

Technical Data sheet

MINI RECYCLING IN-LINE COMPLETE RECYCLING SYSTEM - 10 M³/HOUR CAPACITY



Since the first completely integrated recycling concept for reusing EPS materials was developed in 1978, we have supplied more than 500 complete recycling plants world-wide, solving recycling problems and brought substantial savings to our customers production.

The KBM MINI recycling plant for EPS and EPP is suitable for small/medium shape moulding and small block moulding operations. Thanks to the two step/double chamber system and the large screen surface and granulation chamber, the MINI plant processes waste products, cut-offs from cutting lines and even used EPS and EPP/EPE mouldings, into high quality recycled material with a minimal content of dust.



Recycled EPP & EPS.
Pre-crushed, granulated and de-
dusted - ready to be reused in
your production



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KBM ApS guarantees that the product meets the specification above. The keeping, handling and use of the products are beyond the control of KBM ApS, and therefore shall not invoke any responsibility of the company. This TD substitutes and deletes all previous versions.



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Brand name: KBM MINI RECYCLING PLANT	A complete system with individual units, for converting moulded EPS/EPP/EPE/NEOPOR/ARCEL packaging and insulation materials into individual beads ready to be mixed with virgin beads to mould new products.
Material	Cabinets are made of galvanized steel.
Density range	Standard EPS version < 35-40 Kg/m ³ (< 2.2-2.5 lb/ft ³) High density version (HD) < 100-120 Kg/m ³ (< 6.2-7.5 lb/ft ³)
Capacity by volume (Granulated EPS)	
6mm screen	6-8 m ³ per hour (210-280 ft ³ /hour)
10mm screen	9-10 m ³ per hour (315-350 ft ³ /hour)
12mm screen	12-13 m ³ per hour (420-455 ft ³ /hour)
Capacity weight HD+EPP	
6mm screen	50-100 Kg/m ³ per hour (130-220 lb/hour)
Screen surface	0,9 m ² (9,7 ft ²)
Space required	Approx. 12 m ² (120 ft ²)
Measurements L x W x H	
Pre-crusher/Granulator (1)	1.4x1.1x2.5 m(55x44x100")
Dust separating unit (2)	1.2x1.1x2.5 m(48x44x100")
Dust compactor (3)	1.6x0.6x5.1 m (64x24x204")
Storage silo	Any size available
Pipe connections	160 mm (6")
Hopper opening	900 x 600 mm (36x24")
Estimated conserved material	Min. 93-95%
Extracted dust & particles	Max 5-7%
Dust content after processing	Max 1%

MINI version B



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The recycled EPS and EPP material can be reused in shape moulding productions in a ratio of at least 10-20 % without any perceptible visual nor physical change in the product quality. For block moulding 20-50 % can be added.

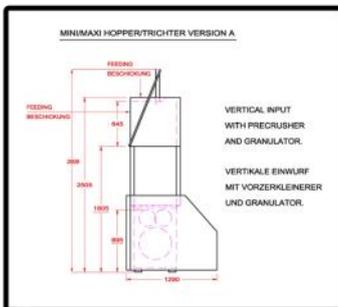
As the material is broken down to homogeneous, individual beads which mix perfectly with new pre-expanded beads, it consequently minimizes the uneven density distribution in the silos and thus in the block. Blocking of core vents, due to dust and lumps in the material, often causes hot wire cutting problems and thus unwanted surface appearances on the final insulation sheets.

The KBM MINI recycling plant consists of one combined pre-crushing and granulating unit (1), and a separate dust separating unit (2). Both units are sound insulated. After recycling the material, it's blown into a storage silo (6), a big bag made of antistatic fabric with a steel frame for easy assembling.

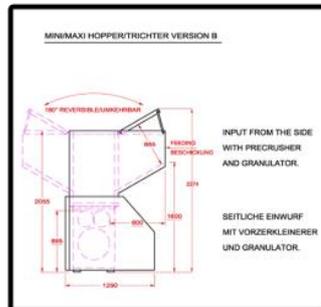
The dust is blown into the dust compactor (5), with air venting filter bags. The dust is collected in the lower part and is compacted into a octagonal rod with a density of 150-300 Kg/m³ (9-18 lbs/ft³).



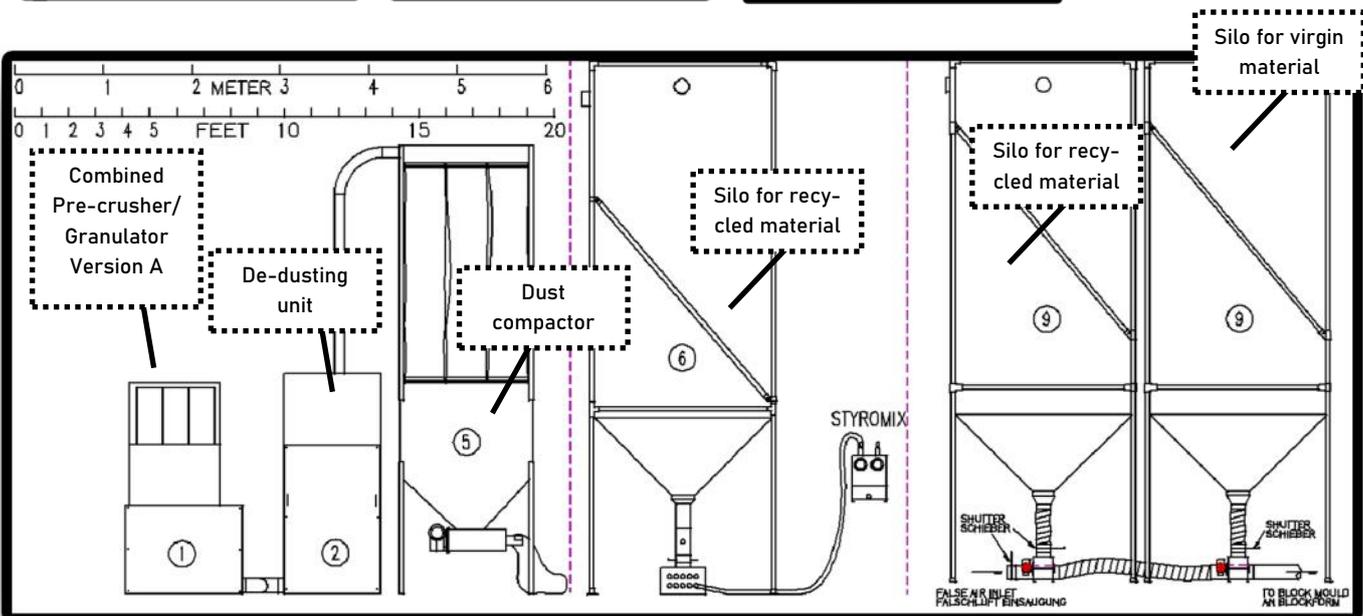
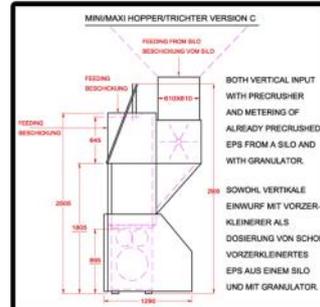
VERSION A



VERSION B



VERSION C



Technical Data sheet



MINI RECYCLING IN-LINE

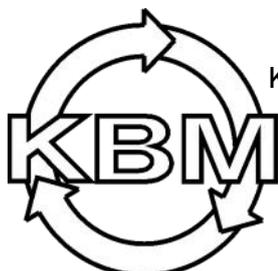
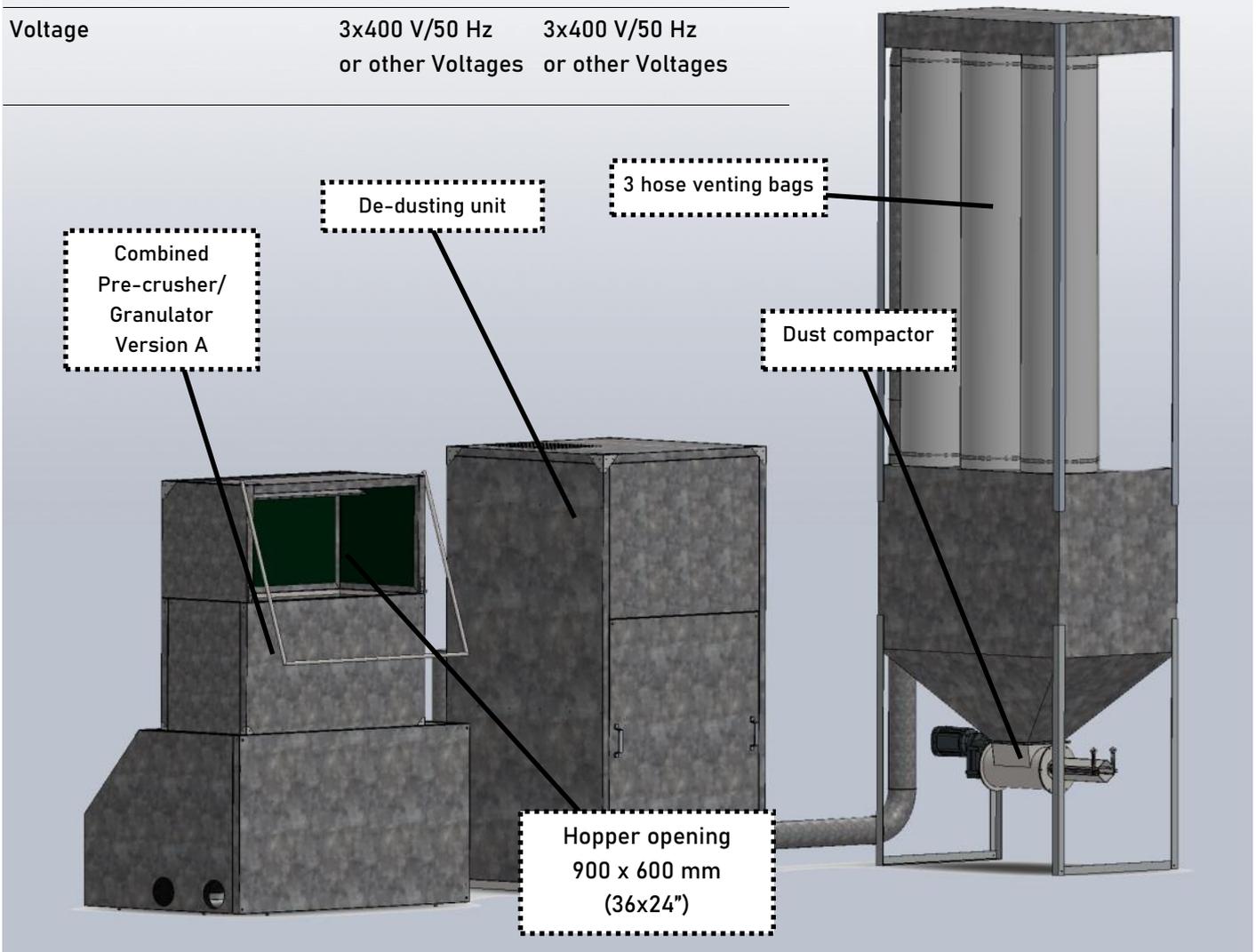
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Brand name:

KBM MINI RECYCLING PLANT

Electrical load	EPS version	EPP+HD EPS version
Pre-crusher/granulator	13,2 kW	26,0 kW
Dust separating unit	4,0 kW	4,0 kW
Dust compactor	1,5 kW	2,2 kW
Styrometer/Styromix	See chapter with mixing units	See chapter with mixing units

Voltage	3x400 V/50 Hz or other Voltages	3x400 V/50 Hz or other Voltages
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