

# ***Mobile cold recycling mixing plant KMA 150***

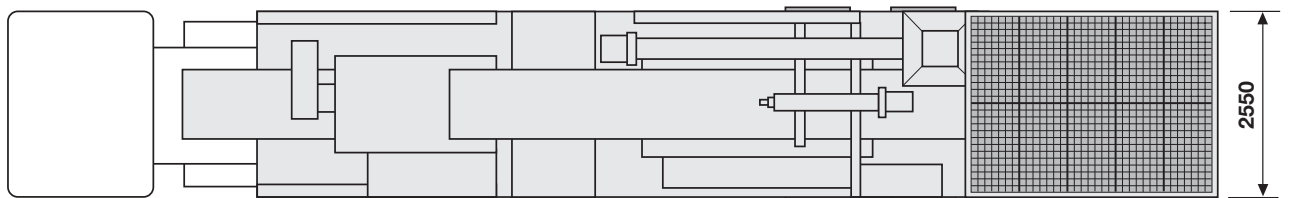
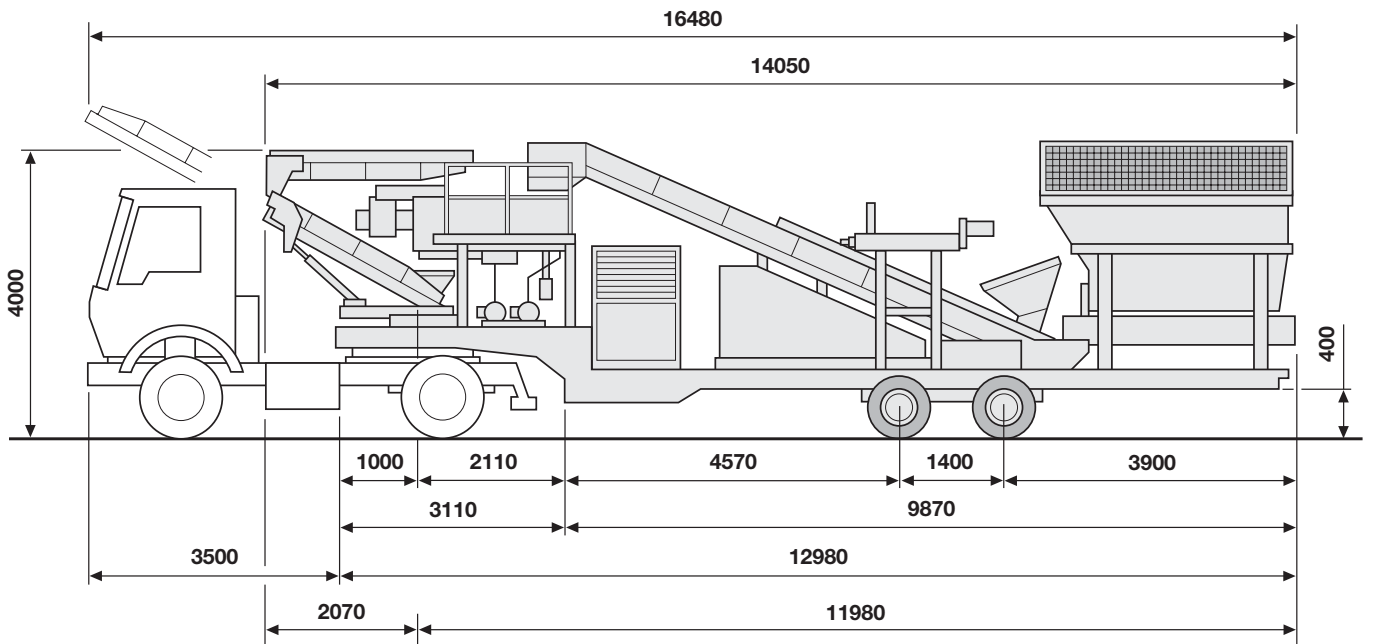
## ***Technical specification***



# Technical specification

		Cold recycling mixing plant KMA 150	
<b>Plant capacity</b>			
Max. mixing capacity	t/h	150	
Max. particle size	mm	45	
<b>Transport dimensions and weight</b>			
Length	mm	14,050	
Width	mm	2,550	
Height	mm	4,000	
Overall weight	daN (kg)	24,000	
<b>Batching of mineral aggregate</b>			
Batcher capacity		2 x 5 m <sup>3</sup>	
Feed width	mm	3,400	
Feed height	mm	3,500 (average)	
<b>Mixer</b>			
Type		Twin-shaft pug mixer	
Principle of operation		Continuous mixer	
Installed power	kW	30.0	
Wear protection		All-round wear lining	
<b>Power supply unit</b>			
Engine manufacturer		KHD	
Type		8 F 4M 1013 EC	
Cooling system		Water	
Output	kW	80	
Operating voltage	V	400/231	
Frequency	Hz	50	
Fuel consumption at full load to DIN 51601		206 g/kWh – 22.3 l/h	
<b>Hydraulic binder infeed</b>			
Feed hopper capacity	m <sup>3</sup>	0.4	
Feed height	mm	1,230	
Delivery capacity, batching screw	m <sup>3</sup> /h	9	
<b>Water system</b>			
Delivery capacity	l/min	26.5 – 200	
<b>Foamed bitumen plant</b>			
Delivery capacity, hot bitumen	l/min	32 – 152	
Delivery capacity, water pump	l/min	max. 7.6	
Water tank capacity	l	3,000	
Max. compressor pressure	bar	10	
<b>Emulsion infeed</b>			
Delivery capacity	l/min	max. 140	

Dimensions in mm



# Technical description

## Semi-low-bed trailer

Chassis frame of high-grade sectional steel, lightweight construction with kingpin to DIN and SAE standards. Two pneumatic spring axles with raising and lowering functions, as well as automatic load-dependent all-wheel air brakes in accordance with EC Directives. The individual plant components are mounted via container corner clips for locking the separate plant components. Fitted with 24 t two-turn telescoping stabilizers for full-load support. Can be operated from one side to simplify setting up the mixing plant.

## Batching hopper (twofold) with discharge belt

Generously dimensioned batcher with a capacity of 2 x 5 m<sup>3</sup>. Oversize particles are eliminated by vibratory screens on both batcher feed sides. Two different aggregate fractions can be batched, thanks to the presence of a hinged vertical partition. Ratio is controlled at the hopper discharge by mechanically adjusted shutoff slides.

## Hydraulic binder infeed

Feed hopper with a capacity of 0.4 m<sup>3</sup>. Feed screw and weighing screw with a delivery capacity of 9 m<sup>3</sup>/h each. The binder is weighed via a strain gauge to ensure accurate metering. A supporting frame is installed to support the pivotable weighing screw.

## Belt conveyor to feed the continuous mixer

Belt conveyor with two-part trough stations and maintenance-free precision rollers. The belt is covered and the transfer point encased to ensure that material is conveyed with little dust formation. The belt is cleaned by a bar scraper on the discharge drum and an internal scraper in front of the takeup drum. The actual delivery capacity is determined by the belt weigher with maintenance-free force transducers. The measured values are used as input variables for controlling the addition of binder.

## Power supply unit

The integrated power supply unit for operating the mixing plant independ-

ently of a mains supply comprises a water-cooled KHD diesel engine with power generator. The capacity of the diesel tank is sufficient for approx. 17 hours of continuous operation.

## Continuous mixer

Wear-resistant two-shaft continuous mixer. Cast steel impeller arms with adjustable special chill-cast impeller blades. Sheet steel mixer trough with wear-resistant lining. Easy-to-service mixer trough cover accommodating the spraybar for foamed bitumen.

## Belt conveyor for loading the mixed material

The discharge (loading) belt is of hinged design and is extended and retracted hydraulically. It can be slewed horizontally via a slewing rim.

## Control system and switchboard

All-automatic PLC plant control with clearly arranged user interface. Control system includes: automatic plant start-up, monitoring of the individual drives, shortage of material, filling levels, temperatures, pressures, tonnage selection, automatic plant shutdown and service mode. The individual frequency-controlled drives are continuously controlled and adjusted in line with setpoint and actual values to ensure that the quality of the mixture corresponds precisely with the formulation. The built-on control cabinets with control unit can be locked.

## Water system

Frequency-controlled eccentric screw pump with a max. delivery capacity of 200 l/min. Water injection at the mixer infeed. Magneto-inductive flow measurement to ensure optimum metering of the water.

## Foamed bitumen unit including water tank

Plant includes electrically heated gear pump for hot bitumen up to 200°C, reciprocating pump for adding water and spraybar for foamed bitumen with five expansion chambers and a test nozzle at the side for sampling. Bitu-

men 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 plant.

Stainless steel water tank with visual level indication and a capacity of 3,000 litres.

Compressor unit for pneumatic cleaning device with air gun.

## Bituminous emulsion unit

Frequency-controlled eccentric screw pump for bituminous emulsion, emulsion spraybar on the continuous mixer, flow meter and corresponding control device for optimum metering.

## Soundproofing

The power supply unit and compressor unit can also be supplied with soundproofing.



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