

Mecalac

VERSATILE CRAWLER EXCAVATOR **8 MCR**



> Experience of your worksite

8MCR an infinite number of solutions

Mecalac offers you an excavator, a compact loader and the performance which you expect. No need to have lots of equipment, the 8MCR carries out 100% of the tasks required on the site.



Mecalac, driven by Innovation!

Developments and the attention paid to changes in the needs of the professionals who create our urban landscapes have been at the heart of Mecalac's preoccupations since the company was founded. By combining an excavator and a compact loader in the same machine the 8MCR embodies these values and represents a revolution in the way sites are approached. ISO standardised controls make operation simple and intuitive in both modes.

10 kph

100 %
Loader

100 %
Excavator

MECALAC VERSATILE EQUIPMENT

Lifting control (boom cylinder) with the right control lever

- Automatic turret alignment *
- Bucket return *
- Attitude correction *

- ▶ Safety
- ▶ Profitability

* Option

ACTIVE LOCK QUICK-RELEASE COUPLING

Fast accessory changes

- ▶ Performance
- ▶ Safety
- ▶ Simplicity

TRANSMISSION OF FORCE TO THE CHASSIS

No constraints on the equipment,

- ▶ Operator comfort
- ▶ Efficiency when gathering materials, levelling
- ▶ Loading efficiency

EXCELLENT VISIBILITY THROUGH 360°

- ▶ Safety

TRAVELLING WITH THE CONTROL LEVER

Easy to drive
Intuitive controls

- ▶ Operator comfort

MECALAC VERSATILE EQUIPMENT

Variable range, boom travel 140°, perfectly integrated tandem drive offset

- ▶ Compactness
- ▶ Stability
- ▶ Lift force

CYLINDER COUPLING

Just one control used

- ▶ Easy to operate
- ▶ Wide work range

ACTIVE LOCK QUICK-RELEASE COUPLING

Fast accessory changes

- ▶ Performance
- ▶ Safety
- ▶ Simplicity

EXCELLENT VISIBILITY THROUGH 360°

- ▶ Safety

DUAL SENSO DRIVE

Triangular roller tracks
Double hydrostatic transmission closed circuit and automotive regulation

- ▶ Max speed 10 kph

DUAL SENSO DRIVE

Double closed circuit hydrostatic transmission

- ▶ Maximum speed 10 kph

Thanks to the **ACTIVE LOCK**, quick-release coupling, accessories (back-hoe, ditching, loading buckets, forks, handling plates, etc.) can be changed in just a few seconds.

And the flexibility of the 8MCR goes much further since the auxiliary lines permit the use of a wide variety of hydraulic tools such as hammers, cutters, augers, concrete mixers, etc.



Mecalac equipment offers a reach between 0 and 6.50 m, enabling a trench to be opened beyond a wall or a slope thanks to the offset, to sand, load in the narrowest alleyways or lanes, the most difficult sites.

The boom of our drive train folds in to 140° to offer maximum stability associated with exceptional lifting performance. Do you have any doubts about the ability of your equipment to handle heavy loads? Then look forward to being surprised when you see how well the 8MCR carries out a full rotation with a load of 3 tonnes*, its potential might suddenly interest you.

*With handling plate



8MCR Concentrated performance

A new star is born, moving as fast as 10 kph and bringing in its wake a range of benefits: manoeuvrability, speed, space management, performance... and a new pleasure. Experience the 8MCR.

Minimum dimensions Maximum range

The 8MCR digs and then discharges to the rear in just 2.66 m.

Its compactness is actively expressed in each of the tasks it carries out.

Thanks to Mecalac equipment's unique drive train, you can:

- ▶ dig, offload including from the edge of the blade or tracks
- ▶ backfill as you go adjacent to the tracks with the loader buckets
- ▶ safely handle a load of more than 3 tonnes
- ▶ distribute pallets on site or unload a lorry using forks and deposit them behind a wall or a fence, at a height or in the foundations of a building.

● 2660 mm ←

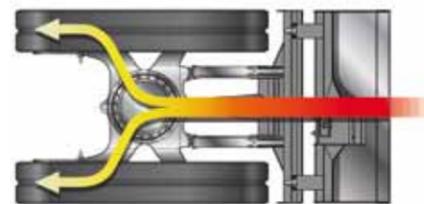


The roller tracks are fitted with alternate offset rollers to avoid tracks being thrown.

A true loader

Gathering takes place with the loader bucket supported on the blade, two immediate benefits for your performance and for the longevity of your 8MCR:

- ▶ no constraints on the equipment
- ▶ increased loading efficiency thanks to the force transmitted directly from the chassis to the bucket.



The transmission of force by the bucket to the chassis (Patented)

With Mecalac's **DUAL SENSO DRIVE** technology, combining automotive regulated closed circuit double hydrostatic transmission and a dedicated pump and hydraulic circuit on each track, you benefit from:

- ▶ efficient, accurate travelling available at any time.
- ▶ synchronised movements
- ▶ rapid execution speed
- ▶ unequalled comfort and productivity **10 kph**, an exceptional speed, regardless of mode, considerably reduces the time spent travelling between the different parts of the site (material, pallet, accessory storage areas, earthmoving area, etc), a further guarantee of the efficiency of your work.

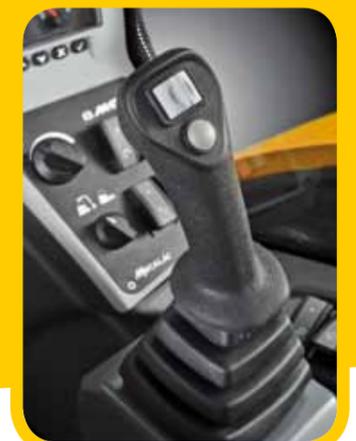
Designed for intuitive operation selecting excavator mode, or compact loader mode

A selector enables you to choose the operating method using ISO standardised excavator or compact loader controls. Familiarisation is instant and the single mode of operation thanks to grouped functions and the transformation of into loader mode using the control lever.

The 8MCR is then operated with just one hand with remarkable precision. Installed in a very spacious cab with a large glazed area, the operator remains comfortably installed in their seat and enjoys a perfect view of their environment, guaranteeing productivity and safety.



A new TFT colour screen makes the control panel very easy to use. Regardless of brightness, the operator can easily view all useful information: mode currently being used, speed, engine speed, number of hours, cylinder selected, safety features activated.



Extensive but often cluttered, **building** sites call for the use of a variety of machines able to adapt to unstable surfaces. This is ideal terrain for the 8MCR which will be able to fully express its versatility:

- ▶ transport and deposit pallets at floor level or in a villa's foundations
- ▶ earthmoving and landscaping around constructions
- ▶ cleaning up building areas.

...and its speed:

- ▶ work on platforms in loader mode with speed, precision and efficiency.



Sewerage systems are one of Mecalac's specialities and the 8MCR does not betray this reputation. No cranny is safe from the factory offset, the 8MCR operates fast and accurately and removes materials for recycling in even the narrowest alleyways. It sands as a loader and then installs the pipes and hoses without difficulty. A 10 kph, the journey to pick up materials only takes a few seconds.



The equipment's lifting capabilities and versatility mean that it will have a thousand different uses for **landscapers** moving earth, preparing the ground, levelling or transporting pallets.

When fitted with an auger, putting up fences or planting trees becomes simple and effective.

And if you need to load or move earth, you are at the controls of a compact loader. Take up your loader bucket and switch to loader mode.



And when transporting you 8MCR, a simple 6X4 or an Ampiro trailer are all you need, you can load your 8MCR and its equipment onto your lorry without difficulty.



A	Overall length	3,088 mm
B	Overall height	2,772 mm
C	Machine height (without attachment)	2,594 mm
D	Cover height	1,670 mm
E	Rear overhang	1,250 mm
F	Front overhang	1,680 mm
G	Width with 450 rubber tracks	2,110 mm
H	Height below turret	710 mm
I	Ground clearance	300 mm
J	Counterweight range	1,250 mm
K	Folded position height	4,430 mm
L	Minimum working diameter	Ø 2,660 mm
M	Height with blade raised	350 mm



Weight

- Without load, in working order, without bucket, rubber tracks, with levelling blade.
- Full tank of fuel and operator 6,925 kg
- Ground Pressure 0.31 kg/cm²

Engine

- Turbocompressed engine with inlet air cooling compliant with TIER 3 regulations
- Brand CUMMINS
- Type 4BT3.3 TAA
- Diesel 4 in-line cylinders
- Horsepower (DIN 70020) 60kW (81 hp)
- Engine speed 2,200 rpm
- Max. torque 294 Nm at 1,600 rpm
- Cubic capacity 3,300 cm³
- Cooling water
- Air filter Cyclonic, dry, cartridge
- Fuel consumption (depending on operating conditions) .. 8 to 9 l/h
- External sound level 98 dB(A)

Electrical circuit

- Batteries 12 V (175 A)
- Voltage 12 V
- Alternator 12 V (55 A)
- Starter 12 V (2.7 kW)

Undercarriage

- Central X frame chassis. Triangular beams
- Rubber tracks, width 450 mm
- Travelling rollers/Support roller 6/1
- Chain tension: sprung shock absorber with grease stress chamber.
- Levelling blade actuated by a cylinder with safety valve.
 - Width 2,100 mm
 - Height 423 mm
 - Lift height/ground 377 mm
 - Max. depth underground 327 mm

Transmission

Closed circuit hydrostatic transmission. **SENSO DRIVE**

- Transmission hydraulics: 1 dual variable displacement pump, automotive power control.
- Flow rate 2x100 l/min
 - Maximum pressure 360 bar
 - 2 x 2 speed gear motors with automatic brakes.
 - Foot pedal control in excavator mode.
 - Control lever control in compact loader mode.
 - Tractive force 5,400 daN
 - Travelling speed Range I - 5.0 kph
 - Range II - 10.0 kph

Hydraulic system

Attachment and rotation circuit

- Variable displacement pump 45 cm³
- ACTIVE CONTROL** power control
- "Load Sensing - Flow Sharing" type 7SX12 LUDV main control valve block, proportionality of functions maintained regardless of the pressure level in individual elements.
- Maximum flow rate 100 l/min
- Maximum working pressure 280 bar

Accessory line:

- Variable flow rate between 30 and 100 l/min (80 l/min standard)
- Pressure can be set between 100 and 280 bar (180 bar standard)
- Accessory control by proportional hydraulic control integrated in the right control lever.

Operating modes:

- EXCAVATOR MODE** enables the machine to be operated like an excavator:
 - Turret rotation and dipperstick control with the left control lever,
 - Bucket and intermediate boom or boom control with the right control lever
 - Travelling control using foot pedals.

- The **COMPACT LOADER MODE** enables the machine to be operated like a tracked compact loader:

- Travelling and counter rotation with the left control lever.
- Lifting (intermediate boom) and bucket controlled with the right control lever.
- Rotation "recovery" capability with the left control lever.

Other hydraulic functions:

- The **cylinder coupling** function simultaneously combines the movements of the dipper and intermediate boom cylinders to enable operation exactly like an excavator with one-piece boom.
- The **bucket direction inversion** function enables the operator to invert controls of the bucket cylinder with the right control lever to simulate the manoeuvring direction of a loader.

Turret

- Full rotation 360°.
- Slewing by slow hydraulic motor with automatic braking assured by discs equipped with anti-bounce pressure relief valve.
- Driven by internal crown slewing wheel.
- Rotation speed 10 rpm
- Rotation torque 1,690 daNm

Capacities

- Hydraulic oil tank 65 l
- Hydraulic oil circuit 115 l
- Fuel 60 l
- Cooling system 16 l

Equipment

- Mecalac variable range kinematics consisting of 4 parts: boom, intermediate boom, offset jib and dipperstick.
- Right and left offset by hydraulic cylinder. System enabling all penetration force to be conserved regardless of the angular position of the offset jib.
- Left offset 1,630 mm - Right offset 2,030 mm
- Boom cylinder with end of travel shock absorber.
- ACTIVE LOCK ACCESSORY QUICK RELEASE COUPLING SYSTEM**
 - Take up with automatic mechanical locking and hydraulic safety overlocking.
 - Hydraulically-controlled unlocking.

Equipment performance

Performance in excavator mode

- Max. penetration force 2,800 daN
- Max. digging force 4,900 daN

Width mm	Dome capacity ISO 7451 l	Number of teeth	Weight kg
350	105	2	105
450	135	3	122
600	195	4	176
750	255	5	197
900	315	5	216

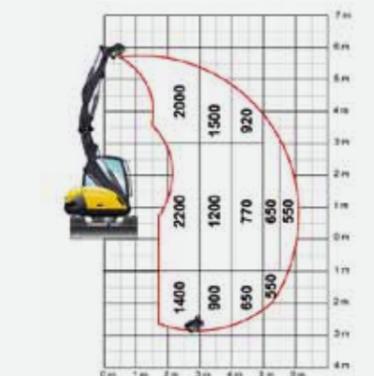
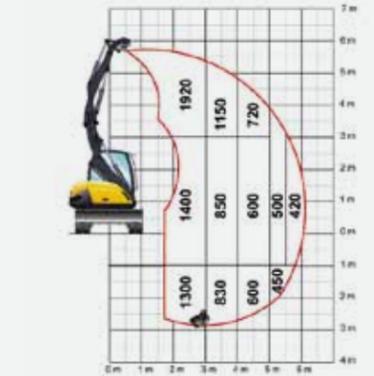
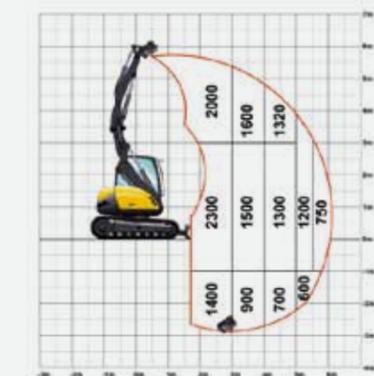
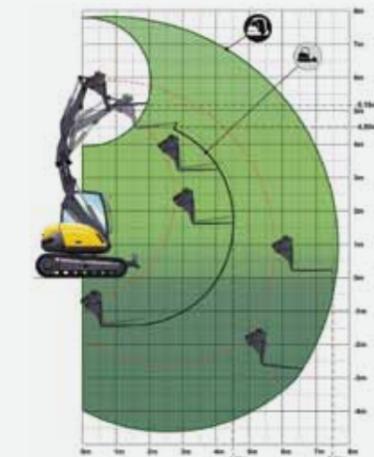
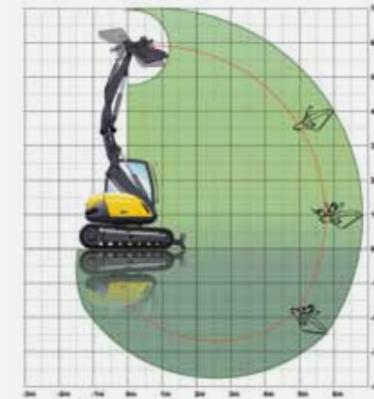
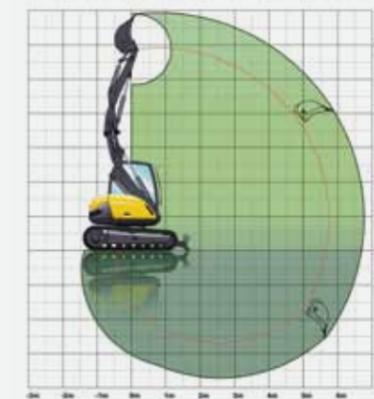
Performance in Compact loader mode

- Digging force 5,200 daN

Bucket type	Width mm	Capacity l	Weight kg
"Skid" bucket without teeth	2,100	530	338
Loader bucket with/without teeth	2,100	534	352/329
4x1 bucket with/without teeth	2,100	550	544/520

Cab

- Extremely comfortable panoramic cab.
- Monocoque cab fastened to 4 spring posts.
- Fully retractable front windscreen.
- Seat can be set and adjusted to operator height and weight.
- Water heating system compliant with ISO 1026.
- Independent settings for control lever support consoles.
- Controls assisted by ergonomic, proportional control levers.
- Dial display of fuel level and coolant temperature.
- Control panel including colour screen with automatic brightness and contrast setting.
- One front working light.
- Rear storage area.
- Sound level in cab 78db(A)
- Air-conditioning (option).
- Stereo radio, CD player (option).



Stability loads and hydraulic limits according to standard ISO 10567.

8 MCR

Our mission is to design, develop, manufacture and distribute quality product. Our innovative machines perform many varied and demanding tasks within your environment.

Customers are the heart of our company. We provide them with our knowledge, experience and the team spirit that drives Mecalac.



Mecalac

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The Mecalac Group S.A. manages **MECALAC** and **AHLMANN** Brands.