

MECALAC AHLMANN at the Intermat
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The 8MCR, a truly unique, multifunctional concept

The 8MCR is a tracked machine design, combining the features of a compact, 7 tonne excavator with engine and equipment on the upper section, with those of a fast, compact loader with a triangular, tracked chassis. The 8MCR can move at a speed of up to 10km/h.

This new concept is a fine example of how innovative design can combine comfort, productivity, economy and improved working methods with the protection of the environment.

8MCR : operation

A simple selector switch lets the driver change from use as a compact excavator to a compact loader, and then back again, all using the same commands.

The Mecalac "Active Lock" attachment means that a tool can be changed in just a few seconds, without the need to get down from the cab. A major innovation is in the use of the control lever to switch over to loader mode, thus significantly improving productivity, ease of use and site organisation.

8MCR: the technical design and technologies used

A unique concept, bringing together:

- A hydraulic cascade, for receiving commands from a compact excavator or loader instantaneously
- A triangular chassis coupled to a closed circuit hydrostatic transmission system "Senso Drive"
- Rams carrying instruments to assist the return of the bucket supported on the blade, parallel to the ground
- Optimisation of power management via "Active Control"

Loading efficiency is maximised. No stresses are placed on the arm and the turret, thus the machine's operating life is extended and ease of use is improved.

The 8MCR can perform four functions: excavator, loader, handler and tool-holder. The loader bucket or skid allows loading supported on the blade which increases the machine's efficiency with the force of the thrust transmitted directly from the chassis to the bucket.

The operation is performed more accurately using the control lever. The operating speed of up to 10km/h significantly reduces cycle times and the times needed for movement around the site.

8MCR: simple to use

Two operating modes can be selected with a simple switch for each function, with the user able to use standard ISO commands to operate a compact excavator or compact loader. The functions on the control levers mean that adjustment time is zero and ease of use is considerably improved compared to standard products. The well-designed cab is the most spacious available in this machine category and thus the operator is less tired and can remain focused within the working area.

8MCR: optimised site management

The 8MCR's multifunctional capability means it can operate as a compact excavator, compact loader and forklift all in one, as well as being a tool-holder, thus enhancing its 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. The turret can rotate at any time, a feature not available in compact loaders, and allows static loading, thus reducing unnecessary movement. Fuel consumption and wear on tracks are considerably reduced as a result.

8MCR: environmentally-friendly

The multifunctional concept of the 8MCR, which means just one machine is needed on site, ensures a considerable reduction in fuel consumption and polluting gas emissions and noise from the site for local residents, and avoids the need to leave several traditional machines idle at any one time, which take up space on site and lead to unnecessary and polluting plant movements.

The 8MCR was designed around MECALAC's successful multifunctional concept, offering effective and intelligent site management and helping to protect the environment.

Technical data

8MCR, characteristics

Weight:	6,800 kg
60 kW (81 hp) 2,200 rpm	
Max torque 294 Nm 1,600 rpm	
"Senso drive" closed circuit hydrostatic transmission	
for loader performance	
Reach :	6,700 mm
Trench depth:	3,700 mm
Penetration force :	2,800 daN
Tear out force :	4,900 daN
Dumping height :	3,140 mm
Maximum speed:	10 kph