Combining proactive listening and practical, relevant industrial solutions is the Mecalac approach, meaning we can better size and customize our offers and machines. Our single professional aim is to be partner in the continuous success of each one of our customers and to ensure our products serve as good ambassadors for their companies.
The 714MCe is perfect for road, drainage and earthmoving applications on sites where space is limited. It fulfills your compactness, performance and profit expectations. Efficiency and kinematics, quick coupling and compactness render the 714MCe flexible and adapted to all situations. A key factor in the profitability of your work sites.

THE COMPACTNESS AND THE STABILITY OF THE 714MCe GIVE EFFICIENCY A NEW MEANING

THE BEST ALLEY FOR YOUR WORK
EASY TO DRIVE, INCOMPARABLE COMFORT

714 MCe & OPTIONS

TECHNICAL DATA
OFFER EACH CUSTOMER THE SOLUTION THEY NEED

40 years of experience, working alongside our clients, has enabled us to develop original solutions and continually innovative solutions ...

- 90 kW / 122 HP at 2,200 rpm
- 14100 / 15300 kg
- traction force 9500 daN
- multipurpose boom with integrated offset operated with two asymmetric with two asymmetric cylinders (patented system)
- pre-selected modes to adapt driving to your preferences and experience
- X chassis giving self cleaning in muddy conditions
- **Active Lock**, hydraulic quick-release coupling
- **Active Control**, load sensing, flow sharing, cylinders coupling
COMPACTNESS AND STABILITY

With a short radius of 1,600 mm, the 714MCe works in a single lane. Furthermore, the kinematics of its equipment render it effective even in extremely restricted working zones (total excavator rotation in 3,720 mm). To meet the requirements of the user, the 714MCe may be equipped with a steel plate (500, 600 or 750 mm) or rubber plate (500 mm) crawler for work in urban areas. Giving priority to performance and stability, Mecalac has developed an anchoring blade to optimise ground contact.

PERFORMANCE, VERSATILITY AND PROFITABILITY

Thanks to its boom based on Mecalac know-how, the 714MCe is efficient under all circumstances. The lifting arm system with two asymmetric cylinders guarantees a homogenous lifting force over the entire lifting range. The 2 travel speeds, 5.5 and 3 km/h, minimize the transfer time on site. The electronic system controls all vital components via the CANBUS, optimises excavator operation and indicates essential information to the operator for precise machine operation.

The 714MCe digs, loads, handles and may be equipped with numerous attachments. Thanks to Mecalac Active Lock, hydraulic quick-release coupling, the operator may change tools in only a few seconds. The specific kinematics of the equipment, based on Mecalac know-how, guarantee the efficiency of the excavator regardless of the attachment used.
For your drainage channel installation work, the 714MCę meets all your needs for compactness and power.

The offset* to the right or the left of boom facilitates trench work: the bucket may be offset by 2,300 mm from the machine axis. This offset is used during surfacing to level, grade and create a right/left incline.

Thanks to the X crawler chassis, the machine remains stable and efficient during rotation. In order to adapt the machine to all surfaces, the crawler is available with rubber or steel plates.

*option
LIFTING CAPACITIES

Equipped with a handling hook, used to install concrete pipes or screening, you will appreciate the lifting capacity of the 714MCE. Furthermore, its hydraulic operated crawler chassis driven by two piston motors and equipment configuration provide it with exceptional stability and a large load handling capacity. Its DEUTZ engine, with latest technology, 90 kW/122 HP delivers the power required for the most demanding operations.

EFFICIENCY

Thanks to the original kinematics of the equipment and the lifting arm system with two asymmetric cylinders, the 714MCE smoothes and digs with a high level of precision and performance. Furthermore, the spacious and ergonomically designed driver’s cab guarantees optimum working conditions for the operator all day long. Excavator and loader bucket for use as earth mover, pallet fork, vibrating plate... are all tools used regularly. The short turret radius does not exceed 1,600 mm which leaves the other lane free and therefore does not hinder road traffic. The operator may therefore concentrate his attention entirely on the working zone.
The best that technology has to offer is useless without a composed, well-rested and focused human operator sat in the driver’s seat. Making him/her feel comfortable and confident by maximizing cockpit safety is vital to generating rewarding working conditions and fostering entrepreneurship. For both urban and suburban environments, as well as the individual demands of your work site, the 714MC guarantees maximum profitability thanks to its unprecedented performance and simplicity of use, ushering in a new generation of compact, versatile equipment for the construction sector.
COMFORT AND SPACE

Details that count
• Sliding door
• Front windshield fully removable
• The cabin offers numerous storage compartments suited to your needs
• The armrest can be folded directly with the console
• The floor mat is specially conceived to facilitate the cleaning
• The position of the air vents is devised to ensure optimal comfort

These details and many more ensure your well-being throughout the day.
The 714MCe 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 tires, 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 714MCe to your brand and business.

**714MCe STANDARD EQUIPMENT**

**ENGINE**
- Turbocharged intercooled "common rail engine" DEUTZ TCD 3.6 Tier 4i, 90 kW, 4 cylinders, water-cooled, automatic slow down

**KINEMATICS**
- 3 or 4-part adjustable boom kinematics
- Two asymmetric boom cylinders with safety valves
- Quick coupler system with hydraulic overlocking Active Lock
- Limit dampers on the cylinders

**3 OPERATING MODES**
- 3 operating modes: Parking - Working - Road
- Hydraulic-assisted proportional function controls using joysticks

**THE CAB - COMFORT AND SAFETYS**
- Cab access by step
- Electronic control panel with LCD display combining safety and monitoring information, visual indicators, and audible alarms
- Cab with wide view and supreme comfort and ROPS/FOPS standard-compliant with:
  - A sliding swing door, a Mecalac exclusive
  - A fully removable front windshield
  - A sliding window
  - Front working lights
- Steering column with three adjustment controls: 2 for tilt, one for steering wheel height
- Multiple storage areas (A4 documents, bottle, cellular phone, etc.)
- ISO 10263 compliant water heating
- Movable seat, adjustable to the driver’s morphology
OPTIONS
TO TAILOR YOUR 714MCe TO YOUR NEEDS

CUSTOMER COLORS
If you’d like to have your Mecalac 714MCe painted in your company’s colors?
Personalize your Mecalac with your own codes RAL.

COLORS SAMPLES

TRACKS
A Steel tracks with rubber pads: 500 mm
B Steel tracks: 500, 600 and 750 mm

THE CAB - COMFORT AND SAFETY
Heating and air conditioning
Rotating beacon
Additional front working light
Additional rear working light
FOPS GRID
Radio 2 speakers, USB key port
Cabin sun visor

THE CAB - COMFORT AND SAFETY
Windscreen sun visor
Roof window sun visor
Heated pneumatic seat

“HEAVY” COUNTERWEIGHT + 500 KG

OIL
Bio hydraulic oil (BIO 46)
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)

AUXILIARY LINES
Main proportional auxiliary line
Additional auxiliary line
Additional proportional auxiliary line
Hammer return line

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

QUICK COUPLER
Mecalac quick coupler with hook

LUBRICATION
Turret greasing unit
Centralized, manual lubrication for turret and equipment (except axles between connecting rod and quick coupler)
Centralized, automatic lubrication for turret and equipment

SAFETY EQUIPMENT
Translation buzzer
Overload buzzer indicator (in addition to the light)

KINEMATICS EQUIPMENT
Mecalac boom without offset
Mecalac boom with offset
Three-piece boom (variable fly without offset)

DOZER BLADE

TIER 4 ENGINE PARTICLES FILTER (DPF)

ELECTRIC GAS OIL PUMP WITH AUTOMATIC STOP

MECKLOCK ANTI-THEFT SYSTEM
**ENGINE**

<table>
<thead>
<tr>
<th>Feature</th>
<th>Data</th>
</tr>
</thead>
<tbody>
<tr>
<td>Turbocharged engine with chilled air inlet (stage 3B)</td>
<td>EGR valve and catalytic converter (DOC)</td>
</tr>
<tr>
<td>Diesel 4 in-line cylinders</td>
<td>Deutz TCD 3.6L4</td>
</tr>
<tr>
<td>Power DIN 70020</td>
<td>90 kW (122 ch) à 2200 rpm</td>
</tr>
<tr>
<td>Max. torque</td>
<td>480 N.m à 1600 rpm</td>
</tr>
<tr>
<td>Cubic capacity</td>
<td>3621 cm³</td>
</tr>
<tr>
<td>Cooling</td>
<td>Water</td>
</tr>
<tr>
<td>Air filter, cartridge (with clogging indicator in the cabin)</td>
<td>8 à 14 l/h</td>
</tr>
<tr>
<td>Diesel consumption (depending on operating conditions)</td>
<td>101 dB(A)</td>
</tr>
<tr>
<td>Sound power level (LWA)</td>
<td>Fuel [diesel]</td>
</tr>
<tr>
<td></td>
<td>158 l</td>
</tr>
</tbody>
</table>

**WEIGHT DATA**

<table>
<thead>
<tr>
<th>Track Type</th>
<th>Weight (kg)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rubber tracks without blade</td>
<td>13050</td>
</tr>
<tr>
<td>Steel tracks with rubber pads 500 mm</td>
<td>+130</td>
</tr>
<tr>
<td>Steel tracks - 500 mm</td>
<td>+240</td>
</tr>
<tr>
<td>Steel tracks - 600 mm</td>
<td>+450</td>
</tr>
<tr>
<td>Steel tracks - 750 mm</td>
<td>+760</td>
</tr>
<tr>
<td>Blade</td>
<td>+570</td>
</tr>
<tr>
<td>Steel tracks 500 mm +240 kg</td>
<td></td>
</tr>
<tr>
<td>Steel tracks 600 mm +450 kg</td>
<td></td>
</tr>
<tr>
<td>Steel tracks 750 mm +760 kg</td>
<td></td>
</tr>
<tr>
<td>Blade +570 kg</td>
<td></td>
</tr>
</tbody>
</table>

**ELECTRICAL SYSTEM**

<table>
<thead>
<tr>
<th>Feature</th>
<th>Data</th>
</tr>
</thead>
<tbody>
<tr>
<td>Voltage</td>
<td>24 V</td>
</tr>
<tr>
<td>Batteries 2 x 100 Ah/720 A</td>
<td>55 A</td>
</tr>
<tr>
<td>Alternator</td>
<td>4 kW</td>
</tr>
<tr>
<td>Electric sockets sealed</td>
<td></td>
</tr>
</tbody>
</table>

**UNDERCARRIAGE**

<table>
<thead>
<tr>
<th>Feature</th>
<th>Data</th>
</tr>
</thead>
<tbody>
<tr>
<td>Central X chassis,crawler, travelling driven by two 2 speed (3 km/h and 5.5 km/h) travel motors with automatic brakes</td>
<td></td>
</tr>
<tr>
<td>Idler block with tension adjustment through greasing point, greased track links, front track guide, chassis lower protection</td>
<td></td>
</tr>
</tbody>
</table>

**TRANSMISSION**

<table>
<thead>
<tr>
<th>Feature</th>
<th>Data</th>
</tr>
</thead>
<tbody>
<tr>
<td>Open circuit hydrostatic transmission</td>
<td>9500 daN</td>
</tr>
</tbody>
</table>
CAB

- Glass cab with wide view and supreme comfort
- FDPS/ROPS homologated
- Cab mounted on 4 rubber silent blocks
- Front windshield partly or fully removable under the cab roof
- Sliding door
- Opening door window
- Position adjustable, seat adapts to the shape of the operator
- Seat adjustable in both height and width with seatbelt
- Controls integrated into consoles located on either side of the seat and adjustable relative to the seat
- Water heating system complies with ISO 1026: high flow fan, high capacity for demisting and defrosting
- Controls carried out via proportional, ergonomic joysticks
- Electronic dashboard containing all safety and monitoring information, visual indicators and alarms
- Fuel levels and coolant temperature indicated on the dashboard
- Dashboard contains a color screen which automatically adapts contrast and light levels to current conditions
- Two front working light
- Rear storage area

TURRET

- Total rotation 360°
- Internal crown wheel drive mechanism
- Swivel with hydraulic motor with brake
- Rotation-speed: 10 rpm
- Rotation-torque: 3800 daN.m
- Hydraulic motor: 1260 cm³
- Max. pressure: 240 bar
- Shock absorber for progressive turret rotation, start and stop anks, capacity

HYDRAULIC

- Variable displacement pump: max. 130 cm³
- Maximum flow rate: 270 l/min
- Maximum working pressure: 350 bar
- Proportional Load Sensing with individual balancing of each element: boom, adjustable boom, dipper stick, bucket and ancillary
- Proportionality of functions always achieved irrespective of the pressure level of each element: "flow sharing"
- Anti-cavitation overpressure relief valve in each element
- Hydraulically-assisted proportional function controls using joystick or foot pedals supplied at low pressure with emergency accumulator
- Associated functions controlled by solenoid-operated valves
- Attachments circuit: standard
  - Max. flow rate: 180 l
  - Adjustable flow rate to the monitor
  - Proportional function
  - Pressure: 200 bar
- Hydraulic oil: 148 l

BOOM

- Boom control with a patented system composed of two asymmetric cylinders enabling a angle of 140°
- Standard right and left offset with a hydraulic cylinder: [optional on multipurpose equipment]: 2.30 m/machine axis
- End bearings equipped with sealing rings and greasing via the rings
- Boom cylinders with end of travel shock absorbers
- Quick coupler Active Lock
  - Mecalac quick attach with automatic mechanical locking and hydraulic over-locking
  - Unlatching controlled hydraulically
TECHNICAL DATA - MECALAC BOOM WITH OFFSET

MACHINE DIMENSIONS

- **A**: Overall length 4550 mm
- **B**: Overall height 3500 mm
- **C**: Machine height (without equipment) 2930 mm
- **D**: Cover height 2000 mm
- **E**: Rear overhang 1600 mm
- **F**: Front overhang 2800 mm
- **G1**: Width with tracks 500 2450 mm
- **G2**: Width with tracks 600 2550 mm
- **G3**: Width with tracks 750 2700 mm
- **H**: Height below turret 1020 mm
- **I**: Ground clearance 523 mm
- **J**: Counterweight swing radius 1600 mm
- **K**: Height with boom folded 6000 mm
- **L**: Minimum slewing diameter 3200 mm
- **M**: Maximum clearance below blade 476 mm

LIFTING FORCE WITH LOADING HOOK - WITH BLADE ON GROUND

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

<table>
<thead>
<tr>
<th>FRONT SIDE</th>
<th>FRONT SIDE</th>
<th>FRONT SIDE</th>
<th>FRONT SIDE</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>3M</strong></td>
<td>6500</td>
<td>5700</td>
<td>4900</td>
</tr>
<tr>
<td><strong>45M</strong></td>
<td>7000</td>
<td>4300</td>
<td>4000</td>
</tr>
<tr>
<td><strong>6M</strong></td>
<td>7000</td>
<td>3900</td>
<td>2300</td>
</tr>
</tbody>
</table>

LIFTING FORCE WITH LOADING HOOK - TRACKS

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

<table>
<thead>
<tr>
<th>FRONT SIDE</th>
<th>FRONT SIDE</th>
<th>FRONT SIDE</th>
<th>FRONT SIDE</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>3M</strong></td>
<td>6500</td>
<td>5400</td>
<td>3000</td>
</tr>
<tr>
<td><strong>45M</strong></td>
<td>5200</td>
<td>4000</td>
<td>2500</td>
</tr>
<tr>
<td><strong>6M</strong></td>
<td>4700</td>
<td>3600</td>
<td>2400</td>
</tr>
</tbody>
</table>

WORKING CONDITIONS AT LIFTING HOOK

- Equipment used with or without offset (option)
- On horizontal, compact ground
- Equipment used without offset
- Oscillation axle blocked
- Without tools (bucket, shovel...) with handling plate and loading hook of 7 T
- 75% of the tipping load or 87% of the hydraulic capacity
- Maximum values determined for optimal position of boom and cylinders
PERFORMANCE DIGGING BUCKET

<table>
<thead>
<tr>
<th>Break-out force</th>
<th>8000 daN</th>
</tr>
</thead>
<tbody>
<tr>
<td>Penetration/Tear-out force</td>
<td>5500 daN</td>
</tr>
<tr>
<td>Maximum reach</td>
<td>8300 mm</td>
</tr>
<tr>
<td>Maximum digging depth</td>
<td>4550 mm</td>
</tr>
</tbody>
</table>

WORKING CONDITIONS LIFTING WITH PALLET FORKS

- On horizontal, compact ground
- Equipment used without offset
- Oscillation axle blocked
- Without tools (bucket, shovel...) with handling plate and loading hook of 7 T

ACCORDING TO ISO 10567

- 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 FORKS - WITH BLADE ON GROUND

<table>
<thead>
<tr>
<th>SIDE</th>
<th>SIDE</th>
<th>SIDE</th>
<th>SIDE</th>
</tr>
</thead>
<tbody>
<tr>
<td>8M</td>
<td>2500</td>
<td>2400</td>
<td>-</td>
</tr>
<tr>
<td>3M</td>
<td>-</td>
<td>1800</td>
<td>1600</td>
</tr>
<tr>
<td>2M</td>
<td>-</td>
<td>2100</td>
<td>1300</td>
</tr>
<tr>
<td>2M</td>
<td>-</td>
<td>-</td>
<td>1300</td>
</tr>
</tbody>
</table>
MACHINE DIMENSIONS

- Overall length: 4550 mm
- Overall height: 3500 mm
- Machine height (without equipment): 2930 mm
- Cover height: 2000 mm
- Rear overhang: 1600 mm
- Front overhang: 2800 mm
- Front overhang: 3660 mm
- Width with tracks 500: 2450 mm
- Width with tracks 600: 2550 mm
- Width with tracks 750: 2700 mm
- Height below turret: 1020 mm
- Ground clearance: 523 mm
- Counterweight swing radius: 1600 mm
- Height with boom folded: 6000 mm
- Minimum slewing diameter: 3200 mm
- Maximum clearance below blade: 476 mm

TECHNICAL DATA - THREE-PIECE BOOM

LIFTING FORCE WITH LOADING HOOK - WITH BLADE ON GROUND
All the weights are given in kg. The calculations are carried out for the entire range of the Mecalac quick coupler.

<table>
<thead>
<tr>
<th>FRONT SIDE</th>
<th>FRONT SIDE</th>
<th>FRONT SIDE</th>
<th>FRONT SIDE</th>
</tr>
</thead>
<tbody>
<tr>
<td>3M</td>
<td>4500</td>
<td>4500</td>
<td>4800</td>
</tr>
<tr>
<td>6M</td>
<td>7000</td>
<td>4000</td>
<td>6100</td>
</tr>
<tr>
<td>MAX</td>
<td>7000</td>
<td>3900</td>
<td>5500</td>
</tr>
</tbody>
</table>

LIFTING FORCE WITH LOADING HOOK - TRACKS
All the weights are given in kg. The calculations are carried out for the entire range of the Mecalac quick coupler.

<table>
<thead>
<tr>
<th>FRONT SIDE</th>
<th>FRONT SIDE</th>
<th>FRONT SIDE</th>
<th>FRONT SIDE</th>
</tr>
</thead>
<tbody>
<tr>
<td>3M</td>
<td>4500</td>
<td>4500</td>
<td>3100</td>
</tr>
<tr>
<td>6M</td>
<td>4800</td>
<td>3700</td>
<td>2500</td>
</tr>
<tr>
<td>MAX</td>
<td>4800</td>
<td>3700</td>
<td>2400</td>
</tr>
</tbody>
</table>

WORKING CONDITIONS AT LIFTING HOOK
Equipment used with or without offset (option)
- On horizontal, compact ground
- Equipment used without offset
- Oscillation axle blocked
- Without tools (bucket, shovel...) with handling plate and loading hook of 7 T
- 75% of the tipping load or 87% of the hydraulic capacity
- Maximum values determined for optimal position of boom and cylinders
PERFORMANCE DIGGING BUCKET

<table>
<thead>
<tr>
<th></th>
<th>SIDE</th>
<th>SIDE</th>
<th>SIDE</th>
<th>SIDE</th>
</tr>
</thead>
<tbody>
<tr>
<td>Break-out force</td>
<td>8000 daN</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Penetration/Tear-out force</td>
<td>6200 daN</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Maximum reach</td>
<td>8900 mm</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Maximum digging depth</td>
<td>4800 mm</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

LIFTING FORCE WITH PALLET FORKS - WITH BLADE ON GROUND

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

<table>
<thead>
<tr>
<th></th>
<th>SIDE</th>
<th>SIDE</th>
<th>SIDE</th>
<th>SIDE</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>MAX</td>
<td>35%</td>
<td>65%</td>
<td>MAX</td>
</tr>
<tr>
<td>6M</td>
<td>2400</td>
<td>1400</td>
<td>1300</td>
<td>1350</td>
</tr>
<tr>
<td>3M</td>
<td>2100</td>
<td>1800</td>
<td>1200</td>
<td>600</td>
</tr>
<tr>
<td>0M</td>
<td>-</td>
<td>2100</td>
<td>1300</td>
<td>500</td>
</tr>
<tr>
<td>-2M</td>
<td>-</td>
<td>-</td>
<td>1200</td>
<td>600</td>
</tr>
</tbody>
</table>

WORKING CONDITIONS LIFTING WITH PALLET FORKS

Equipment used with or without offset (option)
- On horizontal, compact ground
- Equipment used without offset
- Oscillation axle blocked
- Without tools (bucket, shovel…) with handling plate and loading hook of 7 T

ACCORDING TO ISO 10567
- 75% of the tipping load or 87% of the hydraulic capacity
- Maximum values determined for the most unfavorable position of boom and cylinders