MECALAC

MWR SERIES

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MWR SERIES

MECALAC


7.MWR

9.MWR

11.MWR


MWR SERIES

# URBAN MACHINE HUMAN ENGINE

*“For the past 60 years, innovation, accuracy and the search for performance have been the leading keywords of our company’s vision. At Mecalac, we imagine the machines designed for the construction sites of the 21st century. Since every job has its own characteristics and restrictions, since each country has its own culture, we build machines that respond perfectly to today’s challenges. Our machines are created by men, for men! We are proud to be human innovators who improve and push back the limits of our clients’ objectives.”*

Henri Marchetta, Chairman
Groupe Mecalac S.A.S.

MWR 7·9·11

# THE BEST OF 2 WORLDS

## LOWERING THE CENTER OF GRAVITY, SIMPLY REVOLUTIONARY!

**The fusion of the advantages of wheeled and crawler excavators brought about a unique Mecalac solution, conjugating mobility, versatility, stability, accessibility, driving user friendliness, lifting power and profitability. This is MWR series.**

WATCH THE VIDEO

## MECALAC INNOVATES AND OFFERS YOU TO WATCH MWR VIDEOS.

It's easy, all you need to do is scan the QR codes present on the pages of the brochure with your smartphone in order to access the video content.

If you don't have a scanning app, you can download a QR code scanner from the App Store or Google Play.

Available on the App Store

ANDROID APP ON Google play

# 7•9•11 MWR

# FROM GENESIS TO SOLUTION

## DESIGN: A STRONG AND STRATEGIC COMPONENT OF THE MECALAC IDENTITY

*"Our strength? Offering each client the most efficient solution. A deep analysis of users' work process allows us to provide the right industrial and versatile answer to their requests. This approach allows to offer better fitted machines based on the real needs of the jobsite. At Mecalac, design has always been part of our creation process. It is a strong and strategic component of our brand identity and products and is not limited to mere aesthetics. Our design is functional and secure. It blends ergonomics with smooth flowing lines".*

*Patrick Brehmer,*
*Head of Marketing,*
*Product Management & Design*

## AN EXCLUSIVE CONCEPT, A UNIQUE SOLUTION

**By lowering the center of gravity of the new MWR relative to its competitors, Mecalac revolutionizes by 100% the world of wheeled excavators.**

Consequences on all 'levels': from stability to accessibility, by way of security and 'all terrain' mobility, the machine gains in balance and in force without dropping any of its initial qualities.

More than a machine, the MWR is the achievement of a new concept and the result of a combined expertise of Mecalac for both wheeled and crawler excavators.

Its design has been developed to answer very demanding and complex specifications which Mecalac managed to implement in one single and unique machine.

The result: a machine with XS proportions and with XL lifting power, versatile and ultra-stable.

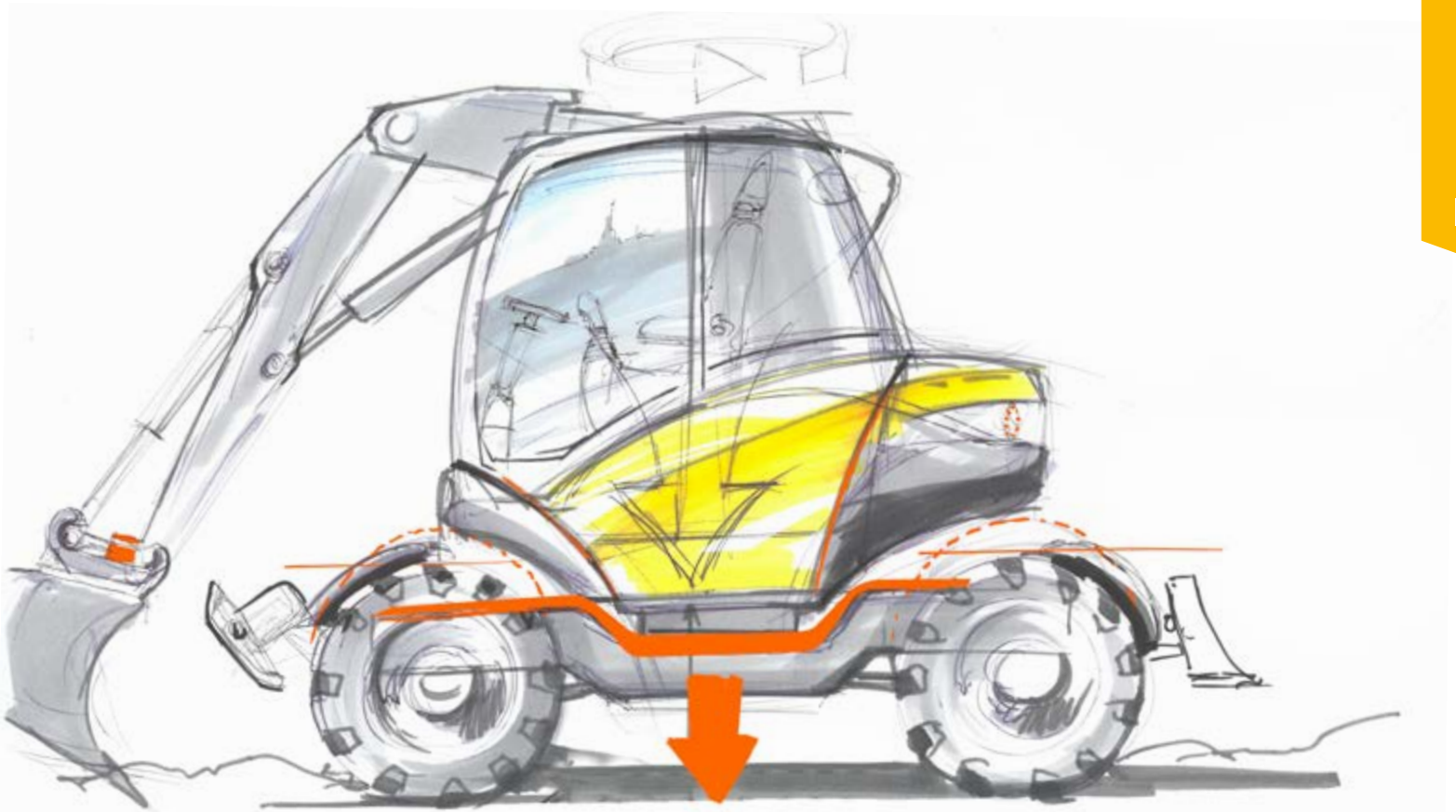
Moreover, the 9MWR benefits from the latest interior and exterior patented Mecalac technologies (articulated boom with offset, cylinder coupling, Connect quick coupler, central command selector, 'speed control' function).

## AWARD 2016

Mecalac wins the Prize for Design of the 2016 Innovation AWARDs at the world exhibition BAUMA for the new concept of excavators on tyres: MWR.

WINNER OF THE bauma Innovation Award 2016

WATCH THE VIDEO



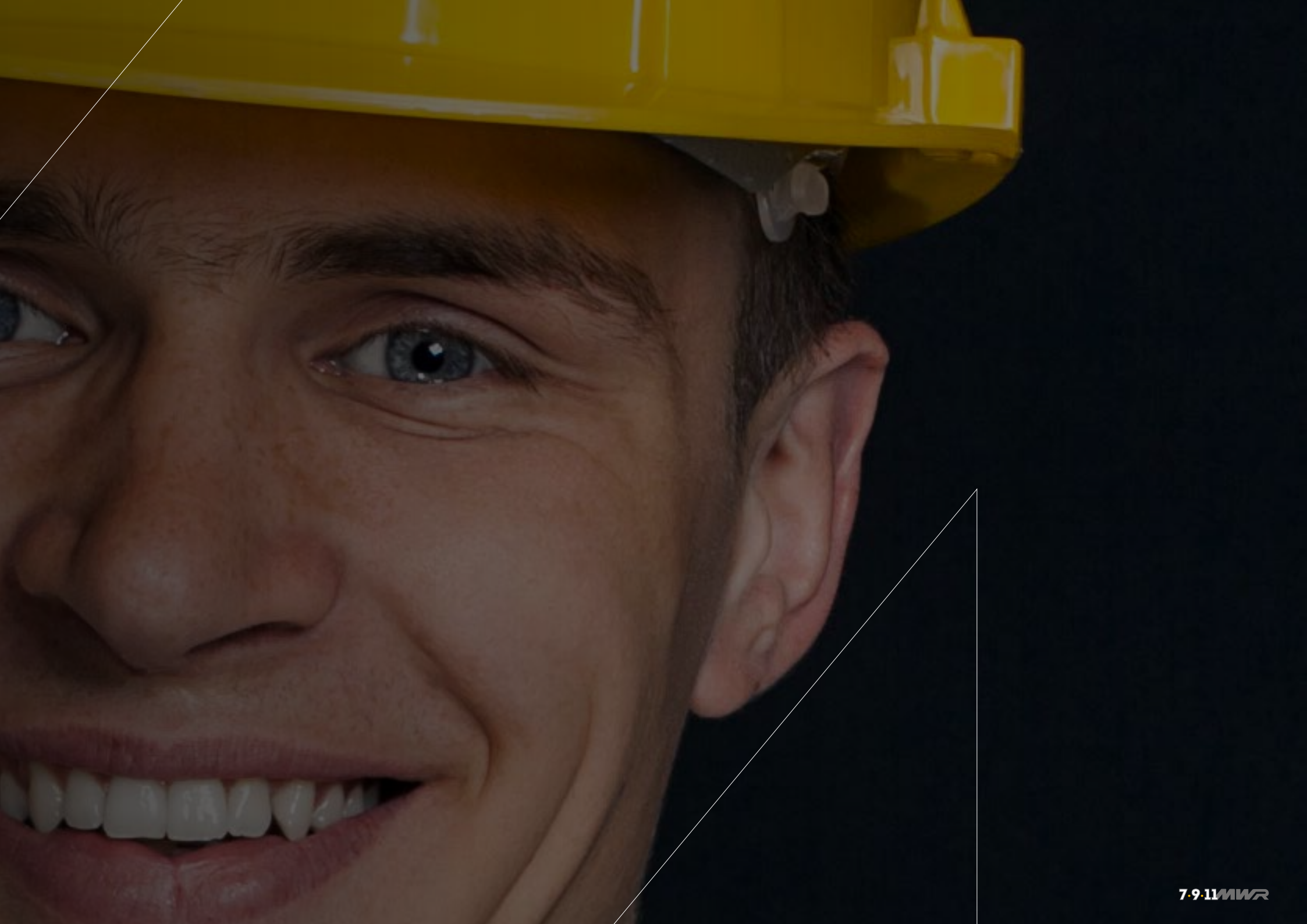
| | WHEELED EXCAVATORS | CRAWLER EXCAVATORS | MWR |
|---|---|---|---|
| Mobility | • | | • |
| Versatility | • | | • |
| Autonomy | • | | • |
| Driving user-friendliness | | • | • |
| Ability for all types of terrain | | • | • |
| Security | | • | • |
| Accessibility | | • | • |
| Stability | | • | • |

MWR 7·9·11

# USER FRIENDLY

**Optimize security for the operator as for the workers' team of both urban and suburban construction sites:**

- maintenance feet on the ground
- oscillation locking by the brake pedal and the joystick
- reduced access height
- excellent compactness
- optional integrated and automated cameras
- excellent visibility




## 1 BUTTON
### 3 MODES

WATCH THE VIDEO

USER-FRIENDLY

# DRIVING USER-FRIENDLINESS

## PARKING, WORK OR ROAD MODE, IN ONE SINGLE SWITCH.

*Thanks to the unique central selector, the driver can switch into road or parking mode in a single movement, thus sparing 7 to 10 manipulations. With this unique global exclusivity, everything can be done instantly by selecting the desired configuration.*

With this unique, worldwide exclusive, everything can be done instantly by selecting the desired configuration. This guarantees faultless and ultra-safe driving on construction sites, leaving the driver free to calmly focus on the tasks at hand and take full control of the machine.

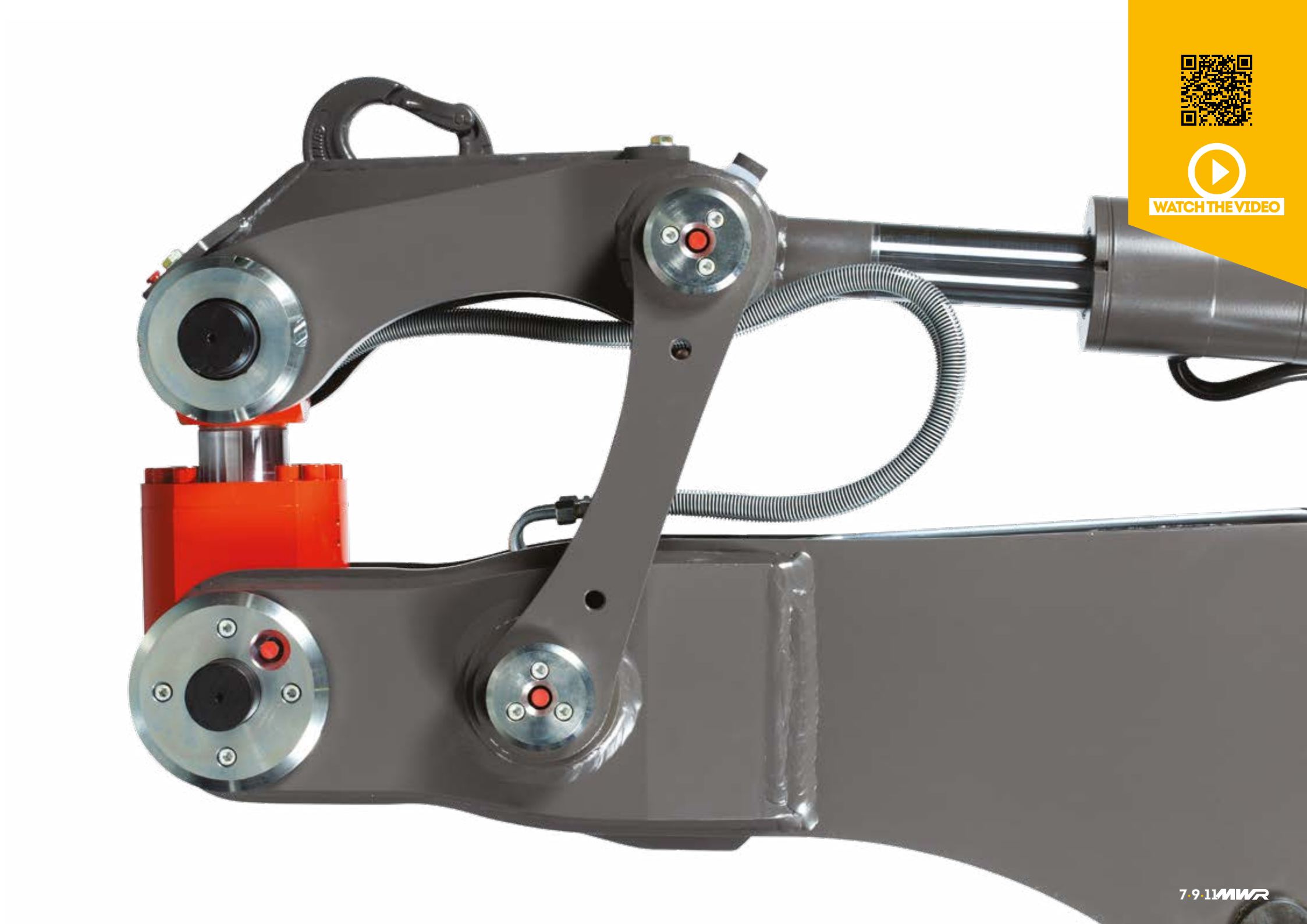
USER-FRIENDLY

# CONNECT 'ATTACHED' TO VERSATILITY

**IN ORDER TO MAKE ITS MACHINES EVER SAFER AND MORE VERSATILE, MECALAC INTRODUCES CONNECT, ITS PATENTED QUICK COUPLER, NOTABLE FOR ITS LIGHTNESS, INTEGRATION, USER-FRIENDLINESS, REVERSABILITY AND ITS PERFECT SAFETY.**

Controlled from the cab, there is zero risk of it detaching from the tool either while it is being connected or while in operation. It is equipped with a detection system that alerts the driver if the tool is improperly secured (with visual and audible signals). Not only that, but it is also reversible and has an automatic play compensation function, making the CONNECT quick coupler the ultimate connection between tool and machine!

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2200

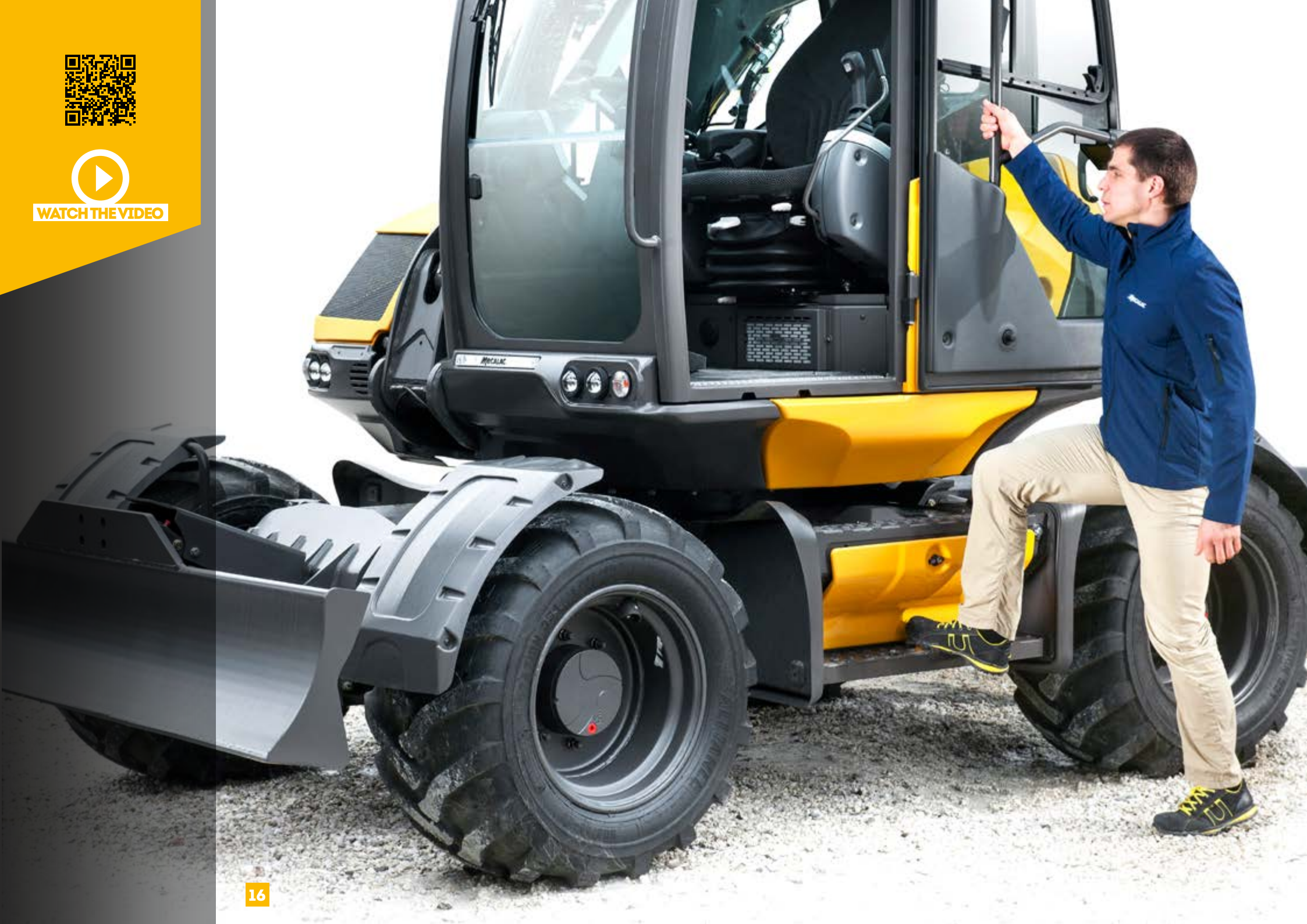
USER-FRIENDLY

# THE QUEST FOR SIMPLICITY: DRIVING OUR RESEARCH

**THE MWR REPRESENTS A NEW WAY TO INTERACT WITH CONSTRUCTION VEHICLES, THANKS TO ITS COMPLETELY REDESIGNED INTERNAL AND EXTERNAL ERGONOMICS AND UNIQUE INTERFACE BETWEEN HUMAN-MACHINE THAT COMBINES ACCESSIBILITY AND SAFETY.**

Each and every driver action is simplified, affording greater protection of everybody on the worksite. When it comes to innovation, 'less is more' is definitely one of the keys to Mecalac's success.

WATCH THE VIDEO



USER-FRIENDLY

# CLIMB UP AND DOWN EASILY

**THANKS TO THE LOWERED CENTRE OF GRAVITY OF THE MACHINE, THE CABIN IS PERFECTLY ACCESSIBLE TO THE DRIVER, WITHOUT MAKING TOO MUCH EFFORT OR TAKING ANY RISKS.**

The cab is 20% lower compared to rival products on the market so now entering and exiting the vehicle requires much less effort, and is further eased by the addition of a step that has been perfectly incorporated into the machine's design. One small step for man; one giant leap for worksite safety.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USER-FRIENDLY

# FILL UP YOUR TANK EFFORTLESSLY

**THE TANK IS EXTREMELY ACCESSIBLE AS IT IS LOCATED ON THE UNDERCARRIAGE AT A REACHABLE HEIGHT.**

Besides helping lower the centre of gravity, the lower-down position of the tank and its increased capacity also mean that the driver or fleet manager no longer has to carry out any operations at height, nor is there anything in the way when driving the vehicle. With the majority of other excavators still mounting the fuel tank in the upper carriage, filling up an MWR is as simple as it is safe. Because daily upkeep should always be risk-free.

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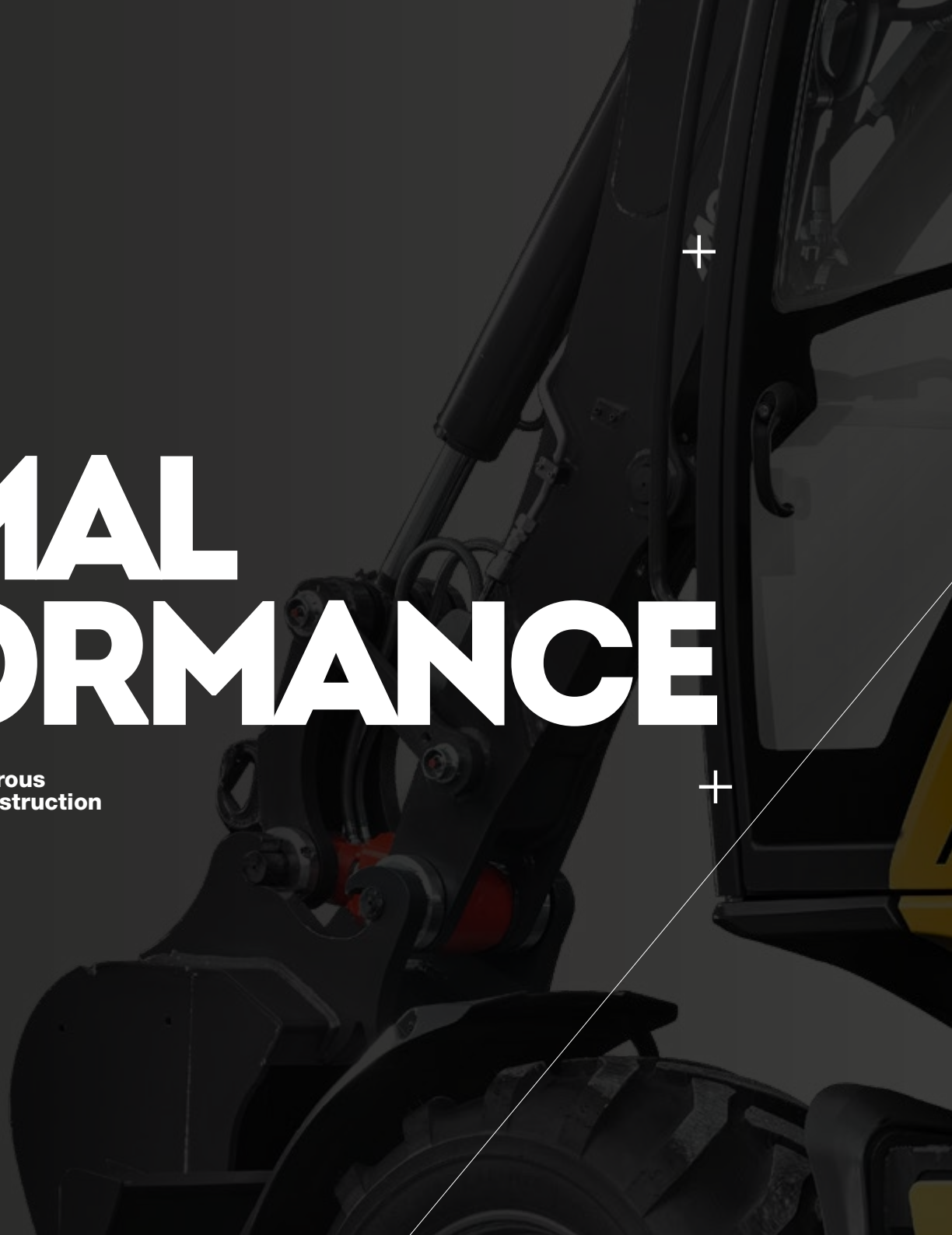
# OPTIMAL PERFORMANCE

**MWR machines are equipped with numerous technical characteristics for optimal construction site management on all types of terrain.**

- naturally balanced
- all terrain capacity
- manœuverability
- agility
- compactness
- lifting power

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PERFORMANCE

# NATURALLY BALANCED

## THE NEW MWRS BENEFIT FROM 360° ISO STABILITY: THIS MEANS THE MACHINE'S STABILITY REMAINS THE SAME REGARDLESS OF THE ROTATION ANGLE OF THE UPPER CARRIAGE.

Lift, place, move, unload... all without moving. The new MWRs transform worksite logistics thanks to their incredible stability in any position and on any terrain. Whatever the conditions, they stay balanced both when travelling in transfer operations between sites as well as during work phases. This gives them 360° lifting performance - an extraordinary feat.


PERFORMANCE

# GROUND CLEARANCE

## THE LOWERED CENTER OF GRAVITY HAS ABSOLUTELY NO INCIDENCE ON THE GROUND CLEARANCE HEIGHT, WHICH IS AN EXCLUSIVE 'MADE IN MECALAC' PARADOX.

In order to guarantee the machine's mobility in spite of ground's unevenness, the machine keeps enough height to avoid rubbing and risks of tearing out the undercarriage.

# MANŒUVERABILITY & COMPACTNESS

The new MWRs can be equipped with 4 steering wheels thus allowing you to do a U-turn practically on the spot and effectively overcome all obstacles. The aim: ensuring a maximum mobility in narrow spaces.

## 2.5 TIMES MORE COMPACT THAN A CLASSIC EXCAVATOR

## AGILITY
*Efficiency of movement*

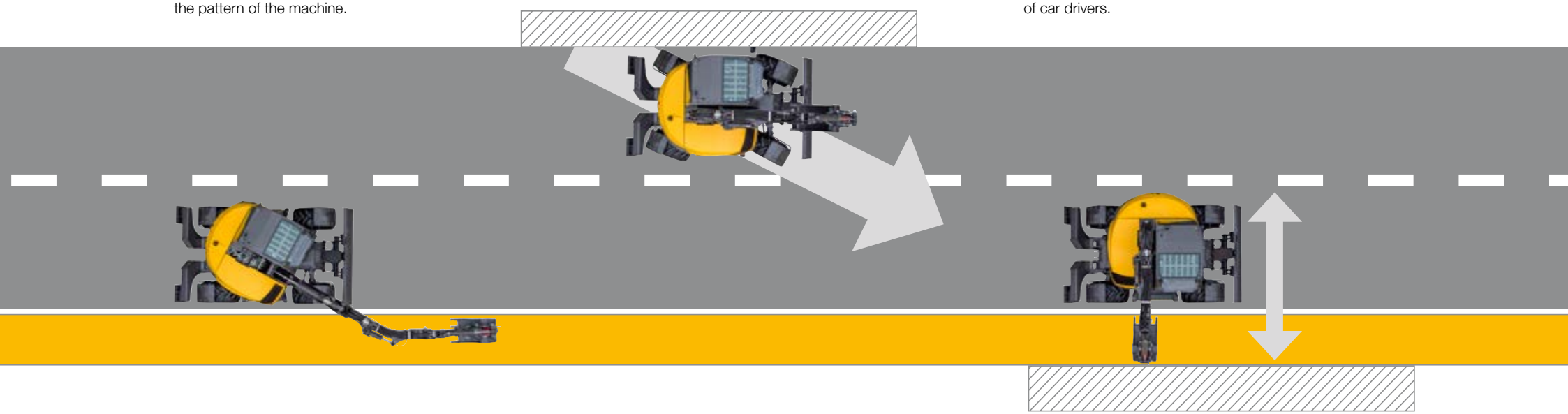
When the leeway is limited, the MWRs are a powerful ally. Their perfectly integrated and light offset and their 3-part arm allow them to work outside the pattern of the machine.

## MOBILITY
*Best manoeuvrability*

The 3 direction modes enable the MWR to get out of any situation.

## COMPACTNESS AT WORK
*in the service of security*

With their XS dimensions, their 360° rotation and their exceptional angular displacement of the boom, the MWRs only require one way in an urban area to carry out their missions, thus preserving the security of pedestrians and of car drivers.



## MAXIMUM COMPACTNESS
*for minimum bulk*

This useful compactness frees 100% performances and 100% functions, therefore reducing the impact of urban construction sites on the environment.

PERFORMANCE

# LIFTING POWER & AMPLITUDE

WATCH THE VIDEO

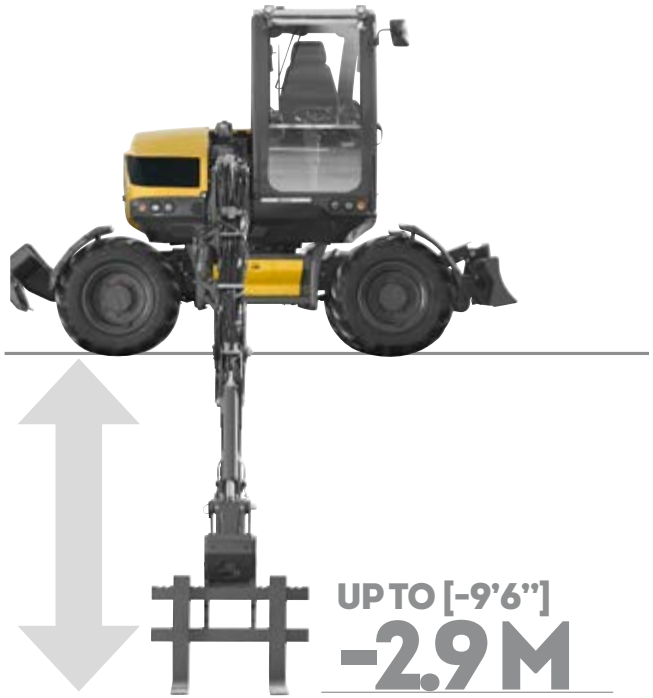
## AN UNRIVALLED COMPACTNESS/LIFTING CAPACITY RATIO:

The unique architecture of the new MWRs makes these powerful and precise handling machines capable of lifting up to 3 tons to 3 m and 360°!

360°

## AMPLITUDE

Equipped with a loader bucket or with pallet forks, the new MWRs allow for an unusual range of amplitude whether this is positive for loading a truck or negative for offloading pallets.



PERFORMANCE

# FROM VERSATILITY TO AUTONOMY

## EXPERTISE IS BORN OF EXPERIENCE. OURS IS BASED ON THE STRONG CONCEPT THAT PROFITABILITY CANNOT BE CONSIDERED WITHOUT SIMPLICITY OF USE, COUPLED WITH VERSATILITY IN FUNCTIONS.

No matter the job, the country or the corporate culture, we offer the best visibility, manoeuvrability and freedom on each constuction site for optimal autonomy.

## LARGE DIGGING AMPLITUDE

## UNIQUE OVERFLOW HEIGHT

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## STATIC LOAD

MWR 7·9·11

# SET UP YOUR MWR

**The new MWR comes standard equipped with a number of features, while at the same time remaining attentive to the specifications required by various 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 the various attachments, buckets and hydraulic tools which can be used, there are many different ways to tailor your new MWR to your brand and business.**

## CUSTOM COLORS

You wish to get your MWR with your brand colors ?
Customize your Mecalac with your own RAL color codes.

Color examples

## TIRES CHOICES

### 7MWR-9MWR

Simple Alliance 365/70 R18 EM (standard)
Large Alliance 500/45 R20
Twin BKT 8.25-20 (with spacer)

### 11MWR

Simple Alliance 18-19.5 (standard)
Large Alliance 600/40 R22.5
Twin BKT 9.00-20 (with spacer)

**Standard and optional equipment may vary.**
**Consult your Mecalac dealer for details.**

## CAB - COMFORT AND SAFETY

- Air conditionning (increases cab height)
- Rotating beacon
- LED rotating beacon
- Travel alarm
- White noise type adaptative travel alarm
- Overload buzzer (additional to screen indicator)
- Additional front working light
- Rear working light
- Stereo USB Bluetooth radio
- Heated pneumatic seat
- Rear cam (in addition to the side cam)
- Pattern changer ISO / SAE
- Rain protector
- Cabin sun visor (standard)
- 12V Plug
- Preparation for installation of a fleet management system

## FRAME

- 4 steering wheels 30 km/h (7MWR and 11MWR)
- 2 steering wheels 35km/h (9MWR)
- 2 steering wheels 30km/h (11MWR)
- 4 steering wheels 20km/h (9MWR and 11MWR)
- 4 steering wheels 35km/h (9MWR)
- Steering direction inversion (4 steering wheels only)
- Mudguards (4 steering wheels only)
- Front blade and stabilisers
- Blade rear (standard)
- Rubber protective pads under stabilisers
- Clamshell grab support
- Additional counterweight
- Blade preparation for trailer hook

## ENGINE

- Diesel Particulate Filter (DPF) (standard in Europe)
- Automatic engine idle shutdown
- Electric diesel refueling pump with automatic stop
- Anti-theft device - electronic immobilizer with 6 keys

## AUXILIARY LINES

- Additional proportional auxiliary line (diverted offset cylinder for rotating function of a clamshell)
- Additional auxiliary line (diverted bucket cylinder for opening / closing function of a clamshell)
- Hammer return line

## ANTIDROP SAFETY VALVES

- Safety valves on boom, adjustable boom, dipperstick (standard)
- Safety valves on boom, adjustable boom, dipperstick, bucket

## QUICK COUPLER

- Mecalac CONNECT hydraulic quick coupler - with hook
- Device for the Direct Coupling of tools on dipperstick (“pin-on”) with pins, in-cab switch and hydraulic lines for quick couplers

## LUBRICATION

- Standard manual greasing: single point for turret and first boom (standard)
- Centralized, manual lubrication turret, boom and stick (except axles between connecting rod and quick coupling system)
- Centralized, automatic lubrication for turret, boom and stick (except axles between connecting rod and quick coupling system)

## OIL CHOICES

- Hydraulic oil (VG 46) (standard)
- Hydraulic oil Syn Panolin (HLP 46)
- Hydraulic organic oil Panolin (HLP 46)
- Hydraulic oil for cold weather (ISO 32)
- Hydraulic oil for hot weather (ISO 68)
- Hydraulic oil for very hot weather (ISO 100)

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# ACCESSORIES
## MECALAC EXCLUSIVE

# 7·9·11MWR

## DIGGING BUCKETS

| 7MWR | WIDTH mm (ft in) | number of teeth | VOLUME l (yd³) | WEIGHT kg (lb) |
|---|---|---|---|---|
| DIGGING BUCKET with teeth or no teeth | **350** (1'2") | 3 | **100** (0.13) | **121** (267) |
| | **450** (1'6") | 3 | **130** (0.17) | **131** (289) |
| | **600** (2') | 4 | **185** (0.24) | **150** (330) |
| | **750** (2'5.5") | 5 | **240** (0.31) | **169** (372) |
| | **900** (2'11") | 5 | **300** (0.39) | **185** (407) |
| **9MWR** | **WIDTH mm (ft in)** | **number of teeth** | **VOLUME l (yd³)** | **WEIGHT kg (lb)** |
| DIGGING BUCKET with teeth or no teeth | **350** (1'2") | 3 | **115** (0.15) | **130** (286) |
| | **450** (1'6") | 3 | **150** (0.20) | **140** (308) |
| | **600** (2') | 4 | **220** (0.29) | **160** (352) |
| | **750** (2'5.5") | 5 | **285** (0.37) | **180** (396) |
| | **900** (2'11") | 5 | **355** (0.46) | **197** (434) |
| **11MWR** | **WIDTH mm (ft in)** | **number of teeth** | **VOLUME l (yd³)** | **WEIGHT kg (lb)** |
| DIGGING BUCKET with teeth or no teeth | **350** (1'2") | 3 | **150** (0.20) | **204** (449) |
| | **450** (1'6") | 3 | **190** (0.25) | **222** (489) |
| | **600** (2') | 3 | **275** (0.36) | **255** (562) |
| | **750** (2'5.5") | 4 | **360** (0.47) | **292** (643) |
| | **900** (2'11") | 4 | **450** (0.59) | **328** (723) |
| | **1200** (3'11") | 5 | **630** (0.82) | **393** (866) |

## NARROW BUCKET

| TYPE | WIDTH mm (ft in) | number of teeth | VOLUME l (yd³) | WEIGHT kg (lb) |
|---|---|---|---|---|
| NARROW BUCKET | **300** (1') | 3 | **80** (0.10) | **219** (482) |

## LOADER BUCKETS (SKID AND 4 X1)

| 7MWR | WIDTH mm (ft in) | number of teeth | VOLUME l (yd³) | WEIGHT kg (lb) |
|---|---|---|---|---|
| SKID BUCKET no teeth | **2200** (7'3") | - | **540** (0.71) | **378** (833) |

| 9MWR | WIDTH mm (ft in) | number of teeth | VOLUME l (yd³) | WEIGHT kg (lb) |
|---|---|---|---|---|
| SKID BUCKET no teeth | **2310** (7'7") | - | **570** (0.75) | **389** (857) |

| 11MWR | WIDTH mm (ft in) | number of teeth | VOLUME l (yd³) | WEIGHT kg (lb) |
|---|---|---|---|---|
| SKID BUCKET no teeth | **2500** (8'2") | - | **820** (1.1) | **475** (1,047) |
| SKID BUCKET 4x1 with or without teeth | **2200** (7'3") | 7 | **540** (0.71) | **617** (1,360) |
| 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 mm (1'2") | **2200** (7'3") | - | - | **62** (136.6) |
| TEETH PROTECTION FOR 4x1 BUCKET | | | | **11** (24) |

## PALLET FORK

| TYPE | Specifications | WEIGHT kg (lb) |
|---|---|---|
| PALLET FORK | to be used with 4 safety valves | **330** (728) |
| KIT BLADE-MOUNTED PALLET FORKS | | **52** (114.6) |

## DITCH CLEANING BUCKET AND COUNTER-BLADE

| 7MWR - 9MWR | Specifications | WIDTH mm (ft in) | VOLUME l (yd³) | WEIGHT kg (lb) |
|---|---|---|---|---|
| DITCH CLEANING BUCKET | - | **1500** (4'11" ) | **262** (0.34) | **260** (573) |
| BOLTED COUNTER BLADE | borehole center-to-center distance 160 mm (0'52") | **1500** (4'11" ) | - | **30.5** (67) |
| **11MWR** | **Specifications** | **WIDTH mm (ft in)** | **VOLUME l (yd³)** | **WEIGHT kg (lb)** |
| DITCH CLEANING BUCKET | - | **1800** (5'11") | **400** (0.52) | **350** (772) |
| BOLTED COUNTER BLADE | borehole center-to-center distance 152.4 mm (6 in) | **1800** (5'11") | - | **47** (104) |

## DIGGING BUCKET WITH GRAPPLE

| 7MWR | WIDTH mm (ft in) | VOLUME l (yd³) | WEIGHT kg (lb) |
|---|---|---|---|
| GRAPPLE BUCKET, 2 hydraulic thumbs | **750** (2'5.5") | **240** (0.31) | **284** (626) |
| CONNECTION KIT, HOSES | | | **5** (11) |
| **9MWR** | **WIDTH mm (ft in)** | **VOLUME l (yd³)** | **WEIGHT kg (lb)** |
| GRAPPLE BUCKET, 2 hydraulic thumbs | **750** (2'5.5") | **285** (0.37) | **304** (670) |
| CONNECTION KIT, HOSES | | | **5** (11) |
| **11MWR** | **WIDTH mm (ft in)** | **VOLUME l (yd³)** | **WEIGHT kg (lb)** |
| GRAPPLE BUCKET, 2 hydraulic thumbs | **900** (2'11") | **450** (0.59) | **492** (1085) |
| Connection kit, hoses | | | **5** (11) |

## SKID STEER ADAPTER

| | WEIGHT kg (lb) |
|---|---|
| TYPE: ISO 24410 mounting hitch for Universal Skid steer attachments | **127** (280) |

## 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

| 7MWR - 9MWR | Specifications | WEIGHT kg (lb) |
|---|---|---|
| HANDLING JIB | length **2000 mm** (6'7"), lifting capacity **500 Kg** (1,100 lb) to be used with 4 safety valves | **80.5** (177) |
| **11MWR** | **Specifications** | **WEIGHT kg (lb)** |
| HANDLING JIB | length **4100 mm** (13'5"), lifting capacity **500 Kg** (1,100 lb) to be used with 4 safety valves | **113** (249) |

## CLAMSHELL BUCKET SUPPORT

| TYPE | Specifications | WEIGHT kg (lb) |
|---|---|---|
| SUPPORT PIECE FOR CLAMSHELL BUCKET - 7MWR, 9MWR, 11MWR | - | **67** (147) |

## RIPPER TOOTH

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

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# TECHNICAL DATA

| WEIGHT | 7MWR | 9MWR | 11MWR |
|---|---|---|---|
| In running order, without bucket, with 75 kg (165 lb) operator, fuel tank full without optional equipment, standard tires | | | |
| - Rear blade | **6925 kg** (15,300 lb) | **7900 kg** (17,400 lb) | **10000 kg** (22,050 lb) |
| - Front stabilisers + blade | not available | **+300 kg** (+661 lb) | **+450 kg** (+992 lb) |
| - Large tires | **+60 kg** (+132 lb) | **+60 kg** (+132 lb) | **+160 kg** (+352 lb) |
| - Twin tires | **+350 kg** (+771 lb) | **+350 kg** (+771 lb) | **+380 kg** (+837 lb) |

| ENGINE | 7MWR | 9MWR | 11MWR |
|---|---|---|---|
| Turbo charged engine with intercooler, EGR valve and catalytic converter (DOC), complying with emissions standards | | EU Stage V<br>U.S. EPA Tier 4 Final* | |
| Diesel 4 in-line cylinders | DEUTZ TCD 2.9 L4 | DEUTZ TCD 2.9 L4 | DEUTZ TCD 3.6 L4 |
| Horsepower (DIN 70020)<br>Engine speed | 55.4 kW (75hp - 74.3 imperial hp)<br>2300 rpm | 55.4 kW (75hp - 74.3 imperial hp)<br>2300 rpm | 55.4 kW (75hp - 74.3 imperial hp)<br>2200 rpm |
| Maximum torque | **300 Nm at 1600 rpm**<br>(221 ft.lbf at 1600 rpm) | **300 Nm at 1600 rpm**<br>(221 ft.lbf at 1600 rpm) | **390 Nm at 1300 rpm**<br>(288 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 | • | • | • |
| Fuel consumption (depending on operating conditions) | **8 to 9 l/h** (2.1 - 2.3 gph) | **8 to 9 l/h** (2.1 - 2.3 gph) | **7 to 11 l/h** (1.8 - 2.9 gph) |
| Fuel tank capacity | **108 l** (28.5 gal) | **140 l** (37 gal) | **165 l** (43.6 gal) |

| ELECTRICAL SYSTEM | |
|---|---|
| Voltage | 12 V |
| Batteries | 100 Ah / 720 A |
| Alternator | 14 V (120 A) |
| Starter | 12 V 2.6 kW |

| UNDERCARRIAGE | 7MWR | 9MWR | 11MWR |
|---|---|---|---|
| Rigid | • | • | • |
| Outside turning radius<br>- 4 steered wheels (optional)<br>- 2 steered wheels | <br>**3.52 m** (11 ft 7 in)<br>**6.08 m** (19 ft 11 in) | <br>**3.56 m** (11 ft 8 in)<br>**6.10 m** (20 ft) | <br>**3.86 m** (12 ft 8 in)<br>**6.41 m** (21 ft) |
| Stabilisers controlled independently or in pairs | not available | • | • |

| TRANSMISSION | 7MWR | 9MWR | 11MWR |
|---|---|---|---|
| Closed hydrostatic center with Senso Drive automotive type automatic regulation | • | • | • |
| Electronically controlled traveling direction reverser located under joystick | • | • | • |
| Hydraulic variable displacement pump and motor allow for a continuously variable transmission rate over the whole speed range of the machine | • | • | • |
| Continuously variable speed | **0-30 km/h**<br>(i.e. 0-19 mph) | **0-20 km/h (0-35 km/h in option)**<br>(0-12 mph (0-22 mph in option) | **0-20 km/h (0-30 km/h in option)**<br>(0-12 mph (0-19 mph in option) |
| Max. traction force | **3760 daN** (8,450 lbf) | **4820 daN** (10,835 lbf) | **4820 daN** (10,835 lbf) |
| Gradeability | 60% | 65% | 68% |
| Gearbox with automatic shifting | not available | option | option |

* Environmental Protection Agency (EPA) - Depending on your Local Legislation

7·9·11MWR

# TECHNICAL DATA

| AXLES AND WHEELS | |
|---|---|
| 4-wheel drive | • |
| Rigid drive axle on the rear | steering as an option |
| Oscillating drive axle on the front to +/- 7° ; oscillation block involves 2 hydraulic cylinders | steering |

| BRAKES | |
|---|---|
| Double circuit central braking system | • |
| Oil-immersed multi-disk brakes on each axle | • |

| HYDRAULIC SYSTEM | 7MWR | 9MWR | 11MWR |
|---|---|---|---|
| Hydraulic oil tank | **56 l** (14.8 gal) | **61 l** (16 gal) | **77 l** (20.3 gal) |
| Hydraulic circuit capacity | **115 l** (30.4 gal) | **115 l** (30.4 gal) | **115 l** (30.4 gal) |
| **ATTACHMENT AND ROTATION CIRCUIT** | | | |
| Variable displacement pump | **45 cm³** (2.7 in³) | **63 cm³** (3.8 in³) | **75 cm³** (4.6 in³) |
| 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 | • | • | • |
| - Maximum flow rate | **100 l/min** (26.4 gpm) | **145 l/min** (38.3 gpm) | **165 l/min** (43.6 gpm) |
| - Maximum working pressure | **280 bar** (4,060 psi) | **280 bar** (4,060 psi) | **300 bar** (4,350 psi) |
| **TRANSMISSION CIRCUIT** | | | |
| Pump | **125 l/min** (33 gpm) | **125 l/min** (33 gpm) | **125 l/min** (33 gpm) |
| Max. pressure | **440 bar** (6,382 psi) | **440 bar** (6,382 psi) | **440 bar** (6,382 psi) |

| TURRET | 7MWR | 9MWR | 11MWR |
|---|---|---|---|
| Full rotation 360° | • | • | • |
| Slewing by slow hydraulic motor with automatic braking assured by discs equipped with anti-bounce pressure relief valve | • | • | • |
| Driven by internal crown slewing wheel | • | • | • |
| Rotation speed | 10 rpm | 10 rpm | 10 rpm |
| Rotation torque | **1330 daNm** (9,800 ft.lbf) | **1690 daNm** (12,400 ft.lbf) | **2500 daNm** (18,440 ft.lbf) |

| CAB | 7MWR | 9MWR | 11MWR |
|---|---|---|---|
| Extremely comfortable panoramic cab | | ROPS and FOPS | |
| 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 10263 | • | • | • |
| 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 | • | • | • |
| Proportional hydraulic control of the attachment integrated on right-hand joystick | • | • | • |
| Front working light | • | • | • |

| BOOM AND STICK | 7MWR | 9MWR | 11MWR |
|---|---|---|---|
| Mecalac variable range kinematics consisting of 4 parts: boom, adjustable boom, offset boom and dipperstick | • | • | • |
| 33° right and left offset by hydraulic cylinder. System enabling all penetration force to be conserved regardless of the angular position of the offset boom | • | • | • |
| Left offset | **1382 mm** (54 in) | **1551 mm** (61 in) | **1775 mm** (70 in) |
| Right offset | **1820 mm** (72 in) | **1899 mm** (75 in) | **2034 mm** (80 in) |
| Boom cylinder with endof travel shock absorber | • | • | • |
| CONNECT quick coupler<br>- Take up with automatic mechanical locking<br>- Detection of incorrect locking<br>- Hydraulically-controlled unlocking | • | • | • |

## OPERATING MODES

### WORKING MODE

- 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

### DRIVING MODE

- Deactivation of the manual engine speed control. The engine speed varies depending on how far the travel pedal is depressed
- Turning on road headlights
- Turning on rotating beacon
- Locking of machine hydraulic functions (attachment, slewing, outriggers)
- Deactivation of oscillation lock (only if oscillation lock selector is on AUTO) and is not activated via the right joystick
- Deactivation of the travel alarm
- Deactivation of the overload alarm
- Display of speed in km/h
- Deactivation of idle function via keypad and joystick
- Speed controller
- Screen display in road mode

### PARKING MODE

- Engage parking brake
- Turn the transmission into Neutral
- Deactivation of the accelerator pedal
- Set engine rpm into idle
- Lock hydraulic and electrical controls
- Screen display in economy mode
- Lock oscillating axle
- Turn on road headlights

**NOTE**

METRIC MEASUREMENTS ARE THE CRITICAL VALUES
- 1 Litre = 0.26417 US Liquid Gallons
- 1 Litre = 0.21997 Imperial Liquid Gallons

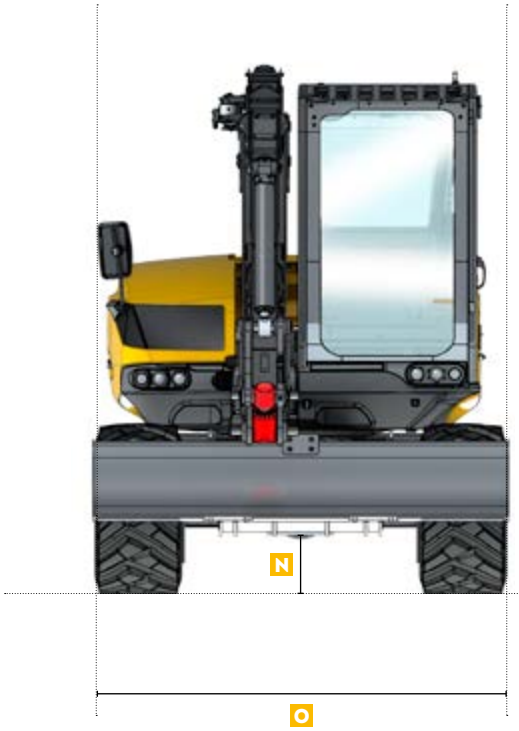
7·9·11MWR

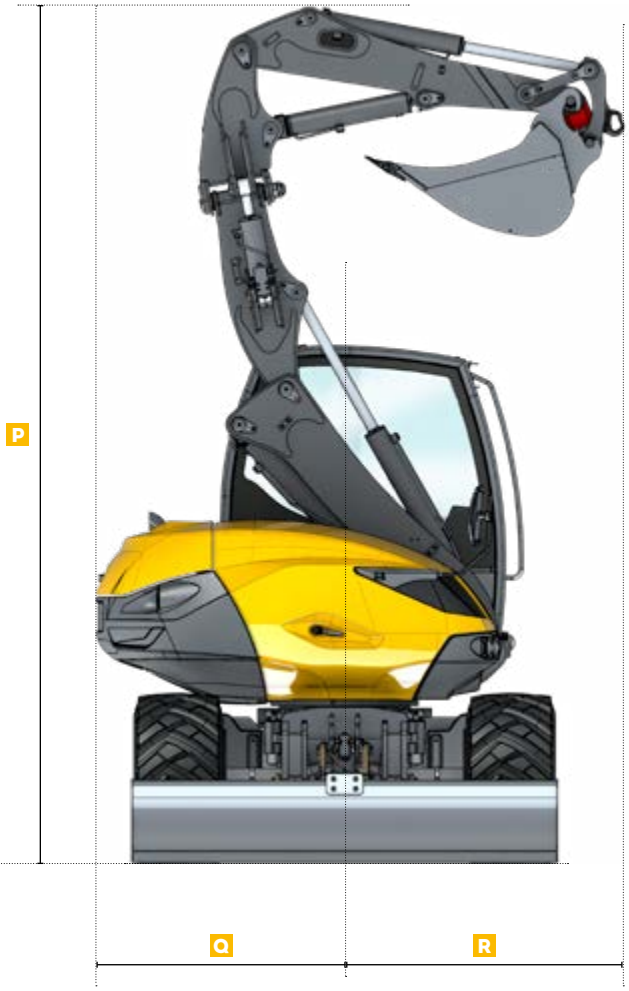
# TECHNICAL DATA


| MACHINE DIMENSIONS | 7MWR | 9MWR | 11MWR |
|---|---|---|---|
| A Overall length with attachment (without stabilisers for the 7MWR) | **3730 mm** (12'3") | **4418 mm** (14'6") | **4836 mm** (15'1") |
| B Overall height of structures | **2816 mm** (9'3") | **2945 mm** (9'8") | **3256 mm** (10'8") |
| C Cab height (without attachment) | **2816 mm** (9'3") | **2829 mm** (9'3") | **2944 mm** (9'8") |
| D Cab height (without attachment, with AC option) | **2944 mm** (9'8") | **2957 mm** (9'8") | **3072 mm** (10'1") |
| E Cover height | **1865 mm** (6'1") | **1886 mm** 6'2") | **2030 mm** (6'8") |
| F Overhang of lower frame on stabilisers side (without stabilisers for the 7MWR) | **1550 mm** (5'1") | **2159 mm** (7'1") | **2275 mm** (7'6") |
| G Overhang of lower frame on blade side | **2030 mm** (6'8") | **2076 mm** (6'1") | **2230 mm** (7'4") |
| H Wheelbase | **2100 mm** (6'1") | **2200 mm** (7'3") | **2300 mm** (7'7") |
| I Blade crossing angle | 32° | 28° | 32° |
| J Height with blade raised | **429 mm** (1'5") | **429 mm** (1'5") | **545 mm** (1'9") |
| K Stabilisers crossing angle | - | 39° | 36° |
| L Height with stabilisers raised | - | **430 mm** (1'5") | **413 mm** (1'4") |
| M Ground clearance at axle | **430 mm** (1'5") | **430 mm** (1'5") | **460 mm** (1'6") |

7·9·11MWR

# TECHNICAL DATA

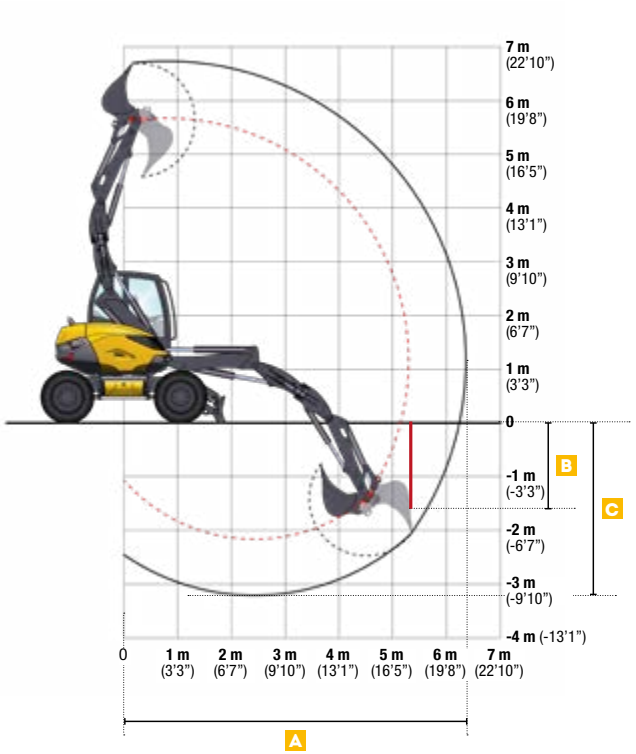


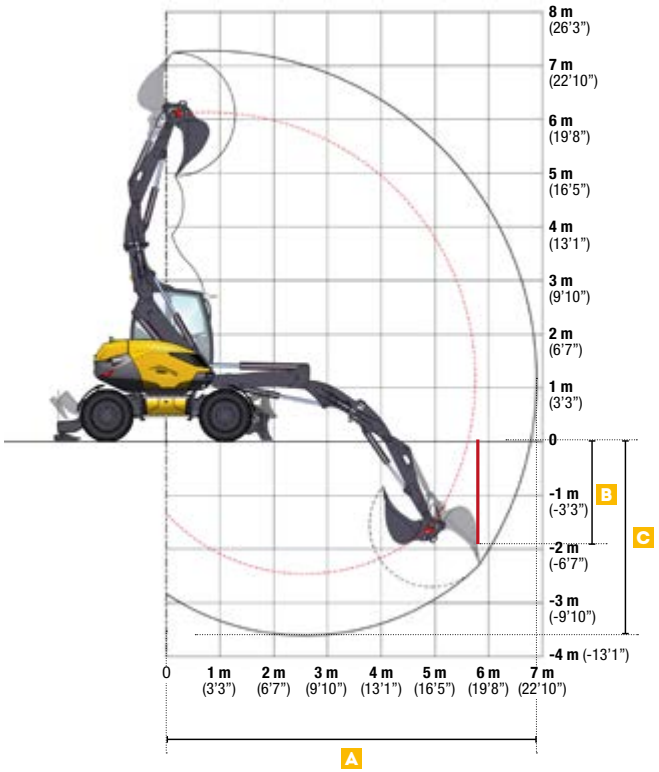

| MACHINE DIMENSIONS | 7MWR | 9MWR | 11MWR |
|---|---|---|---|
| N Ground clearance at gearbox | **310 mm** (1') | **310 mm** (1') | **350 mm** (1'2") |
| O Width of blade | **2180 mm** (7'2") | **2310 mm** (7'7") | **2500 mm** (8'2") |

| MACHINE DIMENSIONS | 7MWR | 9MWR | 11MWR |
|---|---|---|---|
| P Height in folded position | **4410 mm** (14'6") | **4630 mm** (15'2") | **5090 mm** (16'8") |
| Q Tail swing radius | **1296 mm** (4'3") | **1350 mm** (4'5") | **1445 mm** (4'9") |
| R Front radius | **1492 mm** (4'11") | **1516 mm** (4'12") | **1851 mm** (6'1") |

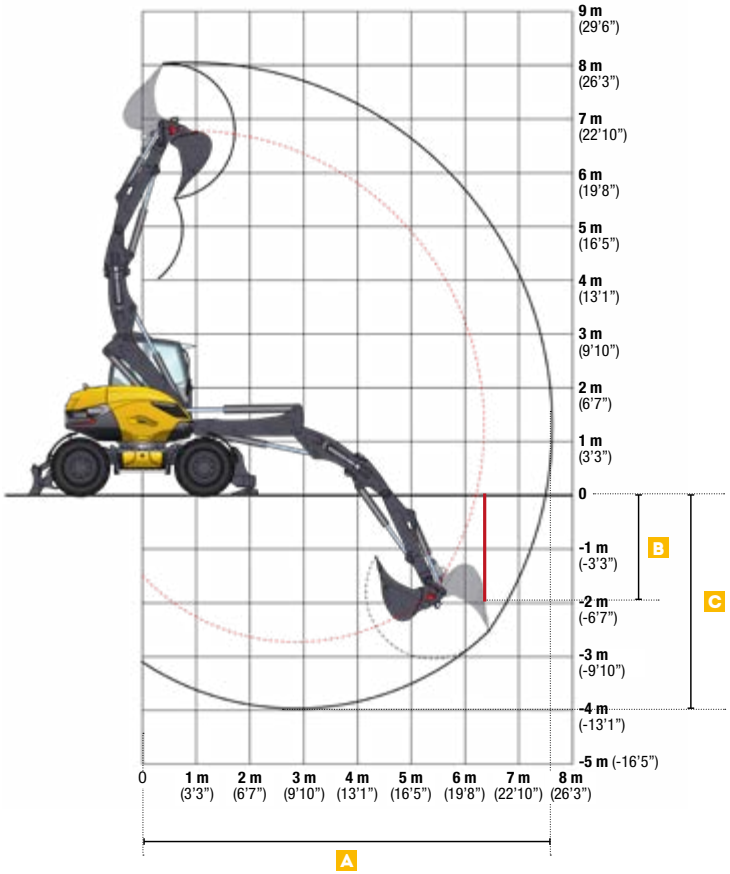
## 7MWR




## 9MWR




## 11MWR



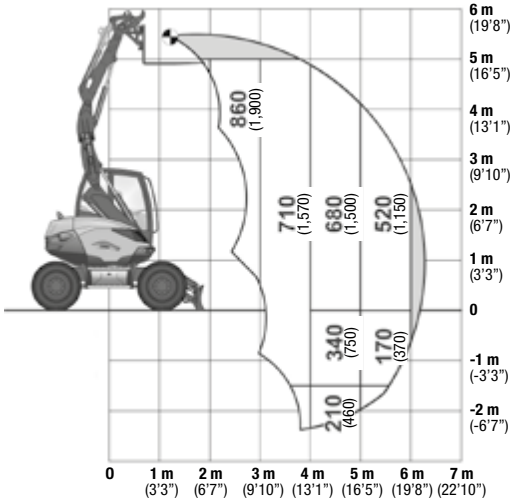

| MACHINE DIMENSIONS | 7MWR | 9MWR | 11MWR |
|---|---|---|---|
| A Maximum reach | **6220 mm** (20'5") | **6700 mm** (22') | **7500 mm** (24'7") |
| B Vertical digging depth maximum with standard bucket | **1657 mm** (5'5") | **1928 mm** (6'4") | **1949 mm** (6'5") |
| C Maximum digging depth | **3030 mm** (9'11") | **3500 mm** (11'6") | **3800 mm** (12'6") |

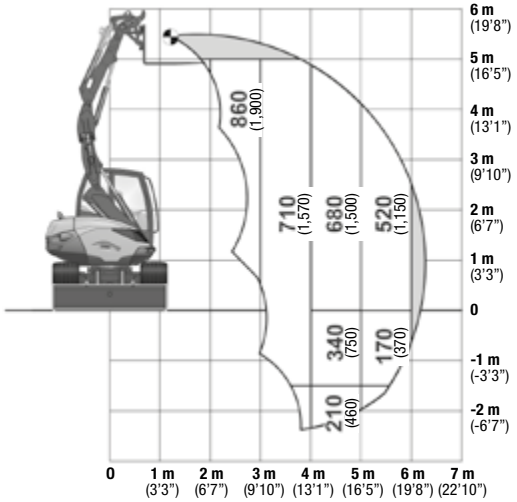
| DIGGING PERFORMANCE | 7MWR | 9MWR | 11MWR |
|---|---|---|---|
| Break-out force (max.) | **4300 daN** (9,666 lbf) | **5000 daN** (11,240 lbf) | **6000 daN** (13,500 lbf) |
| Penetration/Tear-out force (max.) | **2500 daN** (5,620 lbf) | **2800 daN** (6,300 lbf) | **3400 daN** (7,650 lbf) |

# 7MWR - HANDLING

## LIFTING CAPACITY WITH PALLET FORKS

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




**WORKING CONDITIONS**
- On wheels with blade on ground
- On horizontal, compact ground
- Equipment used without offset
- Oscillation axle blocked
- Equiped with pallet fork
- Machine equiped with 4 safety valves

**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 LOADING HOOK – BLADE ON GROUND

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

| | 2M (6'7") | | 3M (9'10") | | 4M (13'1") | | 5M (16'5") | |
|---|---|---|---|---|---|---|---|---|
| 5M (16'5") | 3000 (6,600) | 3000 (6,600) | 2560 (5,640) | 2560 (5,640) | - | - | - | - |
| 3M (9'10") | 3000 (6,600) | 3000 (6,600) | 3000 (6,600) | 3000 (6,600) | 2130 (4,700) | 2130 (4,700) | 1610 (3,550) | 1520 (3,350) |
| 1.5M (4'11") | 3000 (6,600) | 3000 (6,600) | 3000 (6,600) | 3000 (6,600) | 2270 (5,000) | 2200 (4850) | 1720 (3,800) | 1480 (3,260) |
| 0M | 3000 (6,600) | 3000 (6,600) | 3000 (6,600) | 3000 (6,600) | 3000 (6,600) | 2060 (4,540) | 1710 (3,770) | 1300 (2,870) |
| -1M (-3'3") | 3000 (6,600) | 3000 (6,600) | 3000 (6,600) | 3000 (6,600) | 2260 (4,980) | 1980 (4,370) | 1120 (2470) | 1120 (2470) |
| -2M (-6'7") | 3000 (6,600) | 3000 (6,600) | 2020 (4,450) | 2020 (4,450) | 1190 (2,620) | 1190 (2,620) | - | - |

Working in longitudinal position on blade side  Working in transverse position

## LIFTING CAPACITY WITH LOADING HOOK – BLADE RAISED

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

| | 2M (6'7") | | 3M (9'10") | | 4M (13'1") | | 5M (16'5") | |
|---|---|---|---|---|---|---|---|---|
| 5M (16'5") | 3000 (6,600) | 3000 (6,600) | 2560 (5,640) | 2560 (5,640) | - | - | - | - |
| 3M (9'10") | 3000 (6,600) | 3000 (6,600) | 3000 (6,600) | 3000 (6,600) | 2130 (4,700) | 1700 (3,750) | 1550 (3,420) | 1150 (2,540) |
| 1.5M (4'11") | 3000 (6,600) | 3000 (6,600) | 3000 (6,600) | 3000 (6,600) | 2250 (4,960) | 1460* (3,220*) | 1530 (3,370) | 980* (2,160) |
| 0M | 3000 (6,600) | 3000 (6,600) | 3000 (6,600) | 2560 (5,640) | 2160 (4,760) | 1450 (3,200) | 1460 (3,220) | 940* (2,070) |
| -1M (-3'3") | 3000 (6,600) | 3000 (6,600) | 3000 (6,600) | 2300 (5,070) | 2050 (4,520) | 1480 (3,260) | 1120 (2470) | 1050 (2,310) |
| -2M (-6'7") | 3000 (6,600) | 3000 (6,600) | 2020* (4,450*) | 2020 (4,450) | 1190 (2,620) | 1190 (2,620) | - | - |

Working in longitudinal position on blade side  Working in transverse position

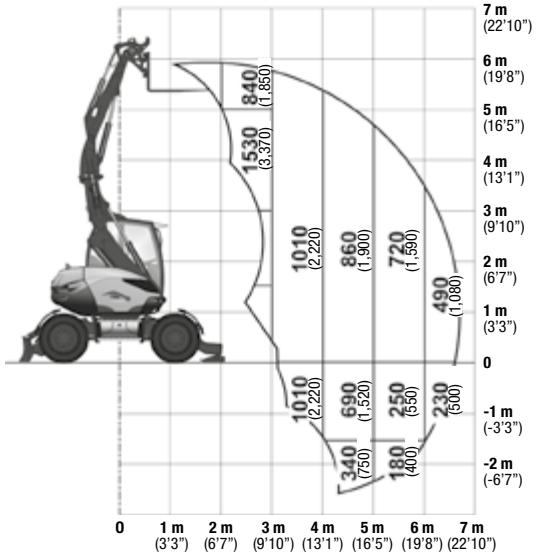
**WORKING CONDITIONS**
- On wheels with stabilisers on ground or raised
- On horizontal, compact ground
- Equipment used without offset
- Front and rear frame aligned
- Without tools (bucket, shovel…) with handling plate and loading hook of 3 T
- Maximal 75% of the tipping load or 87% of the hydraulic capacity
- **Maximum values determined for optimal position of boom and cylinders**

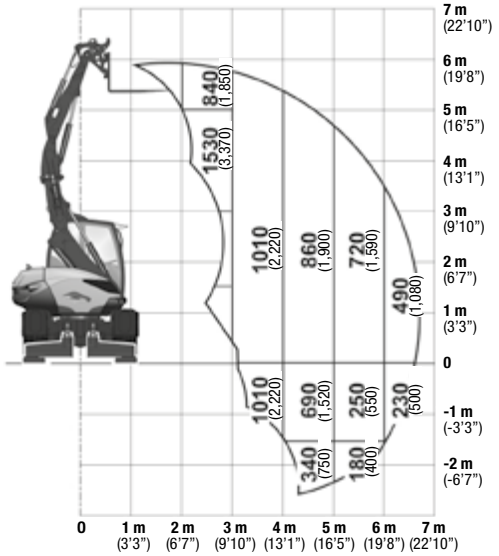
The lifting capabilities shown with an asterisk (*) are limited by the tipping load that can be lifted. Other values are limited by the hydraulic capabilities or capabilities of the loading hook. The weight of the chain sling, bucket and other auxiliary lifting devices must be deducted from the nominal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

# 9MWR - HANDLING

## LIFTING CAPACITY WITH PALLET FORKS

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




**WORKING CONDITIONS**
- On wheels with blade on ground
- On horizontal, compact ground
- Equipment used without offset
- Oscillation axle blocked
- Equiped with pallet fork
- Machine equiped with 4 safety valves

**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 LOADING HOOK – STABILISERS AND BLADE ON GROUND

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

| | 2M (6'7") | | 3M (9'10") | | 4M (13'1") | | 5M (16'5") | |
|---|---|---|---|---|---|---|---|---|
| 5M (16'5") | 3000 (6,600) | 3000 (6,600) | 3000 (6,600) | 3000 (6,600) | 2470 (5,450) | 2470 (5,450) | - | - |
| 3M (9'10") | 3000 (6,600) | 3000 (6,600) | 3000 (6,600) | 3000 (6,600) | 2560 (5,640) | 2560 (5,640) | 2030 (4,480) | 1810 (3,990) |
| 1.5M (4'11") | 3000 (6,600) | 3000 (6,600) | 3000 (6,600) | 3000 (6,600) | 3000 (6,600) | 3000 (6,600) | 2460 (5,420) | 1710 (3,770) |
| 0M | 3000 (6,600) | 3000 (6,600) | 3000 (6,600) | 3000 (6,600) | 3000 (6,600) | 2340 (5,160) | 2270 (5,000) | 1680 (3,700) |
| -1M (-3'3") | 3000 (6,600) | 3000 (6,600) | 3000 (6,600) | 3000 (6,600) | 3000 (6,600) | 2280 (5,030) | 1780 (3,920) | 1600 (3,530) |
| -2M (-6.7 ft) | 3000 (6,600) | 3000 (6,600) | 3000 (6,600) | 3000 (6,600) | 1910 (4,210) | 1910 (4,210) | 900 (1,980) | 900 (1,980) |

Working in longitudinal position on blade side  Working in transverse position

## LIFTING CAPACITY WITH LOADING HOOK – STABILISERS AND BLADE RAISED

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

| | 2M (6'7") | | 3M (9'10") | | 4M (13'1") | | 5M (16'5") | |
|---|---|---|---|---|---|---|---|---|
| 5M (16'5") | 3000 (6,600) | 3000 (6,600) | 3000 (6,600) | 3000 (6,600) | 2470 (5,450) | 1940 (4,280) | - | - |
| 3M (9'10") | 3000 (6,600) | 3000 (6,600) | 3000 (6,600) | 3000 (6,600) | 2560 (5,640) | 2120 (4,670) | 1900 (4,190) | 1250* (2,760*) |
| 1.5M (4'11") | 3000 (6,600) | 3000 (6,600) | 3000 (6,600) | 3000 (6,600) | 3000 (6,600) | 1830* (4,030*) | 1800 (3,970) | 1210* (2,670) |
| 0M | 3000 (6,600) | 3000 (6,600) | 3000 (6,600) | 3000 (6,600) | 3000 (6,600) | 1690* (3,730*) | 1730 (3,810) | 1130* (2,490*) |
| -1M (-3'3") | 3000 (6,600) | 3000 (6,600) | 3000 (6,600) | 3000 (6,600) | 2370 (5,490) | 1700 (3,750) | 1710 (3,770) | 1250 (2,760) |
| -2M (-6.7 ft) | 3000 (6,600) | 3000 (6,600) | 3000 (6,600) | 3000 (6,600) | 1910 (4,210) | 1700 (3,750) | 1400 (3,090) | 900 (1,980) |

Working in longitudinal position on blade side  Working in transverse position

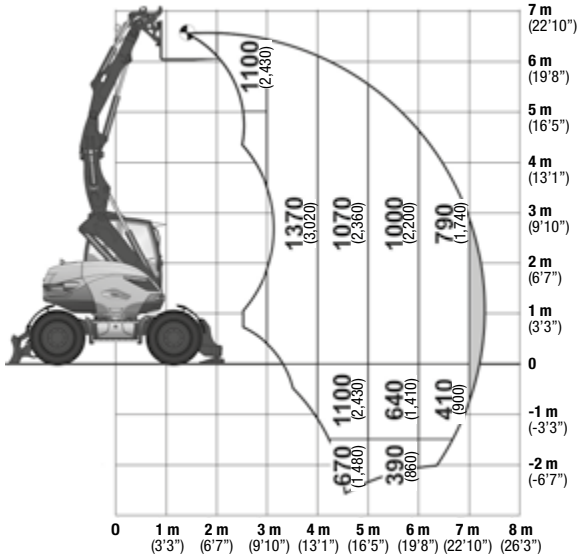
**WORKING CONDITIONS**
- On wheels with stabilisers on ground or raised
- On horizontal, compact ground
- Equipment used without offset
- Front and rear frame aligned
- Without tools (bucket, shovel…) with handling plate and loading hook of 3 T
- Maximal 75% of the tipping load or 87% of the hydraulic capacity
- **Maximum values determined for optimal position of boom and cylinders**

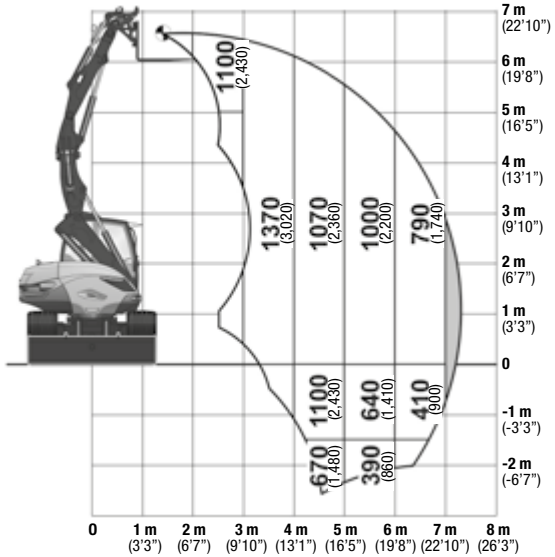
The lifting capabilities shown with an asterisk (*) are limited by the tipping load that can be lifted. Other values are limited by the hydraulic capabilities. The weight of the chain sling, bucket and other auxiliary lifting devices must be deducted from the nominal load to determine the load which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

# 11MWR - HANDLING

## LIFTING CAPACITY WITH PALLET FORKS

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




**WORKING CONDITIONS**
- On wheels with blade on ground
- On horizontal, compact ground
- Equipment used without offset
- Oscillation axle blocked
- Equiped with pallet fork
- Machine equiped with 4 safety valves

**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 LOADING HOOK – STABILISERS AND BLADE ON GROUND

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

| | 2M (6'7") | | 3M (9'10") | | 4M (13'1") | | 5M (16'5") | | 6M (19'8") | |
|---|---|---|---|---|---|---|---|---|---|---|
| 5M (16'5") | 4000 (8,820) | 4000 (8,820) | 4000 (8,820) | 4000 (8,820) | 3400 (7,500) | 3400 (7,500) | 2740 (6,040) | 2740 (6,040) | - | - |
| 3M (9'10") | - | - | 4000 (8,820) | 4000 (8,820) | 4000 (8,820) | 4000 (8,820) | 3080 (6,790) | 3080 (6,790) | 2360 (5,200) | 2280 (5,030) |
| 1.5M (4'11") | - | - | 4000 (8,820) | 4000 (8,820) | 4000 (8,820) | 4000 (8,820) | 4000 (8,820) | 2910 (6,420) | 2820 (6,220) | 2170 (4,780) |
| 0M | 4000 (8,820) | 4000 (8,820) | 4000 (8,820) | 4000 (8,820) | 4000 (8,820) | 4000 (8,820) | 4000 (8,820) | 2590 (5,710) | 3100 (6,830) | 1830* (4,030*) |
| -1M (-3'3") | 4000 (8,820) | 4000 (8,820) | 4000 (8,820) | 4000 (8,820) | 4000 (8,820) | 4000 (8,820) | 4000 (8,820) | 2450* (5,400*) | 2640 (5,820) | 1790* (3,950*) |
| -2M (-6.7 ft) | 4000 (8,820) | 4000 (8,820) | 4000 (8,820) | 4000 (8,820) | 4000 (8,820) | 4000 (8,820) | 3140 (6,920) | 2690 (5,930) | - | - |

Working in longitudinal position on blade side — Working in transverse position

## LIFTING CAPACITY WITH LOADING HOOK – STABILISERS AND BLADE RAISED

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

| | 2M (6'7") | | 3M (9'10") | | 4M (13'1") | | 5M (16'5") | | 6M (19'8") | |
|---|---|---|---|---|---|---|---|---|---|---|
| 5M (16'5") | 4000 (8,820) | 4000 (8,820) | 4000 (8,820) | 4000 (8,820) | 3400 (7,500) | 2900 (6,390) | 2410 (5,310) | 1660* (3,660) | - | - |
| 3M (9'10") | - | - | 4000 (8,820) | 4000 (8,820) | 4000 (8,820) | 2830 (6,240) | 2500 (5,510) | 1690* (3,730*) | 1520* (3,350*) | 1160* (2,560*) |
| 1.5M (4'11") | - | - | 4000 (8,820) | 4000 (8,820) | 4000 (8,820) | 2790 (6,150) | 2090* (4,600) | 1610* (3,550*) | 1470* (3,240*) | 1110* (2,450*) |
| 0M | 4000 (8,820) | 4000 (8,820) | 4000 (8,820) | 4000 (8,820) | 2990 (6,590) | 2240* (4,940*) | 2100 (4,630) | 1480* (3,260*) | 1600 (3,530) | 1040* (2,290*) |
| -1M (-3'3") | 4000 (8,820) | 4000 (8,820) | 4000 (8,820) | 4000 (8,820) | 3040 (6,700) | 2120 (4,670) | 2150 (4,740) | 1490 (3,280) | 1350* (2,980*) | 1110 (2,450) |
| -2M (-6.7 ft) | 4000 (8,820) | 4000 (8,820) | 4000 (8,820) | 4000 (8,820) | 2590* (5,710*) | 2200 (4,850) | 1790* (3,950*) | 1350 (2,980) | - | - |

Working in longitudinal position on blade side — Working in transverse position

**WORKING CONDITIONS**
- On wheels with stabilisers on ground or raised
- On horizontal, compact ground
- Equipment used without offset
- Front and rear frame aligned
- 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**

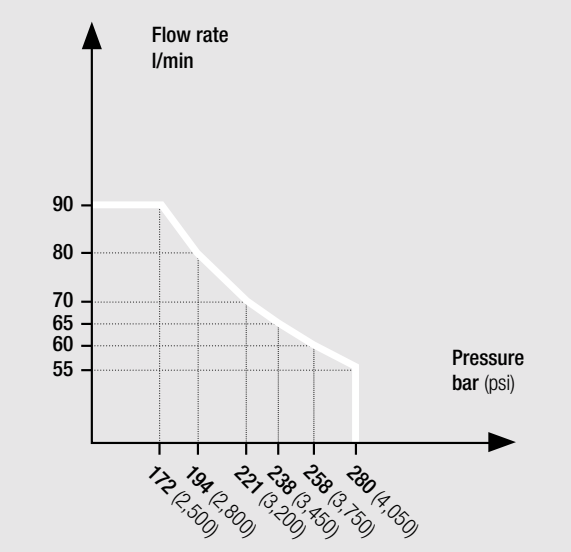
The lifting capabilities shown with an asterisk (*) are limited by the tipping load that can be lifted. Other values are limited by the hydraulic capabilities. The weight of the chain sling, bucket and other auxiliary lifting devices must be deducted from the nominal load to determine the load which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

# 7·9·11MWR
# HYDRAULIC ATTACHMENTS

**NOTE**
METRIC MEASUREMENTS ARE THE CRITICAL VALUES
- 1 Litre = 0.26417 US Liquid Gallons
- 1 Litre = 0.21997 Imperial Liquid Gallons

## 7MWR

**FLOW RATE / PRESSURE AUXILIARY 1 (PROPORTIONAL)**

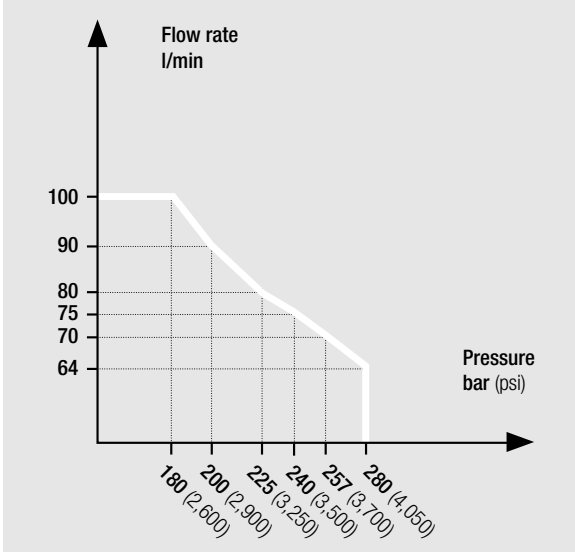



| AUXILIARY LINE 2 | DATA |
|---|---|
| Offset cylinder diverted (clamshell rotation) | |
| Flow rate maximum | 30 l/min |
| Pressure | **280 bar** (4,050 psi) |
| Controls | Proportional as option |

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

## 9MWR

**FLOW RATE / PRESSURE AUXILIARY 1 (PROPORTIONAL)**

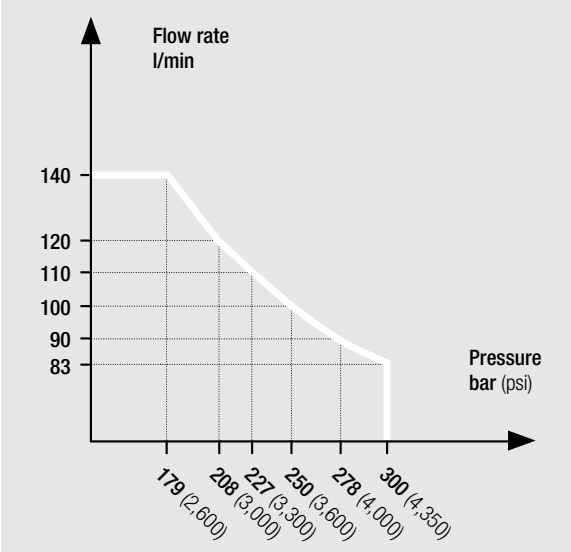



| AUXILIARY LINE 2 | DATA |
|---|---|
| Offset cylinder diverted (clamshell rotation) | |
| Flow rate maximum | 30 l/min |
| Pressure | **280 bar** (4,050 psi) |
| Controls | Proportional as option |

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

## 11MWR

**FLOW RATE / PRESSURE AUXILIARY 1 (PROPORTIONAL)**




| AUXILIARY LINE 2 | DATA |
|---|---|
| Offset cylinder diverted (clamshell rotation) | |
| Flow ratemaximum | 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) |

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