCALAC

SERVICES

PERFORMANCE, PROFITABILITY, LONGEVITY

DISCOVER OUR SERVICES

MECALAC PREMIUM LUBRICANTS

Premium lubricants to get the best out of your machines:

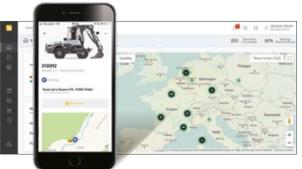
- Extended machine life
- Extended warranty and extended oil change intervals
- All-weather efficiency



MY MECALAC CONNECTED SERVICES

To optimise the use of its machines, MECALAC offers a range of telematics services:

- Remote fleet management
- Access to all machine usage data of the machines
- Limited machine downtime thanks to preventive maintenance









MECALAC GENUINE PARTS

Only enuine MECALAC parts ensure optimum service life and maximum performance:

- Certified genuine parts
- Maintenance kits
- Extended warrantya







Make full use of the full potential of your Mecalac machines:

- Efficient use
- Individual coaching
- Intensive practice

MECALAC FINANCIAL SOLUTIONS

A complete range of financial products and associated services to meet your specific needs:

- Machine purchase
- Machine rental
- Competitive rates

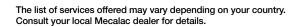


WARRANTY EXTENSIONS



Our solutions are well-adpated to your needs to maximise the life of your machines:

- Customised contracts
- Peace of mind
- Controlled expenses

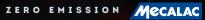






TECHNICAL DATA

ELEC









YOUR E12 & AVAILABLE OPTIONS

The e12 comes standard equipped with a number of features, while at the same time remaining attentive to the specifications required by various different types of customers: landscape and earthwork contractors, public works professionals, municipal authorities, etc. So, from the color scheme to the choice of tires, not to mention to the various attachments, buckets, and hydraulic tools which can be used, there are many different ways to tailor your e12 to your brand and business.

STANDARD E12 EQUIPMENT

UNDERCARRIAGE

Articulated with 4-wheel drive, each being of equal size and equipped with ALLIANCE 18-19.5 16PR tires, oscillating rear axle with cab-controlled lock, limited slip differential on both axles

Integrated oil-bath multi-disc brakes on both axles

Independent electric motor transmission

Gearbox, automatic and/or manual

Speed change, 0 to 25 kph (0 to 15.5 mph) with exclusive Speed Control system to define the maximum speed

Outriggers separately proportionally and electrically controlled

POWER SUPPLY

Lithium-ion Nickel-Manganese-Cobalt (NMC) batteries, 150 kW.h. Charging by three-phase socket on the AC power grid, built-in AC>DC converter. Zero emissions of gaseous pollutants during use. Charger socket type 5 (industrial, 5 pins)

KINEMATICS

Variable adjustment boom with 4 parts; boom cylinder assembly on parallelogram; hydraulic left/ right offset; stick

CONNECT hydraulic quick coupler, a Mecalac exclusive (patented)

4 non-return safety valves

LUBRICATION

Centralised, manual single point for the whole of the parallelogram boom

4 OPERATING MODES

4 operating modes: Park, Excavator, Loader and Road

Controls assisted by ergonomic, electrically operated proportional joysticks

Advanced customization of various modes and controls

Standard and optional equipment may vary. Consult your Mecalac dealer for details.

STANDARD



THE CAB - COMFORT AND SAFETY

Cab access via an extendable step, a Mecalac exclusive

A 7" VGA color screen for control over safety components and machine functions

Cab with wide view and premium comfort and ROPS/FOPS standard-compliant with: - A sliding swing door, a Mecalac exclusive

- A removable front windshield, partially or fully, an exclusive Mecalac feature A sliding glass door
- A roof hatch

Steering column with three adjustment controls: 2 for tilt, one for steering wheel height

Storage space with separate container

ISO 10263-compliant heating with 6 separate vents

Heating and air conditioning

Pneumatic, heated seat that can be adjusted to the driver's body shape

Radio-ready installation and 12V power supply

2 LED working lights at the front – 1 LED working light at the rear

Rear and side cameras

Cabin sun visor

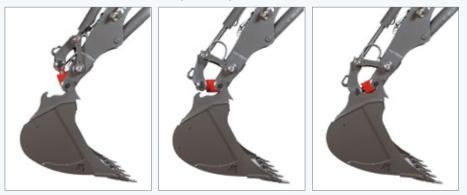
Telematic, MyMecalac Connected Services





NEW QUICK COUPLER: CONNECT

The new Mecalac quick coupler is compliant with the latest regulations of the EN-471-1 and introduces a new standard, anticipating an even greater safety.





PRODUCTIVITY

Reversibility as standard, adapted to all attachments and to the four functions of our machines

Simple pick-up of attachments, optimum visibility, in both directions

Maintenance-free, no need for additional lubrication, reduced risks of failure

The advantage of a compact and light coupler is used to enhance the bucket volume: +10%

SAFETY

Impossible for a bucket to drop, once lifted off the ground no matter if locked or not, regardless of the direction of the tool, a "hook" system prevents the bucket from falling. Integrated safety valve in the cylinder.

Continuous detection of the cylinder position, "real time" measurement of the locking of the tool, associated with an acoustic warning signal in the cab

Automatic hydraulic compensation of play by an over-dimensioned length of the cylinder rod

Simple user interface, avoiding any risk of mis-operation

RELIABILITY

Use of 500 hb steel for the eyehooks, the steel used for the buckets is of the worldwide highest durability

100% Mecalac: the machine, quick-coupler and attachments: designed to work together. CONNECT is dedicated to Mecalac

Standard and optional equipment may vary. Consult your Mecalac dealer for details.

OPTIONS TO TAILOR YOUR E12 TO YOUR NEEDS

CUSTOMER COLORS

If you'd like to have your Mecalac e12 painted in your company's colors? Personalize your Mecalac with your own RAL codes.

Colors samples



TIRES



QUICK COUPLERS

CONNECT quick coupler fitted with a hook

Direct coupling system, for mounting attachments on the stick with pins

OPTIONS

THE CAB - COMFORT AND SAFETY

Additional counterweight
Double pedals (inching/brake)
Rotating beacon, LED
2x LED boom light
Radio 2 speakers, USB, Bluetooth
Anti-theft device - electronic immobilizer with 6 keys
Lifting-type approval for handling activities - France only
Back-up alarm, traditional or white noise
Start-up digicode (available with telematics)

POWER SOURCE

External charging container Charger socket Type 2 (according to IEC 62196)

AUXILIARY LINES

- Auxiliary Line 1 (standard, proportional)
- B Auxiliary Line 2: Diverted offset cylinder for rotating function of a clamshell
- C Auxiliary Line 3: Diverted bucket cylinder for opening / closing function of a clamshell
- D Hammer return line



LUBRICATION

Centralized, manual, single point lubrication for the boom and stick

Centralized automatic lubrication for the boom and stick

Biodegradable hydraulic oil

REAR SAFETY BAR

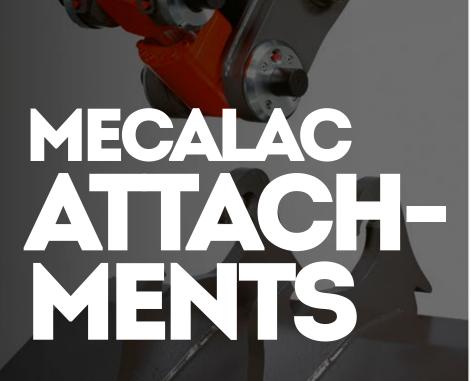


PALLET FORK OR OTHER 3RD POINT TOOLS ADAPTATION PREDISPOSITION FOR OUTRIGGERS



EXTERNAL CONTROL FOR THE STEPS





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C12

WORK TOOLS AVAILABLE WITH CONNECT QUICK COUPLER

Non-exhaustive list

DIGGING BUCKETS

ТҮРЕ	WIDTH mm (ft in)	number of teeth	VOLUME I (yd ³)	WEIGHT kg (lb)
	350 (1'2")	3	150 (0.20)	204 (449)
	450 (1'6")	3	190 (0.25)	222 (481)
DIGGING BUCKET with teeth	600 (2')	3	275 (0.36)	255 (562)
	750 (2'5.5")	4	360 (0.47)	292 (643)
	900 (2'11")	5	450 (0.59)	328 (723)
	1200 (3'11")	5	630 (0.82)	393 (866)
DIGGING BUCKET with no teeth	350 (1'2")	-	150 (0.20)	188 (414)
	450 (1'6")	-	190 (0.25)	207 (456)
	600 (2')	-	275 (0.36)	239 (526)
	750 (2'5.5")	-	360 (0.47)	272 (599)
	900 (2'11")	-	450 (0.59)	304 (670)
	1200 (3'11")	-	630 (0.82)	368 (811)

LOADER BUCKETS

ТҮРЕ	WIDTH mm (ft in)	number of teeth	VOLUME I (yd ³)	WEIGHT kg (lb)
LOADER BUCKET with teeth	2250 (7'5")	7	750 (1.00)	412 (908)
TOOTH PROTECTION	2250 (7'5")	-	-	19 (41)
LOADER BUCKET with no teeth	2250 (7'5")	-	750 (1.00)	390 (859)
BLADE GUARD	2250 (7'5")	-	-	10 (22)

4X1BUCKET

ТҮРЕ	WIDTH mm (ft in)	number of teeth	VOLUME I (yd ³)	WEIGHT kg (lb)
4X1 BUCKET with teeth	2200 (7'3")	7	540 (0.71)	640 (1410)
TOOTH PROTECTION		-	-	11 (24)
4X1 BUCKET with no teeth	2200 (7'3")	-	540 (0.71)	617 (1360)
BLADE GUARD		-	-	7 (16)
BOLTED COUNTERBLADE FOR 4X1 BUCKET with no teeth 7 boreholes - center-to-center borehole distance 330 mm	2200 (7'3")	-	-	62 (136)
4X1 BUCKET CONNECTION SET, 2 FLEXIBLE JOINTS	-	-	-	5 (11)

NARROW BUCKET

ТҮРЕ	WIDTH mm (ft in)	number of teeth	VOLUME I (yd ³)	WEIGHT kg (lb)
NARROW BUCKET	300 (1')	3	80 (0.10)	219 (482)



PALLET FORK

ТҮРЕ	Specifications	WEIGHT kg (lb)
PALLET FORK	to be used with 4 safety valves	351 (773)
PALLET FORK USING OUTRIGGERS adaptation predisposition with 3rd point for other hydraulic tools	to be used with 4 safety valves	406 (895)

MECALAC MR60 TILTROTATOR*

ТҮРЕ	Specifications	PIN to PIN HEIGHT mm (ft in)	ROTATION TORQUE Nm (lbf.ft)	WEIGHT kg (lb) 1xCONNECT
MR60 TILTROTATOR no grab	Twin CONNECT configuration, 2x 40° 2 low-flow auxiliary functions	686 (2'3")	8200 (6,050)	574 (1,270)
MR60 TILTROTATOR with grab module	Twin CONNECT configuration, 2x 40° 1 low-flow auxiliary function	686 (2'3")	8200 (6,050)	683 (1,510)

MECALAC TILTROTATOR DEDICATED GRADING BUCKET

TYPE	Specifications	WIDTH mm (ft in)	VOLUME I (yd ³)	WEIGHT kg (lb)
GRADING BUCKET for TILTROTATOR MR60	Dedicated bucket for finishing works	1500 (4'11")	570 (0.75)	455 (1005)
BOLTED COUNTER- BLADE for GRADING BUCKET	borehole center-to-center distance 152.4 mm (6 in)	1500 (4'11")	-	43 (95)

TILT DITCH CLEANING BUCKET

TYPE	Specifications	WIDTH mm (ft in)	VOLUME I (yd ³)	WEIGHT kg (lb)
TILT DITCH CLEANING BUCKET	2x Linear cylinders, 2x 45°	1800 (5'11")	516 (0.67)	725 (1,598)
BOLTED COUNTER BLADE	borehole center-to-center distance 152.4 mm (6 in)	1800 (5'11")	-	51 (112)

DITCHING BUCKET

TYPE	Specifications	WIDTH mm (ft in)	VOLUME I (yd ³)	WEIGHT kg (lb)
DITCHING BUCKET		1800 (5'11")	400 (0.52)	350 (771)
BOLTED COUNTER BLADE for DITCHING BUCKETS	borehole center-to-center distance 152.4 (6")	1800 (5'11")	-	47 (103)

DIGGING BUCKET WITH GRAPPLE

TYPE	Specifications	WIDTH mm (ft in)	VOLUME I (yd ³)	WEIGHT kg (lb)
GRAPPLE BUCKET	2 hydraulic thumbs	900 (2'11")	450 (0.59)	492 (1085)

TRAPEZOIDAL BUCKET

ТҮРЕ	WIDTH (base) mm (ft in)	WIDTH (grande base) mm (ft in)	VOLUME I (yd ³)	WEIGHT kg (lb)
TRAPEZOIDAL BUCKET with manual mechanical rotation (0-33°)	300 (0'12")	1002 (3'3")	440 (0.57)	455 (1003)

HANDLING PLATE WITH HOOK

ТҮРЕ	Specifications	WEIGHT kg (lb)
HANDLING PLATE with hook	to be used with 3 safety valves	64 (141)

HANDLING JIB

TYPE	Specifications	WEIGHT kg (lb)	
HANDLING JIB	length 4100 mm (13'5"), lifting capacity 500 Kg (1102 lb) to be used with 4 safety valves	140 (308)	

CLAMSHELL BUCKET SUPPORT

ТҮРЕ	WEIGHT kg (lb)
SUPPORT PIECE FOR CLAMSHELL BUCKET	67 (148)

RIPPER TOOTH

TYPE	WEIGHT kg (lb)
RIPPER TOOTH	192 (423)

SKID STEER ADAPTER

TYPE	WEIGHT kg (lb)
ISO 24410 mounting hitch for Universal Skid steer attachments	127 (280)

HAMMER PLATE

ТҮРЕ	Specifications	WEIGHT kg (lb)
HAMMER PLATE no boreholes	-	104.5 (230)
HAMMER PLATE with boreholes	contact your dealer	105.5 (233)

* Available soon





TECHNICAL DATA

VEIGHT	DATA
running order, without bucket, with 75 kg (165 lb) operator and with standard single tires	11300 kg (24,900 lbs)
OWER SUPPLY	
SUPPLY NETWORK REQUIREMENTS	
'ower grid	AC
ecommended power supply	EEC 32A three-phase 22 kW
Dn-board charger for direct connection to the AC grid	AC>DC converter
Charger socket (Type 5P - Industrial)	•
dicative full charge duration on 22 kW (subjct to environmental conditions)	8 hours
IIGH VOLTAGE BATTERIES, MAINTENANCE-FREE	
ype	Lithium-ion NMC 1260 kg (2,778 lbs)
torage capacity	150 kW.h
oltage - maximum	700 V
emperature control (hot/cold)	Deionized water
Battery isolation in the event of cable disconnection	•
n-cab circuit breaker with ignition key & start/stop button	•
lectrical accreditation for operator	None
OWER – PERFORMANCE DATA	
ndicative runtime (depending on application type)	8 hours
Operating temperature range	-20°C / +40°C (-4°F / +104°F
rotection index (resistance to water and dust)	IP 6K9K
UXILIARY ELECTRICAL CIRCUIT – LOW VOLTAGE	
uxiliary batteries (for low-voltage systems, cab lighting, ventilation, etc.)	2 x 107 Ah
oltage	12V & 24V (2x 12V)
Battery disconnect switch	•
INDERCARRIAGE	
rticulated type	•
nside turning radius	2.63 m (103.5 in)
Dutside turning radius	4.91 m (193.3 in)
ront chassis fitted with 2 independent front outriggers	•
RANSMISSION	
Brushless synchronous electric motor	700V
orque - maximum	352 Nm (260 ft.lbf)
1aximum power	94kW
Rated power	64kW
Cooling of high-voltage variators and motors	Deionized water
ipeed - maximum	25 kph (15.5 mph)
Gearbox, 2 mechanical gears, with automatic gearshift	•
raction force - maximum	5500 daN (12,360 lbf)
Gradeability	29° / 54%
teering column hydraulically assisted	•
ectronically controlled travel direction (FNR) located under the right joystick	•
inching" control to gradually reduce speed control before braking	

AXLES AND WHEELS	DATA
4-wheel drive	•
Front rigid drive axle	•
Oscillating rear axle to +/- 10° and oscillation lock by hydraulic cylinders	•
Limited slip differential (45°) on both axles	•
BRAKES	
Hydraulically controlled brake pedal	•
Double circuit central braking unit	•
Oil-immersed multi-disk brakes on each axle	•
"Inching" brake acting on all 4 wheels	•
UPPERCARRIAGE	
Full 360° rotation	•
Internal ring gear drive	•
Rotation via hydraulic motor (with automatic disc braking)	•
SHOCKLESS type dampened crossover valve for upper carriage rotation movement and soft stop	•
Swing speed	9 rpm
Swing torque	2210 daN.m (16,300 ft lbf)
Hydraulic motor	750 cm³ (45.8 in³)
Max. pressure	230 bar (3,336 psi)
CAB	
Superior comfort panoramic cab	FOPS/ROPS homologated
Cab mounted on 4 rubber silent blocks	•
Front windshield partially or fully retractable	under the cab roof
Slidding door	•
Opening door window	•
Seat can be set and adjusted to the operator height and weight, with seatbelt	height and longitudinal adjustment
Pneumatic (air-suspension) and heated seat	•
Independent adjustment of the joystick consoles	•
Electric beating system, compliant with EN 60204	•

Independent adjustment of the joystick consoles	•
Electric heating system, compliant with EN 60204	•
Air conditioning	•
Controls assisted by Rexroth ergonomic, electrically operated proportional joysticks	•
Electronic dashboard containing all safety and monitoring information, visual indicators and alarms	•
High-voltage battery charge level (bar graph) display on the dashboard	•
Dashboard contains a color screen which automatically adapts contrast and light levels to current conditions	•
Front working light, LED	•
Refrigerated storage compartment (lunch box)	•

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Rear and side camera (on the turret)



TECHNICAL DATA

HYDRAULICS (IMPLEMENTS AND SWING CIRCUITS)	DATA
Hydraulic oil tank capacity	41 I (10.8 US gal)
Hydraulic circuit capacity	92 l (24.3 US gal)
Fixed displacement pump - maximum	max. 48 cm ³ (2.9 in ³)
Hydraulic pump power	40 kW
Maximum flow rate	144 l/min (38 gpm)
Maximum working pressure	310 bar (4,500 psi)
Proportional Load Sensing with individual balance for each component: boom, adjustable boom, dipperstick, bucket and auxiliary circuit	•
Proportionality of functions achieved at all times, regardless of the pressure level of each component: "flow sharing"	•
Cooling (hydraulic circuit)	Ventilated fan
Anti-cavitation overpressure relief vavle on each component: boom, adjustable boom, dipperstick and bucket	•
Anti-drop safety check valve on each component: boom, adjustable boom, dipperstick and bucket	•
Proportional electrical control of functions via joysticks or pedals	•
Available hydraulic force	Equivalent to the 12MTX
BOOM AND STICK	

BOOM AND STICK	
Brushless synchronous electric motor	700 V
Maximum torque	171 Nm (126 ft.lbf)
Maximum power	64 kW
Rated power	40 kW
Mecalac variable kinematics consisting of 4 parts: boom, adjustable boom, offset and dipperstick	•
Right and left offset by hydraulic cylinder	•
System allowing all penetration forces to be kept, regardless of the angular position of the offset	•
Left offset	1829 mm (6'0")
Right offset	1859 mm (6'1")
Boom cylinder with end-of-travel shock absorber	•
Stick length	2210 mm (7'3")
CONNECT coupling system - Take up with automatic mechanical locking - Detection of incorrect locking - Hydraulically controlled unlocking	•

EMISSIONS

Zero emission of gaseous pollutants at point of use	•
Noise emission:	
- Interior sound level: L _D A (according to ISO 6396)	67 dB
- External sound level: \dot{L}_{WA} (according to ISO 6395 and EU Noise Directive (2000/14/EC) and 474-1:2006 + A1:2009)	90 dB

OPERATING MODES

EXCAVATOR MODE: enables the machine to be operated like an excavator:

- Upperframe rotation and dipperstick control with the left joystick
- Bucket and intermediate boom or boom control with the right joystick
- Travel control with the pedal and travel direction (FNR) control under the right joystick
- Deactivation of the travel alarm
- Deactivation of the overload alarm
- Activation of Speed Control
- Locking of the oscillating axle when the brake pedal is fully pressed
- Screen display in excavator mode

LOADER MODE: enables the machine to be operated like a loader:

- Lifting (adjustable boom) and bucket control with the right joystick - Screen display in loader mode

ROAD MODE

- Turns on road headlights
- Turns on the rotating beacon
- Locks hydraulic and electric controls (boom/stick, swing, outriggers)
- Unlocks the oscillating axle (only if oscillation lock selector is on AUTO and is not activated via the right joystick)
- Deactivation of the travel alarm
- Deactivation of the overload alarm
- Speed display in kph (mph)
- Activation of Speed Control
- Screen display in road mode

PARKING MODE

- Engages the parking brake
- Turns the transmission into Neutral
- Deactivates the accelerator pedal
- Locks hydraulic and electric controls
 Screen display in economy mode
- Locking of the oscillating axle
- Turns on road headlights and rotating beacon

METRIC MEASUREMENTS ARE THE CRITICAL VALUES

- 1 Litre = 0.26417 US Liquid Gallons
- 1 Litre = 0.21997 Imperial Liquid Gallons



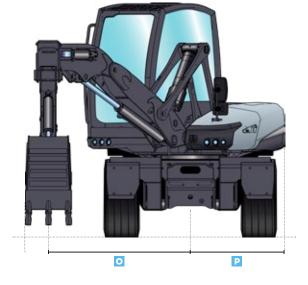




MACHINE DIMENSIONS	DATA
I Departure angle	30°
J Height under uppercarriage	1165 mm (3'8")
K Ground clearance	354 mm (1'2")
L External width of the outriggers	2187 mm (7'2")
Width in road position	2383 mm (7'8")
Width at wheels, standard single tires 405/70-20 Width at wheels, other tires	2247 mm (7'4") Identical

MACHINE DIMENSIONS	DATA
A Overall length	4619 mm (15')
B Cab height	3064 mm (10')
C Height with boom retracted	3464 m (11'4")
D Rear overhang	1407 mm (4'6")
E Wheelbase	2225 mm (7'3")
Front overhang	933 mm (3')
G Hood height	1744 mm (5'7")
H Approach angle	53°



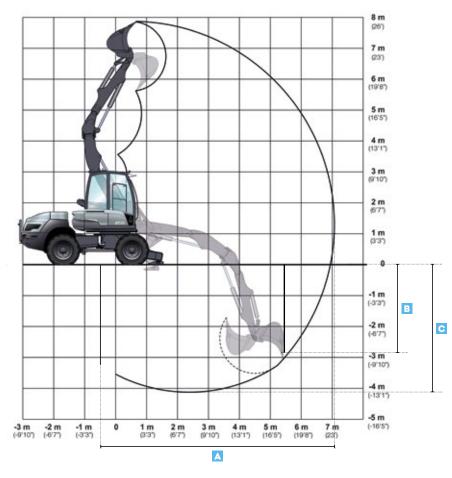




MACHINE DIMENSIONS	DATA
 Boom offset to the right, maximal 	1859 mm (6'1")
Boom offset to the left, maximal	1829 mm (6'0")
P Outside dimension with max. offset	1239 mm (4')
Q Rear tail swing radius	1385 mm (4'5")
R Front swing radius	1325 mm (4'3")
S 360° swing diameter	2710 mm (8'9")







LIFTING CAPACITIES WITH LOADING HOOK - STABILIZERS ON GROUND All the weights are given in kg (lb) with CONNECT.

	FRONT	SIDE	FRONT	SIDE	FRONT	SIDE	FRONT	SIDE
	2M	(7 ft)	3M (10 ft)	4.5M	(15 ft)	6M (20 ft)
4.5M (15 ft)	3280* (7,230*)	3280* (7,230*)	3190* (7,030*)	3190* (7,030*)	2460* (5,420*)	1530 (3,370)	-	-
3M (10 ft)	4000* (8,820*)	4000* (8,820*)	3480* (7,670*)	3480* (7,670*)	2910* (6,415*)	1490 (3,285)	-	-
1.5M (5 ft)	4000* (8,820*)	4000* (8,820*)	3480* (7,670*)	2740* (6,040*)	3100* (6,835*)	1310 (2,890)	1720* (3,790*)	740 (1,630)
0M	4000* (8,820*)	4000* (8,820*)	3480* (7,670*)	1960 (4,320*)	3080* (6,790*)	1240 (2,735)	-	-
-1.5M (-5 ft)	4000* (8,820*)	4000* (8,820*)	3170* (6,990*)	1860 (4,100*)	2580* (5,690*)	1090 (2,400)	-	-
-3M (-10 ft)	4000* (8,820*)	4000* (8,820*)	3270* (7,210*)	2080 (4,590*)	-	-	-	-

WORKING CONDITIONS

- On wheels with stabilizers on ground
- On horizontal, compact ground
- Boom and stick used without
- offset
- Front and rear frame aligned
- Without tools (bucket, shovel...) - With handling plate and loading
- hook of 4t (8,818 lbs)

- Maximal 75% of the tipping load or 87% of the hydraulic capacity - Maximum values determined for optimal position of the boom and cylinders

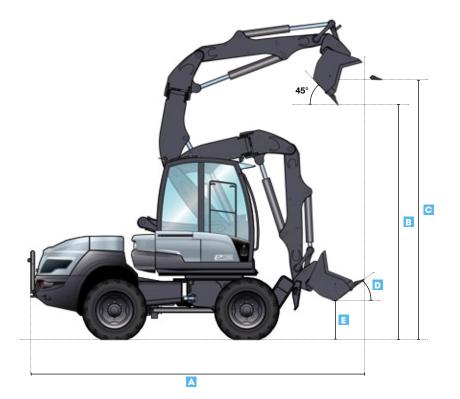
The lifting capabilities shown with an asterisk (*) are limited by the hydraulic capabilities. Other values are limited by the tipping load that can be lifted or the capability of the loading hook. The weight of the chain sling, bucket and other auxiliary lifting devices must be deducted from the nominal load to determine the load which can be lifted.

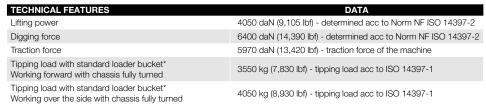
PERFORMANCE	DATA
Break-out force	6150 daN (13,820 lbf)
Penetration/Tear-out force	3400 daN (7,640 lbf)
Lifting force with loading hook, maximum	4000 kg (8,820 lb) (valeur max.)
A Maximum reach	7125 mm (23'4")
B Vertical digging depth	2240 mm (7'3")
C Maximum digging depth	4100 mm (13'4")



All elements added to the end of the dipperstick must be taken into consideration when measuring the real lifting capacities in kg (lbs), particularly their positions and weights.

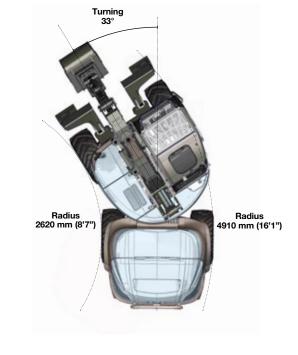




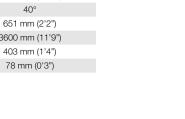


* Not with 4x1 multipurpose bucket





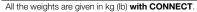
MACHINE DIMENSIONS	DATA
A Overall length	5617 mm (18'5")
B Dumping height	4077 mm (13'4")
C Loading height	4498 mm (14'9")
Digging angle	40°
E Clearance under bucket	651 mm (2'2")
F Minimal turning radius upper structure	3600 mm (11'9")
G Minimum side dumping distance (bucket at 45°)	403 mm (1'4")
H Minimum side dumping distance (bucket at 90°)	78 mm (0'3")
	()

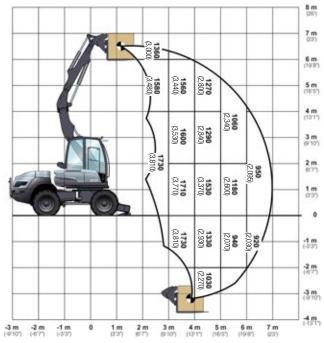


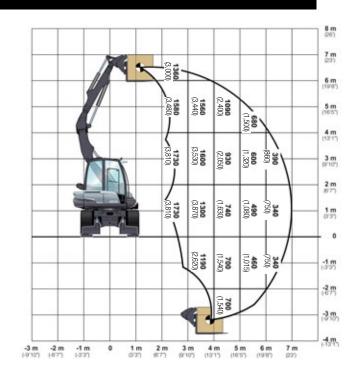




LIFTING CAPACITIES WITH PALLET FORKS







WORKING CONDITIONS

- On wheels, with stabilizers on ground
- On horizontal, compact ground
- Boom and stick used without offsetFront and rear frame aligned
- Equipped with loading forks

ACCORDING TO ISO 10567

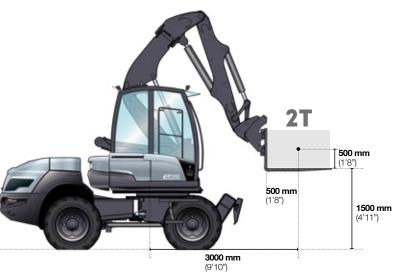
- Maximal of the tipping load or 87% of the hydraulic capacity

LIFTING CAPACITY WITH LOADING FORKS FROM 0 to 1.50M (5 ft)

Maximum pallet forks capacity

2000 kg (4,410 lb) (value max.)

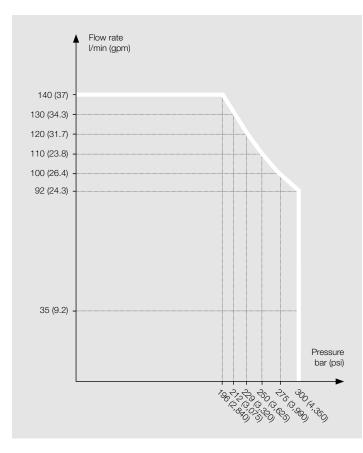
Lifting capacities with loading forks determined for the optimal position of the boom and cylinders.





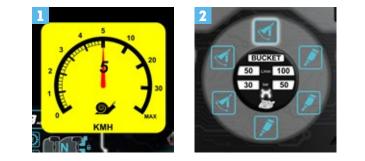
AUXILIARY LINE 1

Electro-proportional control integrated into the right joystick



AUXILIARY LINE 2	DATA
Offset cylinder diverted (clamshell rotation)	Option
Flow rate maximum	3-35 l/min (0.8-9.2 gpm)
Pressure	310 bar (4,500 psi)
Controls	Proportional

AUXILIARY LINE 3	DATA
Bucket cylinder diverted (clamshell function)	Option
Flow rate maximum	120 l/min (31.7 gpm)
Pressure	310 bar (4,500 psi)



SPEED CONTROL - AVAILABLE RANGE IN KPH (MPH)

0,3 (0.2) - 0,6 (0.4) - 0,9 (0.5) - 1,2 (0.7) - 1,5 (0.9) - 2 (1.2) - 3 (1.9) - 4 (2.5) - 5 (3.1) - 7 (4.3) - 10 (6.2) - 15 (9.3) - 20 (12.4) - 25 (15.5) MAX

2 CUSTOMIZABLE PARAMETERSS

Memory storage of flow rates with the name of the attachments

METRIC MEASUREMENTS ARE THE CRITICAL VALUES

• 1 Litre = 0.26417 US Liquid Gallons • 1 Litre = 0.21997 Imperial Liquid Gallons



251000

TECHNICAL DATA

GENERAL DATA Operating weight (without attachment)	7085 kg (15,620 lb)
Electric power (gross)	94 kW
Bucket capacity	1 m ³ (1.3 yd ³)
	T HP (1.3 yu*)
Zero-play, chain operated 180° swing system	•
Comfortable panoramic driver's cabin with ROPS and FOPS safety system	•
Ergonomic joystick control	•
Electrically operated proportionnal joystick	•
Independent electric motor transmission	•
Four-wheel steering system with automatic alignment	•
Planetary axles with 100% locking differential in both axles	•
Kinematics	Z-Kinematic
Excellent parallel lifting characteristics	•
Hydraulically controlled quick-coupler with electric safety feature	•
Wide range of attachments	•
POWER SUPPLY	DATA

POWER SUPPLY	DATA
SUPPLY NETWORK REQUIREMENTS	
Power grid	AC
Recommended power supply	EEC 32 A three-phase 22 kW
On-board charger for direct connection to the AC grid	AC>DC converter
Charger socket (Type 5P - Industrial)	•
Indicative full charge duration on 22 kW (subjct to environmental conditions)	4 hours
HIGH VOLTAGE BATTERIES, MAINTENANCE-FREE	
Туре	Lithium-ion NMC 630 kg (1,388 lbs)
Net storage capacity	75 kW.h
Voltage - maximum	700 V
Temperature control (hot/cold)	Deionized water
Battery isolation in the event of cable disconnection	•
In-cab circuit breaker with ignition key & start/stop button	•
Electrical accreditation for operator	None
POWER – PERFORMANCE	
Indicative runtime (depending on application type)	8 hours
Operating temperature range	-20°C / +40°C (-4°F / +104°F)
Protection index (resistance to water and dust)	IP 6K9K
TRANSMISSION	
Brushless synchronous electric motor	700 V
Torque - maximum	352 Nm (260 ft.lbs)
Maximum power	60 kW
Rated power	40 kW
Cooling of high-voltage variators and motors	Deionized water
Speed - maximum	25 kph (15.5 mph)
Gearbox, 2 mechanical gears, with automatic gearshift	•
Traction force - maximum	4850 daN (10,903 lbf)
Axles: Planetary axles with four-wheel steering for maximum manoeuvrability	•

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TECHNICAL DATA

TRANSMISSION Differential lock: 100% locking differential in both axles	DATA
Wheels:	
- Tyre size	14.5-20 405/70 R20
- Optional	400/70 H20
Speeds:	
- First gear - Second gear	0-12 kph (0-7.5 mph) 0-25 kph (0-15.5 mph)
Oscillation: max. oscillation angle	+/-10°
Oscillation. max. oscillation angle	17 10
HYDRAULIC IMPLEMENT	
Brushless synchronous electric motor	700 V
Maximum torque	132 Nm (97 ft.lbs)
Maximum power	36 kW
Rated power	24 kW
BRAKES	
Working brakes:	•
1. Hydrostatic inching brake, acting on all 4 wheels	•
2. Hydraulically operated disc brake at the front axle, acting on all 4 wheels	
Parking brake: - Mechanically activated parking brake, acting on all 4 wheels, with deactivation of the	
 Mechanically activated parking brake, acting on all 4 wheels, with deactivation of the drive 	•
- Wet disk brake and SAHR brake for parking brake	
STEERING	
Hydrostatic four-wheel steering with 3 steering modes with automatic alignment	_
(four-wheel, front-wheel and crab steer)	•
Max. steering angle	+/-35°
Turning radius, measured over: rear	3670 mm (12'0.5")
HYDRAULIC SYSTEM	
Dual-circuit system with piston pumps: 1. Working hydraulics circuit (lift/lower, tilt, accessories), and steering (via priority	
valve); three-way control valve with primary and secondary safeguards	•
valve), three way control valve with printary and secondary saleguards	65 l/min (17.2 gpm)
Max. operating pressure at 3500 rpm	225 bar (3263 psi)
2. Arm swivelling circuit control by single control valve and gear pump with primary	
and secondary protection	•
	20 l/min (5.3 gpm)
Max. operating pressure at 3500 rpm	225 bar (3263 psi)
Float position for lifting cylinders	
Cylinder: 2 lifting cylinders	•
1 tilting cylinder	•
2 swing cylinders	•

PERFORMANCE DATA	DATA
Bucket position:	
- Crowd angle	45°
- Dump angle top	45°
Lifting force	4000 daN (8992 lbf)
Break out force Thrust force	5600 daN (12589 lbf) 4850 daN (10,903 lbf)
	4650 dain (10,903 lbl)
Tipping load: - std. bucket, max. steered, straight	4300 kg (9480 lb)
- std. bucket, max. steered, straight	3600 kg (7936 lb)
Tipping load and payload on forks:	0000 Ng (1000 NJ)
Tipping load (according to ISO 14397): - max. steered, frontal	4000 kg (9480 lb)
- max. steered, 101 kar	3150 kg (6945 lb)
Payload (according to EN 474-3):	
- max. steered, frontal, even ground	3200 kg (7055 lb)
FILLING CAPACITIES	
Hydraulic system with tank	approx. 129 l (34 US gal)
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	•
Operator's cab with flexible four-point mountings for maximum driver comfort and	
minimum noise levels	•
Smooth and accurate, electrically operated, proportional joystick controls	•
EMISSIONS	
Zero emission of gaseous pollutants at point of use	•
Noise emission:	
- External acoustic sound power level LWA ¹	92 dB(A)
- Interior acoustic power level LpA ²	75 dB(A)
Vibrations:	
- Vibration total value for hands and arms ³	< 1.31 m/s²
 Effective vibration level on total full body⁴ 	< 0.79 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

METRIC MEASUREMENTS ARE THE CRITICAL VALUES

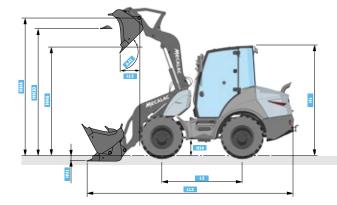
• 1 Litre = 0.26417 US Liquid Gallons

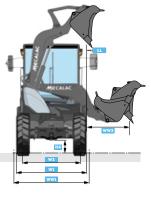
• 1 Litre = 0.21997 Imperial Liquid Gallons

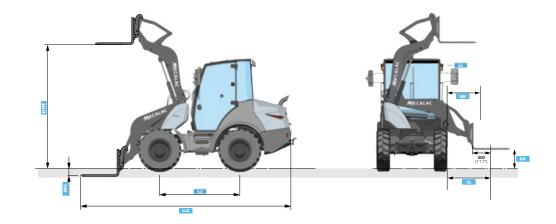












ACH	INE DIMENSIONS		DATA
	E	BUCKET	STD. 1.0 m³ (1.3 yd³)
AA1	Tipping angle max		45°
HL	Overall height		2830 mm (9'3")
H4	Ground clearance axles gear box		345 mm (1'1.6")
H14	Ground clearance transmission shaft		440 mm (1'5.3")
HH1	Plunge depth		150 mm (0'5.9")
HH4	Bucket pivot pin at max. height		3500 mm (11'5")
HH6	Dumping height at max lifting height and 45° tipping angle		2650 mm (8'8")
HH10	Loading height at bottom of bucket		3190 mm (10'5.6")
L2	Wheelbase		2070 mm (6'9.5")
ш	Side Dumping width at max lifting height and 45° tipping angle	le	730 mm (2'4")
LL2	Overall length		5690 mm (18'8")
Ш3	Dumping width at max lifting height and 45° tipping angle		850 mm (2'9.5")
W1	Width over tyres		std 1990 mm (6'6")
W3	Wheel track		1640 mm (5'4.6")
WW1	Width over bucket		2100 mm (6'10")
WW2	Dumping width at min lifting height		1470 mm (4'9")

MACHINE DIMENSIONS	DATA
	FORKS
HH1 Plunge depth	220 mm (0'8.6")
HH9 Overload height at max. lifting height	3170 mm (12'5")
KK Max load width on the side	1010 mm (3'10")
L Side width of load centre at min lifting height	1420 mm (5'6")
U2 Overall length	6160 mm (24'2")
PP Min height on the side	380 mm (0'1.5")



STANDARD / OPTIONAL EQUIPMENT

STANDARD FEATURES	DATA
Large panoramic and comfortable ROPS and FOPS cabin with 2 lockable doors	•
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 exterior mirrors (retractable)	•
Tinted roof window	•
Steering column is adjustable in height and tilt	•
Ergonomically adjustable joystick	•
Multi-position adjustable seat	•
Safety belt	•
Sun visor	•
Heating and ventilation system with fresh air filter	•
Main battery switch	•
Interior light	•
12 V socket	•
Charging socket (Type 5P - Industrial)	•
Coat hook	•
Storage areas in the cabin	•
7" VGA color screen for full control over safety components and machine functions	•
2 road lights on cabin roof	•
Single key system	•
Hydraulic quick coupler with electric safety device	•
Towing coupling device	•
Fastening and lifting points	•
Proportional 1st auxiliary hydraulics circuit, integrated into the joystick	•
Boom suspension	•
Air-conditioning system	•
Grammer air suspended comfort seat	•
Color scheme: Electric Blue (with cab, axles and wheels in grey)	•

OPTIONAL EQUIPMENT	DATA
Wide tires	0
Interior mirror	0
Acoustic back-up alarm	0
2 nd auxiliary hydraulics circuit and lines	0
Safety valves	0
Bio-degradable oil fill for hydraulic system	0
Pressureless return line	0
Lockable differential on rear axle	0
Heated mirrors (exterior)	0
Rotating beacon	0
Central lubrication system	0
Tool kit	0
Charging socket (Type 2)	0

Standard and optional equipment may vary depending on regions. Consult your Mecalac dealer for details.



CMDX

TECHNICAL DATA

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EMDX - ELECTRIC 6-TON DUMPER
SWIVEL TIP SKIPPayload6000 kg (13,228 lbs)Skip typeSwivel tip skipSkip volume - Water1580 I (417 US gal)Skip volume - Struck2399 I (633.5 US gal)Skip volume - Heaped3085 I (815 US gal)

5325 kg (11,740 lbs)*

MACHINE WEIGHT

Operating weight ISO6016 - 75 kg (165 lbs) operator

* Specifications are subject to change

POWER SUPPLY	
SUPPLY NETWORK REQUIREMENTS	
Power grid	AC
Recommended power supply	EEC 32 A three-phase 22 kW
On-board charger for direct connection to the AC grid	AC>DC converter
Charger socket	Type 5P - Industrial
Indicative full charge duration on 22 kW (subjct to environmental conditions)	4 hours
HIGH VOLTAGE BATTERIES, MAINTENANCE-FREE	
Туре	Lithium-ion NMC 630 kg (1,388 lbs)
Storage capacity	75 kW.h
Voltage - maximum	700 V
Temperature control (hot/cold)	Deionized water
Battery isolation in the event of cable disconnection	•
In-cab circuit breaker with ignition key and start/stop button	•
Electrical accreditation for operator	None
POWER – PERFORMANCE	
Indicative runtime (battery range at maximum use and non-stop)	8 hours
Operating temperature range	-20°C / +40°C (-4°F / +104°F)
Protection index (resistance to water and dust)	IP 6K9K
TRANSMISSION	
Туре	Automatic Electric motor via GearBox to front and rear axles
Brushless synchronous electric motor	700 V
Torque - maximum	352 Nm (260 ft.lbf)
Maximum power (DIN 70020)	60 kW
Rated power	40 kW
Cooling of high-voltage variators and motors	Deionized water
Maximum engine speed	5400 rpm
Traction	Permanent 4-wheel drive
Drive	2/2 Forward and Reverse (High/Low Speed)

TECHNICAL DATA

	EMDX – ELECTRIC 6-TON DUMPER SWIVEL TIP SKIP
DRIVE CHARACTERISTICS	
Maximum turning radius	6382 mm (20'11")
Maximum speed	25 kph (15.5 mph)
Chassis	Articulated and oscillating
Steering angle	+/-30°
Oscillation angle	+/-10.5°
Gradeability (defined by maximum safe working angle)	25%
Tyre Size	405-70-20 (14PR)

Brushless synchronous electric motor (for skip and hydraulics) 700 V Torque - maximum 132 Nm (97 ft.lbs)
10.111/
Maximum power 19 kW
Rated power 19 kW
Cooling of high-voltage variators and motors Deionized water
Auxiliary hydraulics pump type Fixed displacement axial piston pumps
Auxiliary hydraulics flow rate 80 l/min (21.1 gpm)
Auxiliary hydraulics operating pressure 210 bar (3,045 psi)
Steering system Orbitrol hydrostatic steering unit powering a centry hydraulic steering cylinder

TANK CAPACITIES

Hydraulic tank

41 I (10.8 US gal)

0.91 m/s²

BRAKING SYSTEM	
Working brake	Hydraulic boosted foot Brake - Oil immersed discs on front/rear
Parking brake	Over centre parking brake-integrated in rear axle

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EMISSIONS	
Zero emission of gaseous pollutants at point of use	•
Noise emission: - Interior sound level - Operators ear sound pressure L _{pAd} (according to ISO 4871) - External sound level - Machine noise power L _{WAd} (according to ISO 4871)	74 dB(A) 94 dB(A)
Noise compliance: Equipment used outdoors EU Noise Directive	2000/14/EC
Hand arm vibration (defined by EN474-1 for all operations)	1.75 m/s ²

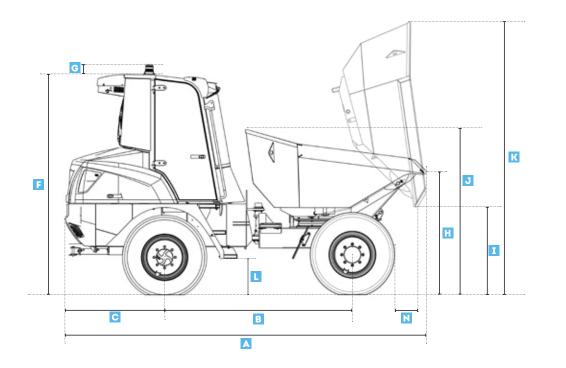


METRIC MEASUREMENTS ARE THE CR	ITICAL VALUES
 1 Litre = 0.26417 US Liquid Gallons 	 1 Litre = 0.21997 Imperial Liquid Gallons

Whole body vibration (defined by ISO/TR25398 for a work cycle)







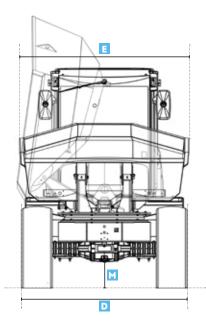


Illustration not contractual

MACHINE DIMENSIONS	DATA
A Overall length	4711 mm (15'5")
B Wheelbase	2450 mm (8')
C Rear overhang	1287 mm (4'3")
D Total width	2211 mm (7'3")
E Skip width	2211 mm (7'3")
F Overall height of cab	2875 mm (9'5")
G Additional height for beacon	130 mm (5")
Height to lip of skip - untipped	1685 mm (5'6")

MACHINE DIMENSIONS DATA	
I Height to lip of skip - tipped	1126 mm (3'8")
J Height of skip - untipped	2167 mm (7'1")
K Height of skip - tipped	3545 mm (11'8")
L Height to first step	472 mm (1'7")
Minimum ground clearance	347 mm (1'2")
N Discharge distance - front	354 mm (1'2")
Discharge distance - side	16 mm (0'6")

STANDARD / OPTIONAL EQUIPEMENT

	EMDX – ELECTRIC 6-TON DUMPER SWIVEL TIP SKIP
OPERATOR ENVIRONMENT	_
Cab ROPS/FOPS glazed and comfortable with access from both sides	•
Cab heating and ventilation system	•
Cab air-conditioning system	•
Multifonctional display screen integrated into the dashboard	•
Adjustable ergonomic seat	•
High visibility orange seatbelt	•

SAFETY

High visibility safety decals steps and handrails	•
Front-view camera with screen integrated into the dashboard	•
Rear-view mirrors	•
Reverse alarm	•
Fan guard	•
Rear-view camera with screen integrated into the dashboard	•
Tilt monitoring system	•
High-visibility orange seatbelt	•
Automatic parking brake	•
Cab front screen guard	0
Hazard / Object detection system	0

LIGHTING

LED amber flashing beacon	•
Green beacon seatbelt indicator	•
LED front and rear work lights	•
Certified road lights front and rear - including light guards	•

	EMDX – ELECTRIC 6-TON DUMPER SWIVEL TIP SKIP
COLOUR & BRANDING	
Standard machine colour - Mecalac "Electric Blue e-series" & grey	•
Mecalac standard branding	•
Custom machine colour	0
TELEMATICS	
MyMecalac Telematics - including app	•
Start-up digicode (linked to telematics)	•
OTHERS	
Articulated and oscillating chassis	•
Traction tyres	•
Towing/recovery bracket	•
Heavy-duty articulation lock	•
Loose wheel nut indicator	•
Charging socket (Type 5P - Industrial)	•

Country packs available • = Standard o = Optional

Biodegradable hydraulic oil

Charging socket (Type 2)

German / Swiss road homologation kit

Spare wheel

Standard and optional equipment may vary. Consult your Mecalac dealer for details.



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Featured machines in

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