

MCR MecALAC



MecALAC



10KM/H

6.2 MPH



Innovation moves mountains; it makes the world turn. We will never stop coming up with new features, striving to improve our current technology and adapting to changing realities and constraints faced; we will excel. Innovation lies at the very core of what our company stands for.

OUR TRADITION

INNOVATION IN MOTION

MCR



Mecalac multifunctional machines originated from a will: only one machine on the site to carry out the work of various machines traditionally used for digging, loading and handling. On the basis of this concept of innovative patented technologies, Mecalac has designed a new generation of machines, combining the performances of rapid crawler excavators and a loader with total rotation, both compact: the MCR available in 6, 8 and 10 tons.

360° ROTATION



OUR VISION: A SINGLE MACHINE

Expertise is born out of experience. Ours is based on the concept that you cannot even begin to consider profitability without first taking into account ease of use combined with operational versatility. When just one driver operating just one machine can handle a wide range of tasks on the same work site with no complicated handling maneuvers to worry about, you begin to completely reconsider what you can achieve in the time you have to work with. In the cab a simple selector switch, the driver can turn his compact excavator into a compact loader and then back again, using the same commands. The Mecalac "CONNECT" hydraulic attachment means that the tool can be changed in just a few seconds, without having to get down from the cab. A major innovation is the use of the joystick for operation translation in loader mode, thus significantly improving productivity, comfort and site organization.





MORE + & MORE

MECALAC VERSATILE EQUIPMENT

- Variable range, boom travel 130°, perfectly integrated offset mechanism
- Lifting control (boom cylinder) with the right control lever

CONNECT QUICK COUPLER

DUAL SENSO DRIVE

- Double closed circuit hydrostatic transmission
- Maximum speed 10 km/h (6.2 mph)

TRAVELING WITH THE CONTROL LEVER

- Easy to drive
- Intuitive controls



FLEXIBILITY AT THE HIGHEST LEVEL

The MCR could be considered Mecalac's calling card: innovation, technology, choice of materials and mechanical intelligence are at the forefront of our design in an attempt to continuously improve our products and provide solutions to the constantly evolving needs of our customers.

For both urban and suburban environments, as well as the individual demands of your work site, the MCR guarantees maximum profitability thanks to unprecedented performance and simplicity of use, ushering in a new generation of compact, versatile equipment for the construction sector.

SUMMARY

+

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DRIVING

12
DIGGING





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LOADING



16
HANDLING



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TOOL
HOLDER



20
YOUR MCR &
CONFIGURATIONS





Behind the controls of the MCR, the driver has a perfect view of the work site and can simply, effectively, and independently perform a number of actions and tasks in the safest of environments. From the incredibly spacious cab to the intuitive piloting and other customizable parameters, the MCR can only be described as revolutionary.

SIMPLICITY IS WHAT DRIVES US



The figures

1"

**FROM THE
EXCAVATOR
MODE TO THE
LOADER MODE**

100%
**MECALAC
PATENT**

EXCAVATOR OR LOADER!

Thanks to a simple selector-switch, Mecalac patent, the driver can turn his compact excavator into a compact loader and then back again, using the same commands. Loading efficiency is maximized, it is made by the skid bucket supported on the blade which increases the machine's efficiency thanks to the force of the thrust transmitted directly from the chassis to the bucket. The operation is performed more accurately using the control lever. The patented Mecalac cylinder coupling function, allows to synchronize the boom cylinders for perfect movement coordination and precision. It makes driving and handling easy, regardless of whether the operator is a novice or more experienced. And, whether engaged or otherwise, they're yet another powerful feature along for the ride.





The figures

5M² [54FT²]
**OF TOTAL
VISIBILITY**

SEE FURTHER BEYOND

Constantly keeping an eye on what you're doing with the machine while trying to focus on the work site is a high responsibility. With the MCR, we've made the driver's direct line of vision a priority. The rear hood lines of the machine have been carefully studied. The windshield is fully removable, allowing the driver the option to remain in constant contact with the outside world.

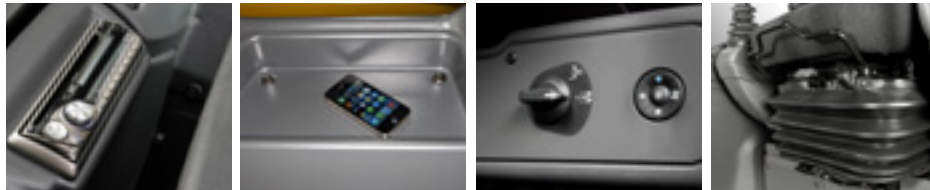
By having just one machine on a cluttered, narrow, urban site, risks are decreased for both the operator and personnel within the immediate operating area of the machine. Consequently, this reduces risks of collisions on site and lessens traffic congestion in the immediate area. In effect, the operator can now focus on the job at-hand without the distractions normally caused by the necessity of constantly watching the moves of other machines: moreover, as he is independent, the operator strongly reduces his need of manual intervention by colleagues. By reducing the number of staff and machines on site, global security is improved.



MCR MEET ALL INTERNAL AND EXTERNAL PERFORMANCE NEEDS

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.




CONNECT
QUICK COUPLER



Another innovation, Mecalac introduces CONNECT, a new quick coupler system. It can be operated from the cabin. Designed to work in both directions, the loss of an attachment is virtually impossible, during the locking or when working in excavator mode or in loader mode. It's the safest and best performing quick coupler system on the market.





Consideration to the ever-changing needs of the professionals in our industry and the developments required to support them have been at the heart of Mecatalac's core values 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 modernize work methods and contribute to your sites' productivity by designing the most suitable equipment.

DETOUR-FREE DIGGING



The figures

10 KM/H
6.2 MPH

**UNIQUE FOR
A COMPACT
CRAWLER
EXCAVATOR**



**MECALAC
PATENTED
CYLINDER
COUPLING**

FAST, EFFICIENT AND COST-EFFECTIVE

The MCRs are fast and efficient. Quick and accurate trench excavation, close to a wall or above an obstacle, removal of materials for recycling, even in the narrowest streets, laying pipes, there is no task that the built-in offset arm of the MCR cannot perform. The unique kinematics built-in to the Mecalac articulated boom allow you to work either directly beside the vehicle to up to 7 m (10MCR) away in a single operation. The high speed up to 10 km/h (6.2 mph), available at all times, the ability to quickly change tools thanks to CONNECT, the new Mecalac quick coupler, increases productivity significantly. Fewer machine deployments means lower fuel consumption, less damage and ground compaction, less annoyance for local residents, fewer dangers for site workers, fewer working breaks, finally an incomparable rentability.





The MCR can be converted into a compact loader in an instant, with very little time needed to change from one mode to the other. Familiarization is instant in the single mode of operation thanks to grouped functions and the transformation into loader mode using the control level.

LOAD WHEN YOU CHOOSE



THE ONLY LOADER WITH 360° ROTATION



360° OF FREEDOM

Equipped with a skid bucket in few seconds thanks to the patented new quick coupler CONNECT, 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. Efficient accurate translational movement using the control lever, is available at all times.

As the MCRs are the only compact loaders with total rotation on the market, in addition to the exceptional speed until 10 km/h (6.2 mph), they are perfectly independant, powerful, fast when traveling as well as in work cycles. They can be used for all site work and their versatility ensures that your sites are profitable.





Lifting, laying, moving, unloading, storing... The MCR sets the pace for work site logistics and makes execution easy. Up or down, whatever the challenge—the MCR can handle it and then some. It's capable of working side-by-side with trucks, or carrying a pallet loaded with material and laying it to rest on the other side of a wall, or even next to the machine itself, whatever you need. Ultra-flexible, versatile: the MCR brings profitability and a touch of comfort to complex work sites and/or confined spaces.

HANDLING

UNDER THE GROUND LEVEL, UNIQUE FOR AN EXCAVATOR

**FULL
ROTATION
WITH A
LOAD = 40%
OF THEIR
OWN WEIGHT**

REMOVING THE PROBLEM OF REMOVALS

The MCRs are also equipped with the famous patented Mecalac boom. With the in-built offset, the boom folds in to 130° to offer maximum stability associated with exceptional lifting and handling performances.

Even the largest sheeting can be lifted, moved and then set down smoothly and safely. 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. 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 MCR to fully demonstrate their versatility. Transport and deposit pallets at floor level or in a villa's foundations, quickly and with total safety for the driver and his environment, this is still an exceptional proof of the incomparable rentability of the jobsites managed with a MCR.





The tool holding function comes into its own with the MCR. No longer just simple attachments, advances have been made in increasing simplicity as well as efficiency thanks to dedicated innovations. Combining the benefits of a tool carrier with a perfectly balanced and undercarriage along with our boom and dipper performance while being able to adapt to the particular demands of each tool and making work that much easier—who else but Mecalac?

TOOL CARRIER

THE QUIET STRENGTH OF VERSATILITY

COMPACTOR
PLANER
CUTTING BLADE
HAMMER
FLAIL MOWER
TRIMMER
...



THE CUSTOMIZABLE WORK SITE

The MCR can also function as a tool-holder, thus enhancing their usefulness and efficiency on site. The initial investment is thus in a single, independent machine, requiring one driver, one transport facility and one maintenance package.

Turning the MCR into a planer, flail mower, sweeper or equipping a hydraulic hammer in seconds with minimum handling is one of the great strengths of the Mecalac patented quick coupler. The driver is able to change each hydraulic attachment easily, safely and with complete control, leading to a significant increase in productivity which positively effects the profitability of your working site. The Mecalac boom structure allows you to set the work attachment in an optimal position to apply force in the right direction, preserving the state of the equipment used and limiting interruptions to traffic. Once again, it's time saving and rentability guaranteed.





The MCR 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 tracks, heating/AC or cameras, not to mention to the various attachments, buckets, and hydraulic tools which can be used, there are many different ways to tailor your MCR to your brand and business.

YOUR MCR & CONFIGURATIONS

MCR

TECHNICAL DATA

WEIGHT	6MCR	8MCR	10MCR
Without load, in working order, without bucket, rubber tracks, with no bucket, full tank of fuel and operator	5700 kg (12,600 lb)	7200 kg (15,900 lb)	9400 kg (20,700 lb)
Additional counterweigh	400 kg (880 lb)	425 kg (940 lb)	590 kg (1300 lb)
Ground Pressure rubber tracks	width 400 mm (16 in) 0,38 kg/cm ² (5.4 lb/in ²)	width 450 mm (18 in) 0,38 kg/cm ² (5.4 lb/in ²)	width 450 mm (18 in) 0,46 kg/cm ² (6.5 lb/in ²)
Ground Pressure steel tracks	width 400 mm (16 in) 0,39 kg/cm ² (5.5 lb/in ²)	width 400 mm (16 in) 0,44 kg/cm ² (6.2 lb/in ²)	width 400 mm (16 in) 0,53 kg/cm ² (7.5 lb/in ²)
ENGINE	6MCR	8MCR	10MCR
Turbo charged engine with intercooler, EGR valve and catalytic converter (DOC), complying with standard	Tier 4 Final Stage IIIB	Tier 4 Final Stage IIIB	Tier 4 Final Stage IIIB
Diesel 4 in-line cylinders	DEUTZ TD 2.9 L4	DEUTZ TCD 2.9 L4	DEUTZ TCD 3.6 L4
Horsepower (DIN 70020)	55,4 kW (75HP)	55,4 kW (75HP)	55,4 kW (75HP)
Engine speed	(74.3 imperial HP) at 2300 rpm	(74.3 imperial HP) at 2000/2300 rpm	(74.3 imperial HP) at 2200 rpm
Max. torque	260 Nm (192 ft.lbf) at 1800 rpm	300 Nm (221 ft.lbf) at 1600 rpm	390 Nm (287 ft.lbf) at 1300 rpm
Cubic capacity	2900 cm ³ (177 in ³)	2900 cm ³ (177 in ³)	3600 cm ³ (220 in ³)
Cooling	water	water	water
Air filter, cyclonic, dry, cartridge	•	•	yes
Fuel consumption (depending on operating conditions)	8 to 9 l/h	8 to 9 l/h	7 to 11 l/h
Machine external sound level	99 dB	99 dB	99 dB
Fuel tank capacity	70 l	73 l	105 l
Cooling system capacity	18 l	20 l	16 l
ELECTRICAL CIRCUIT	6MCR	8MCR	10MCR
Batteries	12 V (100 AH)	12 V (100 AH)	12 V (100 AH)
Voltage	12 V	12 V	12 V
Alternator	14 V (95 A)	14 V (95 A)	14 V (95 A)
Starter	12 V (2.6 kW)	12 V (2.7 kW)	12 V (2.7 kW)
UNDERCARRIAGE	6MCR	8MCR	10MCR
Central X frame chassis. Triangular beams	•	•	•
Rubber tracks	width 400 mm (16 in)	450 mm (18 in)	450 mm (18 in)
Steel tracks	width 400 mm (16 in)	400 mm (16 in)	400 mm (16 in)
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	2030 mm (80 in)	2100 mm (82.7 in)	2300 mm (90.6 in)
- Width	330 mm (13 in)	423 mm (16.7 in)	420 mm (16.5 in)
- Height	358 mm (14.1 in)	377 mm (14.8 in)	468 mm (18.4 in)
- Lift height/ground	340 mm (13.4 in)	327 mm (12.9 in)	248 mm (9.8 in)
- Max. depth underground			
TRANSMISSION	6MCR	8MCR	10MCR
Closed circuit hydrostatic transmission SENSO DRIVE			
Transmission hydraulics: 1 dual variable displacement pump, automotive power control			
- Flow rate	2x100 l/min (2x26.4 gpm)	2x100 l/min (2x26.4 gpm)	2x100 l/min (2x26.4 gpm)
- Maximum pressure	330 bar (4,800 psi)	360 bar (5,220 psi)	330 bar (4,800 psi)
- 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 (9,000 lbf)	5400 daN (12,150 lbf)	6800 daN (15,300 lbf)
- Travelling speed	Range I 5 km/h (3.1 mph) Range II 10 km/h (6.2 mph)	5 km/h (3.1 mph) 10 km/h (6.2 mph)	5 km/h (3.1 mph) 9 km/h (5.6 mph)

HYDRAULIC SYSTEM	6MCR	8MCR	10MCR
Hydraulic oil tank	53 l	56 l	77 l
ATTACHMENT AND ROTATION CIRCUIT			
Variable displacement pump	45 cm ³ (2.7 in ³)	63 cm ³ (3.8 in ³)	75 cm ³ (4.6 in ³)
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	100 l/min	126 l/min	165 l/min
- Maximum working pressure	280 bar (4,060 psi)	280 bar (4,060 psi)	300 bar (4,350 psi)
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)	80l/min	80l/min	80l/min
Pressure can be set between (factory setting) 1,740 and 4,060 psi (120 and 280 bar)	180 bar (2,610 psi)	180 bar (2,610 psi)	180 bar (2,610 psi)
Proportional hydraulic control of the attachment integrated on right-hand joystick	•	•	•
EXTRA ACCESSORY LINE (DIVERTED FROM OFFSET CYLINDER)			
Max. flow available		30 l/min	
Flow can be set via control panel (factory setting)		30 l/min	
Pressure max. (fixed)		max. 280 bar (4,060 psi)	
Proportional hydraulic control of the attachment integrated on right-hand joystick		(option)	
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°	360°	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 tr/min (10 rpm)	10 tr/min (10 rpm)	10 tr/min (10 rpm)
Rotation torque	1330 daNm (9,800 ft.lbf)	1690 daNm (12,400 ft.lbf)	2125 daNm (15,700 ft.lbf)
CAB			
Extremely comfortable panoramic cab	ROPS and FOPS approved with guard		
Monocoque cab fastened to 4 spring posts	•	•	•
Front windshield partially or fully removable	under the cab roof		
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	•	•	•
Rear storage area	•	•	•
Sound level in cab	78 db(A)	78 db(A)	78 db(A)
Air-conditioning	(option)	(option)	(option)
Stereo USB radio	(option)	(option)	(option)
Heated and air suspended seat	(option)	(option)	(option)

NOTE: METRIC MEASUREMENTS ARE THE CRITICAL VALUES DIMENSIONS ARE TAKEN FROM T152021

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

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	1382 mm (54 in)	1554 mm (61 in)	1775 mm (70 in)
Right offset	1824 mm (72 in)	1600 mm (63 in)	2034 mm (80 in)
Boom cylinder with endof travel shock absorber	•	•	•
CONNECT accessory coupling system			
- Take up with automatic mechanical locking	•	•	•
- Detection of incorrect locking	•	•	•
- Hydraulically-controlled unlocking	•	•	•
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			

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 understanding and visibility, in both directions
- Maintenance-free, no need for additional lubrication, reduced risk of failure
- The advantage of a compact and light coupler was used to enhance the bucket volume: +10%
- Transport of 3 digging buckets (400-600-900) hooked on the ditch-cleaning bucket

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 preventing a drop of the bucket, integration of a safety-valve in the cylinder
- Continuous detection of the cylinder position, "real time" measurement of the locking of the accessory, 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 mal-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

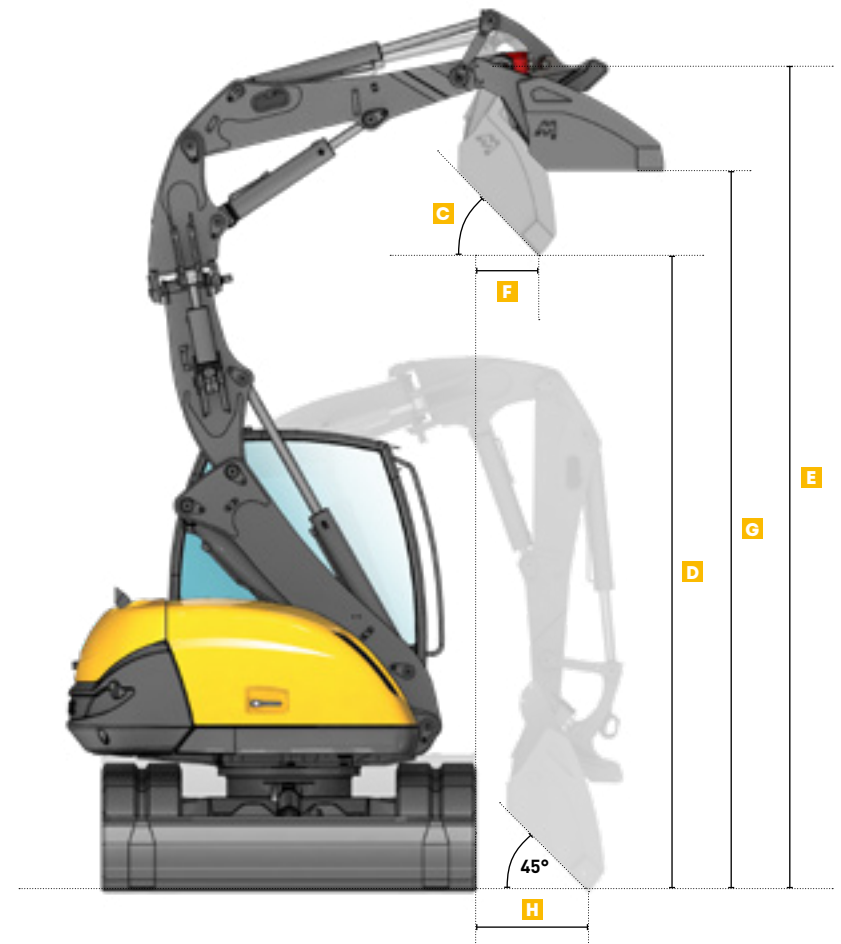
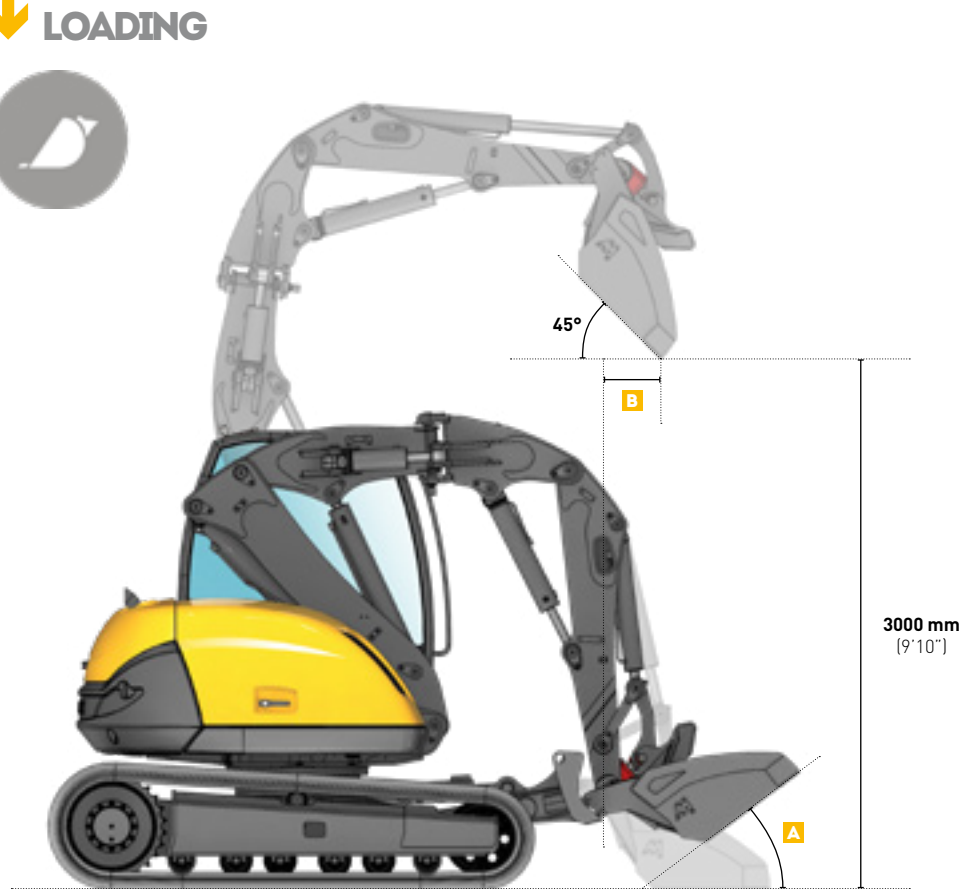


MACHINE DIMENSIONS	6MCR	8MCR	10MCR
A Overall length	2831 mm [9'3"]	3129 mm [10'3"]	3344 mm [10'11"]
B Overall height	2660 mm [8'9"]	2900 mm [9'6"]	3250 mm [10'8"]
C Cab height (without attachment)	2623 mm [8'7"]	2623 mm [8'7"]	2708 mm [8'11"]
D Cab height (without attachment, with AC option)	2751 mm [9']	2751 mm [9']	2836 mm [9'3"]
E Cover height	1621 mm [5'4"]	1648 mm [5'5"]	1760 mm [5'9"]
F Rear overhang*	1170 mm [3'10"]	1254 mm [4'1"]	1385 mm [4'6"]
G Front overhang (without attachment)	1561 mm [5'1"]	1724 mm [5'8"]	1858 mm [6'1"]
H Tumbler distance (average length)	1880 mm [6'2"]	2095 mm [6'11"]	2270 mm [7'5"]

MACHINE DIMENSIONS	6MCR	8MCR	10MCR
I Crossing angle	33°	34°	39°
J Height with blade raised	330 mm [1']	374 mm [1'2"]	470 mm [1'6"]
K Ground clearance	300 mm [1']	300 mm [1']	340 mm [1'1"]
L Width with tracks 400	2030 mm [6'8"]	2100 mm [6'10"]	2300 mm [7'7"]
L Width with tracks 450	-	2100 mm [6'10"]	2300 mm [7'7"]
M Height below turret	710 mm [2'4"]	710 mm [2'4"]	760 mm [2'6"]

*For additional counterweight, add 100 mm.

LOADING



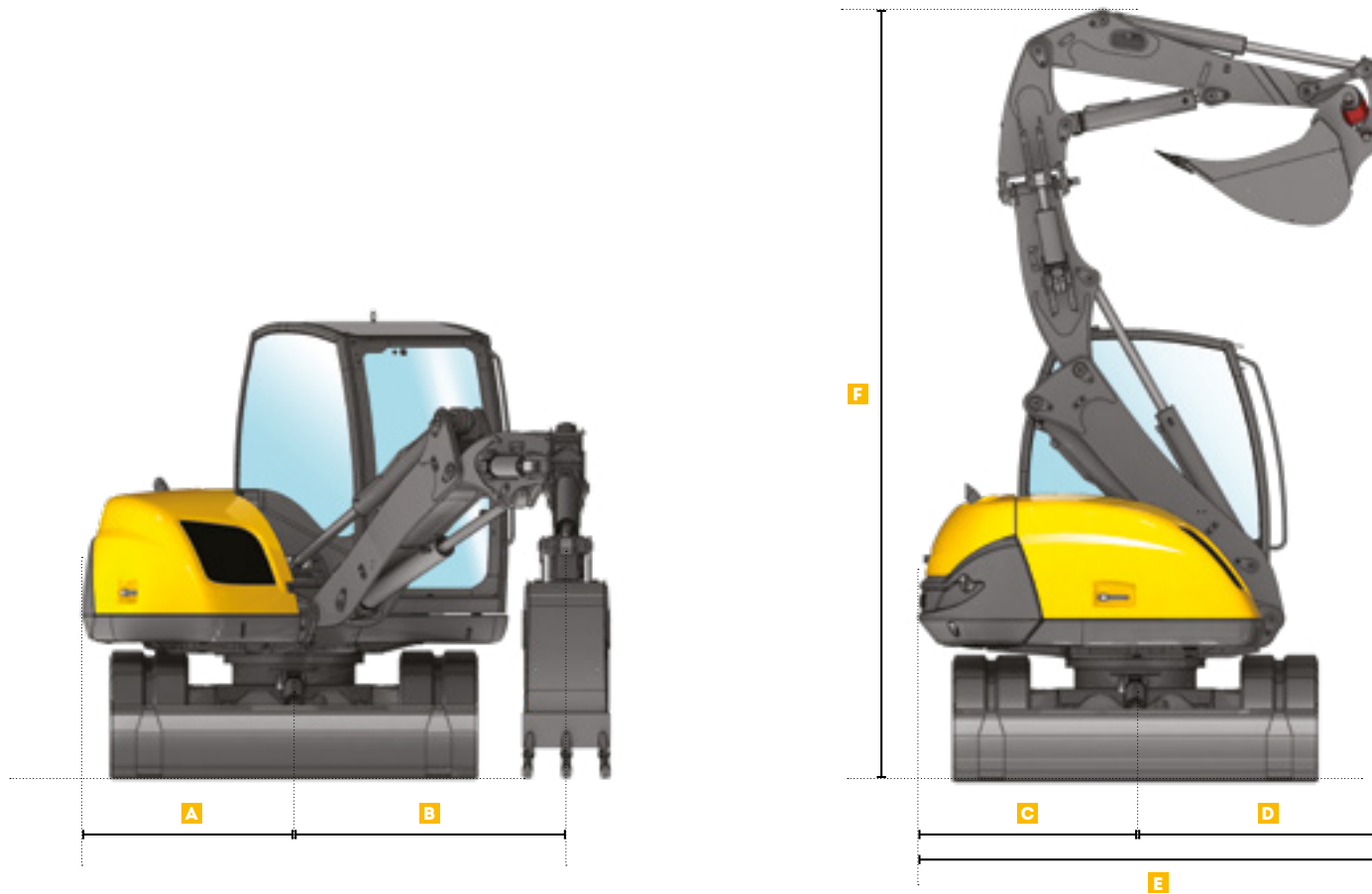
LOADER MODE, LOADING AND UNLOADING AT 45°, 3M. HEIGHT

MACHINE DIMENSIONS	6MCR	8MCR	10MCR
A Digging angle	35°	37°	37°
B Frontal unloading distance	100 mm [0'4"]	335 mm [1'1"]	608 mm [1'12"]

LOADER PERFORMANCE	6MCR	8MCR	10MCR
Digging force	2600 daN [5,850 lbf]	3300 daN [7,500 lbf]	4400 daN [9,900 lbf]

UNLOADING AT MAXIMUM HEIGHT IN LOADER MODE AND AT GROUND LEVEL AT 45°

MACHINE DIMENSIONS	6MCR	8MCR	10MCR
C Unloading angle, maximum height	50°	44°	47°
D Unloading maximum height	3120 mm [10'3"]	3571 mm [11'8"]	3728 mm [12'3"]
E Quick coupler axle: maximum height	4196 mm [13'9"]	4636 mm [15'2"]	4930 mm [16'2"]
F Lateral unloading distance	325 mm [1']	348 mm [1'2"]	633 mm [2']
G Height of the bucket, horizontal	3612 mm [11'10"]	4051 mm [13'3"]	4265 mm [13'12"]
H Distance at crawlers	610 mm [2']	630 mm [2']	1140 mm [3'9"]



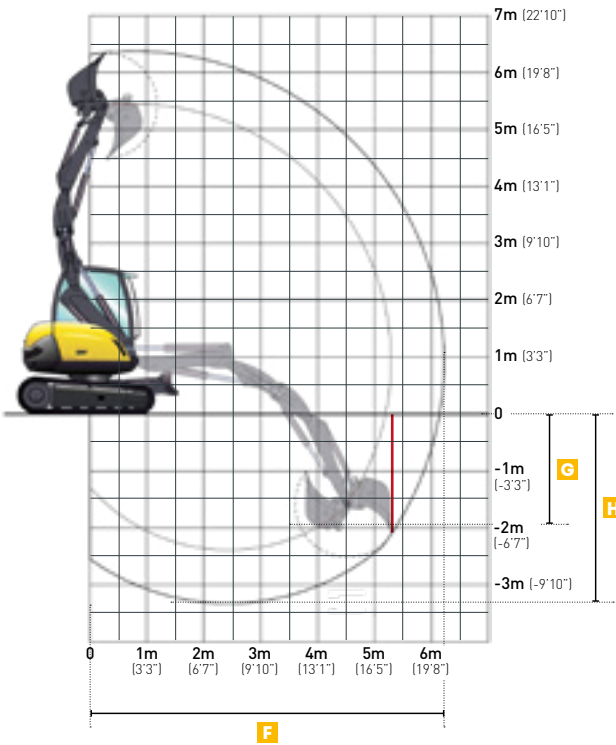
MACHINE DIMENSIONS	6MCR	8MCR	10MCR
A Outside dimension with maximum offset	1128 mm [3'8"]	1207 mm [3'11"]	1304 mm [4'3"]
B Maximum left offset	1382 mm [4'6"]	1554 mm [5'1"]	1775 mm [5'9"]
B' Maximum right offset	1824 mm [5'12"]	1600 mm [5'3"]	2034 mm [6'8"]
C Rear tail swing radius*	1170 mm [3'10"]	1254 mm [4'1"]	1385 mm [4'6"]
D Front radius	1438 mm [4'8"]	1444 mm [4'9"]	1881 mm [6'2"]
E Turning circle*	2608 mm [8'6"]	2698 mm [8'10"]	3266 mm [10'8"]
F Folded position height	4144 mm [13'7"]	4430 mm [14'6"]	4890 mm [16'1"]

* For additional counterweight, add 100 mm on C and E.

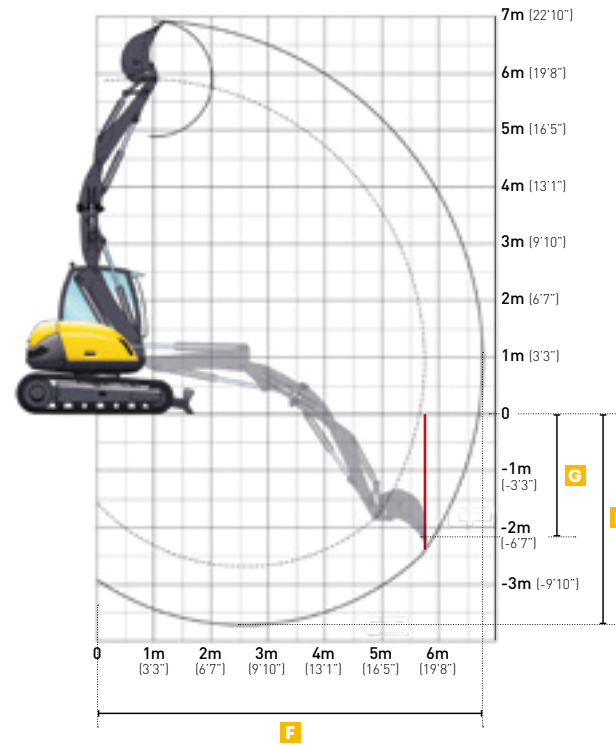
DIGGING PERFORMANCES	6MCR	8MCR	10MCR
Break-out force (max.)	4300 daN [9,666 lbf]	5000 daN [11,240 lbf]	6000 daN [13,500 lbf]
Penetration/Tear-out force (max.)	2500 daN [5,620 lbf]	2800 daN [6,300 lbf]	3400 daN [7,650 lbf]



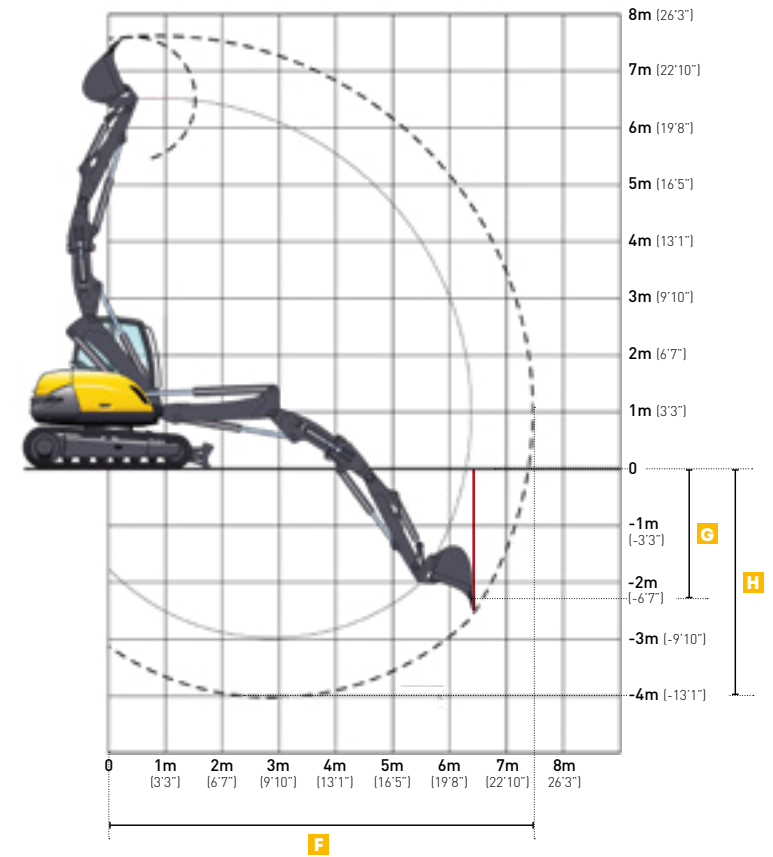
6MCR



8MCR



10MCR

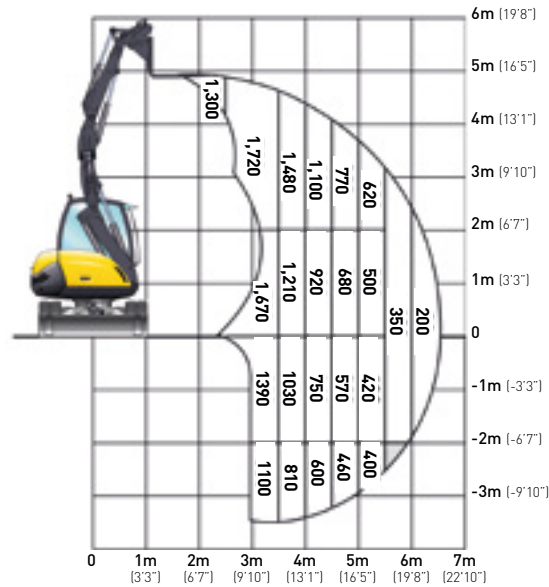
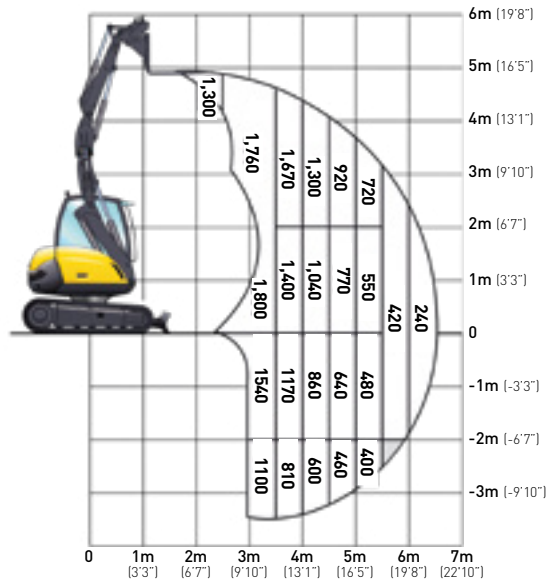


MACHINE DIMENSIONS	6MCR	8MCR	10MCR
F Maximum reach	6220 mm (20'5")	6750 mm (22'1")	7500 mm (24'7")
G Vertical digging depth maximum with standard bucket	1940 mm (6'4")	2160 mm (7'1")	2300 mm (7'6")
H Maximum digging depth	3300 mm (10'1")	3700 mm (12'1")	4000 mm (13'1")



LIFTING CAPACITY WITH PALLET FORKS

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



WORKING CONDITIONS

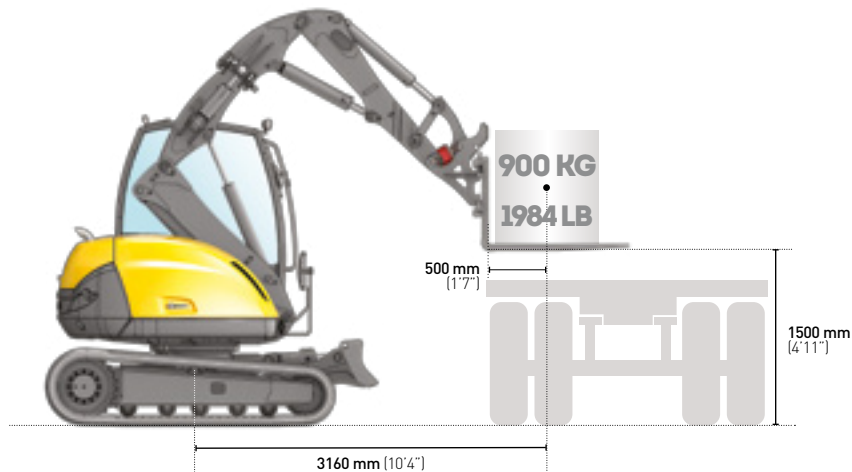
- On crawler, blade on the ground
- On horizontal, compact ground
- Equipment used without offset
- Equipped with pallet fork

ACCORDING TO ISO 10567

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

LIFTING CAPACITY WITH PALLET FORKS FROM 0 TO 1,5 M HEIGHT

Loading mode with boom fully retracted. Adjustable boom completely folded, with dipper stick on the ground.



LIFTING CAPACITY WITH LOADING HOOK

All the weights are given in kg (lb). The calculations are carried out for the entire range of the Mecalac quick coupler.

	2M (7 ft)	3M (10 ft)	4.5M (15 ft)	5.5M (18 ft)
3.5M (12 ft)	-	1750 (3,900)	1750 (3,900)	1220 (2,700)
3M (10 ft)	-	2020 (4,500)	1800 (4,000)	1540 (3,400)
1.5M (5 ft)	3000 (6,600)	3000 (6,600)	2680 (5,900)	1910* (4,200*)
0M	3000 (6,600)	3000 (6,600)	3000 (6,600)	1830* (4,000*)
-1.5M (5 ft)	3000 (6,600)	3000 (6,600)	2860 (6,300)	1560* (3,450*)
-2.5M (8 ft)	3000 (6,600)	3000 (6,600)	1650 (3,650)	1480 (3,300)



Working in longitudinal position on blade side



Working in transverse position

WORKING CONDITIONS

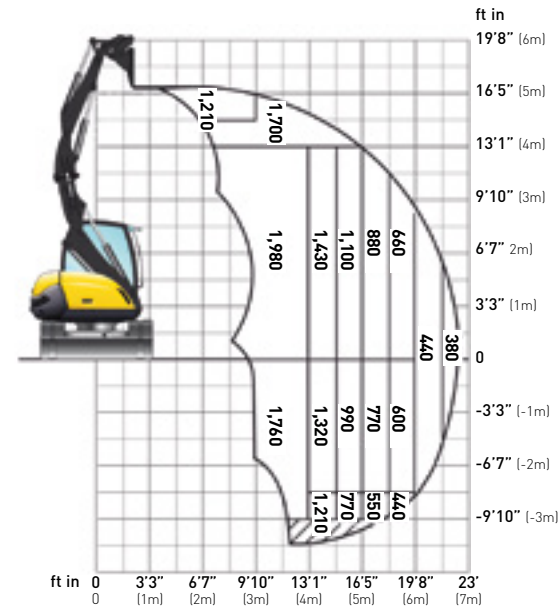
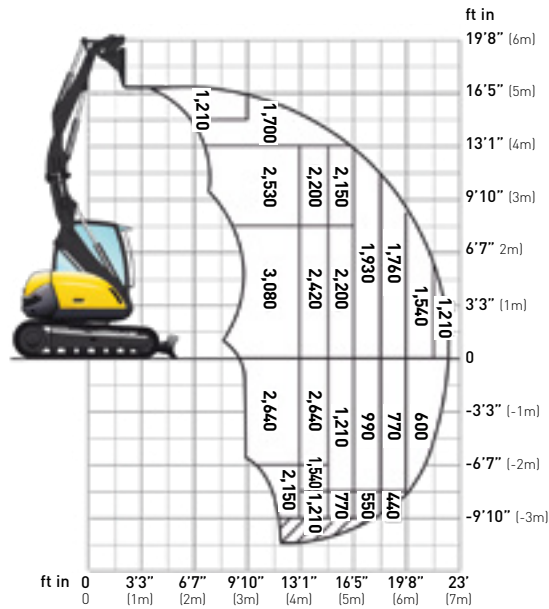
- On crawler, blade on the ground
- On horizontal, compact ground
- Equipment used without offset
- Without tools (bucket, shovel...) with handling plate and loading hook of 3 T
- Maximal 75% of the tipping load or 87% of the hydraulic capacity
- Maximum values determined for optimal position of boom and cylinders

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.



LIFTING CAPACITY WITH PALLET FORKS

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



WORKING CONDITIONS

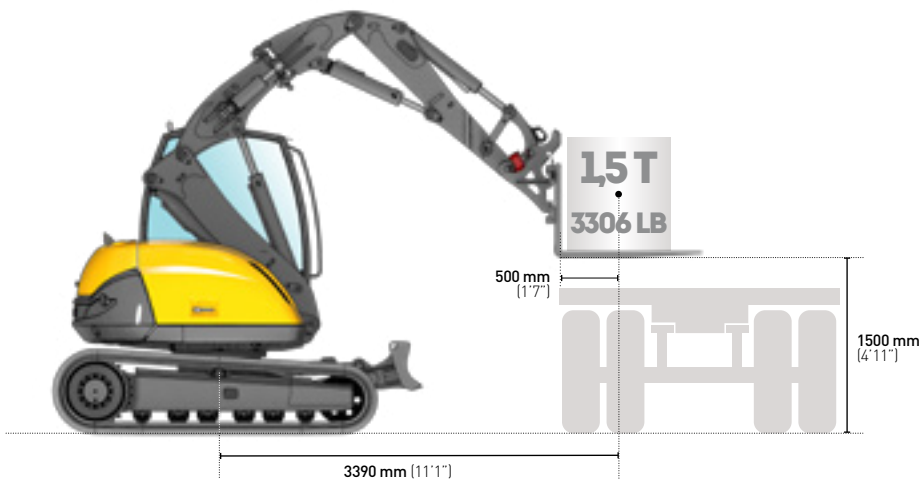
- On crawler, blade on the ground
- On horizontal, compact ground
- Equipment used without offset
- Equipped with pallet fork

ACCORDING TO ISO 10567

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

LIFTING CAPACITY WITH PALLET FORKS FROM 0 TO 1,5 M HEIGHT

Loading mode with boom fully retracted. Adjustable boom completely folded, with dipper stick on the ground.



LIFTING CAPACITY WITH LOADING HOOK

All the weights are given in kg (lb). The calculations are carried out for the entire range of the Mecalac quick coupler.

	2M (7 ft)	3M (10 ft)	4.5M (15 ft)	6M (20 ft)
5M (16 ft)	3000 (6,600)	3000 (6,600)	2600 (5,700)	2600 (5,700)
3M (10 ft)	2600 (5,700)	2600 (5,700)	2600 (5,700)	1850 (4,100)
1.5M (5 ft)	3000 (6,600)	3000 (6,600)	3000 (6,600)	2600* (5,700*)
0M	3000 (6,600)	3000 (6,600)	3000 (6,600)	2500* (5,500*)
-1M (-3 ft)	3000 (6,600)	3000 (6,600)	3000 (6,600)	2400* (5,300*)
-2M (-7 ft)	3000 (6,600)	3000* (6,600*)	3000 (6,600)	2100* (4,600*)
-3M (-10 ft)	3000 (6,600)	3000 (6,600)	3000 (6,600)	1900* (4,200*)

WORKING CONDITIONS

- On crawler, blade on the ground
- On horizontal, compact ground
- Equipment used without offset
- Without tools (bucket, shovel...) with handling plate and loading hook of 3 T
- Maximal 75% of the tipping load or 87% of the hydraulic capacity
- Maximum values determined for optimal position of boom and cylinders

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.

Working in longitudinal position on blade side

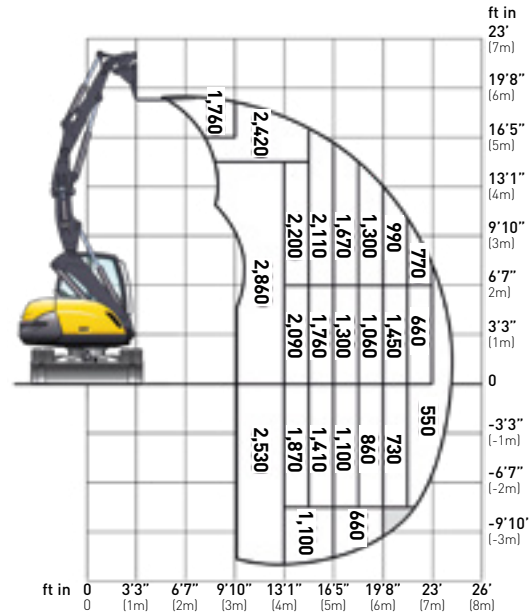
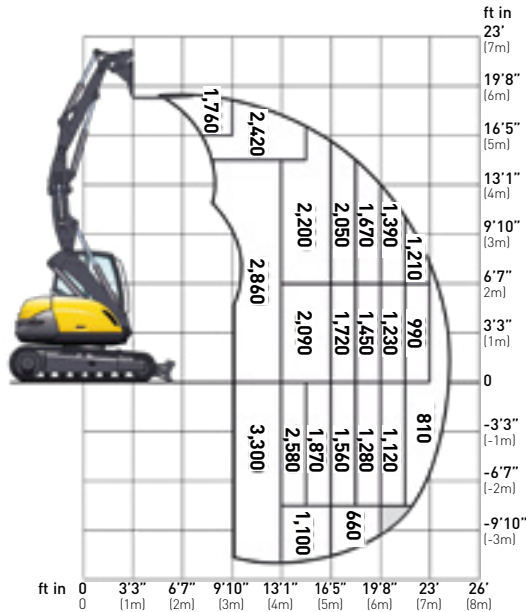
Working in transverse position

10MCR-HANDLING



LIFTING CAPACITY WITH PALLET FORKS

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



WORKING CONDITIONS

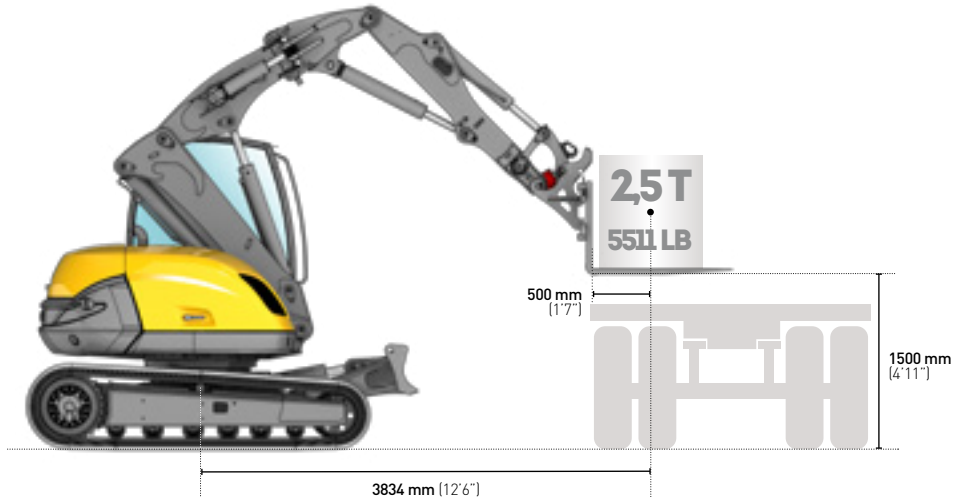
- On crawler, blade on the ground
- On horizontal, compact ground
- Equipment used without offset
- Equipped with pallet fork

ACCORDING TO ISO 10567

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

LIFTING CAPACITY WITH PALLET FORKS FROM 0 TO 1,5 M HEIGHT

Loading mode with boom fully retracted. Adjustable boom completely folded, with dipper stick on the ground.



LIFTING CAPACITY WITH LOADING HOOK

All the weights are given in kg (lb). The calculations are carried out for the entire range of the Mecalac quick coupler.

	2M (7 ft)	3M (10 ft)	4.5M (15 ft)	6M (20 ft)
3M (10 ft)	-	3830 (8,400)	3830 (8,400)	2870 (6,300)
1.5M (5 ft)	-	4000 (8,800)	4000 (8,800)	3050 (6,700)
0M	4000 (8,800)	4000 (8,800)	4000 (8,800)	3910* (8,600*)
-1.5M (-5 ft)	4000 (8,800)	4000 (8,800)	2390 (5,300)	2390* (5,300*)
-1.5M (-10 ft)	4000 (8,800)	4000 (8,800)	2630 (5,800)	2630* (5,800*)

Working in longitudinal position on blade side Working in transverse position

WORKING CONDITIONS

- On crawler, blade on the ground
- On horizontal, compact ground
- Equipment used without offset
- Without tools (bucket, shovel...) with handling plate and loading hook of 4 T
- Maximal 75% of the tipping load or 87% of the hydraulic capacity
- Maximum values determined for optimal position of boom and cylinders

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.

HYDRAULIC ATTACHMENTS



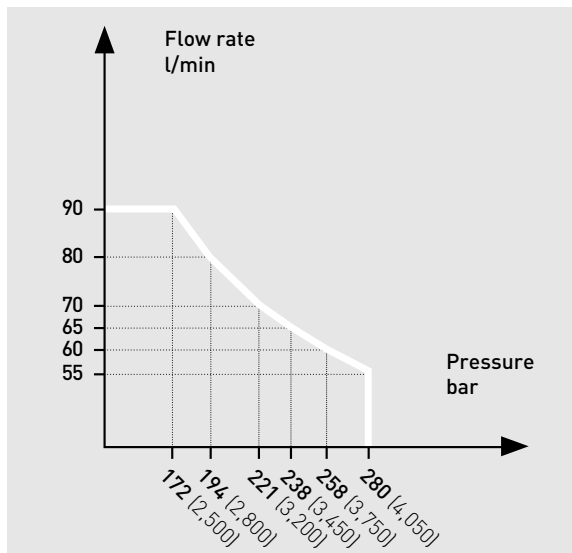
NOTE

METRIC MEASUREMENTS ARE THE CRITICAL VALUES DIMENSIONS ARE TAKEN FROM T152021

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

6MCR

FLOW RATE / PRESSURE AUXILIARY 1 (PROPORTIONAL)

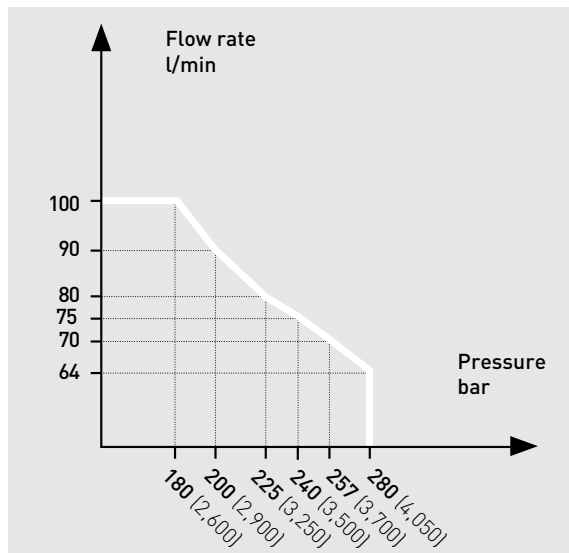


AUXILIARY LINE 2	DATA
Offset cylinder diverted (clamshell rotation)	
Flow rate maximum	30 l/min
Pressure	280 bar (4,050 psi)
Controls	Proportional as option

AUXILIARY LINE 3	DATA
Bucket cylinder diverted (clamshell function)	
Flow rate maximum	80 l/min
Pressure maximum	280 bar (4,050 psi)

8MCR

FLOW RATE / PRESSURE AUXILIARY 1 (PROPORTIONAL)

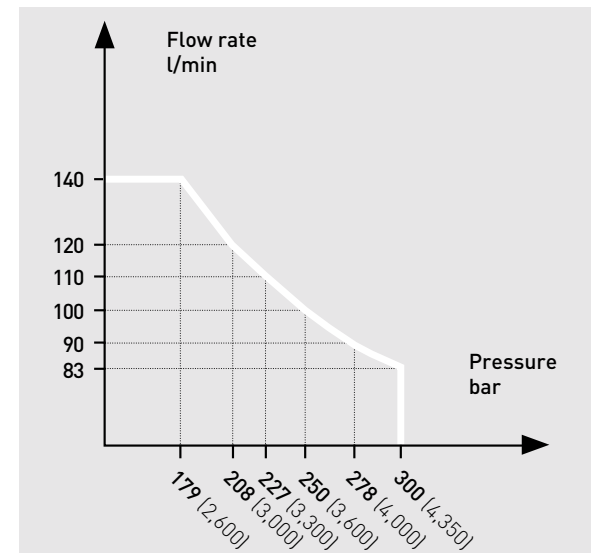


AUXILIARY LINE 2	DATA
Offset cylinder diverted (clamshell rotation)	
Flow rate maximum	30 l/min
Pressure	280 bar (4,050 psi)
Controls	Proportional as option

AUXILIARY LINE 3	DATA
Bucket cylinder diverted (clamshell function)	
Flow rate maximum	80 l/min
Pressure maximum	280 bar (4,050 psi)

10MCR

FLOW RATE / PRESSURE AUXILIARY 1 (PROPORTIONAL)



AUXILIARY LINE 2	DATA
Offset cylinder diverted (clamshell rotation)	
Flow rate maximum	30 l/min
Pressure	300 bar (4,350 psi)
Controls	Proportional as option

AUXILIARY LINE 3	DATA
Bucket cylinder diverted (clamshell function)	
Flow rate maximum	120 l/min
Pressure maximum	300 bar (4,350 psi)

→ MECALAC EXCLUSIVE ATTACHMENTS

DIGGING BUCKETS

6MCR	WIDTH mm (in)	number of teeth	VOLUME l (yd ³)	WEIGHT kg (lb)*
DIGGING BUCKET with teeth or with no teeth	350 (1'2")	3	85 (0.11)	105 (232)
	450 (1'6")	3	115 (0.15)	118 (260)
	600 (2')	4	160 (0.21)	152 (335)
	750 (2'5.5")	5	205 (0.27)	175 (386)
	900 (2'11")	5	250 (0.33)	195 (430)
8MCR	WIDTH mm (in)	number of teeth	VOLUME l (yd ³)	WEIGHT kg (lb)*
DIGGING BUCKET with teeth or with no teeth	350 (1'2")	3	105 (0.14)	110 (242.5)
	450 (1'6")	3	137 (0.18)	122 (269)
	600 (2')	4	191 (0.25)	176 (388)
	750 (2'5.5")	5	250 (0.33)	197 (434.5)
	900 (2'11")	5	310 (0.41)	216 (476)
10MCR	WIDTH mm (in)	number of teeth	VOLUME l (yd ³)	WEIGHT kg (lb)*
DIGGING BUCKET with teeth or with no teeth	350 (1'2")	3	130 (0.17)	156 (344)
	450 (1'6")	3	180 (0.24)	173 (381)
	600 (2')	3	250 (0.33)	230 (507)
	750 (2'5.5")	4	330 (0.45)	265 (584)
	900 (2'11")	4	405 (0.53)	295 (650)
	1200 (3'11")	5	565 (0.74)	366 (807)

NARROW BUCKET

TYPE	WIDTH mm (in)	number of teeth	VOLUME l (yd ³)	WEIGHT kg (lb)*
NARROW BUCKET	250 (0'82")	2	62 (0.8)	185 (407)
NARROW BUCKET	300 (1')	3	80 (0.10)	197 (434)

LOADER BUCKETS (SKID AND 4X1)

6MCR	WIDTH mm (in)	number of teeth	VOLUME l (yd ³)	WEIGHT kg (lb)*
SKID BUCKET with no teeth	2030 (6'66")	-	490 (0.64)	353 (778)
4X1 BUCKET with teeth or with no teeth	2030 (6'66")	6	420 (0.55)	515 (1,135)
KIT DE RACCORDEMENT GODET SKID 4x1 - 4 FLEXIBLES	-	-	-	5 (11)
BOLTED COUNTERBLADE FOR 4X1 BUCKET	2030 - 370 (6'66" - 1'21")	-	-	-
8MCR	WIDTH mm (in)	number of teeth	VOLUME l (yd ³)	WEIGHT kg (lb)*
SKID BUCKET with no teeth	2100 (6'89")	-	530 (0.70)	357 (787)
GODET SKID 4x1 avec ou sans dents	2100 (6'89")	7	450 (0.60)	553 (1,219)
4X1 BUCKET with teeth or with no teeth	2100 (6'89")	7	500 (0.65)	566 (1,247)
4X1 BUCKET CONNECTION SET, 4 FLEXIBLE JOINTS	-	-	-	5 (11)
BOLTED COUNTERBLADE FOR 4X1 BUCKET with no teeth 7 boreholes - center-to-center borehole distance 320	2100 (6'89")	-	-	59 (130)
10MCR	WIDTH mm (in)	number of teeth	VOLUME l (yd ³)	WEIGHT kg (lb)*
SKID BUCKET with no teeth	2300 (7'6.5")	-	750 (1.00)	426 (939)
4X1 BUCKET with teeth or with no teeth	2300 (7'6.5")	7	570 (0.75)	668 (1,472)
4X1 BUCKET CONNECTION SET, 4 FLEXIBLE JOINTS	-	-	-	5 (11)
BOLTED COUNTERBLADE FOR 4X1 BUCKET with no teeth 7 boreholes - center-to-center borehole distance 360	2300 (7'6.5")	-	-	65 (143.5)

PALLET FORK

TYPE	Specifications	WEIGHT kg (lb)*
PALLET FORK	to be used with 4 safety valves	330 (728)

DITCHING BUCKET

6MCR - 8MCR	Specifications	WIDTH mm (in)	VOLUME l (yd ³)	WEIGHT kg (lb)*
DITCHING BUCKET 1 COUPLING		1500 (4'11")	262 (0.34)	250 (551)
BOLTED COUNTER BLADE	borehole center-to-center distance 160	1500 (4'11")	-	-
10MCR	Specifications	WIDTH mm (in)	VOLUME l (yd ³)	WEIGHT kg (lb)*
DITCHING BUCKET 1 COUPLING		1800 (5'11")	314 (0.41)	288 (634)
DITCHING BUCKET 3 COUPLINGS		1800 (5'11")	314 (0.41)	340 (750)
BOLTED COUNTER BLADE for DITCHING BUCKETS	borehole center-to-center distance 160	1800 (5'11")	-	47 (104)

ROTATING TRAPEZOIDAL BUCKET

10MCR	Dimensions mm (in)	WEIGHT kg (lb)*
ROTATING TRAPEZOIDAL BUCKET	300 X 900 X H 700 (12 X 2'11" X 2'4")	190 (418)
ROTATING TRAPEZOIDAL BUCKET	400 X 900 X H 1200 (1'4" X 2'11" X 3'11")	315 (695)

HANDLING PLATE AND HAMMER PLATE

TYPE	Specifications	WEIGHT kg (lb)*
HANDLING PLATE with hook	to be used with 3 safety valves	43 (94)
HAMMER PLATE no boreholes	-	80 (176)
HAMMER PLATE with boreholes	contact your dealer	80 (176)

HANDLING JIB

6MCR - 8MCR	Specifications	WEIGHT kg (lb)*
HANDLING JIB	length 2000 mm (6'7"), lifting capacity 500 Kg (1,102 lb) to be used with 4 safety valves	80.5 (177)
10MCR		
HANDLING JIB	length 4100 mm (13'5"), lifting capacity 500 Kg (1,102 lb) to be used with 4 safety valves	113 (249)

CLAMSHELL BUCKET SUPPORT

TYPE	Specifications	WEIGHT kg (lb)*
SUPPORT PIECE FOR CLAMSHELL BUCKET - 6MCR, 8MCR and 10MCR	-	45 (99)
SUPPORT PIECE FOR CLAMSHELL BUCKET	-	51 (113)

RIPPER TOOTH

TYPE	WEIGHT kg (lb)*
RIPPER TOOTH	170 (374)

OPTIONS TO TAILOR YOUR MCR TO YOUR NEEDS

CUSTOMER COLORS

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

Colors samples



TRACKS

A Rubber tracks width: 6MCR: 400 mm (16 in) - 8MCR and 10MCR: 450 mm (18 in)

B Steel tracks width: 6MCR - 8MCR - 10MCR: 400 mm (16 in)



THE CAB - COMFORT AND SAFETY

Heating and air conditioning (increases cab height)

Rotating beacon

Front working light

Additional front working light

Additional rear working light

Steel roof

Stereo USB radio

Cabin sun visor

Roof window sun visor

OIL

Biologic hydraulic oil PANOLIN (HLP 46)

Mineral hydraulic oil for cold weather (ISO VG 32)

Mineral hydraulic oil for hot weather (ISO VG 68)

Mineral hydraulic oil for very hot weather (ISO VG 100) (8MCR and 10MCR)

AUXILIARY LINES

Main auxiliary line

Additional auxiliary line (if slewing power grab or other function)

Additional proportional auxiliary line (8MCR and 10MCR)

Hammer return line

ANTI-DROP SAFETY VALVES

1 anti-drop safety valve on boom

Anti-drop safety valve on boom, intermediate boom and arm

Anti-drop safety valve on boom, intermediate boom, arm and bucket

CLAMSHELL BUCKET ADAPTATION

QUICK COUPLING

Mecalac quick coupling with hook

LUBRICATION

Turret greasing unit

Centralized, manual lubrication for turret and equipment
(except axles between connecting rod and quick coupling system)

Centralized, automatic lubrication for turret and equipment

HEATED PNEUMATIC SEAT

ENGINE PARTICLES FILTER (DPF)

ELECTRIC GAS OIL PUMP WITH AUTOMATIC STOP

ADDITIONAL COUNTERWEIGHT - 400 KG (6MCR) - 425 KG (8MCR) - 590 KG (10MCR)



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