

Technical Data sheet

DUST SEPARATION UNITS

KBM DE-DUSTERS INCREASE QUALITY AND PRODUCTIVITY

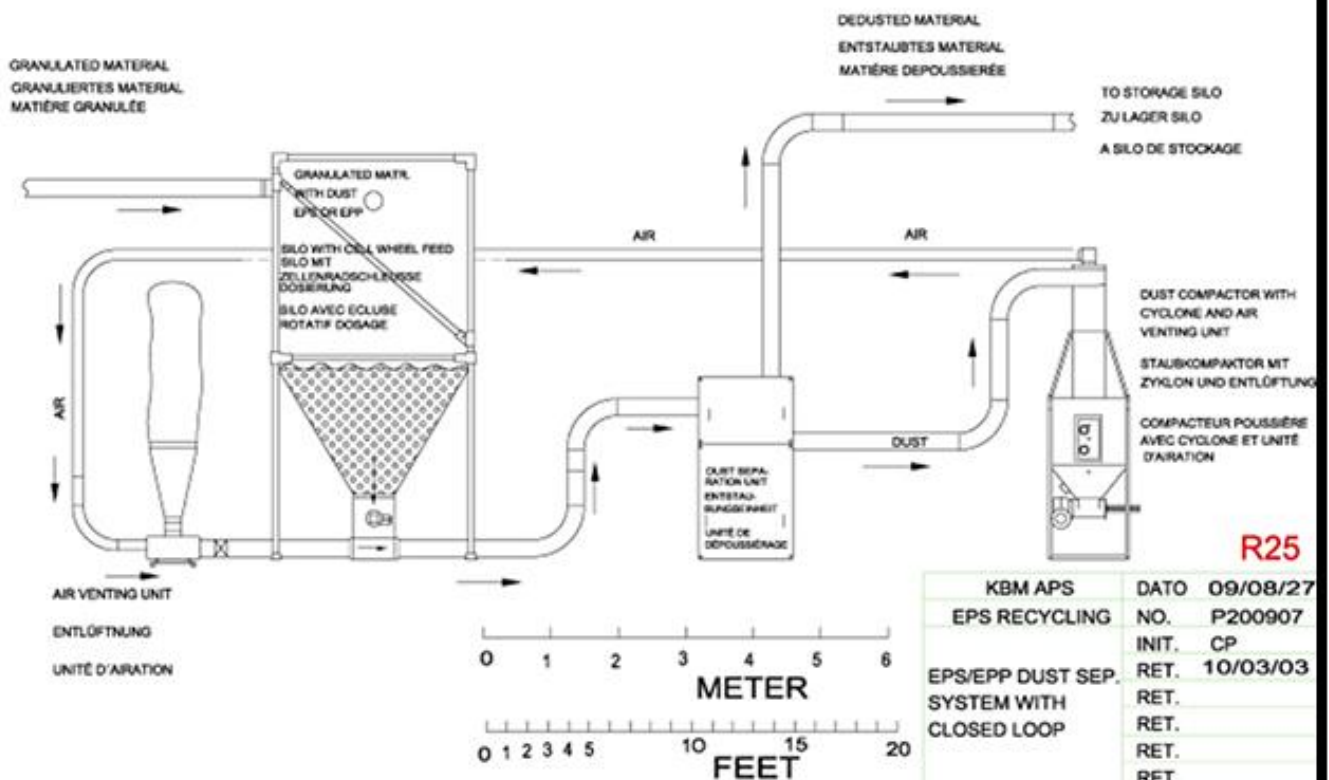


Traditionally, de-dusting has been used to prepare foam materials from granulation/grinding - to ensure that it was possible to mix with new beads before the moulding process.

KBM has supplied these solutions since 1978 and has developed different equipment to refine this process in order to obtain the optimal de-dusting quality.

Today, it is often necessary to de-dust in other steps of the moulding process. The raw material (virgin beads) is often full of small particles and fine dust, and it is very important that these particles are removed before the moulding process.

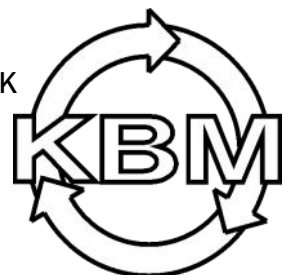
PRINCIPLE FOR MINI/MAXI/JUMBO SYSTEM



KBM APS | VOELUNDSVEJ 13 | 3400 HILLEROED | DENMARK

Phone +45 4826 8090 / www.kbm.dk / kbm@kbm.dk

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De-dusting is essential to:

- 1) Increase the quality of the moulded pieces (shape moulding or block moulding).
- 2) Avoid production stops caused by dust sticking to the moulds and resulting in heavy maintenance.
- 3) Increase the rate of recycled material that can be added and re-used.

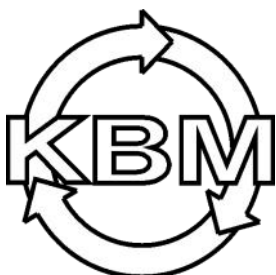
For many years KBM has been manufacturing the MINI, MAXI and JUMBO recycling systems with vacuum de-dusters. These products have capacities of 10 m³/h, 18-20m³/h and 35-40 m³/h. Lately, a larger version, JUMBO+, was developed to give 50-60 m³/h. This unit has now been developed further into the GIGANT 120 and GIGANT 240 with capacities of 100-120 m³/h and 200-240 m³/h for the large block moulds.

As the capacity can variate from 10m³/h up to 240m³/h, KBM is able to supply de-dusting for all purposes. Recycled or virgin - or after the mixing process.

To keep the quality and efficiency high and maintenance of the de-dusting systems at a minimum, KBM has developed a cyclone venting system for the extracted dust. The cyclone removes the dust from the de-dusting air.

The collected dust is compacted to avoid large volumes of waste. The air is returned in a "closed loop" and re-used in the system instead of being vented through filter bags which requires a lot of maintenance.

Brand name	M ³ /Hour	cf ³ /Hour
MINI	8-10	280-350
MAXI	18-20	630-700
MAXI+	25-30	875-1050
JUMBO	35-40	1225-1400
JUMBO+	50-60	1750-2100
GIGANT 120	100-120	3500-4200
GIGANT 240	200-240	7000-8400



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