



KBM RECYCLING

EPS / EPP / EPE / ARCEL / NEOPOR

Complete systems to make moulded EPS/EPP/EPE/NEOPOR/ARCEL packagings and insulation materials into individual beads ready to be mixed with new beads to make new products

RECYCLING MINI "IN-A-BOX"



MINI IN-A-BOX
All in one unit.

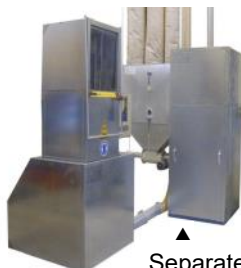
RECYCLING MICRO "IN-A-BOX"



MICRO IN-A-BOX
All in one unit.

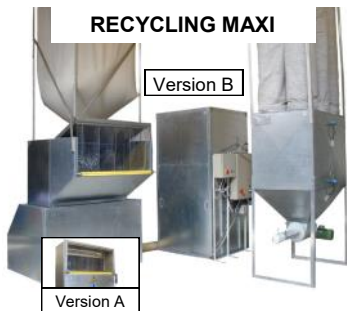
New

RECYCLING MINI



Separate units

RECYCLING MAXI



Version B

Version A



EPP beads ready to be recycled



EPS beads ready to be recycled



RECYCLING JUMBO



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The only way to make money on recycling of EPS and EPP is to reuse it as EPS or EPP, where the value correspond to the price of new EPS or EPP beads.

We developed the completely integrated recycling concept for reusing EPS material in 1978 and have in the past supplied **more than 350 complete recycling plants** world-wide, where they have solved the recycling problems and brought **substantial savings**. Our experience in this field enables us to solve the problem of reusing the waste material with **optimal result for both EPS, EPP, EPE, ARCEL and NEOPOR for shape- and block-moulders**.

The recycled EPS and EPP material can be reused in shape moulding production in a ratio of at least 10-20 percent without any perceptibly optical or physical change of the product quality. For block moulding 20-50 percent can be added.

Due to the fact that the material is broken down to the individual bead size similar to the new beads, it is homogeneous with the new pre-expanded beads and consequently de-mixing problems in the silos causing uneven density distribution are minimized. Problems like blocking of core vents due to dust and lumps of material causing hot wire cutting problems in terms of inaccurate sheets with bad surface are also minimized.

Thanks to the **two step/double chamber system and the large screen surface and granulation chamber** the recycling plants produce from waste production, cut-offs from block production or even from used EPS and EPP/EPE mouldings, a **high quality recycled material, which contains a minimum of dust**.

The KBM **STYROMIX** System is designed to obtain a more accurate metering and mixing of recycled EPS or EPP materials to the new EPS or EPP beads directly before each individual moulding machine (mounted on or close to each machine).

The KBM **STYROMETER** Mixing station is designed to meter and mix the recycled and new EPS material together right before the block mould to minimize segregation. In the same way it can be used to fill pre-pressurizing tanks with recycled and new EPP material mixed in an accurate ratio.

New

Technical Data

| The specifications for all recycling systems are given by recycling EPS | MICRO IN-A-BOX | MINI IN-A-BOX | MINI | MAXI | JUMBO |
|--|--|---|---|---|--|
| Capacity | | | | | |
| Granulated and dedusted EPS material (shape) (6mm screen) ²⁾ | 2-3 m ³ /h 70-105 ft ³ /h | 6-8 m ³ /h 210-280 ft ³ /h | 6-8 m ³ /h 210-280 ft ³ /h | 10-12 m ³ /h 350-420 ft ³ /h | 15-20m ³ /h 525-700 Ft ³ /h |
| Granulated and dedusted EPS Material (block) (10mm screen) ²⁾ | 4-6m ³ /h 140-210 ft ³ /h | 9-10m ³ /h 315-350 ft ³ /h | 9-10m ³ /h 315-350 ft ³ /h | 18-20m ³ /h 630-700 ft ³ /h | 35-40m ³ /h 1225-1400 ft ³ /h |
| Granulated de dusted EPP material. | 20-50kg/h 44-110 Lbs/h | 60-100kg/h 130-220 Lbs/h | 60-100kg/h 130-220 Lbs/h | 100-160 kg/h 220-350 Lbs/h | 1) 1) |
| Measurements | | | | | |
| Hopper opening: Pre crusher/ granulator. (mm/inch) | 780x400 30x15" | 900x600 36x24" | 900x600 36x24" | 1400x600 56x24" | 1800x800 72x31" ³ |
| Granulator Screen surface: | 0,2 m ² 2 ft ² | 0,9 m ² 9,7 ft ² | 0,9 m ² 9,7 ft ² | 1,4 m ² 15 ft ² | 2,4 m ² 26 ft ² |
| Floor space: (depending on the setup) | 4 m ² 42 ft ² | 6 m ² 65 ft ² | 12 m ² 120 ft ² | 16 m ² 160 ft ² | 40 m ² 400 ft ² |
| Electrical load | | | | | |
| Total for standard EPS (approx.) | 11,5kW | 19kW | 19kW | 36kW | 57kW |
| 1) Not available or not relevant. | | | | | |
| 2) Other options also available | | | | | |
| 3) Separate pre crusher only | | | | | |
| SUBJECT TO ALTERATIONS | | | | | |



← The STYROMIX mixing system for shape moulding.



→ The STYROMETER mixing system designed for the block mould or for filling EPP pre-pressurizing tanks

Leaflets with detailed information available for each product.

