

Technical Data sheet

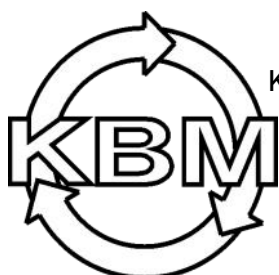
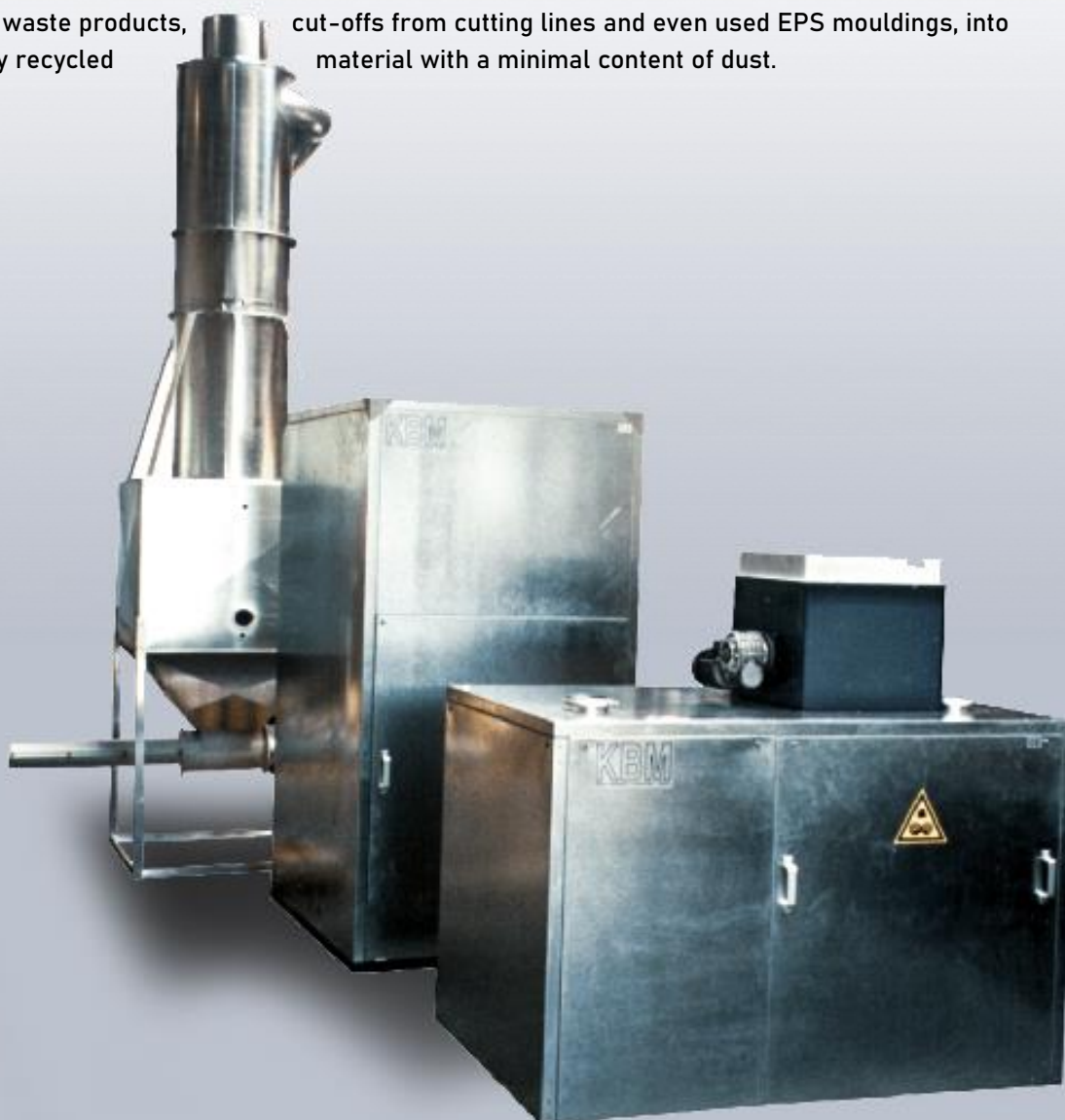
JUMBO RECYCLING IN-LINE

COMPLETE RECYCLING SYSTEM - 40 M³/HOUR CAPACITY



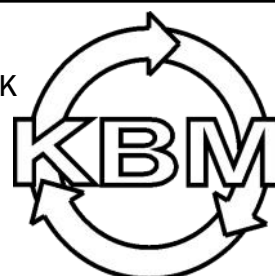
Since the first completely integrated recycling concept for reusing EPS materials was developed in 1978, we have supplied more than 500 complete recycling plants world-wide, solving recycling problems and brought substantial savings to our customers production.

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



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Brand name: KBM JUMBO RECYCLING PLANT

A complete system with individual units, for converting moulded EPS/NEOPOR insulation materials into individual beads ready to be mixed with virgin beads to mould new products.

Material Cabinets are made of sound insulated galvanized steel.

Density range Standard EPS version < 35-40 Kg/m³ (< 2.2-2.5 lb/ft³)
High density version (HD) < 60-70 kg/m³ (< 3.8-4.4 lb/ft³)

Capacity by volume
(Granulated EPS)

6mm screen 18-20 m³ per hour (350-420 ft³ /hour)
8mm screen 25-35 m³ per hour (630-700 ft³ /hour)
10mm screen 25-35 m³ per hour (630-700 ft³ /hour)

Screen surface 2 x 1,2 m² (26 ft²)

Space required Approx. 30-40 m² (160 ft²)

Measurements L x W x H

Granulator (1) 2.1x1.4x1.9 m(84x56x76")
Dust separating unit (2) 1.8x1.2x2.7 m(72x48x108")
Dust compactor (3) 1.2x1.2x5.1 m (48x48x204")
Storage silo Any size available
Pipe connections (Granulated) 160/200 mm (6")
Pipe connections (Pre-crushed) 250 mm (6")

Hopper opening(JUMBO PRE-CRUSHER) 1800 x 800 mm (72x32")

Estimated conserved material Min. 93-95%
Extracted dust & particles Max 5-7%
Dust content after processing Max 1%

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



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The recycled EPS material can be reused in shape moulding productions in a ratio of at least 10-20 percent without any perceptible visual nor physical change in the product quality. For block moulding 20-50 percent 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 JUMBO recycling plant consists of one pre-crusher and one granulating unit, and a separate dust separating unit.

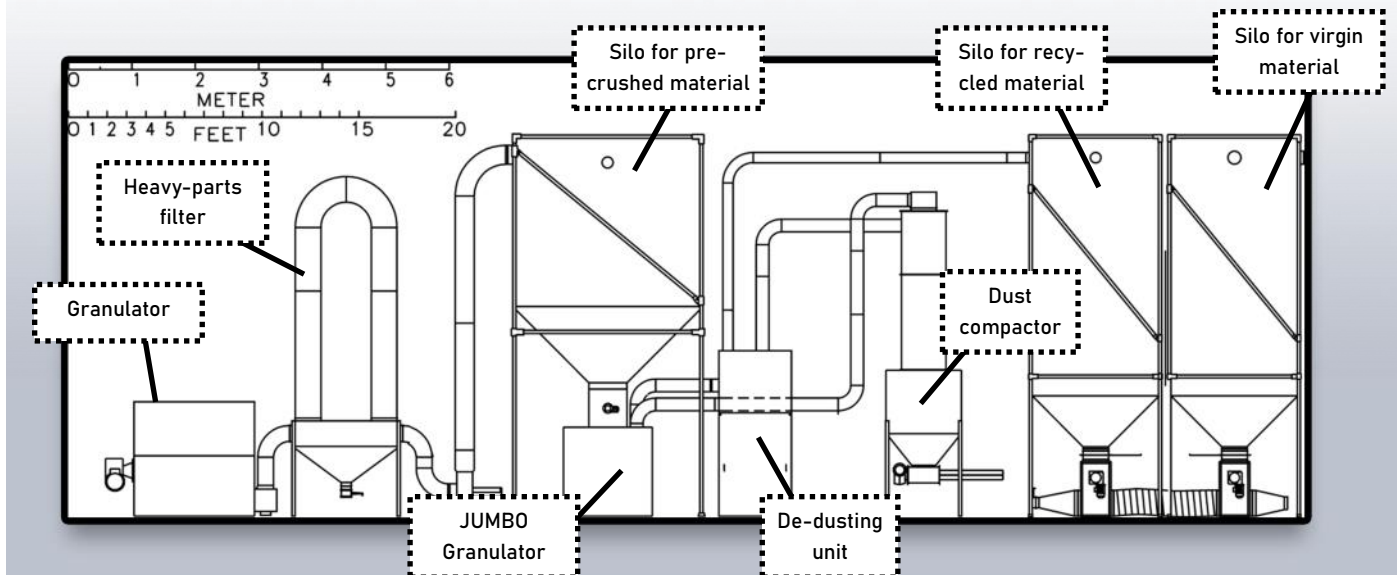


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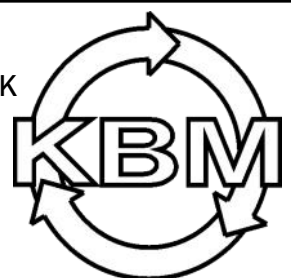
Both units are sound insulated. After recycling the material, it's blown into a storage silo, a big bag made of antistatic fabric with a steel frame for easy assembling.

The dust is blown into the dust compactor, 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).



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KBM JUMBO RECYCLING PLANT

Electrical load	EPS version	HD EPS version
Pre-crusher/granulator	31,2 kW	39 kW
Dust separating unit	14,4 kW	14,4 kW
Dust compactor	4,0 kW	4,0 kW
Styrometer/Styromix	See chapter with mixing units	

Voltage	3x400 V/50 Hz or other Voltages
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Cell wheel for
correct metering of pre-
crushed material from silo

Funnel for placing
feeding silo on top

JUMBO
GRANULATOR
VERSION D



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