

Concrete mixer

Regulatory area: EU

DBM





Comfort: The ideal workplace



Ground controls

To maximise the efficiency of concrete laying, the drum controls are replicated on the outside of the machine, allowing the mix to be unloaded from the ground if the machine does not need to be moved.

DBM cab

Access to the cab is simple and easy thanks to the 180° opening door, the suspension seat swivels through 180° and, together with the controls replicated at the rear, allows comfortable barrel-side driving, ensuring comfort of use during loading and laying.

Visibility

To achieve these standards of visibility, Merlo has invested in understanding the best positioning of the cab, barrel and engine, taking great care with the glass surfaces with the aim of ensuring fast, safe and precise operations.

Efficiency: A real working yard



EPD

The exclusive EPD (Eco Power Drive) is a Merlo patented system for electronically controlling and regulating the engine and transmission, ensuring a reduction in consumption by up to 18%.

Weighing system

The Merlo self-loading concrete mixer can be equipped with a hydraulic or electronic weighing system, allowing to program different mixes, store the flow of water filled, and print the report of the elements used during the work phase.

Self-loading bucket

The large loading bucket combined with the rapid movement of the loading system, guarantees the shortest cycle times for this machine category. The bucket design includes an attachment that facilitates the opening of the bags for loading the mixing element.

Performance: Agile and powerful



Hydraulic system

The machine hydraulic system is composed of a self-priming pump with 3-way diverter (drum, tank or washing lance). A hose allows supply from an external source and a lance is set up for washing the machine at the end of the shift.

Cycle time

The mixing drum, made of special wear-resistant steel, ensures perfect mixtures due to the geometric volume of the drum, exceeding the output capacity by more than 40%, and the low inclination angle and the unique double spiral propeller with variable pitch.

Transmission

The four-wheel drive, together with the oscillating front axle, differential lock and high ground clearance, make the DBM the off-road mixer par excellence. In addition, it is possible to manage the steering with three different solutions: front wheels, pivot steering and crab steering.

Safety: Not just feelings



Off-centre barrel

The barrel is designed and fitted offset from the chassis, providing excellent visibility when driving on the construction site. In addition, when fully loaded, it allows the centre of gravity of the machine to remain unchanged, as the concrete mass is aligned with the centre of the machine.

Rear Camera

In order to increase comfort and safety during operations and vehicle manoeuvres, the DBM concrete mixers are equipped with a rear camera. A 7" colour screen allows images to be viewed directly from the cab, ensuring visibility in "blind" areas of the machine.

Frame

The DBM structure is made of high-strength steel. The water and diesel tanks, which are also made of steel, are housed internally to provide high protection for the components and ensure a high working autonomy, even in the most isolated locations with no infrastructure.



<p>1 - DBM CAB</p>	<p>Access to the cab is simple and easy thanks to the door that can be opened 180°, the numerous handles and the large entrance space. The side window, which is independent of the door body, can be locked in the open position to maximise air exchange, visibility and direct contact with those working outside near the machine. In addition, the suspension seat swivels through 180° and, together with the controls replicated at the rear, allows comfortable barrel-side driving, ensuring comfort of use during loading and laying. Finally, after intensive research into technical solutions, acoustic and thermal comfort were taken into account so as to provide an ideal workstation.</p>
<p>2 - BARREL HOUSING</p>	<p>The barrel is designed and fitted offset from the chassis, providing excellent visibility when driving on the construction site. In addition, when fully loaded, it allows the centre of gravity of the machine to remain unchanged, as the concrete mass is aligned, during the mixing rotation, with the centre of the machine. This ensures excellent stability in transfers on uneven and steeply sloping surfaces.</p>
<p>3 - AXLES AND BRAKES</p>	<p>The axles are manufactured and developed in-house by Merlo, and can be equipped with differential lock to ensure traction on any terrain, regardless of how unstable. The 4-wheel braking system is power-assisted, ensuring maximum safety in any working environment, while the parking brake is activated automatically when the engine is switched off or manually from the cab. The brakes are all of a dry disc type, and guarantee unparalleled braking performance and efficiency, for a reduction in the machine's fuel consumption and maintenance costs.</p>
<p>4 - SELF-LOADING BUCKET</p>	<p>The large loading bucket, with a capacity of 700 litres, combined with the rapid movement of the loading system, guarantees the shortest cycle times for this machine category. It is equipped with hydraulic lifting and rotation with automatic opening of the door for unloading of the aggregates inside the drum. The bucket design includes an attachment that facilitates the opening of the bags for loading the mixing element (cement, lime, etc.). Optionally, the machine can be equipped with a loading hopper instead of a self-loading bucket.</p>

**PERFORMANCE AND FEATURES****DBM2500****DBM3500****Performance**

Operating weight (kg)	7050	7400	
Concrete yield capacity (l)	2500	3500	
Drum volume (l)	3500	5000	
Bucket capacity (l)	700	700	
Water pump capacity (l/min)	250	250	
Water tank	930	930	
Lift height at max. load capacity	1760	2060	
Drum rotation speed (rpm)	0 ÷ 26	0 ÷ 18	

**Powertrain**

Engine	DEUTZ TCD3.6	DEUTZ TCD3.6	
Engine power (Kw/hp)	74.4/100	74.4/100	
Anti-pollution technology	STAGE V	STAGE V	
Displacement/Cylinders (l)	3.6/4	3.6/4	
Fuel tank capacity	200	200	
AdBlue tank capacity	18	18	
Axles	Drop portal	Drop portal	
Brakes	Automatic parking brake	Automatic parking brake	
Maximum gradeability: Fully laden	45	40	
Maximum gradeability: Empty	55	50	
Maximum transversal slope	15	15	
Maximum speed (Km/h)	40	40	

**Configuration**

ROPS Cab	●	●	
Double driving position	●	●	
Hydrostatic transmission	EPD	EPD	
Number of gears	2	2	
Permanent four-wheel drive	●	●	
All wheel steering	●	●	
Three steering way	●	●	
Standard tyres	405/70-20	18-19,5"	
Front and rear towing hooks	●	●	
Two extension chutes	●	●	
Ground control panel	●	●	
Automatic battery disconnect switch	●	●	

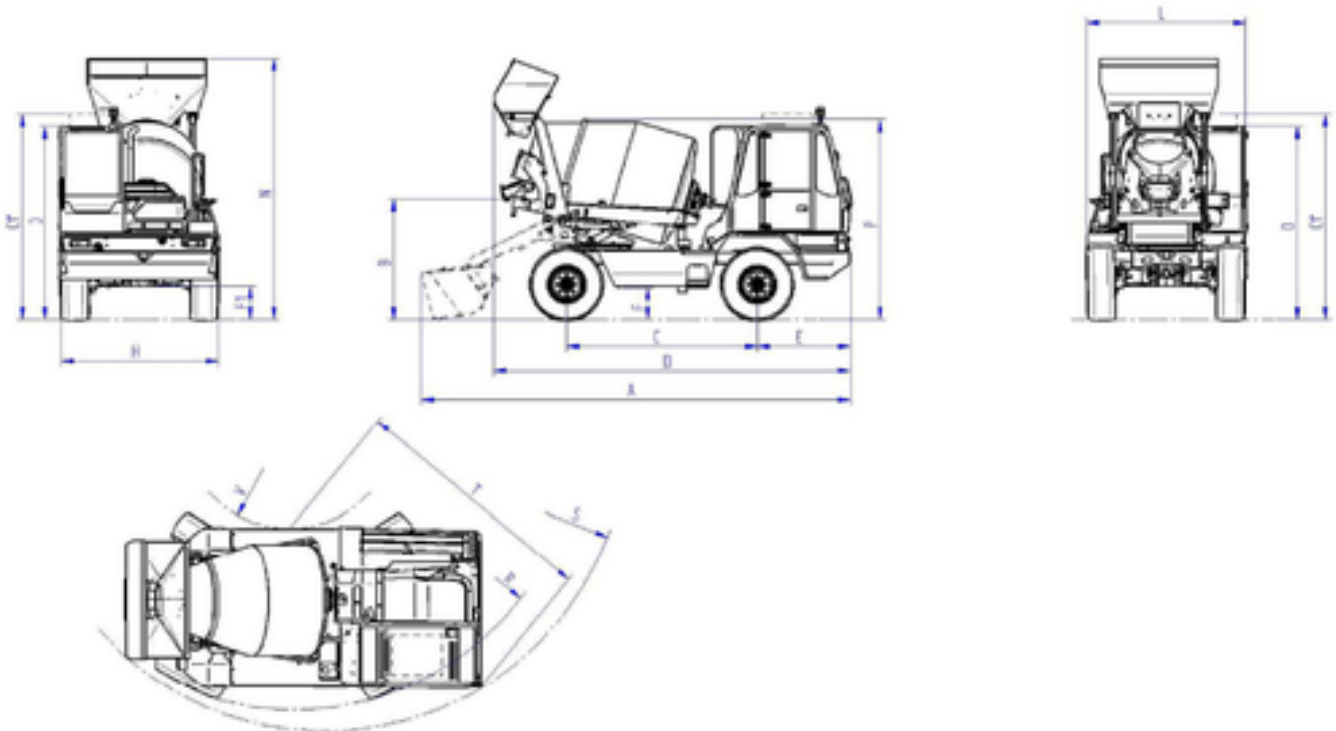
- not available
- standard
- optional

Dimensions

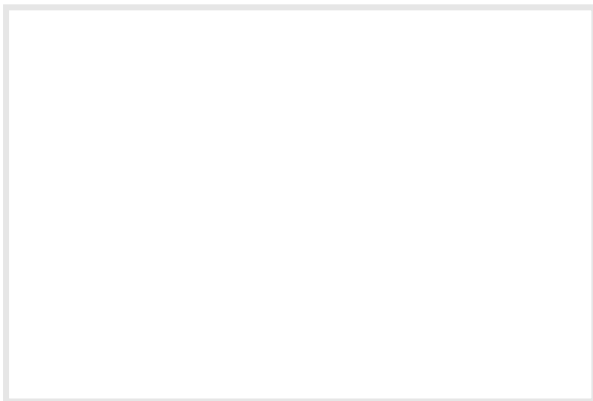


	DBM2500	DBM3500
Length with bucket lowered	6220	6480
Maximum discharge height	1760	2060
Wheelbase	2750	2750
Length with bucket up	5250	5460
Dimension_E	1350	1350
Ground clearance	470	435
Dimension_F1	470	435
Width	2300	2355
Dimension_L	2300	2300
Cabin height	2805	2770
Cabin height with air conditioner	2975	2940
Height with bucket raised	3720	3880
Drum height	2900	3100
Turning radius at the wheels	4165	4200
Steering radius at the frame	4400	4730
Dimension_T	3590	3590
Dimension_V	1620	1620

Technical Details



Your Merlo dealer



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