

MWR, new wheel excavators

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Combining the advantages of wheeled and crawler excavators has resulted in a unique Mecalac solution that incorporates mobility, versatility, stability, safety, accessibility, easy operation, lifting force and profitability. Welcome to the new MWRs.

MWRs are the end result of a new vehicle concept and the fruit of Mecalac's combined expertise in wheeled and crawler excavators, aided by in-depth discussions with other wheeled excavator and crawler excavator professionals.

Its design was conceived to meet the demanding specifications for a versatile and compact machine that blends the best features of Mecalac's wheeled and crawler excavators. The outcome?

Versatile and ultra-stable machines with XS dimensions and XL lifting force, benefiting from the latest internal and external technology patented by Mecalac (boom with integrated offset, cylinder coupling, CONNECT quick coupler, central control selector, and speed control function).

Whatever the requirements and demands, these vehicles guarantee optimum profitability thanks to their unprecedented performance, ease of use, and ability to keep both worksites and workers safe, ushering in a new generation of compact, versatile and ultra-mobile wheeled excavators for the construction industry.

By having a lower centre of gravity than the competition, Mecalac is revolutionising the world of wheeled excavators with its MWR range, which are easier to get in and drive than ever before.

This has an impact on all levels - from stability and accessibility to safety and "all-terrain" mobility - meaning the machine has greater balance and strength without sacrificing its original qualities.

The unique architecture of the new MWRs creates powerful and precise handling machines capable of lifting 50% of their own weight!

The offset articulated arm (which fits into the machine's profile perfectly) forms a positive mass and a natural counterweight, thus optimising its lifting power and ensuring greater freedom to handle and turn with heavy loads. Which can come in pretty handy on construction sites.

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.

Thanks to the machine's lower centre of gravity, drivers can access the MWR cab easily, with no physical effort or risk. 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.

The fuel tank on the new MWR is extremely easy to access because it is now located in the undercarriage, level with the step that leads straight to the cab.

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.

Overall visibility has been redesigned to optimise the driver's direct line of sight.

At the rear, the shape of the hood has been reworked and the round window is now one uninterrupted piece (on the 15MWR) to give an unobstructed view. The boom of the Mecalac arm folds away, improving lateral visibility. The two-part retractable windshield and windows on opening doors mean the driver can be in direct contact with the worksite. With rear view mirrors and a perfectly integrated side camera (optional), the driver

can enjoy a whole new range of visibility of the site environment while operating their vehicle.

Thanks to the unique central selector, the driver can switch between road and parking mode in a single movement, instead of the 7-10 operations usually required in other excavators.

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.

What is at the forefront of Mecalac specifications? Optimising operator safety, as well as that of everybody else working on urban and suburban construction sites.

That is why the MWR has a lot of innovative equipment as standard. In addition to 'boots on the ground' maintenance, automatic locking of axle oscillation now makes it easier to secure the machine while the driver is concentrating on their work. These comprehensive safety features are further boosted by the lower centre of gravity and cab height. Integrated cameras may also be added as optional extras, and they interface perfectly with the 7" screen that provides you with views of the worksite as soon as you start reversing the vehicle.

Despite their weight, MWRs can tackle any gradient and any soil type, whatever the weather.

Because worksites are never completely flat, stability is absolutely crucial whether the machine is travelling, climbing or descending. Thanks to a dedicated travel circuit, a lower centre of gravity, four-wheel drive and three different tyre mounts, the driver can work in complete comfort without being bounced around. Whatever the operation and whatever the surroundings, the MWR will remain as smooth as it is mobile, and never loses its balance.

The lower centre of gravity has not affected the machine's ground clearance, which is something of an exclusive "Made in Mecalac" paradox.

Thanks to their architecture and their upper carriage being “built into” the undercarriage, the MWR can still be equipped with sizeable wheels without affecting its compactness. Remaining elevated in this way means the machine retains all of its mobility and can overcome obstacles safely and easily.

Source: MECALAC France s.a.s.