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RECYCLING MICRO "IN-A-BOX"

A complete system to make moulded EPS/EPP/
EPE/NEOPOR/ARCEL etc. packagings and
insulation materials into individual beads ready to
be mixed with new beads to make new products.



EPP beads ready to
be recycled.



EPS beads ready to
be recycled



Neopor beads ready
to be recycled

Stand-alone unit.

Hopper opening:
780x400 mm



Optional
dust-compactor



MICRO
IN-A-BOX with
silo and high-
speed pre-
crusher to
reduce hours
and labour
costs.

Hopper
opening:
1000x600 mm



EPS / EPP / EPE / ARCEL / NEOPOR



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- If you need to treat EPS/EPP/EPE/NEOPOR/ARCEL pieces so they can be recycled in a production. Available in a standard version up to 30-40 Kg/M³ density and a high-density (HD) version up to over 70 Kg/M³.
- Perfect for the small moulder or the moulder who has a small production of other material (or colour) that should not be mixed with the general production.
- The only system on the market, where you have a pre-crusher/granulator, a dust separation unit, a cyclone venting, and an optional dust compactor built into one unit.
- Can be supplied both with or without a dust compactor.
- Optional external pre-crusher for high-speed pre-crushing to reduce labour costs by minimizing the hours required to feed the unit.
- Recycling by replacing new raw material is the best economical way, because you gain up to 85-95% of the material's original value.
- High rates of reusability. 10-20% of new material can be replaced by recycled beads in shape moulding (even more when using a KBM Styromix), and 20-50% or even 100% in block moulding - depending on the equipment available to mould.
- Whole pieces are pre-crushed and granulated into individual beads, the dust is separated, the beads are conveyed to a storage silo and the extracted dust is compacted. **ALL IN ONE BOX !**
- Makes individual beads with very little dust generated (which is removed) and the final product can be mixed into a production again to replace beads of new material.
- Very easy installation. Only connect the power and the ducting to the storage silo.
- Can easily be moved around by a forklift or similar.
- The outer parts can be taken off in a very short time and the recycling box can then be put on a truck or into a standard container for easy transportation where it fits in.
- Due to the unique KBM design of the granulator, only 5-15% EPS dust is generated when granulating to individual beads.
- The very efficient dust separation ensures that there is no production stops afterwards due to problems with blocked core vents.
- Unique low-maintenance cyclone venting system which ensures that you have sufficient venting for a good dust separation without a lot of venting bags to clean.

Technical Data:

Capacity/hour EPS :

(Standard version up to 30-40Kg/M³ EPS (2.5 Lbs/CuFt):
(Granulated and dust extracted EPS)

Granulated EPS (6mm screens): 2-3 m³ (70-105 ft³)
 (8mm screen light EPS): 3,5-5 m³ (120-175 ft³)
 (10mm screen light EPS): 4-6 m³ (140-210 ft³)

Capacity/hour EPP (HD version):
(Granulated and dust extracted EPP)

Screen with 5 mm holes (EPP): 20-50kg/h (44-110 lbs/h)

Optional external pre-crusher: 8-10 m³ (280-350 ft³)

Screen surface: 0.18 m² (1.8ft²)

Space required (stand-alone): approx. 5 m² (52 ft²)

Measurements: L x W x H

Fully mounted: 2.2 x 1.9 x 3.7 m (87x75x146")

Dismounted for transport: 2.2 x 1.9 x 2.35 m (87x75x93")

Hopper inlet height (from the floor): 1600 mm (63")

Storage silo (6): 2.0 x 2.0 x 6.0 m (80x80x240")
(Any size available)

Size Silo bag: 2.0 x 2.0 x 4.0 m (80x80x160")
(Any size available)
(approx. 17 m³/600 ft³)

Pipe connections: 160 mm (6")

Hopper opening: 780x400mm (30x15")

Re-useable EPS material after recycling: min. 85-95 %

Extracted EPS dust and fines: max. 5-15 %

Dust content after dust separation: max. 1 %

(Experienced by EPS granulated on a KBM granulator.)

Electrical load (at 50Hz):

Recycling "MICRO IN-A-BOX" (standard) 11,5 Kw

Recycling "MICRO IN-A-BOX" with dust compactor 13 Kw

Recycling "MICRO IN-A-BOX" (HD version) 14,5 Kw

Recycling "MICRO IN-A-BOX" (HD) with dust compact. 16 Kw

Voltage: 3x400V/50Hz, 3x480V/60Hz or other voltages.

How to reuse in practice:

Use the KBM Styromix mixing unit to make a very accurate mixing directly before the moulding machine. It is very easy to operate and increases the mixed ratio possible by avoiding de-mixing of new and recycled material.

