

www.kbm.dk



RECYCLING MICRO "IN-A-BOX"

A complete system to make moulded EPS/EPP/
EPE/NEOPOR/ARCEL etc. packagings and insula-
tion 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



MICRO
IN-A-BOX with
silo and high-
speed pre-
crusher to
reduce hours
and labour
costs. Hopper
opening:
1000x600 mm

Optional
dust-compactor



EPS / EPP / EPE / ARCEL / NEOPOR



KBM APS
DK 3400 HILLERØD
TLF.+45 4826 8090
Homepage: www.kbm.dk

VØLUNDSVEJ 13
DENMARK
FAX.+45 4826 8016
e-mail: kbm@kbm.dk



- **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 35-40 Kg/M³ density and a high-density (HD) version up to over 120 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 reducing the hours required to feed the unit.
- To recycle by replacing new raw material is the **best economical way**, because you gain up to 85-95% of the original value of the raw material.
- **High rates of reusability.** With shape material 10-20% can normally be reused without any problems. (even more when using a KBM Styromix) and 20-50% or even 100% by block - 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 used to mix 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 now 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 by 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 35-40Kg/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 granulation 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" (High Density 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 on the moulding machine. Increases the mixed ratio possible by avoiding de mixing of new and recycled material and is very easy to operate.

