



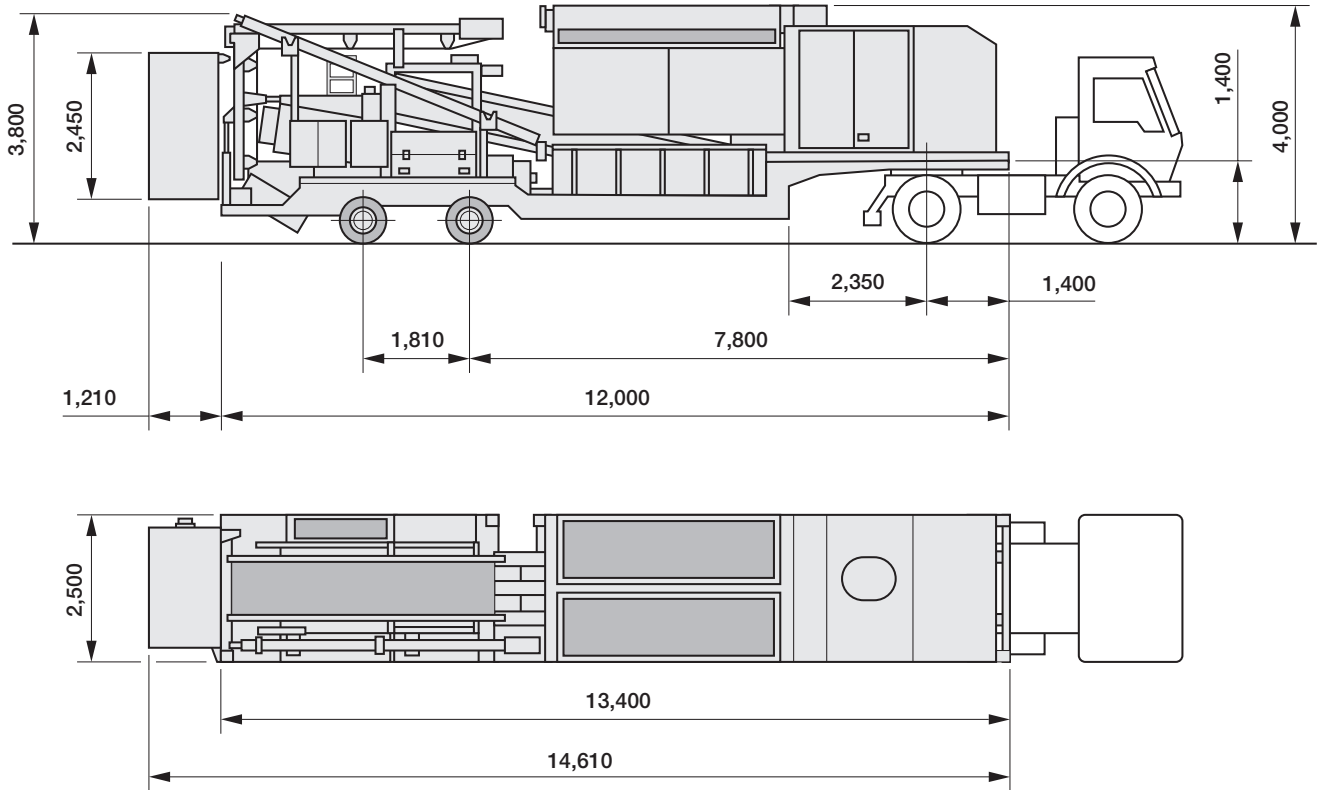
Technical specification

Mobile cold recycling mixing plant KMA 200



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Plant capacity	
Mixing capacity	200 t/h
Max. particle size	45 mm
Transport dimensions and weights	
Length without/with cabin	13,400 mm / 14,610 mm
Width	2,500 mm
Height	4,000 mm
Overall weight	ca. 30,000 daN (kg)
Batching of mineral aggregate	
Hopper capacity	2 x 6 m ³
Feed width	3,710 mm
Feed height (average)	3,600 mm
Mixer	
Type	Twin-shaft pugmill mixer
Principle of operation	Continuous mixer
Installed power	2 x 30,0 kW
Wear protection	All-round wear lining
Motor	
Engine manufacturer	Deutz
Type	BF 6M 2012 C
Cooling system	Water
Number of cylinders	6
Output	129.9 kW / 174.2 HP / 176.6 PS
Engine speed	2,100 min ⁻¹
Displacement	6,060 cm ³
Fuel consumption at full load	32 l/h
Tank capacities	
Water tank	4,500 l
Fuel tank	400 l
Hydraulic fluid tank	400 l
Electrical system	
	24 V
Conveying capacities	
Feeding auger for hydraulic binders	12 m ³ /h
Water supply	200 l/min
Emulsion supply	180 l/min
Hot bitumen supply for foamed bitumen	160 l/min
Heating for hot bitumen system	
	42 V
Conveying system	
Belt width of belt conveyor to mixer	1,000 mm
Belt width of discharge conveyor belt	800 mm
Slewing angle discharge conveyor (right/left)	20°/35°
Dimensions cabin (l x w x h)	
	2,000 x 1,200 x 2,450 mm

Dimensions in mm



Machine ready for transport

Basic design

The plant is used to produce cold mixture. It operates independently of external power sources and can simply be transported to any suitable location. The plant components are mounted on a semi-low-bed trailer. Very little time is required to set the machine up.

Semi-low-bed trailer

Chassis frame of high-grade sectional steel, in a lightweight construction with king pins to DIN and SAE standards. Two pneumatic spring axles with raising and lowering functions and automatic, load dependent, all-wheel air brakes in accordance with the relevant EU Directive. The plant is mounted by means of container corner clips. Telescopic stabilizers are fitted for the full-load support

of the semi-low-bed trailer. They can be operated from one side to ensure simple setting up and adjustment of the mixing plant.

Engine

A water-cooled diesel engine drives all pumps and hydraulic engines. The engine fulfils the requirements of EPA COM II.

Hopper

A generously dimensioned two-part hopper with oversize particle removal by means of vibratory screens on both hopper feed sides. The screens are hydraulically foldable for simple cleaning. A vertical partition allows two kinds of aggregates with different granulometry to be charged. The proportion of ingredients is controlled at the hopper discharge point by mechanically adjustable dosage gates.

Lateral flaps on the hopper frame ensure easy mounting of an approach ramp and protect the area of the semi-low-bed trailer behind it from soiling.

Belt conveyor for the feeding of the pugmill

A generously proportioned belt conveyor transports the aggregates from the hopper to the pugmill.

A belt cover and covered transfer point ensure a low dust level during conveyance.

A scraper bar on the deflection pulley on the discharge side and an internal scraper in front of the deflection pulley keep the belt clean.

The belt scales with their maintenance-free force transducer determine the current conveyor capacity.

The measured value is used as an input variable for controlling the addition of binding agents.

Continuous pugmill

The continuous twin-shaft pugmill has low-wearing mixing arms with adjustable special chill-cast mixing blades.

Steel pugmill trough, lined with durable wearing plates.

Easy-to-service pugmill trough cover accommodating the injection bar for foamed bitumen.

The level in the pugmill is optimally set by means of the hydraulically adjustable transfer opening to the discharge conveyor.

Belt conveyor for discharging the mixed material

The discharge conveyor is folded inwards hydraulically for transportation. It can be slewed horizontally in the working position.

Control system and switchboard

The plant is controlled fully automatically by means of micro-processors. It is operated using a clearly arranged user interface.

Control functions include: automatic plant start-up, monitoring of the individual drives, material shortage warning signals, monitoring of levels, temperatures and pressures, tonnage pre-selection, automatic plant shut-down and service mode.

A continuous comparison of the required and actual values of the individual drives ensures that the quality of the mixture is precisely in line with the formula.

The plant is operated from a clearly arranged main operating console, from which the entire process can be monitored.

The individual modules are equipped with additional operating consoles for service and maintenance.

The operating console can be optionally installed within a cabin.

The operator has a good overview of the machine and the loading process from the cabin.

CGC (Cockpit Graphic Centre)

The current settings of the mixing plant are continuously shown on the display of the CGC.

An optional printer is also available, to document the relevant job data.

Instrumentation

A multifunctional display shows the operating hours, oil pressure, engine temperature, charging air temperature, hydraulic fluid temperature, engine speed, diesel tank level and charging control.

There is an additional filter soiling level indicator.

Electrical system

24 V system with three-phase alternator and two 12 V batteries, starter, socket outlet and horn, as well as extensive working lights.

Hydraulic system

Separate hydraulic systems for the pugmill, belt conveyor and binder supply.

The hydraulic pumps are driven by the diesel engine via a PTO gear.

Water system

The water is pumped to the pugmill by means of a controlled eccentric screw pump either externally from the right or left hand side of the unit, or from the tank.

Water is injected at the pugmill infeed point.

Magneto-inductive flow measurement of the water ensures optimum metering.

The water level is monitored via a display on the water tank.

Supply of hydraulic binder

Hydraulic binder is supplied by means of a slewable feeding

auger and a weighing auger in the pugmill.

The feeding auger can be positioned on the left or right of the mixing plant, as required.

It is slewed onto the pugmill frame and secured when the mixing plant is transported.

A weighing cell is used to accurately meter the binder.

A special device to secure the weighing cell during transport is standard supply.

Bitumen emulsion unit (optional)

Controlled eccentric screw pump for bitumen emulsion with emulsion injection bar on the continuous pugmill, flow meter and the corresponding control device for optimum metering. Intake is possible on both sides of the plant.

Foamed bitumen unit (optional)

This unit includes electrically heated gear pump for hot bitumen up to 200 °C, foamed bitumen injection bar with several expansion chambers, water injection for the production of foamed bitumen in the expansion chambers, test nozzle positioned at the side for sampling and bitumen filter with temperature indicator.

All bitumen lines are electrically heated and insulated.

Flow measurement of the hot bitumen and pressure monitoring for bitumen and water.

Complete open and closed loop control unit for the foamed bitumen unit.

Water for the production of foamed bitumen is conveyed from the water tank by means of a reciprocating pump.

Equipment	KMA 200
Plant operation	
Cabin	●
Air condition for cabin	●
Printer for job data	●
Mixture processing	
Emulsion metering unit	●
Metering unit for hydraulic binders	○
Connection for filling of hydraulic binders via silo	●
Hopper for manual filling of hydraulic binders	●
Water metering unit	○
Foamed bitumen metering unit	●
Heatable tube for supply of hot bitumen	●
Miscellaneous	
Special paint coating	●
High pressure water wash-down	●
Flaps to which a ramp can be mounted for wheel loaders	○
Soundproofing	○
Working lights	○
Extensive tool kit	○
CE mark	○
Comprehensive safety package with emergency stop switches	○

○ Standard ● Optional



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