MCR

MECALAC

MECALAC

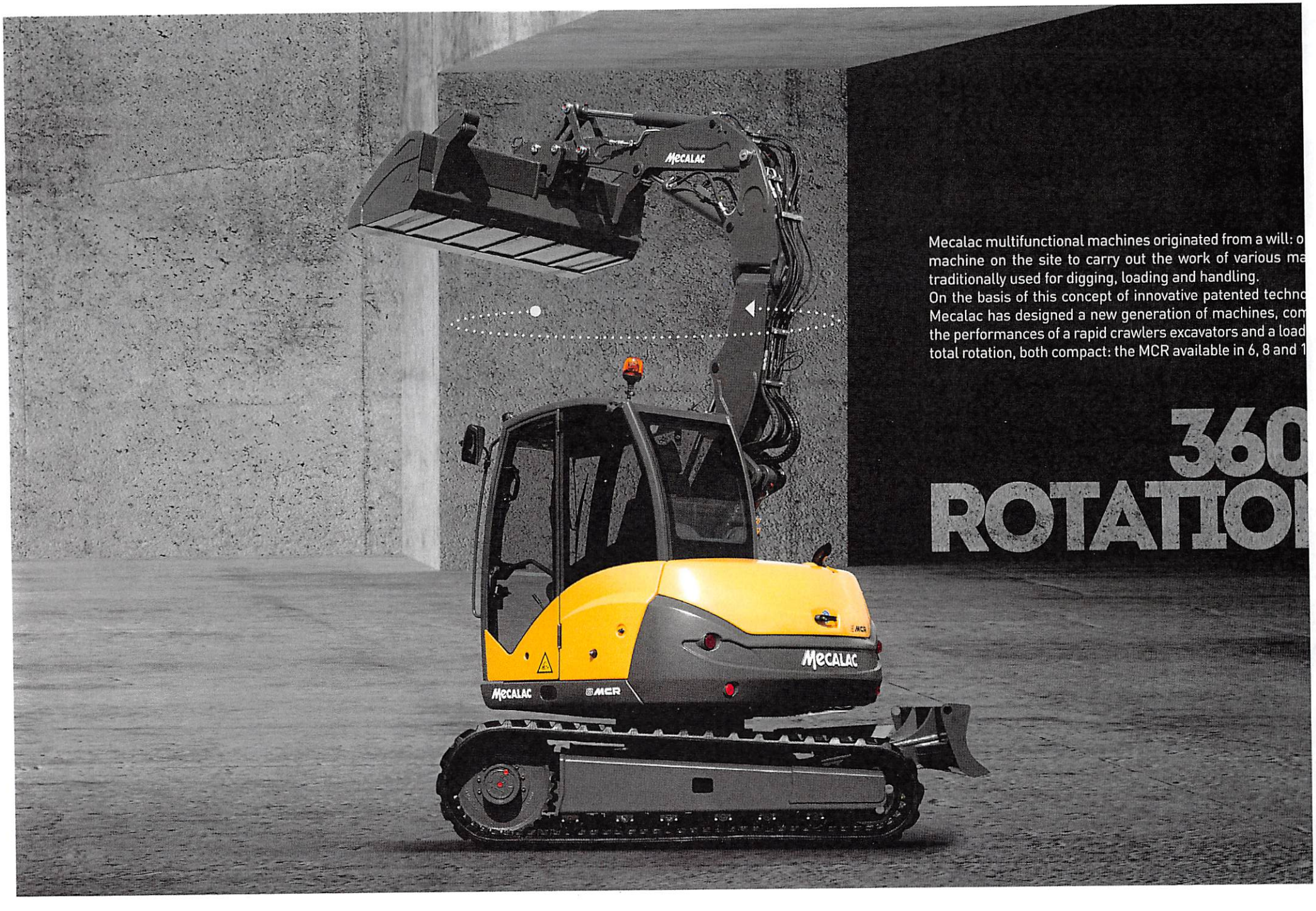
6.2 MPH

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

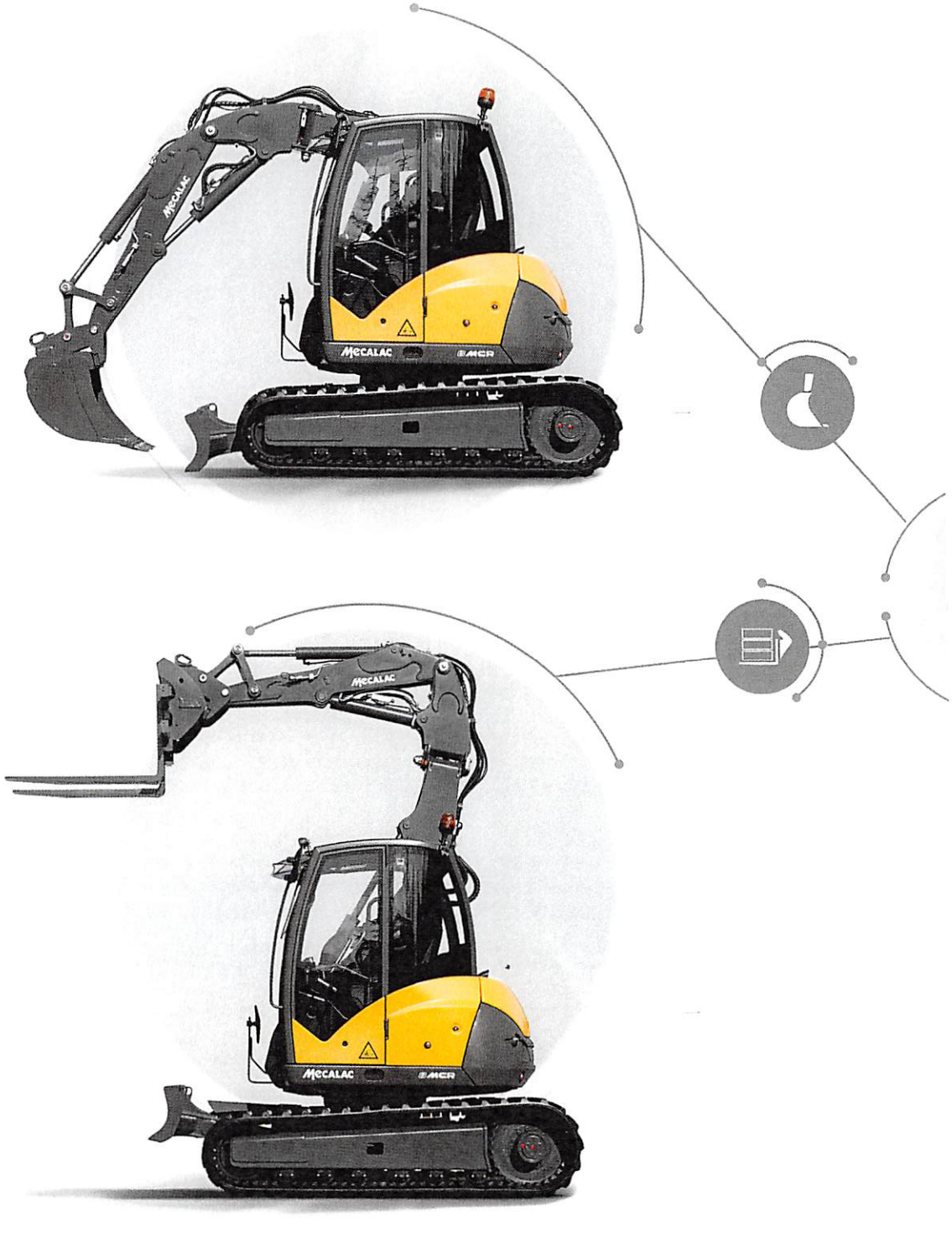


Mecalac multifunctional machines originated from a will: o
machine on the site to carry out the work of various ma
traditionally used for digging, loading and handling.
On the basis of this concept of innovative patented techno
Mecalac has designed a new generation of machines, com
the performances of a rapid crawlers excavators and a load
total rotation, both compact: the MCR available in 6, 8 and 1

360
ROTATIO

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 injust 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 NEW

DUAL SENSO DRIVE

- Double closed circuit hydrostatic transmission
- Maximum speed 6.2 mph

TRAVELLING 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

8
DRIVING

12
DIGGING

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

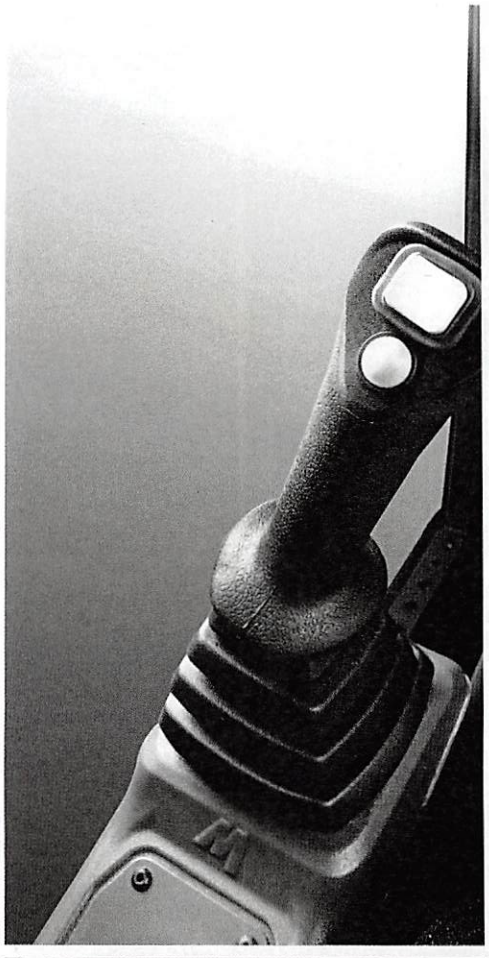
The figures

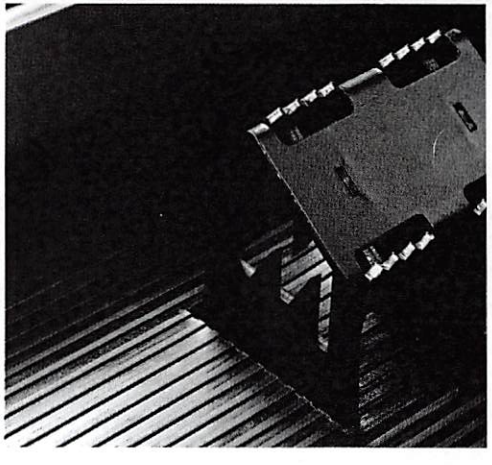
1”

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 synchronise 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

54FT²

OF TOTAL VISIBILITY

SEE FURTHER BEYOND

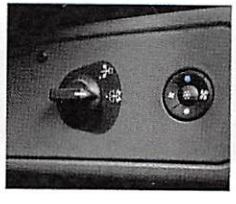
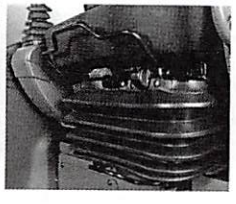
Constantly keeping an eye on what you're doing with the machine while trying to focus on the work site is a high responsibility. With the MCR, we've made the driver's direct line of vision a priority. The rear hood lines of the machine have been carefully studied. The windshield is fully removable, allowing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

INTERMAT Innovation Awards 2015
SILVER

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 Mecalac'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 modernise work methods and contribute to your sites' productivity by designing the most suitable equipment.

DETOUR-FREE DIGGING

The figures

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 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 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-build 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 safety. 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?

TOOLCARRIER

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 or 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

TECHNICAL DATA

WEIGHT	6MCR	8MCR	10MCR
Without load, in working order, without bucket, rubber tracks, with no bucket, full tank of fuel and operator	**12,600 lb** (5700 kg)	**15,900 lb** (7200 kg)	**20,700 lb** (9400 kg
Additional counterweigh	**880 lb** (400 kg)	**940 lb** (425 kg)	**1300 lb** (590 kg)
Ground Pressure rubber tracks	width **16 in** (400 mm) **5.4 lb/in²** (0.38 kg/cm²)	width **18 in** (450 mm) **5.4 lb/in²** (0.38 kg/cm²)	width **18 in** (450 m **6.5 lb/in²** (0,46 kg/c
Ground Pressure steel tracks	width **16 in** (400 mm) **5.5 lb/in²** (0,39 kg/cm²)	width **16 in** (400 mm) **6.2 lb/in²** (0,44 kg/cm²)	width **16 in** (400 m **7.5 lb/in²** (0,53 kg/c

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 L
Horsepower (DIN 70020)	55.4 kW (75hp)	55.4 kW (75hp)	55.4 kW (75.3hp)
Engine speed	2,300 rpm	2,000/2,300 rpm	2,200 rpm
Max. torque	**192 lb.ft** (260 Nm) at 1,800 rpm	**221 lb.ft** (300 Nm) at 1,600 rpm	**287 lb.ft** (390 Nm) at 1,300 rpm
Cubic capacity	**177 in³** (2900 cm³)	**177 in³** (2900 cm³)	**220 in³** (3600 cm³)
Cooling	water	water	water
Air filter, cyclonic, dry, cartridge	•	•	yes
Fuel consumption (depending on operating conditions)	**2.1 to 2.4 gal/hr** (8 to 9 l/h)	**2.1 to 2.4 gal/hr** (8 to 9 l/h)	**2.1 to 2.9 gal/hr** (7 to 11 l/h)
Machine external sound level	99 dB	99 dB	99 dB
Fuel tank capacity	**18 gal** (70 l)	**19 gal** (73 l)	**28 gal** (105 l)
Cooling system capacity	**5 gal** (18 l)	**5 gal** (20 l)	**4 gal** (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	**16 in** (400 mm)	**18 in** (450 mm)	**18 in** (450 mm)
Steel tracks	width	**16 in** (400 mm)	**16 in** (400 mm)	**16 in** (400 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		**80 in** (2030 mm)	**82.7 in** (2100 mm)	**90.6 in** (2300 mm)
- Height		**13 in** (330 mm)	**16.7 in** (423 mm)	**16.5 in** (420 mm)
- Lift height/ground		**14.1 in** (358 mm)	**14.8 in** (377 mm)	**18.4 in** (468 mm)
- Max. depth underground		**13.4 in** (340 mm)	**12.9 in** (327 mm)	**9.8 in** (248 mm)

TRANSMISSION		6MCR	8MCR	10MCR
Closed circuit hydrostatic transmission **SENSO DRIVE**				
Transmission hydraulics: 1 dual variable displacement pump, automotive power control		•		
- Flow rate		**2x26.4 gpm** (2x100 l/min)	**2x26.4 gpm** (2x100 l/min)	**2x26.4 gpm** (2x100 l/min)
- Maximum pressure		**4,800 psi** (330 bar)	**5,220 psi** (360 bar)	**4,800 psi**(330 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		**9,000 lbf** (4000 daN)	**12,150 lbf** (5400 daN)	**15,300 lbf** (6800 daN)
- Travelling speed	Range I	**3.1 mph** (5 km/h)	**3.1 mph** (5 km/h)	**3.1 mph** (5 km/h)
	Range II	**6.2 mph** (10 km/h)	**6.2 mph** (10 km/h)	**5.6 mph** (9 km/h)

HYDRAULIC SYSTEM	6MCR	8MCR	10MCR
Hydraulic oil tank	**14 gal** (53 l)	**15 gal** (56 l)	**20 gal** (77 l)
ATTACHMENT AND ROTATION CIRCUIT			
Variable displacement pump	**2.7 in³** (45 cm³)	**3.8 in³** (63 cm³)	**4.6 in³** (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	**26.4 gal/min** (100 l/min)	**33.3 gal/min** (126 l/min)	**43.6 gal/min** (165 l/min)
- Maximum working pressure	**4,060 psi** (280 bar)	**4,060 psi** (280 bar)	**4,350 psi** (300 bar)
STANDARD ACCESSORY LINE			
Maximum flow available	**23.8 gal/min** (90 l/min)	**23.8 gal/min** (90 l/min)	**37 gal/min** (140 l/min)
Minimum flow available	**5.3 gal/min** (20 l/min)	**5.3 gal/min** (20 l/min)	**9.3 gal/min** (35 l/min)
Flow can be set via control panel (factory setting)	**21.1 gal/min** (80l/min)	**21.1 gal/min** (80l/min)	**21.1 gal/min** (80l/min)
Pressure can be set between 1,740 and 4,060 psi (120 and 280 bar) (factory setting)	**2,610 psi** (180 bar)	**2,610 psi** (180 bar)	**2,610 psi** (180 bar)
Proportional hydraulic control of the attachment integrated on right-hand joystick	•	•	•
EXTRA ACCESSORY LINE (DIVERTED FROM OFFSET CYLINDER)			
Max. flow available		**8 gal/min** (30 l/min)	
Flow can be set via control panel (factory setting)		**8 gal/min** (30 l/min)	
Pressure max. (fixed)		**4,060 psi** (max. 280 bar)	
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	6MCR	8MCR	10MCR
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 rpm** (10 tr/min)	**10 rpm** (10 tr/min)	**10 rpm** (10 tr/min)
Rotation torque	**9,800 lb.ft** (1330 daNm)	**12,400 lb.ft** (1690 daNm)	**15,700 lb.ft** (2125 daNm)

CAB	6MCR	8MCR	10MCR
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)

EQUIPMENT	6MCR	8MCR	10MC
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	**45.3 in** (1150 mm)	**64.2 in** (1630 mm)	**64.2 i** (1630 m
Right offset	**72 in** (1830 mm)	**80 in** (2030 mm)	**80 in** (2030 m
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, optimume 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

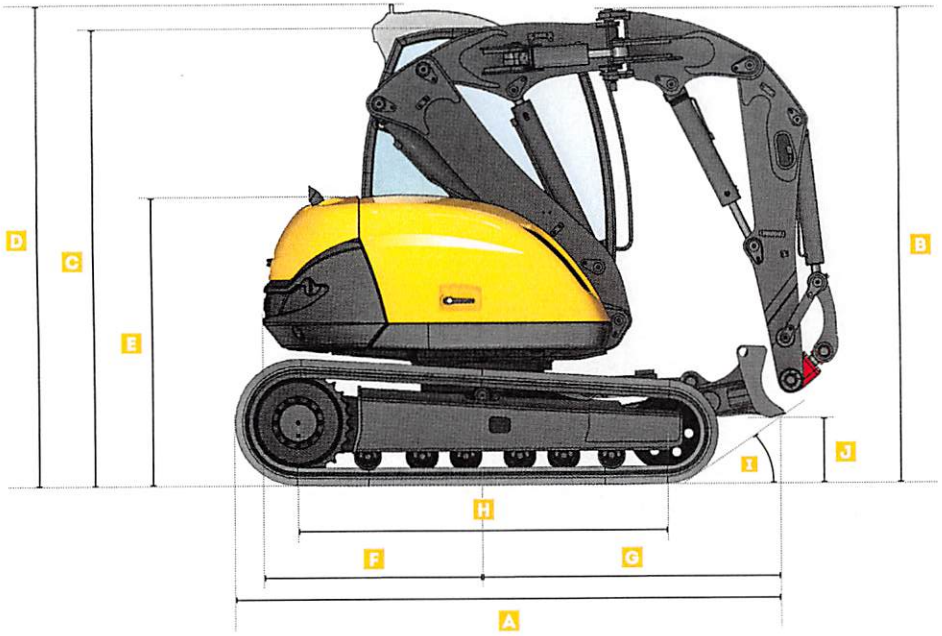
SAFETY

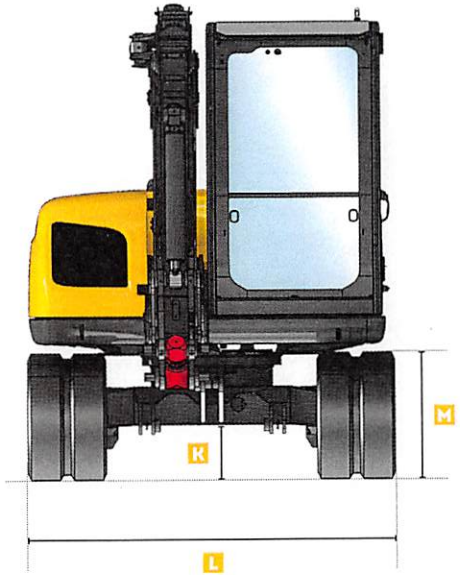
- Impossible for a bucket to drop, once lifted off the ground no matter if locked or not, regardless of the direction of the tool, a "hook" system preventing a drop of the bucket, integration of a safety-valve in the cylinder
- Continuous detection of the cylinder position, "real time" measurement of 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

DIMENSIONS



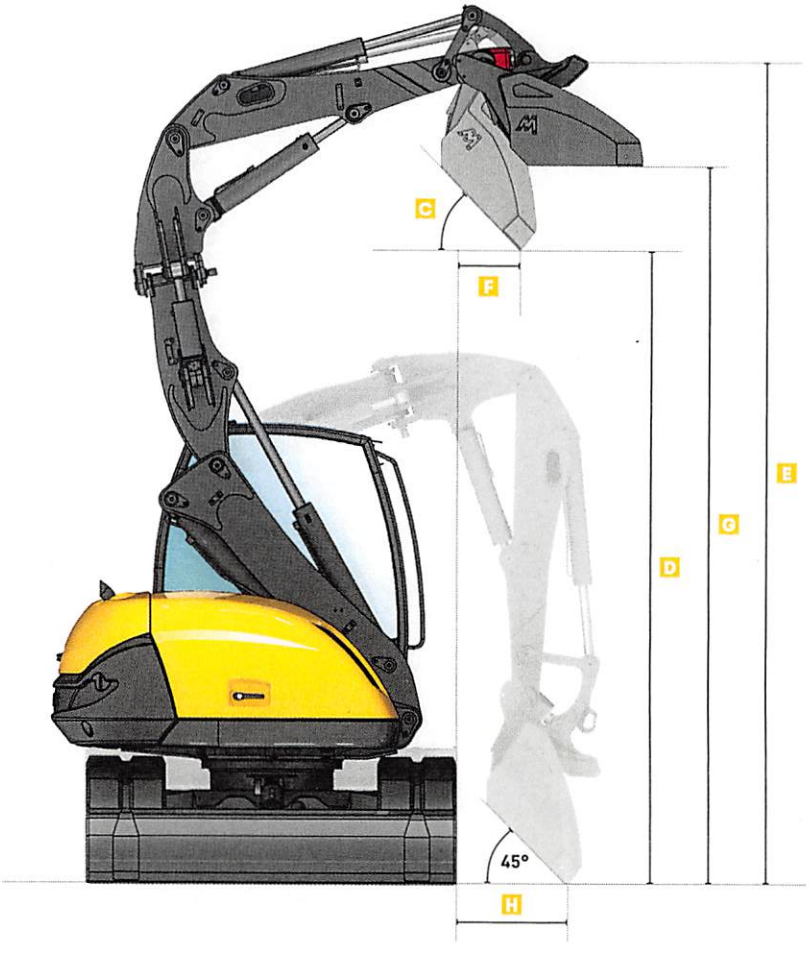


	MACHINE DIMENSIONS	6MCR	8MCR	10MCR
A	Overall length	9'3" (2831 mm)	10'3" (3129 mm)	10'11" (3344 mm)
B	Overall height	8'9" (2660 mm)	9'6" (2900 mm)	10'8"(3250 mm)
C	Cab height (without attachment)	8'7" (2623 mm)	8'7" (2623 mm)	8'11" (2708 mm)
D	Cab height (without attachment, with AC option)	9' (2751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

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

*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	**0'4"** (100 mm)	**1'1"** (335 mm)	**1'12"** (608 mm)

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

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	**10'3"** (3120 mm)	**11'8"** (3571 mm)	**12'3"** (3728 mm)
E	Quick coupler axle: maximum height	**13'9"** (4196 mm)	**15'2"** (4636 mm)	**16'2"** (4930 mm)
F	Lateral unloading distance	**1'** (325 mm)	**1'2"** (348 mm)	**2'** (633 mm)
G	Height of the bucket, horizontal	**11'10"** (3612 mm)	**13'3"** (4051 mm)	**13'12"** (4265 mm)
H	Distance at crawlers	**2'** (610 mm)	**2'** (630 mm)	**3'9"** (1140 mm)

DIGGING

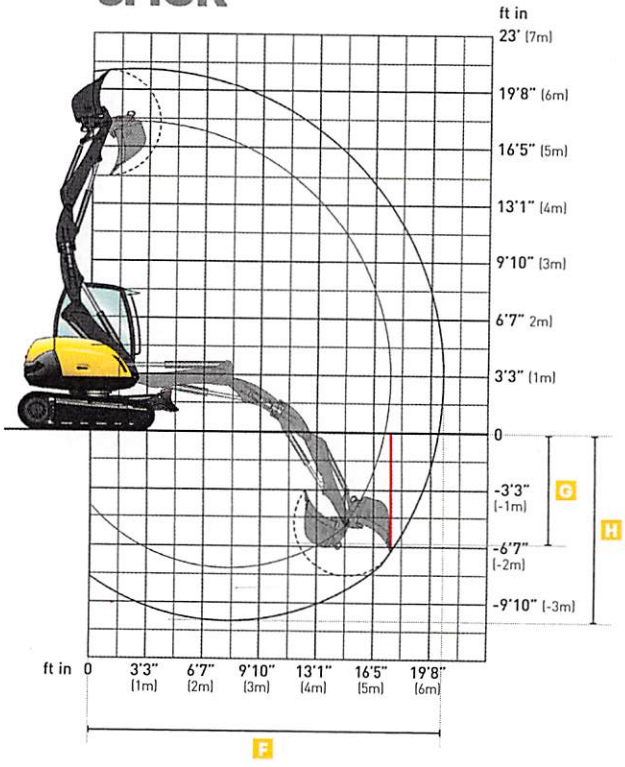
MACHINE DIMENSIONS		6MCR	8MCR	10MCR
A	Outside dimension with maximum offset	3'8" (1128 mm)	3'11" (1207 mm)	4'3" (1304 mm)
B	Maximum left offset	4'6" (1382 mm)	5'1" (1554 mm)	5'9" (1775 mm)
B'	Maximum right offset	5'12" (1824 mm)	5'3" (1600 mm)	6'8" (2034 mm)
C	Rear tail swing radius*	3'10" (1170 mm)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

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

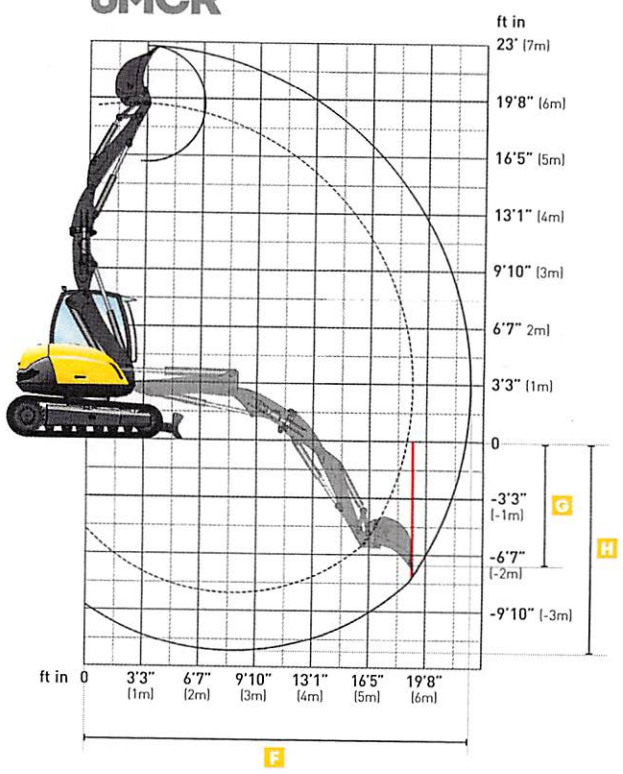
DIGGING PERFORMANCES	6MCR	8MCR	10MCR
Break-out force (max.)	**9,666 lbf** (4300 daN)	**11,240 lbf** (5000 daN)	**13,500 lbf** (6000 daN)
Penetration/Tear-out force (max.)	**5,620 lbf** (2500 daN)	**6,300 lbf** (2800 daN)	**7,650 lbf** (3400 daN)

DIGGING

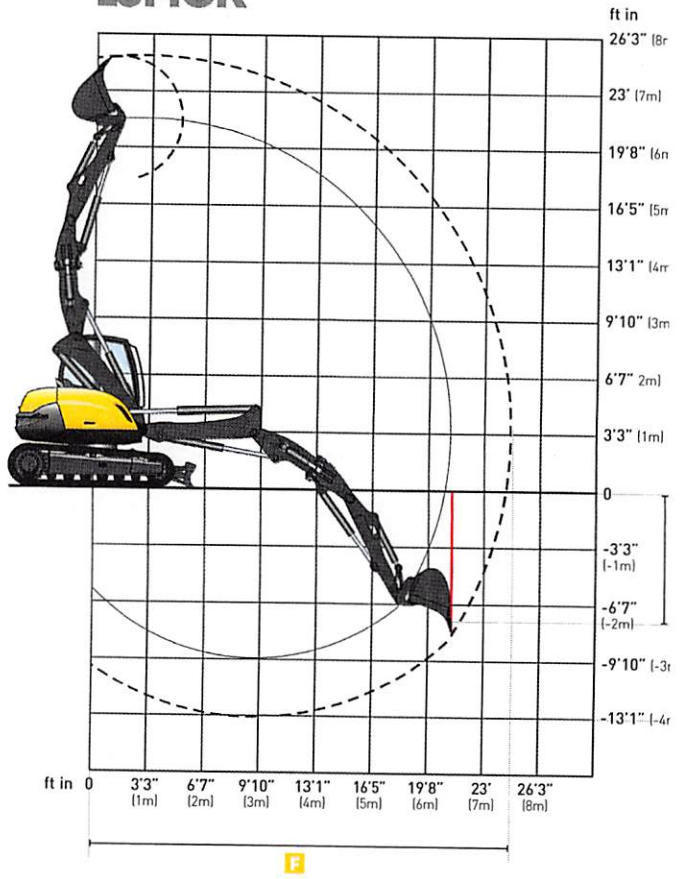
6MCR



8MCR



10MCR

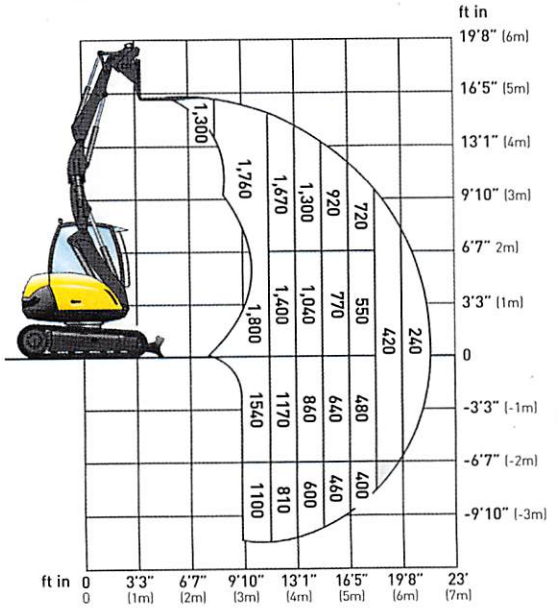


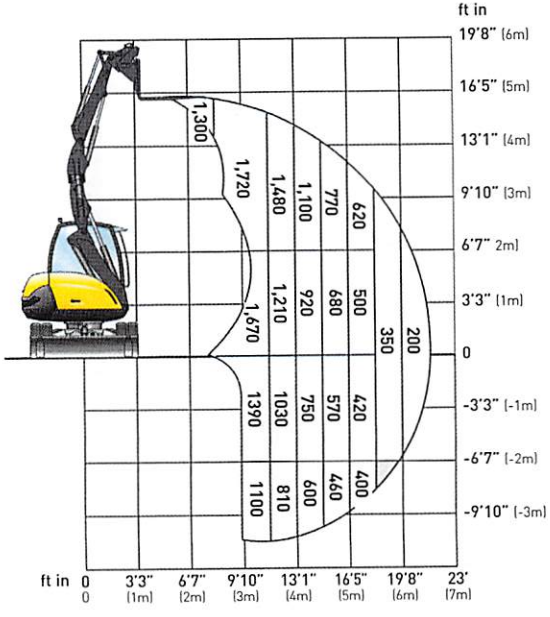
MACHINE DIMENSIONS	6MCR	8MCR	10MCR
F Maximum reach	20'5" 6220 mm	22'1" 6750 mm	24'7" 7500 mm
G Vertical digging depth maximum with standard bucket	6'4" 1940 mm	7'1" 2160 mm	7'6" 2300 mm
H Maximum digging depth	10'1" 3300 mm	12'1" 3700 mm	13'1" 4000 mm

6MCR - HANDLING

LIFTING FORCE WITH LOADING HOOK

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





WORKING CONDITIONS

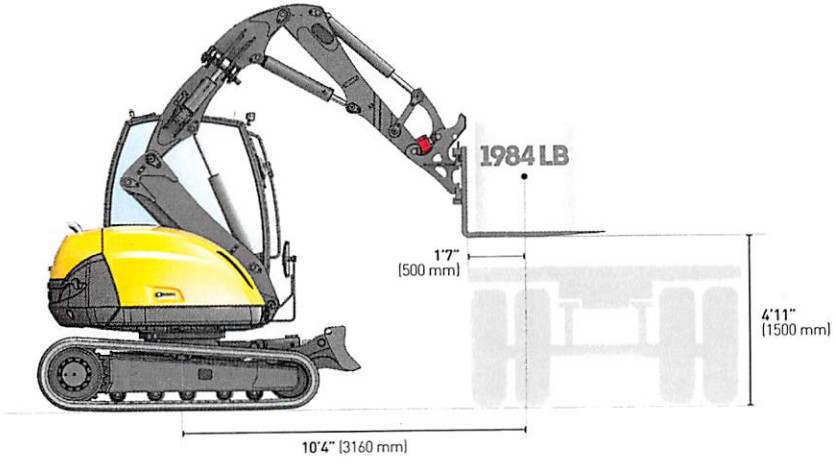
- On crawler, blade on the ground
- On horizontal, compact ground
- Equipment used without offset
- Equiped with pallet fork

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 FORCE WITH PALLET FORK FROM 0 TO 1,5 M HEIGHT

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



LIFTING FORCE WITH LOADING HOOK

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

	7 FT (2m)		10 FT (3m)		15 FT (4.5m)		18 FT (5.5m)	
12 FT (3.5m)	-	-	3,900 (1750)	3,900 (1750)	2,700 (1220)	1,750* (790*)	-	-
10 FT (3m)	-	-	4,500 (2020)	4,000 (1800)	3,400 (1540)	1,750* (790*)	-	-
5 FT (1.5m)	6,600 (3000)	6,600 (3000)	5,900 (2680)	4,200* (1910*)	3,700 (1660)	1,800* (800*)	2,400 (1090)	1,100* (500*)
0 M	6,600 (3000)	6,600 (3000)	6,600 (3000)	4,000* (1830*)	3,600 (1630)	1,600* (730*)	-	-
-5 FT (1.5m)	6,600 (3000)	6,600 (3000)	6,300 (2860)	3,450* (1560*)	3,100 (1400)	1,450* (650*)	-	-
-8 FT (2.5m)	6,600 (3000)	6,600 (3000)	3,650 (1650)	3,300 (1480)	-	-	-	-

Working in longitudinal position on blade side

Working in transverse position

WORKING CONDITIONS

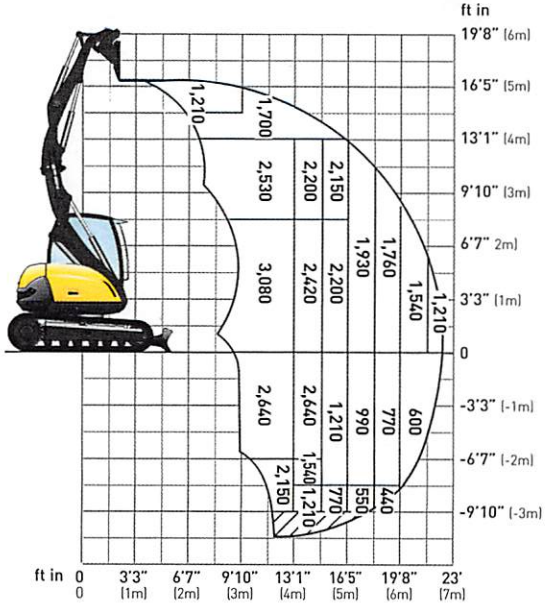
- On crawler, blade on the ground
- On horizontal, compact ground
- Equipment used without offset
- Without tools (bucket, shovel...) with handling plate and loading hook of 3 T
- Maximal 75% of the tipping load or 87% of the hydraulic capacity
- Maximum values determined for optimal position of boom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

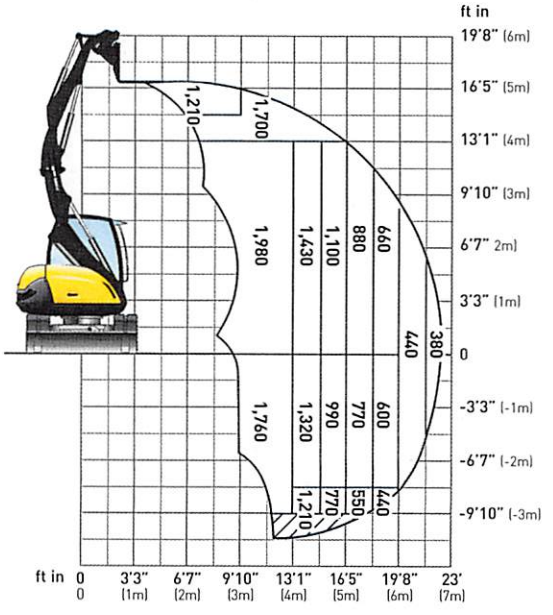
The lifting capabilities shown with an asterisk (*) are limited by the tipping load that can be lifted. Other values are limited by the hydraulic capabilities. The weight of the chain sling, bucket and other auxiliary lifting devices must be deducted from the nominal load to determine the load which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

8MCR - HANDLING

LIFTING FORCE WITH LOADING HOOK

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





WORKING CONDITIONS

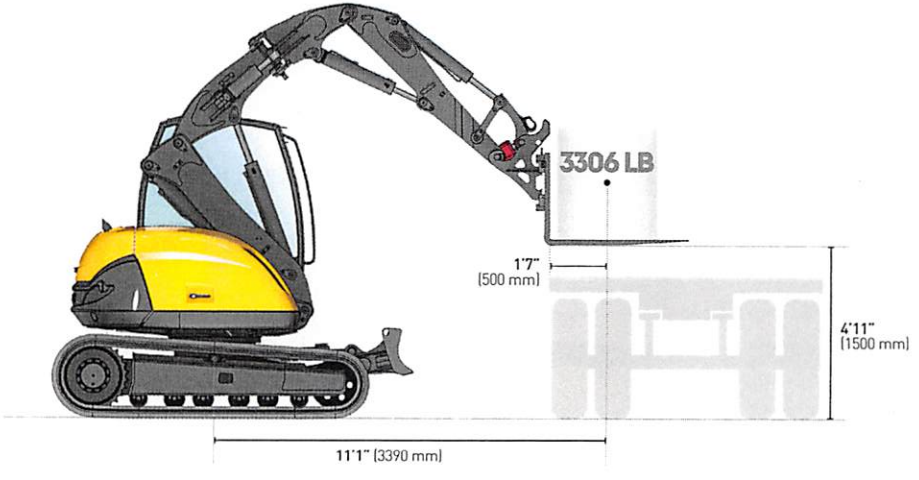
- On crawler, blade on the ground
- On horizontal, compact ground
- Equipment used without offset
- Equiped with pallet fork

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 FORCE WITH PALLET FORK FROM 0 TO 1,5 M HEIGHT

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



LIFTING FORCE WITH LOADING HOOK

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

	7 FT (2m)		10 FT (3m)		15 FT (4.5m)		20 FT (6m)	
16 FT (5m)	6,600 (3000)	6,600 (3000)	5,700 (2600)	5,700 (2600)	-	-	-	-
10 FT (3m)	5,700 (2600)	5,700 (2600)	5,700 (2600)	5,700 (2600)	4,100 (1850)	2,400 (1100)	3,100 (1400)	1,300* (600*)
5 FT (1.5m)	6,600 (3000)	6,600 (3000)	6,600 (3000)	5,700* (2600*)	4,740 (2150)	2,300 (1050)	3,100 (1400)	1,300* (600*)
0 M	6,600 (3000)	6,600 (3000)	6,600 (3000)	5,500* (2500*)	4,600 (2100)	2,300 (1050)	2,650 (1200)	1,200* (550*)
-3 FT (-1m)	6,600 (3000)	6,600 (3000)	6,600 (3000)	5,300* (2400*)	4,400 (2000)	2,100 (950)	2,200 (1000)	1,100* (500*)
-7 FT (-2m)	6,600 (3000)	6,600* (3000*)	6,600 (3000)	4,600* (2100*)	4,200 (1900)	2,000 (900)	1,800 (800)	1,100* (500*)
-10 FT (-3m)	6,600 (3000)	6,600 (3000)	6,600 (3000)	4,200* (1900*)	1,900 (850)	1,800 (800)	-	-

Working in longitudinal position on blade side

Working in transverse position

WORKING CONDITIONS

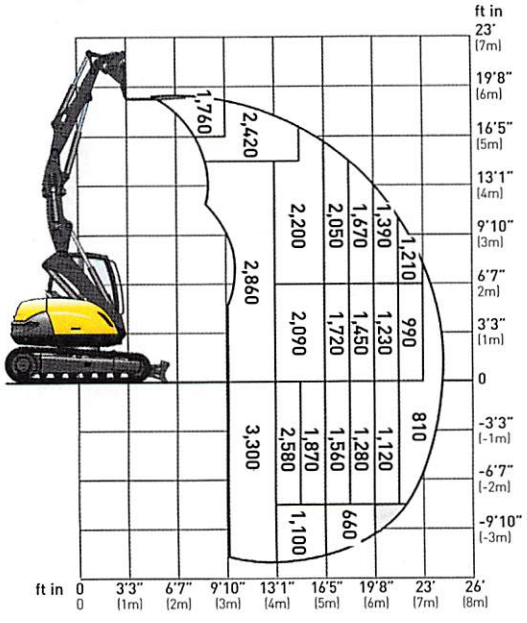
- On crawler, blade on the gro
- On horizontal, compact grou
- Equipment used without offs
- Without tools (bucket, shove with handling plate and load hook of 3 T
- Maximal 75% of the tipping l or 87% of the hydraulic capa
- Maximum values determine for optimal position of boom cylinders

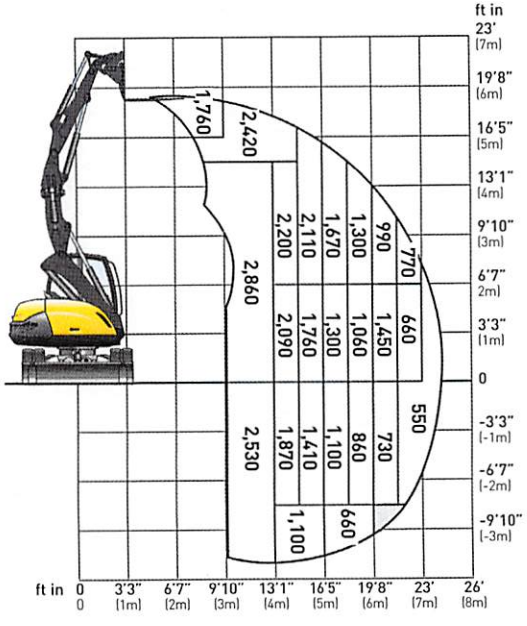
The lifting capabilities shown with an asterisk (*) are limited tipping load that can be lifted. Other values are limited by th hydraulic capabilities. The wei of the chain sling, bucket and auxiliary lifting devices must b deducted from the nominal loa determine the load which can

10MCR-HANDLING

LIFTING FORCE WITH LOADING HOOK

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





WORKING CONDITIONS

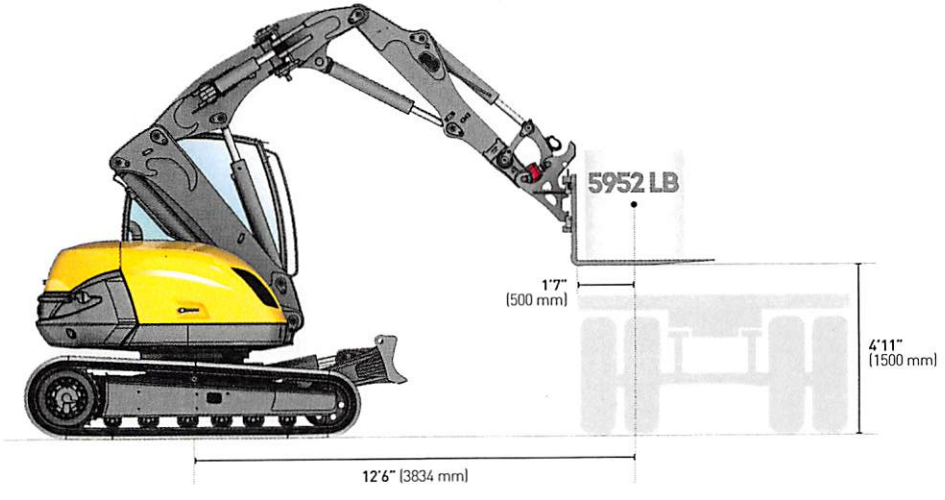
- On crawler, blade on the ground
- On horizontal, compact ground
- Equipment used without offset
- Equiped with pallet fork

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 FORCE WITH PALLET FORK FROM 0 TO 1,5 M HEIGHT

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



LIFTING FORCE WITH LOADING HOOK

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

	7 FT (2m)		10 FT (3m)		15 FT (4.5m)		20 FT (6m)	
10 FT (3m)	-	-	8,400 (3830)	8,400 (3830)	6,300 (2870)	4,300* (1930*)	4,100 (1850)	2,300* (1030*)
5 FT (1.5m)	-	-	8,800 (4000)	8,800 (4000)	6,700 (3050)	4,100* (1870*)	4,200 (1920)	2,200* (1000*)
0 M	8,800 (4000)	8,800 (4000)	8,800 (4000)	8,600* (3910*)	6,750 (3060)	3,800* (1720*)	3,700 (1690)	2,100* (940*)
-5 FT (1.5m)	8,800 (4000)	8,800 (4000)	5,300 (2390)	5,300* (2390*)	5,450 (2470)	3,300* (1500*)	2,100 (950)	1,650* (750*)
-10 FT (3m)	8,800 (4000)	8,800 (4000)	5,800 (2630)	5,800* (2630*)	-	-	-	-

Working in longitudinal position on blade side

Working in transverse position

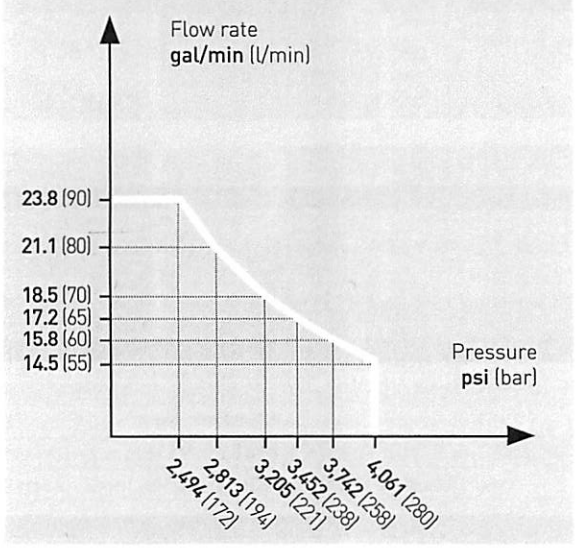
WORKING CONDITIONS

- 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.

6MCR

FLOW RATE / PRESSURE AUXILIARY 1 (PROPORTIONAL)

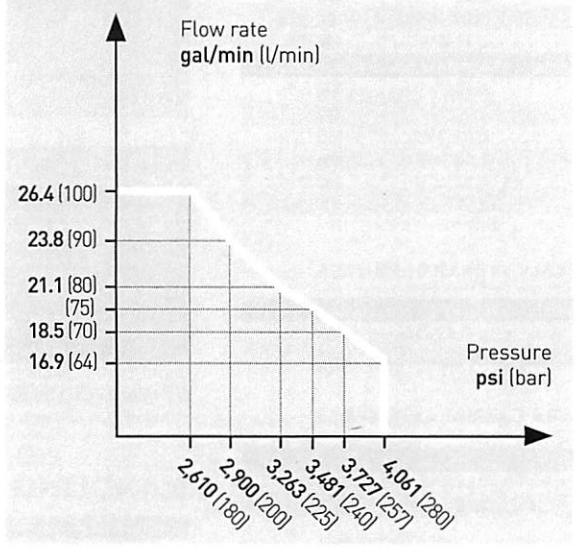


AUXILIARY LINE 2	DATA
Offset cylinder diverted (clamshell rotation)	
Flow rate maximum	**7.9 gal/min** (30 l/min)
Pressure	**4,061 psi** (280 bar)
Controls	Proportional as option

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

8MCR

FLOW RATE / PRESSURE AUXILIARY 1 (PROPORTIONAL)

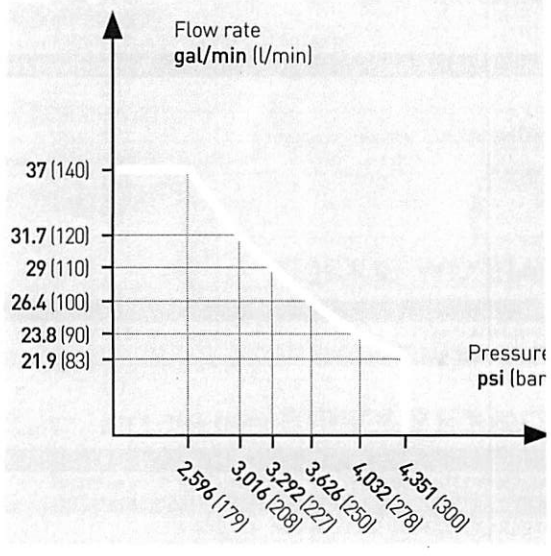


AUXILIARY LINE 2	DATA
Offset cylinder diverted (clamshell rotation)	
Flow rate maximum	**7.9 gal/min** (30 l/min)
Pressure	**4,061 psi** (280 bar)
Controls	Proportional as option

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

10MCR

FLOW RATE / PRESSURE AUXILIARY 1 (PROPORTIONAL)



AUXILIARY LINE 2	DATA
Offset cylinder diverted (clamshell rotation)	
Flow ratemaximum	**7.9 gal/min** (30 l/min)
Pressure	**4,351 psi** (300 bar)
Controls	Proportional as option

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

MECALAC EXCLUSIVE ATTACHMENTS

DIGGING BUCKETS

6MCR	WIDTH in (mm)	number of teeth	VOLUME yd³ (l)	WEIGHT lb (kg)*
DIGGING BUCKET with teeth or with no teeth	1'2" (350)	3	0.11 (85)	232 (105)
	1'6" (450)	3	0.15 (115)	260 (118)
	1'12" (600)	4	0.21 (160)	335 (152)
	2'5.5" (750)	5	0.27 (205)	386 (175)
	2'11" (900)	5	0.33 (250)	430 (195)
8MCR	**WIDTH in (mm)**	**number of teeth**	**VOLUME yd³ (l)**	**WEIGHT lb (kg)***
DIGGING BUCKET with teeth or with no teeth	1'2" (350)	3	0.14 (105)	242.5 (110)
	1'6" (450)	3	0.18 (137)	269 (122)
	1'12" (600)	4	0.25 (191)	388 (176)
	2'5.5" (750)	5	0.33 (250)	434.5 (197)
	2'11" (900)	5	0.41 (310)	476 (216)
10MCR	**WIDTH in (mm)**	**number of teeth**	**VOLUME yd³ (l)**	**WEIGHT lb (kg)***
DIGGING BUCKET with teeth or with no teeth	1'2" (350)	3	0.17 (130)	344 (156)
	1'6" (450)	3	0.24 (180)	381 (173)
	1'12" (600)	3	0.33 (250)	507 (230)
	2'5.5" (750)	4	0.45 (330)	584 (265)
	2'11" (900)	4	0.53 (405)	650 (295)
	3'11" (1200)	5	0.74 (565)	807 (366)

NARROW BUCKET

TYPE	WIDTH in (mm)	number of teeth	VOLUME yd³ (l)	WEIGHT lb (kg)*
NARROW BUCKET	0'82" (250)	2	0.8 (62)	407 (185)
NARROW BUCKET	1' (300)	3	0.10 (80)	434 (197)

LOADER BUCKETS (SKID AND 4X1)

6MCR	WIDTH in (mm)	number of teeth	VOLUME yd³ (l)	WEIGHT lb (kg)*
SKID BUCKET with no teeth	6'66"(2030)	-	0.64 (490)	778 (353)
4X1 BUCKET with teeth or with no teeth	6'66"(2030)	6	0.55 (420)	1,135 (515)
KIT DE RACCORDEMENT GODET SKID 4x1 - 4 FLEXIBLES	-	-	-	11 (5)
BOLTED COUNTERBLADE FOR 4X1 BUCKET	6'66" - 1'21" (2030 - 370)	-	-	-
8MCR	**WIDTH in (mm)**	**number of teeth**	**VOLUME yd³ (l)**	**WEIGHT lb (kg)***
SKID BUCKET with no teeth	6'89" (2100)	-	0.70 (530)	787 (357)
GODET SKID 4x1 avec ou sans dents	6'89" (2100)	7	0.60 (450)	1,219 (553)
4X1 BUCKET with teeth or with no teeth	6'89" (2100)	7	0.65 (500)	1,247 (566)
4X1 BUCKET CONNECTION SET, 4 FLEXIBLE JOINTS	-	-	-	11 (5)
BOLTED COUNTERBLADE FOR 4X1 BUCKET with no teeth 7 boreholes - center-to-center borehole distance 320	6'89" (2100)	-	-	130 (59)
10MCR	**WIDTH in (mm)**	**number of teeth**	**VOLUME yd³ (l)**	**WEIGHT lb (kg)***
SKID BUCKET with no teeth	7'55" (2300)	-	1.00 (750)	939 (426)
4X1 BUCKET with teeth or with no teeth	7'55" (2300)	7	0.75 (570)	1,472 (668)
4X1 BUCKET CONNECTION SET, 4 FLEXIBLE JOINTS	-	-	-	11 (5)
BOLTED COUNTERBLADE FOR 4X1 BUCKET with no teeth 7 boreholes - center-to-center borehole distance 360	7'55" (2300)	-	-	143.5 (65)

PALLET FORK

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

DITCHING BUCKET

6MCR - 8MCR	Specifications	WIDTH in (mm)	VOLUME yd³ (l)	WEIGHT lb
DITCHING BUCKET 1 COUPLING		4'11" (1500)	0.34 (262)	551 (25
BOLTED COUNTER BLADE	borehole center-to-center distance 160	4'11" (1500)	-	-
10MCR	**Specifications**	**WIDTH in (mm)**	**VOLUME yd³ (l)**	**WEIGHT lb**
DITCHING BUCKET 1 COUPLING		5'10" (1800)	0.41 (314)	634 (28
DITCHING BUCKET 3 COUPLINGS		5'10" (1800)	0.41 (314)	750 (34
BOLTED COUNTER BLADE for DITCHING BUCKETS	borehole center-to-center distance 160	5'10" (1800)	-	104 (4

ROTATING TRAPEZOIDAL BUCKET

10MCR	Dimensions	WEIGHT lb
ROTATING TRAPEZOIDAL BUCKET	300 X 900 X H 700	418 (19
ROTATING TRAPEZOIDAL BUCKET	400 X 900 X H 1200	695 (31

HANDLING PLATE AND HAMMER PLATE

TYPE	Specifications	WEIGHT lb
HANDLING PLATE with hook	to be used with 3 safety valves	94 (4
HAMMER PLATE no boreholes	-	176 (8
HAMMER PLATE with boreholes	contact your dealer	176 (8

HANDLING JIB

6MCR - 8MCR	Specifications	WEIGHT lb
HANDLING JIB	length 2000 mm, lifting capacity 500 Kg to be used with 4 safety valves	177 (80
10MCR		
HANDLING JIB	length 4100 mm, lifting capacity 500 Kg to be used with 4 safety valves	249 (11

CLAMSHELL BUCKET SUPPORT

TYPE	Specifications	WEIGHT lb
SUPPORT PIECE FOR CLAMSHELL BUCKET - 6MCR, 8MCR and 10MCR	-	99 (4
SUPPORT PIECE FOR CLAMSHELL BUCKET	-	113 (5

RIPPER TOOTH

TYPE	WEIGHT lb
RIPPER TOOTH	374 (17

OPTIONS
TO TAILOR YOUR MCR TO YOUR NEEDS

CUSTOMER COLORS

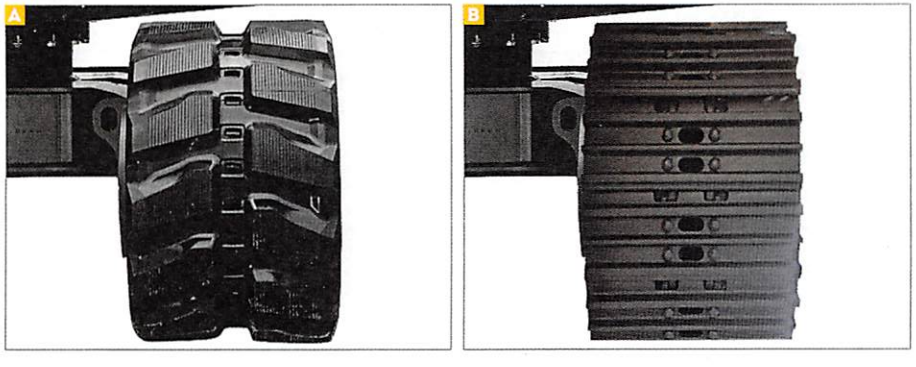
If you'd like to have your Mecalac MCR painted in your company's colors?
Personalize your Mecalac with your own codes RAL.

Colors samples

TRACKS

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

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



THE CAB - COMFORT AND SAFETY

Heating and air conditioning (increases cab height)
Rotating beacon
Front working light
Additional front working light
Additional rear working ligh
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)