MECALAC

SKID-EXCAVATORS high-speed

6MCR/8MCR/10MCR

> Experience of your worksite

SKID-EXCAVATORS high-speed

6MCR
8MCR
10MCR

WORK BETTER

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 MCR embodies these values and represents a revolution in the way sites are approached.
Our goal: to modernise work methods and contribute to your sites' productivity by designing the most suitable equipment.

MECALAC VERSATILE EQUIPMENT

✔ Lifting control (boom cylinder) with the right control lever

AUXILIARY LINE WITH PROPORTIONAL CONTROL (2nd line possible as option)

ACTIVE LOCK QUICK COUPLING

Fast accessory changes

✔ ***Performance***
✔ ***Safety***
✔ ***Simplicity***

EXCELLENT VISIBILITY THROUGH 360°

TRAVELLING WITH THE CONTROL LEVER

✔ Easy to drive
✔ Intuitive controls

RANGE OF ACCESSORIES

✔ Skid bucket, standard loader bucket and 4x1 bucket
✔ Forks
✔ Hydraulic accessories

TRANSMISSION OF FORCE TO THE CHASSIS

✔ Loader configuration
✔ No constraints on the equipment,
✔ Operator comfort
✔ Efficiency when gathering materials, levelling

DUAL SENSO DRIVE

✔ Triangular roller tracks
✔ Double hydrostatic transmission closed circuit and automotive regulation
✔ ***Max speed 10 kph***

100% Loader

6MCR 5,7 t
55kW (75hp)

8MCR 7,2 t / 7,6 t*
55kW (75hp)

10MCR 9,4 t / 10 t*
74kW (100hp)

* depending on configuration

Up to 10 km/ph

100% Excavator

MECALAC VERSATILE EQUIPMENT

Variable range, boom travel 140°, perfectly integrated offset mechanism

- ✔ ***Compactness***
- ✔ ***Stability***
- ✔ ***Lift force***

ACTIVE CONTROL
Flow Sharing, Load Sensing

Proportionality and synchronisation of movements

- ✔ ***Easy to operate***
- ✔ ***Operator comfort***

CYLINDER COUPLING

Just one control used

- ✔ ***Easy to operate***
- ✔ ***Wide work range***

ACTIVE LOCK COUPLING

Fast accessory changes

- ✔ ***Performance***
- ✔ ***Safety***
- ✔ ***Simplicity***

EXCELLENT VISIBILITY THROUGH 360°

- ✔ ***Safety***

DUAL SENSO DRIVE

- ✔ Double closed circuit hydrostatic transmission
- ✔ ***Maximum speed 10 kph***

Thanks to the ***ACTIVE LOCK***, quick 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 7.40m*, 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.

** depending on model*

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8MCR
10MCR

CROSS ALL OBSTACLES

The speed and efficiency of the MCR when carrying out excavation works are matched by their accuracy for placing backfill or for handling pallets or materials.

COMPACTNESS

Mecalac has a strong tradition of pipe laying and cable installation expertise, the 6MCR, 8MCR and 10MCR contribute to this reputation.
Quick and accurate trench excavation, removal of materials for recycling, even in the narrowest streets, placing the sand bedding with the loader and laying pipes, there is no task that the inbuilt offset arm of the MCR cannot perform.

Even the largest sheeting can be lifted, moved and then set down smoothly and safely.
Its high speed up to 10 kph is available at all times and increases productivity significantly. Switching from one mode to another is immediate, tools can be changed very quickly with the Mecalac ***Active Lock***, and each manœuvre is made under complete control.

Tree clearing, ditch cleaning, planting, pruning... the all-terrain 6MCR, 8MCR and 10MCR are the ideal machines for landscaping and related tasks.

EFFICIENCY

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.
Thanks to its powerful tractive force and low lift, the 8MCR can adapt to any terrain. Its uniquely compact design with folding equipment enables it to reach areas that are otherwise inaccessible, and also lends unsurpassed stability.
When rock filling, it supplies the force needed to move the largest rocks and the greatest precision to adjust their position.
When landscaping a swimming pool, you will appreciate its working range, the flexibility of the offset and of course its operating speed.

Each worksite is unique and the MCR offer multiple solutions for adapting to working conditions without ever losing productivity.

SKID-EXCAVATORS high-speed

6MCR
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ACCEPT MORE JOBS

Trenching, battering, levelling, distributing pallets of materials... the MCR are the ideal machines for building sites and ensure optimum performance.

VERSATILITY

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 MCR carry out a full rotation with a load representing 40% of their own weight, you will be interested in its potential.

Extensive but often cluttered, building sites call for the use of a variety of machines able to adapt to unstable surfaces. They are therefore an ideal environment for the 6MCR, 8MCR and the 10MCR to fully demonstrate their **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.

Handling with forks below the ground level, this is unique for an excavator.

Their potentiel can now be utilized to perform the full range of tasks required on site. They have unrivalled performance and power and can travel at unprecedented speeds.

PERFORMANCE

Independent, powerful, fast when travelling also in work cycles, it can be used for all site work, and its versatility ensures that your sites are profitable.

And when transporting your 6MCR or your 8MCR, a simple 6X4 or a tipper lorry are all you need.

SKID-EXCAVATORS high-speed

6MCR
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SIMPLIFY YOUR WORK

A selector enables you to choose the operating method using ISO standardised excavator or compact loader controls.

EASY AND EFFICENT

Familiarisation is instant and the single mode of operation thanks to grouped functions and the transformation into loader mode using the control lever.

The MCR can be controlled with remarkable precision with only one hand. The operator is comfortably seated inside a very spacious, well glazed cab, providing a perfect view and ensuring increased 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.

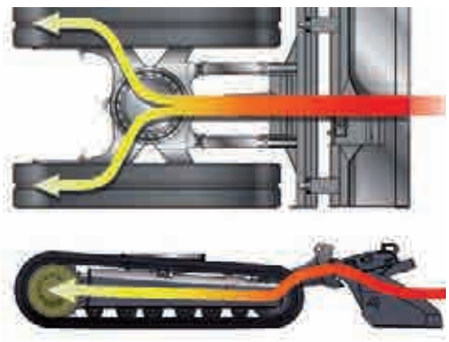
Fewer vehicle deployments means lower fuel consumption, less damage and ground compaction, less annoyance for local residents, fewer dangers for site workers and improved productivity because of fewer stoppages.

LOAD
WHEN YOU CHOOSE

A TRUE LOADER

Loading is done with the loader bucket supported on the blade, two immediate benefits for your performance and for the longevity of your MCR:

- No constraints on the equipment
- Increased loading efficiency thanks to the force transmitted directly from the chassis to the bucket.



Patented system for recovering the forces induced by the loader bucket pressing on the blade during the loading or stripping phase.

DUAL SENSO DRIVE

Efficient, accurate translational movement available at all times. This provides many advantages: simultaneous movements, speed of operation, operator comfort and efficiency.
The MCR can be converted into compact loaders in an instant, the time needed to change from one mode to the other with the selector.

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, earth-moving area, etc), a further guarantee of the efficiency of your work.

* depending on models

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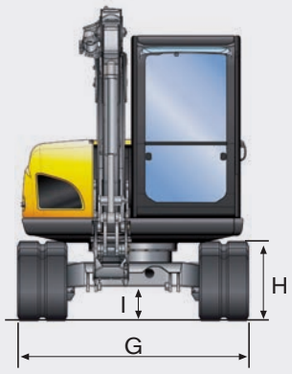
TECHNICAL CHARACTER



		6MCR	8MCR	10MCR
A	Overall length	2763 mm	3088 mm	3274 mm
B	Overall height	2772 mm	2772 mm	2970 mm
C	Machine height (without attachment)	2582 mm	2594 mm	2657 mm
D	Cover height	1598 mm	1670 mm	1730 mm
E	Rear overhang*	1170 mm	1250 mm	1484 mm
F	Front overhang	1680 mm	1680 mm	1789 mm
G	Width with 400 rubber tracks	2030 mm	-	-

		6MCR	8MCR	10MCR
G	Width with 450 rubber tracks	-	2110 mm	2300 mm
H	Height below turret	710 mm	710 mm	790 mm
I	Ground clearance	300 mm	300 mm	340 mm
J	Counterweight range*	1170 mm	1250 mm	1380 mm
K	Folded position height	4131 mm	4430 mm	4890 mm
L	Minimum working diameter*	2667 mm	2660 mm	3237 mm
M	Height with blade raised	358 mm	350 mm	468 mm

* For additional counterweight, add 100 mm on E, J and L

WEIGHT

	6MCR	8MCR	10MCR
• Without load, in working order, without bucket, rubber tracks, with levelling blade, full tank of fuel and operator	5700 kg	7200/7600 kg*	9400/10000 kg*
Additional counterweigh	400 kg	425 kg	590 kg*
Ground Pressure	0,32 kg/cm²	0,31 kg/cm²	0,37 kg/cm²

ENGINE

	6MCR	8MCR	10MCR
Turbo charged engine with intercooler, EGR valve and catalytic converter (DOC), complying with standard	TIER 4i / STAGE IIIB	TIER 4i / STAGE IIIB	TIER 4i / STAGE IIIB
- Brand	DEUTZ	DEUTZ	DEUTZ
- Type	TD 2,9 L4	TCD 2,9 L4	TCD 3,6 L4
- Diesel	4 in-line cylinders	4 in-line cylinders	4 in-line cylinders
- Horsepower (DIN 70020)	55kW (75hp)	55kW (75hp)	74kW (100hp)
- Engine speed	2,000 rpm	2,000/2,300 rpm	2,100/2,200 rpm
- Max. torque	260 Nm at 1,800 rpm	300 Nm at 1,600 rpm	415 Nm at 1,600 rpm
- Cubic capacity	2,900 cm³	2,900 cm³	3 600 cm³
- Cooling	water	water	water
- Air filter	Cyclonic, dry, cartridge	Cyclonic, dry, cartridge	Cyclonic, dry, cartridge
- Fuel consumption (depending on operating conditions)	8 to 9 l/h	8 to 9 l/h	8 to 11 l/h
- External sound level	99 dB(A)	99 dB(A)	101 dB(A)

ELECTRICAL CIRCUIT

	6MCR	8MCR	10MCR
• Batteries	12 V (175 A)	12 V (175 A)	12 V (175 A)
• Voltage	12 V	12 V	12 V
• Alternator	12 V (95 A)	12 V (95 A)	12 V (95 A)
• Starter	12 V (2.6 kW)	12 V (2.7 kW)	12 V (2.7 kW)

* depending on configuration

UNDERCARRIAGE

	6MCR	8MCR	10MCR
• Central X frame chassis. Triangular beams			
• Rubber tracks, width	400 mm	450 mm	450 mm
• Travelling rollers/Support roller	5/1	6/1	6/1
• Chain tension: sprung shock absorber with grease stress chamber.			
• Levelling blade actuated by a cylinder with safety valve.			
- Width	2030 mm	2100 mm	2300 mm
- Height	330 mm	423 mm	420 mm
- Lift height/ground	358 mm	377 mm	468 mm
- Max. depth underground	340 mm	327 mm	248 mm

TRANSMISSION

	6MCR	8MCR	10MCR
• Closed circuit hydrostatic transmission ***SENSO DRIVE***			
• Transmission hydraulics: 1 dual variable displacement pump, automotive power control.			
- Flow rate	2x90 l/min	2x100 l/min	2x105 l/min
- Maximum pressure	360 bar	360 bar	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	4000 daN	5400 daN	6800 daN
- Travelling speed Range I	5.5 kph	5.0 kph	4.5 kph
Range II	10.0 kph	10.0 kph	9 kph

HYDRAULIC SYSTEM

	6MCR	8MCR	10MCR
Attachment and rotation circuit			
• Variable displacement pump:	45 cm³	63 cm³	75 cm³
• ***ACTIVE CONTROL*** power control			
- "Load Sensing - Flow Sharing" type LUDV main control valve block, proportionality of functions maintained regardless of the pressure level in individual elements.	7SX12	7SX14	7SX14
Maximum flow rate	90 l/min	126 l/min	160 l/min
Maximum working pressure	280 bar	280 bar	300 bar
Standard accessory line			
Maximum flow available	90 l/min.	90 l/min	140 l/min
Minimum flow available	20 l/min.	20 l/min	35 l/min
• Flow can be set via control panel (factory setting : 80 l/min)			
• Pressure can be set between 120 and 280 bar (factory setting : 180 bar)			
• Proportional hydraulic control of the attachment integrated on right-hand joystick			
Extra accessory line (diverted from offset cylinder)			
Max. flow available	30 l/min	30 l/min	30 l/min
• Flow can be set via control panel (factory setting : 30 l/min)			
• Pressure max. 280 bar fixed			
• Proportional hydraulic control of the attachment integrated on right-hand joystick			

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

	6MCR	8MCR	10MCR
• 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	10 rpm	10 rpm
• Rotation torque	1330 daNm	1690 daNm	2125 daNm
Capacities			
• Hydraulic oil tank	60 l	65 l	80 l
• Hydraulic oil circuit	90 l	115 l	140 l
• Fuel	73 l	75 l	105 l
• Cooling system	18 l	16 l	16 l

EQUIPMENT

	6MCR	8MCR	10MCR
• 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	1150 mm	1630 mm	1630 mm
• Right offset	1830 mm	2030 mm	2030 mm
• Boom cylinder with endof travel shock absorber.			
• ***ACTIVE LOCK*** accessory coupling system			
- Take up with automatic mechanical locking and hydraulic safety overlocking.			
- Hydraulically-controlled unlocking.			
Equipment performance			
Performance in excavator mode			
• Max. penetration force	2580 daN	2800 daN	3430 daN
• Max. digging force	4170 daN	4900 daN	6000 daN
Performance in Compact loader mode			
• Digging force	2800 daN	3600 daN	4200 daN

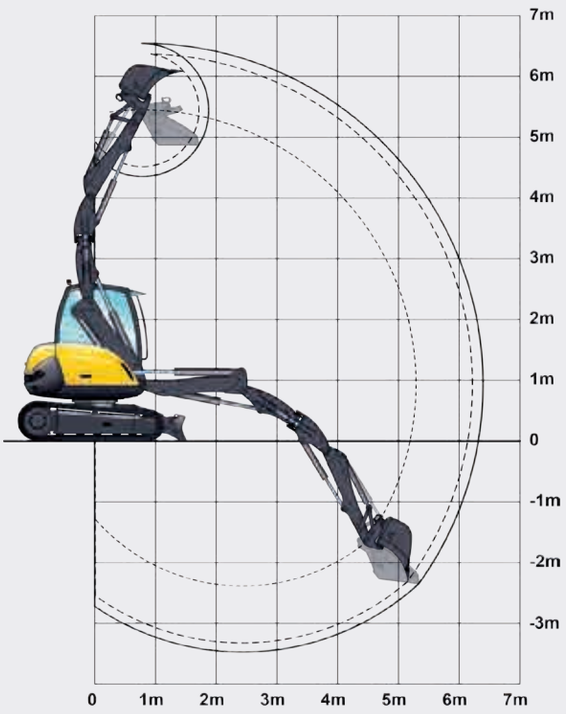
CAB

- FOPS approved with guard
- ROPS approved
- 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
- Proportional hydraulic control of the attachment integrated on right-hand joystick
- One front working light
- Rear storage area
- Sound level in cab: 78db(A)
- Air-conditioning (option)
- Stereo USB radio (option)
- Heated and air suspended seat (option)

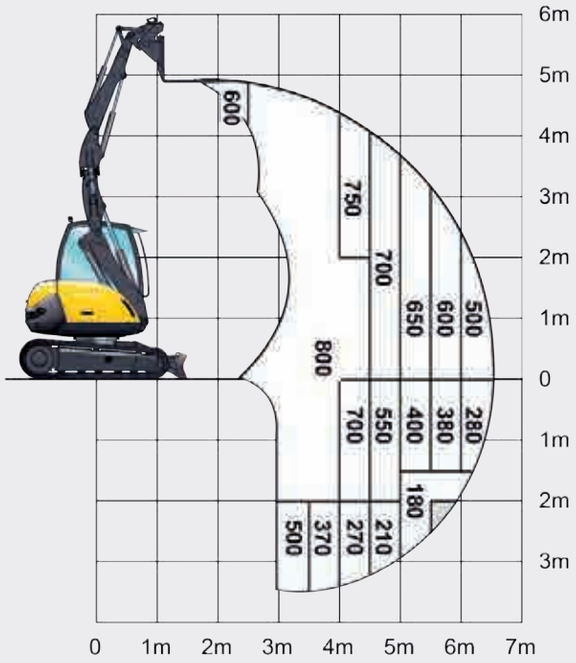
SKID-EXCAVATORS high-speed

6MCR

TECHNICAL CHARACTERISTICS



Bucket type	Width	Capacity	Weight	
Digging bucket	350 mm	85 l	83 kg	2 teeth
	450 mm	115 l	92 kg	3 teeth
	600 mm	160 l	120 kg	4 teeth
	750 mm	205 l	134 kg	5 teeth
	900 mm	250 l	155 kg	5 teeth
"Skid" bucket	2030 mm	450 l	330 kg	
4x1 "Skid" bucket	2030 mm	420 l	497 kg	



Lifting capacity

All the weights are given in kg. The calculations are carried out for the entire range of the Mecalac quick coupling.

Lifting point height	Lifting point radius							
	2 m		3 m		4,5 m		5,5 m	
	0°	360°	0°	360°	0°	360°	0°	360°
3,5 m	-	-	1900 1580	2000 1580	1400 1190	900* 770	-	-
3 m	-	-	2100 1640	2100 1570	1600 1220	940* 760	-	-
1,5 m	3000 2810	3000 2810	3000 2000	2100* 1550	1700 1340	920* 700	1100 1090	550* 500
0 m	3000 2550	3000 2550	3000 1980	2100* 1300	1700 1310	850* 650	-	-
-1,5 m	3000 2200	3000 2200	2700 1300	1800* 1250	1200 780	750* 620	-	-
-2,5 m	3000 2040	3000 2040	1600 1220	1600 1220	-	-	-	-

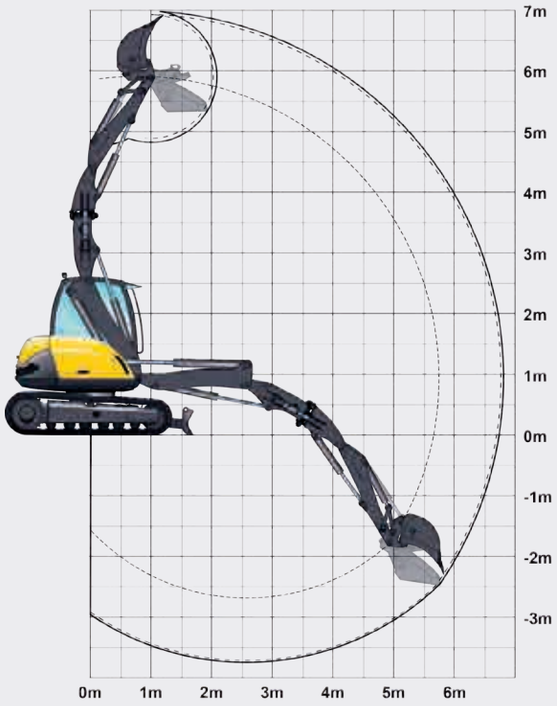
Working in longitudinal position on blade side Working in transverse position

Lift capacities are in compliance with the ISO 10567. They do not exceed 87% of the hydraulic capacities or 75% of the minimum tipping load that can be lifted, on a firm, uniform supporting surface.
They are indicated for the Mecalac quick coupling lifting hook (3 tons), for the most unfavorable boom position, and with the blade on the ground.

Maximum load in kg for the area in optimum equipment configuration according to ISO 10567.

The lifting capabilities shown with an asterisk (*) are limited by the tipping load that can be lifted. Other values are limited by the hydraulic capabilities. 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.

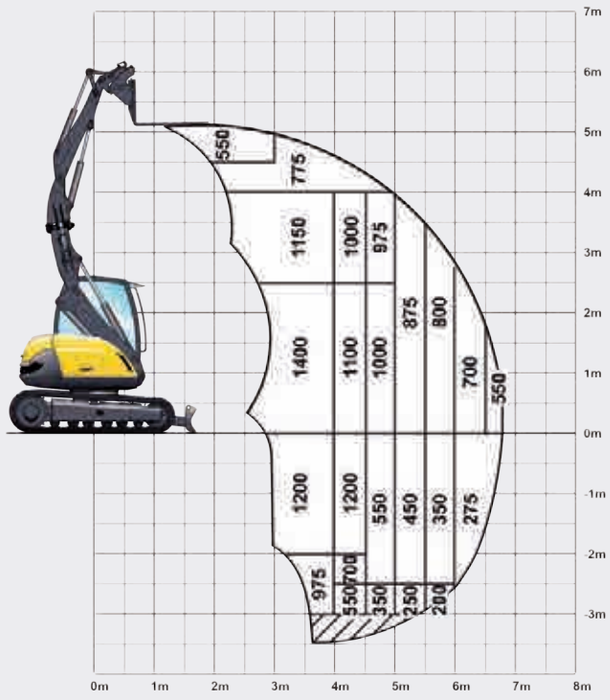
TECHNICAL CHARACTERISTICS



Bucket type	Width	Capacity	Weight	
Digging bucket	350 mm	105 l	105 kg	2 teeth
	450 mm	135 l	122 kg	3 teeth
	600 mm	195 l	176 kg	4 teeth
	750 mm	255 l	197 kg	5 teeth
	900 mm	315 l	216 kg	5 teeth
"Skid" bucket	2100 mm	530 l	338 kg	
Loader bucket	2100 mm	434 l	329 kg	
4x1 bucket	2100 mm	550 l	520 kg	

Lifting capacity

All the weights are given in kg. The calculations are carried out for the entire range of the Mecalac quick coupling.



Lifting point height	Lifting point radius									
	2 m		3 m		4 m		5 m		6 m	
	0°	360°	0°	360°	0°	360°	0°	360°	0°	360°
5 m	3000 2000	3000 2000	2600 2000	2600 2000	1900 1600	1400* 1200				
3 m	2600 2600	2600 2600	2600 2100	2600 1950	1900 1600	1400* 1200	1800 1320	920* 770	1400 1100	600* 550
1,5 m	3000 2800	3000 2800	3000 2100	2600* 1900	2600 1700	1400* 1100	1800 1300	880* 770	1400 1100	600* 550
0 m	3000 2800	3000 2800	3000 2100	2500* 1650	2600 1800	1400* 1000	1800 1300	850* 700	1200 900	550* 500
-1 m	3000 2400	3000 2400	3000 2300	2400* 1500	2500 1500	1200* 950	1800 1100	780* 650	1000 750	500* 500
-2 m	3000 2000	3000* 2000	3000 1400	2100* 1400	2600 900	1150* 900	1400 650	730* 650	800 500	500* 500
-3 m	3000 2000	3000 2000	3000 1000	1900* 1000	1500 550	1050* 550	600 400	600 400		

Working in longitudinal position on blade side Working in transverse position

Lift capacities are in compliance with the ISO 10567. They do not exceed 87% of the hydraulic capacities or 75% of the minimum tipping load that can be lifted, on a firm, uniform supporting surface.
They are indicated for the Mecalac quick coupling lifting hook (3 tons), for the most unfavorable boom position, and with the blade on the ground.

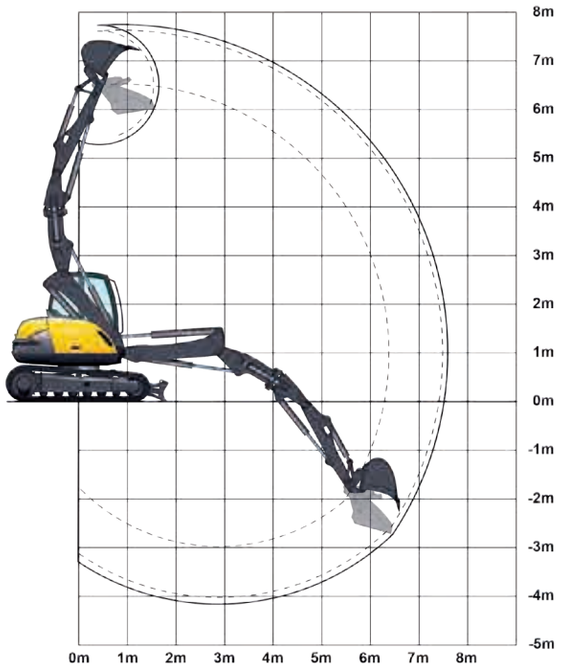
Maximum load in kg for the area in optimum equipment configuration according to ISO 10567.

The lifting capabilities shown with an asterisk (*) are limited by the tipping load that can be lifted. Other values are limited by the hydraulic capabilities. 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.

SKID-EXCAVATORS high-speed

10MCR

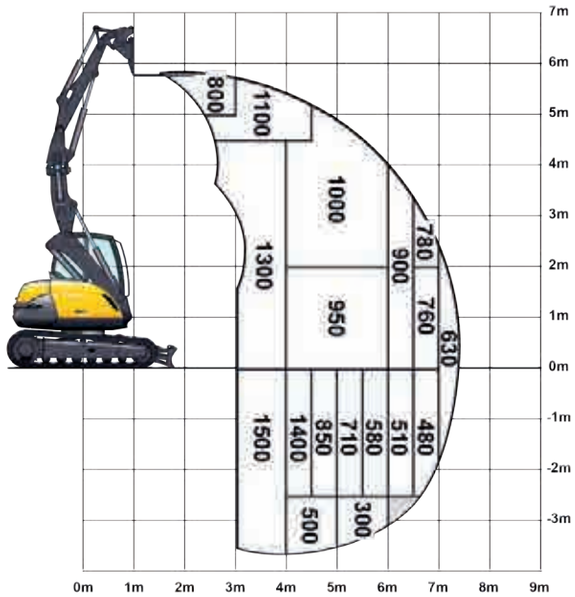
TECHNICAL CHARACTERISTICS



Bucket type	Width	Capacity	Weight	
Digging bucket	350 mm	130 l	83 kg	2 teeth
	450 mm	180 l	92 kg	3 teeth
	600 mm	250 l	120 kg	4 teeth
	750 mm	325 l	134 kg	5 teeth
	900 mm	400 l	155 kg	5 teeth
"Skid" bucket	2300 mm	750 l	430 kg	
Loader bucket	2300 mm	750 l	420 kg	
4x1 bucket	2300 mm	750 l	590 kg	

Lifting capacity

All the weights are given in kg. The calculations are carried out for the entire range of the Mecalac quick coupling.



Lifting point height	Lifting point radius							
	2 m		3 m		4,5 m		6 m	
	0°	360°	0°	360°	0°	360°	0°	360°
3 m			3300 2930	3200 2930	2500 2250	1800* 1590	1800 1810	1000* 870
1,5 m			4000 2770	3600 2770	2800 2440	1800* 1430	1800 1760	1000* 860
0 m	4000 4000	4000 4000	4000 3610	3600* 2500	2800 2170	1800* 1240	1690 1380	900* 800
-1,5 m	4000 3940	4000 3940	2890 2250	3400* 2250	2470 1400	1500* 1190	1400 780	850* 780
-2,5 m	4000 4000	4000 4000	2630 1950	3100* 1950				

Working in longitudinal position on blade side Working in transverse position

Lift capacities are in compliance with the ISO 10567. They do not exceed 87% of the hydraulic capacities or 75% of the minimum tipping load that can be lifted, on a firm, uniform supporting surface.
They are indicated for the Mecalac quick coupling lifting hook (4 tons), for the most unfavorable boom position, and with the blade on the ground.

Maximum load in kg for the area in optimum equipment configuration according to ISO 10567.

The lifting capabilities shown with an asterisk (*) are limited by the tipping load that can be lifted. Other values are limited by the hydraulic capabilities. 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.


MECALAC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MECALAC
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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.

Your dealer

MECALAC

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