MECALAC

MULTIFUNCTIONS
CRAWLERS MACHINES

8 MCR / 10 MCR

> Experience of your worksite

MULTIFUNCTIONS
CRAWLERS MACHINES

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 8MCR / 10MCR 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
- ✔ Automatic turret alignment *
- ✔ Bucket return *
- ✔ Attitude correction *

* Option

EXCELLENT VISIBILITY THROUGH 360°

TRAVELLING WITH THE CONTROL LEVER

- ✔ Easy to drive
- ✔ Intuitive controls

ACTIVE LOCK QUICK COUPLING

Fast accessory changes

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

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

8MCR 7,2 t / 7,6 t*
60 kW (81hp)

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

* depending on configuration

10 km/ph

100% excavator

MECALAC VERSATILE EQUIPMENT

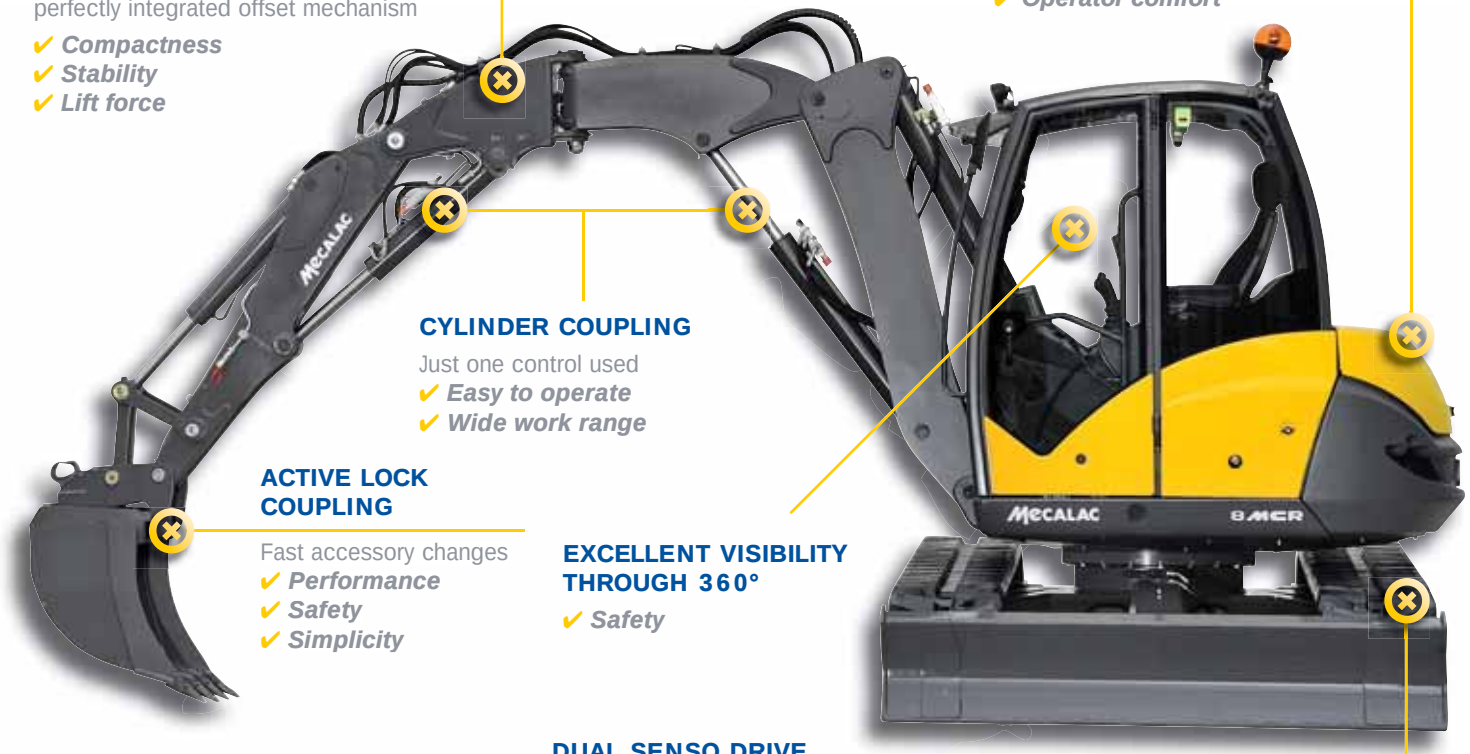
Variable range, boom travel 140°, perfectly integrated offset mechanism

- ✔ *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 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.

MULTIFUNCTIONS
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8MCR
10MCR

CROSS ALL OBSTACLES

The speed and efficiency of the 8MCR and the 10MCR 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, and the 8MCR and the 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 8MCR and 10MCR cannot perform.

Even the largest sheeting can be lifted, moved and then set down smoothly and safely.
Its high speed of 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 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 8MCR / 10MCR offer multiple solutions for adapting to working conditions without ever losing productivity.

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8MCR
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ACCEPT MORE JOBS

Trenching, battering, levelling, distributing pallets of materials... the 8MCR and 10MCR 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 8MCR carries out a full rotation with a load of 3 tonnes*, you be interested in its potential.
*With handling plate

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 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 to a height of more than 5 metres and, unique in an excavator, to a depth of – 2.20 metres

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 8MCR, a simple 6X4 or a tipper lorry are all you need.

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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 8MCR and 10MCR 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.

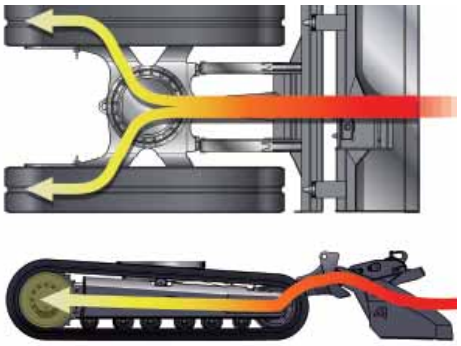
Fewer vehicle deployments means lower fuel consumption, less damage and ground compaction, less annoyance for local residents, fewer dangers for site workers and improved productivity because of fewer stoppages.

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 8MCR:

- 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 8MCR and 10MCR 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.

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TECHNICAL CHARACTER

WEIGHT

	8MCR	10MCR
• Without load, in working order, without bucket, rubber tracks, with levelling blade, Full tank of fuel and operator	7200/7600 kg*	9400/10000 kg*
Ground Pressure	0,31 kg/cm²	0,37 kg/cm²

ENGINE

	8MCR	10MCR
• Turbo charged engine with intercooler compliant with TIER 3 regulations		
- Brand	CUMMINS	CUMMINS
- Type	4BT3.3 TAA	QSB3.3
- Diesel	4 in-line cylinders	4 in-line cylinders
- Horsepower (DIN 70020)	60kW (81hp)	74kW (100hp)
- Engine speed	2,200 rpm	2,200 rpm
- Max. torque	294 Nm at 1,600 rpm	294 Nm at 1,600 rpm
- Cubic capacity	3 300 cm³	3 300 cm³
- Cooling	water	water
- Air filter	Cyclonic, dry, cartridge	
- Fuel consumption (depending on operating conditions)	8 to 9 l/h	7 to 11 l/h
- External sound level	100 dB(A)	98 dB(A)

ELECTRICAL CIRCUIT

	8MCR	10MCR
• Batteries	12 V (175 A)	12 V (175 A)
• Voltage	12 V	12 V
• Alternator	12 V (55 A)	12 V (60 A)
• Starter	12 V (2.7 kW)	12 V (2.7 kW)

UNDERCARRIAGE

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

* depending on configuration

TRANSMISSION

	8MCR	10MCR
Closed circuit hydrostatic transmission. ***SENSO DRIVE***		
Transmission hydraulics:		
1 dual variable displacement pump, automotive power control.		
- Flow rate	2x100 l/min	2x107 l/min
- Maximum pressure	360 bars	330 bars
- 2 x 2 speed gear motors with automatic brakes.		
Foot pedal control in excavator mode.		
Control lever control in compact loader mode.		
- Tractive force	5400 daN	6800 daN
- Travelling speed	Range I - 5.0 kph	4.5 kph
	Range II - 10.0 kph	10.0 kph

HYDRAULIC SYSTEM

	8MCR	10MCR
Attachment and rotation circuit		
• Variable displacement pump:	45 cm³	75 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	165 l/min
- Maximum working pressure	280 bars	300 bars

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.

ISTICS

		8MCR	10MCR
A	Overall length	3088 mm	3274 mm
B	Overall height	2772 mm	2970 mm
C	Machine height (without attachment)	2594 mm	2657 mm
D	Cover height	1670 mm	1730 mm
E	Rear overhang	1250 mm	1484 mm
F	Front overhang	1680 mm	1789 mm
G	Width with 450 rubber tracks	2110 mm	2300 mm
H	Height below turret	710 mm	790 mm
I	Ground clearance	300 mm	340 mm
J	Counterweight range	1250 mm	1380 mm
K	Folded position height	4430 mm	4890 mm
L	Minimum working diameter	2660 mm	3237 mm
M	Height with blade raised	350 mm	468 mm

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

	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
• Rotation torque	1690 daNm	2125 daNm
Capacities		
• Hydraulic oil tank	65 l	80 l
• Hydraulic oil circuit	115 l	140 l
• Fuel	75 l	120 l
• Cooling system	16 l	16 l

EQUIPMENT

	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	1630 mm	1630 mm
• Right offset	2030 mm	2030 mm
• Boom cylinder with end of 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	2800 daN	3430 daN
• Max. digging force	4900 daN	6000 daN
Performance in Compact loader mode		
• Digging force	5200 daN	4300 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.
- One front working light.
- Rear storage area.
- Sound level in cab ..... 78db(A)
- Air-conditioning (option).
- Stereo radio, CD player (option).

	8MCR			10MCR		
Width mm	Dome capacity ISO 7451 l	Number of teeth	Weight kg	Dome capacity ISO 7451 l	Number of teeth	Weight kg
350	105	2	105	130	2	160
450	135	3	122	180	3	183
600	195	4	176	250	3	227
750	255	5	197	325	4	263
900	315	5	216	400	5	293

	8MCR			10MCR		
Bucket type	Width mm	Capacity l	Weight kg	Width mm	Capacity l	Weight kg
"Skid" bucket without teeth	2100	530	338	2300	750	430
Loader bucket with/without teeth	2100	534	352/329	2300	750	420/440
4x1 bucket with/ without teeth	2100	550	544/520	2300	750	590/610

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TECHNICAL CHARACTERISTICS

Lifting capacity with handling plate

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

8MCR : Blade raised

Lifting point height	Lifting point radius							
	2 m		3 m		4,5 m		6 m	
	0°	360°	0°	360°	0°	360°	0°	360°
4,5 m			2375* 1797*	1937 1608	1132 1007	912 853		
3 m	3122 2774*	3097* 2740*	2046 1933*	1930 1520	1168 941	948 743		
1,5 m	3200* 3200*	3200* 2802	2311 1740	1827 1366	1132 853	912 663	575 553	436 421
0 m	3200* 3160	3200 2281	2303 1512	1820 1139	1029 787	817 597	538 524	406 302
-1,5 m	3200* 2621*	3065* 2026	1952 1406*	1505 1058	912 758	707 560		
-3 m								

8MCR: Blade on ground - Front of tracks raised

Lifting point height	Lifting point radius							
	2 m		3 m		4,5 m		6 m	
	0°	360°	0°	360°	0°	360°	0°	360°
4,5 m			2434* 1797*	2069 1726	1551* 1347*	978 920		
3 m	3122* 2774*	3097 2740*	2723* 1933*	2062 1638	1882* 1372*	1014 810		
1,5 m	3200* 3200*	3200* 3044	3200* 2434*	1967 1484	1924* 1551*	985 730	1134* 1066*	480 466
0 m	3200* 3200*	3200 2510	3200* 2224*	1952 1250	1924* 1355*	883 664	879* 752*	450 437
-1,5 m	3200* 2621*	3200 2253	3200* 1406*	1637 1169	1525* 777*	773 627		
-3 m								

Lifting capacity with the hook from the Mecalac quick coupling (3 tonnes)

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

8MCR : Blade raised

Lifting point height	Lifting point radius							
	2 m		3 m		4,5 m		6 m	
	0°	360°	0°	360°	0°	360°	0°	360°
4,5 m			1899* 1500*	1899* 1500*	1124 1124	919 905		
3 m			2434* 1975*	1974 1659	1212 1022	992 817		
1,5 m			2362 1879	1879 1476	1176 941	956 743	612 582	480 450
0 m	3000* 3000*	3000* 2399	2347 1630	1871 1241	1080 861	875 663	582 560	458 428
-1,5 m	3000* 2748*	3000* 2128	2018 1490	1571 1117	963 817	758 619		
-3 m								

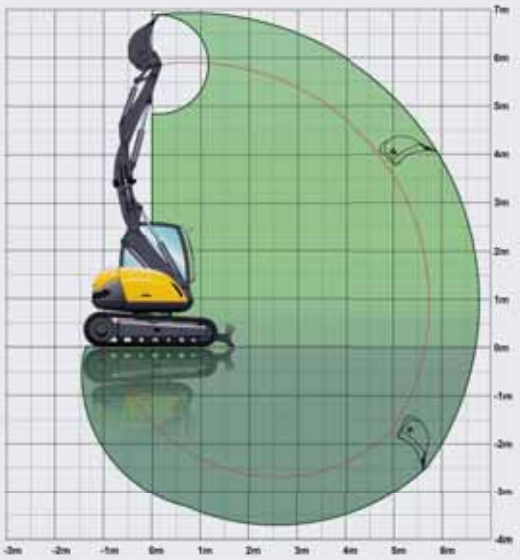
8MCR: Blade on ground - Front of tracks raised

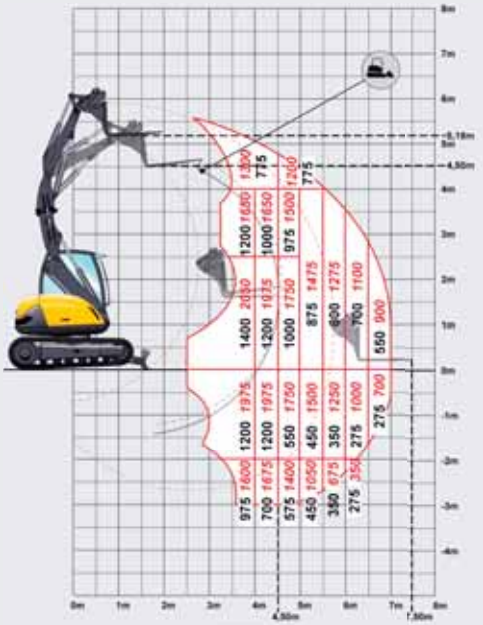
Lifting point height	Lifting point radius							
	2 m		3 m		4,5 m		6 m	
	0°	360°	0°	360°	0°	360°	0°	360°
4,5 m			1899* 1500*	1899* 1500*	1428* 1423*	985 979		
3 m			2468* 1975*	2113 1777	1898* 1398*	1058 884		
1,5 m			3000* 2519*	2018 1594	1975* 1593*	1029 810	1177* 1100*	524 495
0 m	3000* 3000*	3000* 2634	3000* 2383*	2003 1360	1975* 1449*	941 730	981* 845*	502 473
-1,5 m	3000* 2748*	3000* 2348	3000* 1491*	1696 1235	1644* 862*	824 686		
-3 m								

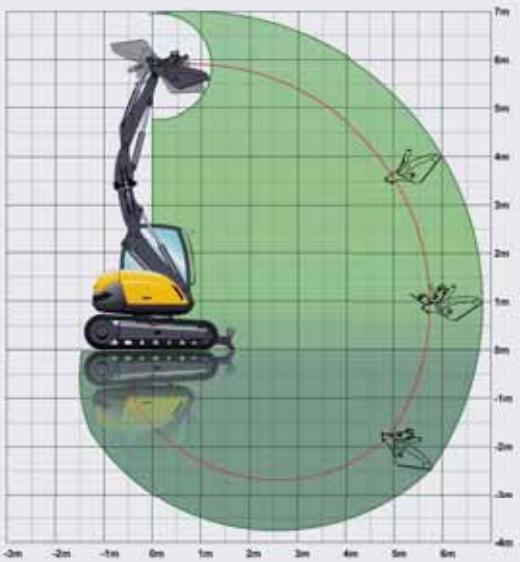
Lift capacities are in compliance with the ISO 10567:2007, they do not exceed 87% of the hydraulic capacities or 75 % of the minimum tipping load that can be lifted, on a firm, uniform supporting surface.

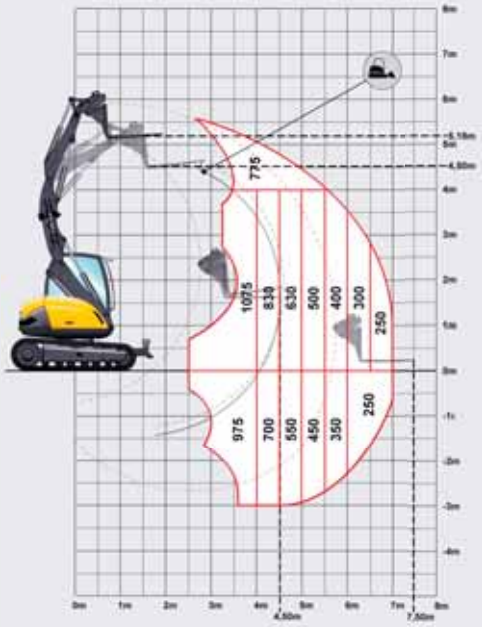
Maximum load in kg for the area in optimum equipment configuration according to ISO 10567.

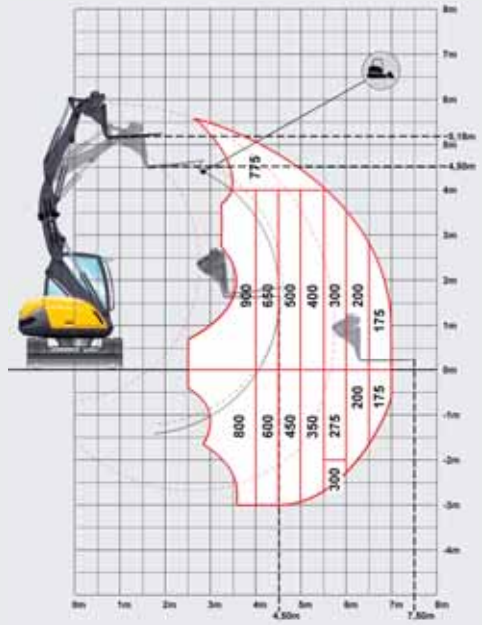
The lifting capabilities shown with an asterisk (*) are limited by hydraulic capabilities.
The weight of the sling and auxiliary lifting devices must be deducted from the nominal load to determine the load which can be lifted.











Stability loads and hydraulic limits according to standard ISO 10567.

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TECHNICAL CHARACTERISTICS

Lifting capacity with handling plate

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

10MCR : Blade raised

Lifting point height	Lifting point radius							
	2 m		3 m		4,5 m		6 m	
	0°	360°	0°	360°	0°	360°	0°	360°
4,5 m			3200* 2990*	3200* 2990*	1980* 1810*	1700* 1550*		
3 m			3810* 2870*	3810* 2870*	2240* 1760	1720 1500	1040 1030	880 880
1,5 m			4350* 2740	3650* 2740*	1960 1560	1680 1310	990 1000	870 800
0 m	4350* 4350*	4350* 4350*	4350* 2850	3160 2300	1750 1420	1490 1180	970 880	810 730
-1,5 m	4350* 4350*	4350* 4350*	2700 2700	2170 2170	1660 1360	1310 1120	940* 910	740 720
-3 m	4350* 4190*	4350* 4190*	2530* 1950*	2530* 1950*	1060* 1060*	1060* 1060*		

10MCR: Blade on ground - Front of tracks raised

Lifting point height	Lifting point radius							
	2 m		3 m		4,5 m		6 m	
	0°	360°	0°	360°	0°	360°	0°	360°
4,5 m			3200* 2990*	3200* 2990*	2690* 2230*	1890 1740		
3 m			3810* 2870*	3810* 2870*	2840* 2240*	1920 1690	1800* 1790*	1000 1000
1,5 m			4350* 2740*	4070* 2740*	3010* 2430*	1870 1490	1930* 1740*	990 920
0 m	4350* 4350*	4350* 4350*	4350* 3610*	3950* 2650*	3020* 2210*	1670 1360	1680* 1350*	930 850
-1,5 m	4350* 4350*	4350* 4350*	3210* 3210*	2520* 2520*	2460* 1390*	1490 1290	940* 910*	940* 910*
-3 m	4350* 4190*	4350* 4190*	2350* 1950*	2530* 1950*	1060* 1060*	1060* 1060*		

Lifting capacity with the hook from the Mecalac quick coupling (4 tonnes)

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

10MCR : Blade raised

Lifting point height	Lifting point radius							
	2 m		3 m		4,5 m		6 m	
	0°	360°	0°	360°	0°	360°	0°	360°
4,5 m								
3 m			3830* 2900*	3830* 2900*	2020 1780	1730 1520	1070 1070	910 910
1,5 m			4350* 2800*	3690* 2800*	1960 1610	1680 1360	990 1000	880 820
0 m	4350* 4350*	4350* 4350*	4350* 2920*	3270 2370	1800 1430	1530 1190	980 910	820 760
-1,5 m	4350* 3940*	4350* 3940*	2390* 2390*	2100 2100	1670* 1360*	1320 1130	950* 950*	750 560
-3 m	4350* 4040*	4350* 4040*	2630* 2030*	2630* 2030*				

10MCR: Blade on ground - Front of tracks raised

Lifting point height	Lifting point radius							
	2 m		3 m		4,5 m		6 m	
	0°	360°	0°	360°	0°	360°	0°	360°
4,5 m								
3 m			3830* 2900*	3830* 2900*	2870* 2350*	1930* 1700	1850* 1850*	1030 1030
1,5 m			4350* 2800*	4040* 2800*	3050* 2560*	1870 1540	1920* 1760*	1000 940
0 m	4350* 4350	4350* 4350*	4350* 3590*	3910* 2720	3060* 2290*	1720 1370	1690* 1390*	940 880
-1,5 m	4350* 3940*	4350* 3940*	2390* 2390*	2390* 2390*	2470* 1400*	1500 1300	950* 950*	950* 950*
-3 m	4350* 4040*	4350* 4040*	2630* 2030*	2630* 2030*				

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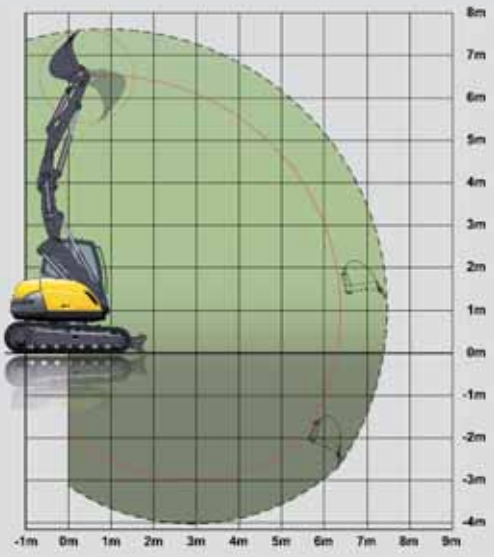
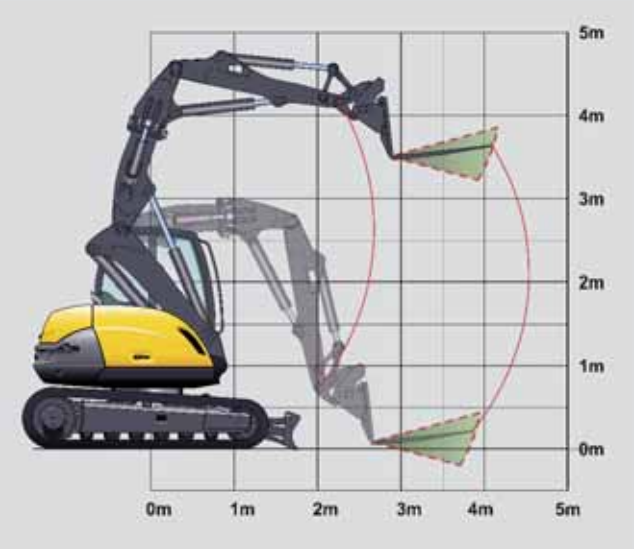
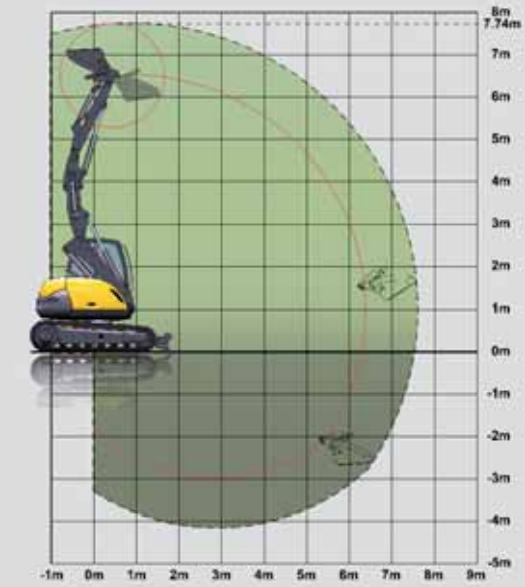
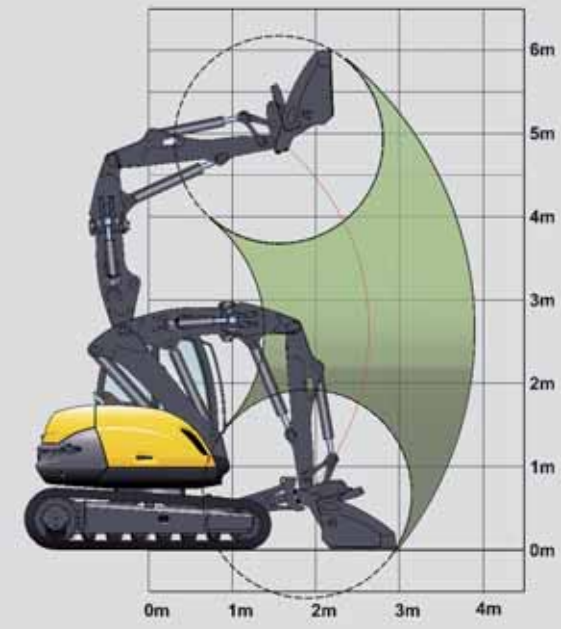
Maximum load in kg for the area in optimum equipment configuration according to ISO 10567.

The lifting capabilities shown with an asterisk (*) are limited by hydraulic capabilities.
The weight of the sling and auxiliary lifting devices must be deducted from the nominal load to determine the load which can be lifted.









Stability loads and hydraulic limits according to standard ISO 10567.

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