



Since 1971



RECYCLING SYSTEMS

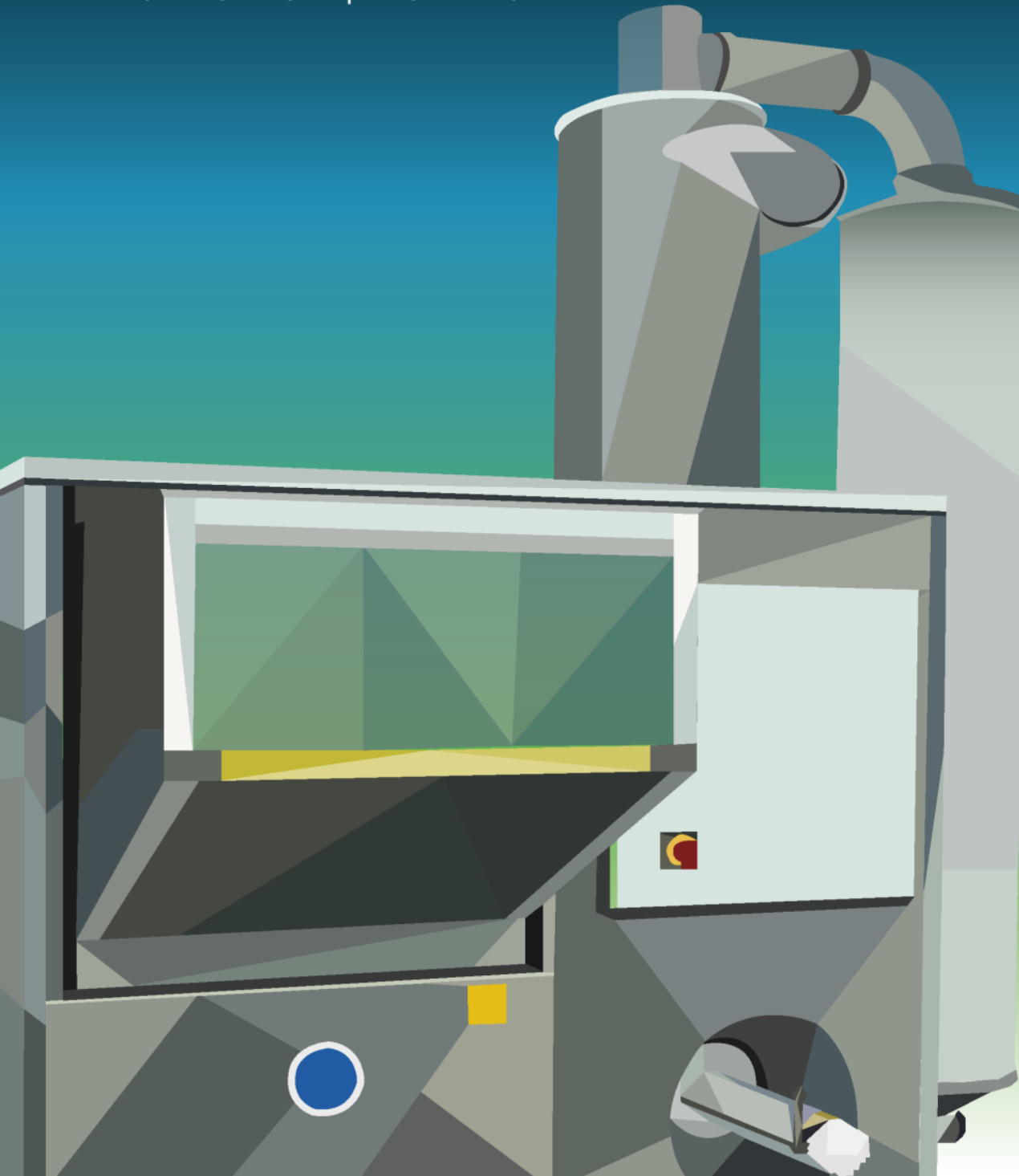
PRODUCT RANGE & TECHNICAL DATA

05-06-2025 | S21E | EN

MICRO | MINI | MAXI | JUMBO

High Performance Recycling Systems

For EPS | EPP | EPE | Neopor® | Arcel® | Piocelan®



FEEL THE BEAD



THE STORY OF KBM

A FAMILY COMPANY IN THE EPS INDUSTRY SINCE 1971



KBM ApS was founded in 1971

by the late Mr. Kjeld Bentzen and is today run by his son Mr. Michael Bentzen. Since the beginning, the company has been supplying the EPS industry with high quality machinery.

A few years later in 1975, the Injektorking Vario Injectors for EPS were developed, and in 1978 KBM developed the first real recycling plant for EPS; later the same systems were developed to be used for EPP and EPE.

Through out the years, KBM has designed recycling systems for companies of all sizes in the moulding industry. Combined crushers/compactors to handle post-consumer products of EPS, and mixing systems have also been added to the line of products.

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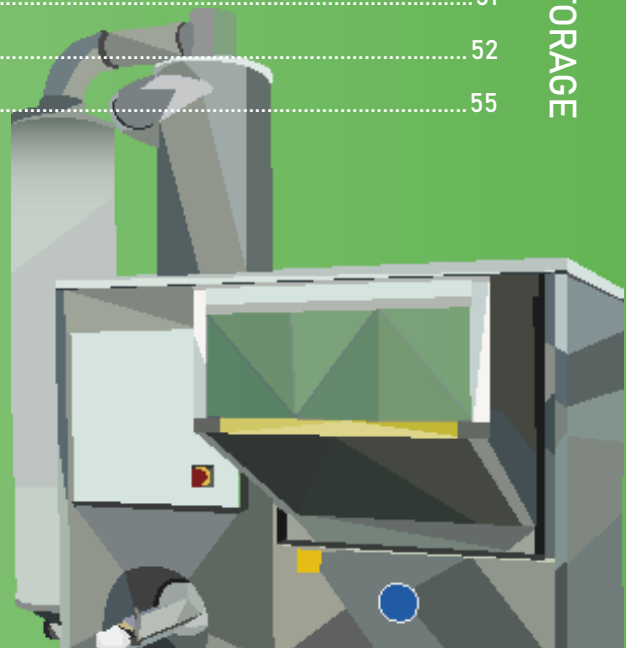
RECYCLING SYSTEMS

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MIXING & STORAGE





Technical Data sheet

OVERVIEW RECYCLING

FROM IN-A-BOX SOLUTIONS TO IN-LINE SYSTEMS

The specifications for all recycling systems are based on recycling of EPS

MICRO IN-A-BOX	MINI IN-A-BOX	MAXI IN-A-BOX	MAXI IN-A-BOX PLUS	MINI INLINE SYSTEM	MAXI INLINE SYSTEM	MAXI INLINE SYSTEM PLUS	JUMBO INLINE SYSTEM	JUMBO INLINE SYSTEM PLUS
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Capacity

SHAPE MOULDING

Granulated and dedusted EPS material on 6mm screen	2-3 m ³ /h 70-105 ft ³ /h	6-8 m ³ /h 210-280 ft ³ /h	14-18 m ³ /h 495-630 ft ³ /h	15-20 m ³ /h 530-700 ft ³ /h	6-8 m ³ /h 210-280 ft ³ /h	10-12 m ³ /h 350-420 ft ³ /h	15-20 m ³ /h 530-700 ft ³ /h	25-30 m ³ /h 880-1060 ft ³ /h	25-30 m ³ /h 880-1060 ft ³ /h
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BLOCK MOULDING

Granulated and dedusted EPS material on 10mm screen	4-6 m ³ /h 140-210 ft ³ /h	9-10 m ³ /h 315-350 ft ³ /h	18-20 m ³ /h 630-700 ft ³ /h	25-30 m ³ /h 880-1060 ft ³ /h	9-10 m ³ /h 315-350 ft ³ /h	18-20 m ³ /h 630-700 ft ³ /h	25-30 m ³ /h 880-1060 ft ³ /h	35-45 m ³ /h 1230-1590 ft ³ /h	50-60 m ³ /h 1760-2100 ft ³ /h
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HIGH DENSITY MOULDING

Granulated and dedusted EPP material or high density EPS	20-50 kg/h 44-110 Lbs/h	50-100 kg/h 110-220 Lbs/h	100-160 kg/h 220-350 Lbs/h	50-100 kg/h 110-220 Lbs/h	100-160 kg/h 220-350 Lbs/h	N/A	N/A
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Measurements

Hopper opening Pre-crusher/granulator	780x400mm m 30x15"	900x600mm m 36x24"	1400x600mm 56x24"	900x600 mm 36x24"	1400x600mm 56x24"	1800x800mm 72x31"
Granulator screen surface	0,2 m ² 2 ft ²	0,9 m ² 9,7 ft ²	1,4 m ² 15 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 required	5 m ² 52 ft ²	6 m ² 65 ft ²	16 m ² 160 ft ²	12 m ² 120 ft ²	16 m ² 160 ft ²	40 m ² 400 ft ²

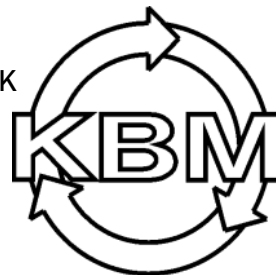
Electrical load

Standard EPS	11,5 kW	19 kW	36 kW	19 kW	36 kW	50 kW
EPP or high density EPS	14,5 kW	32 kW	53 kW	32 kW	53 kW	57 kW



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Technical Data sheet

SYSTEM CONFIGURATION

A version: Direct vertical material feeding
 B version: Direct horizontal material feeding
 C version: Direct vertical + feeding
 of precrushed material from silo
 D version: Feeding of pre-crushed material
 from silo placed above granulator
 E version: Feeding of pre-crushed material
 from silo placed next to granulator

	Micro-in-a-box - Version A	Micro-in-a-box - Version D	Mini-in-a-box - Version B	Mini-in-a-box - Version C	Maxi-in-a-box - Version B	Maxi-in-a-box - Version C	Mini-inline - Version A	Mini-inline - Version B	Mini-inline - Version C	Mini-inline - Version D	Maxi-inline - Version E	Maxi-inline - Version A	Maxi-inline - Version B	Maxi-inline - Version C	Maxi-inline - Version D	Jumbo-inline - Version E	Jumbo-inline - Version D
Capacity (Granulated material output):																	
0 - 5 m3/hour	●	●															
0 - 10 m3/hour			●	●			●	●	●	●	●						
0 - 20 m3/hour PLUS-version 0 - 30 m3/hour					●	●					●	●	●	●	●		
0 - 40 m3/hour PLUS-version 0 - 60 m3/hour																●	
Capacity by weight (EPP + HD versions only!)																	
0 - 50 kg/hour	●	●															
0 - 100 kg/hour			●	●			●	●	●	●	●						
0 - 160 kg/hour					●	●					●	●	●	●	●		
Regular EPS/Graphite EPS	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
High density EPS/HD Graphite EPS/Regular EPP	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Arcel/Bio/Piocelan	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
High density EPP			●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Built-in pre-crusher	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Separate pre-crusher required/optional		●		●	●	●	●	●	●	●	●	●	●	●	●	●	●
Feeding pre-crushed material from cutting line		●		●	●	●	●	●	●	●	●	●	●	●	●	●	●
Heavy-parts filter for pre-crushed material		●		●	●	●	●	●	●	●	●	●	●	●	●	●	●
Separate transport blower for pre-crusher required/optional		●		●	●	●	●	●	●	●	●	●	●	●	●	●	●
Silo for pre-crushed material required/optional		●		●	●	●	●	●	●	●	●	●	●	●	●	●	●
Built-in granulator	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Separate granulator										●	●				●	●	●
Screen sizes available:																	
4 mm	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
4,5 mm	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
5 mm	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
6 mm	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
8 mm	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
10 mm	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
12 mm	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Built-in de-dusting unit	●	●	●	●	●	●											
Separate de-dusting unit							●	●	●	●	●	●	●	●	●	●	●
Built-in dust compactor with cyclone	●	●	●	●	●	●											
Separate dust compactor - with air venting bags (optional)							●	●	●	●	●	●	●	●	●	●	●
- with air cyclone (optional)							●	●	●	●	●	●	●	●	●	●	●
Recommended mixing system:																	
Styromix 3 (shape moulding)	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲
Styrometer Mini (shape & block moulding)			▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲
Styrometer Maxi (block moulding)					▲	▲					▲	▲	▲	▲	▲	▲	▲
Styrometer Jumbo (block moulding)											▲	▲	▲	▲	▲	▲	▲
Styrometer Gigant (block moulding)											▲	▲	▲	▲	▲	▲	▲

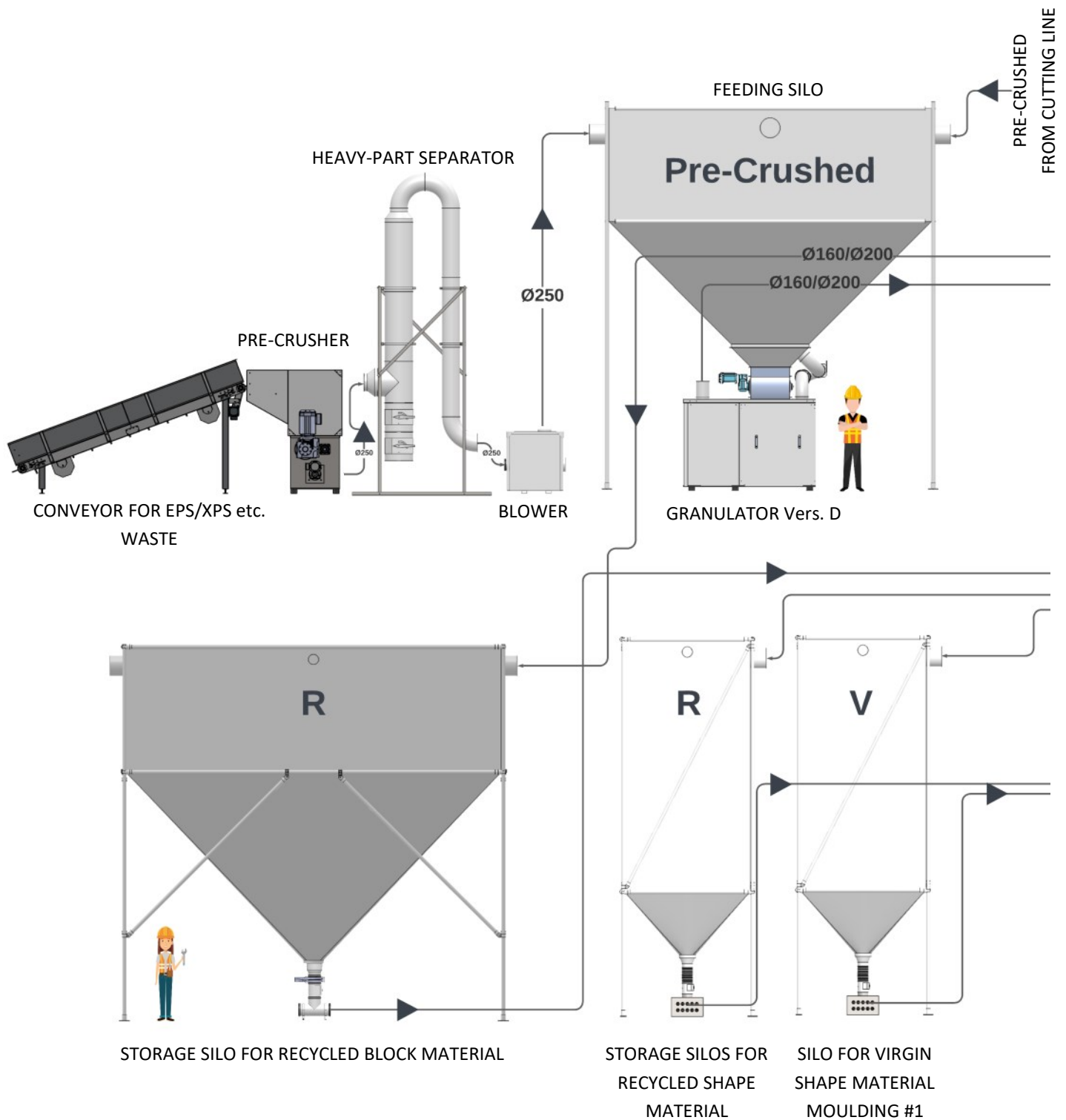
- Available system/function/unit
- Require high density version
- May be required or optional depending on customer requirement
- ▲ Recommendation but other combinations can be applied



Technical Data sheet

SYSTEM CONFIGURATION

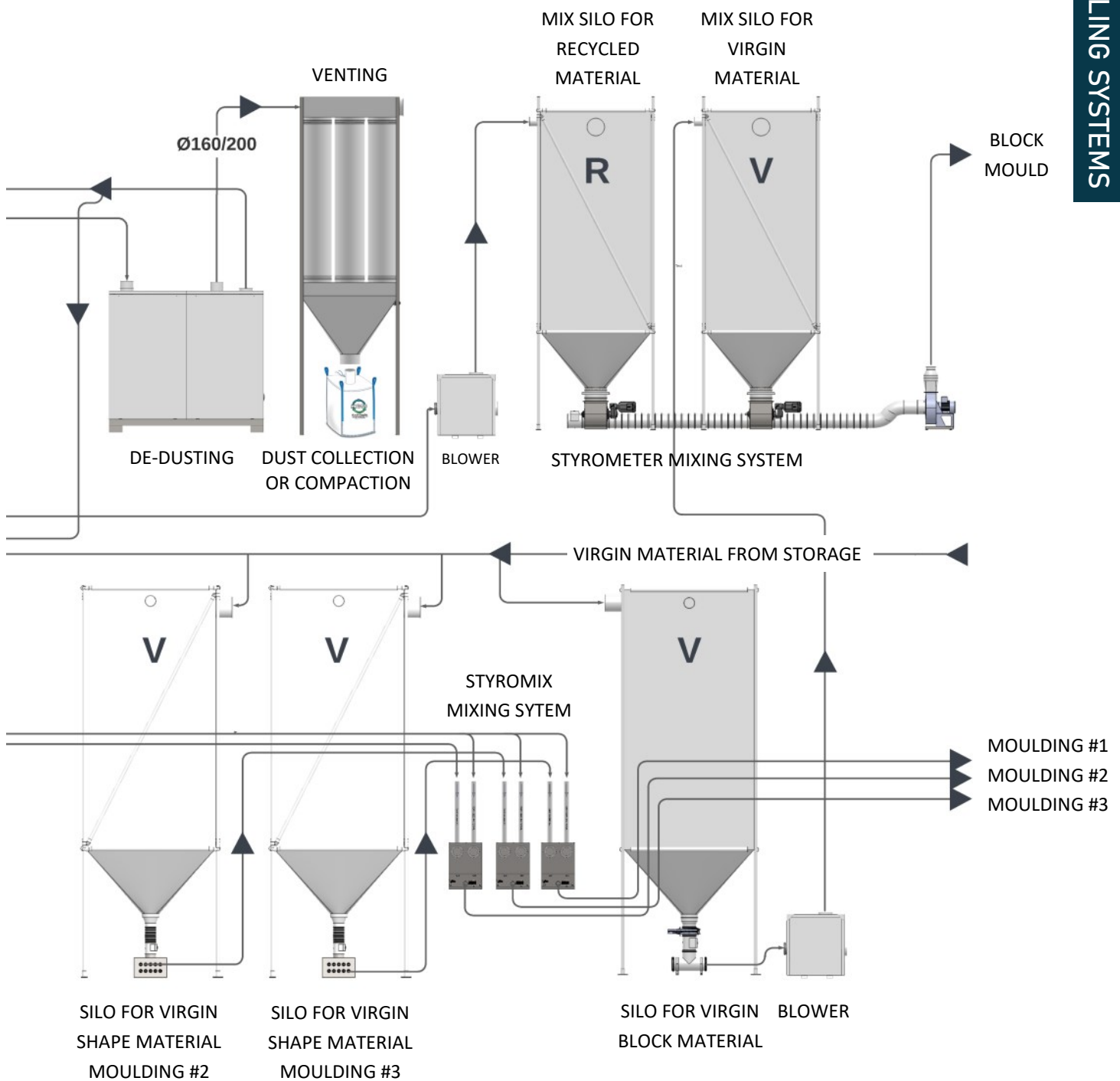
UNDERSTANDING THE PRINCIPLES OF KBM RECYCLING



Technical Data sheet

SYSTEM CONFIGURATION

UNDERSTANDING THE PRINCIPLES OF KBM RECYCLING





Technical Data sheet

MICRO-IN-A-BOX

COMPLETE RECYCLING SYSTEM - 5 M³/HOUR CAPACITY

Brand name KBM MICRO-IN-A-BOX	A complete system to convert moulded EPS, EPP, EPE, ARCEL®, NEOPOR®, PIOCELAN® packaging and insulation materials into individual beads ready to be mixed with virgin beads to mould new products.	
Material	Cabinet is made of galvanized steel.	
Density range	Standard EPS version < 35-40 Kg/m ³ (< 2,2-2.5 lb/ft ³) High density version (HD) < 70 Kg/m ³ (< 4.4 lb/ft ³)	
Capacity by volume (Granulated EPS)		
6mm screen	2-3 m ³ per hour (70-105 ft ³ /hour)	
8mm screen	3,5-5 m ³ per hour (120-175 ft ³ /hour)	
10mm screen	4-6 m ³ per hour (140-210 ft ³ /hour)	
Capacity weight (EPP+HD EPS) 5mm screen	20-50 Kg per hour (44-110 lb/hour)	
Screen surface	0.18 m ² (1.8 ft ²)	
Space required (without optional pre-crusher)	5 m ² (52 ft ²)	
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")	
Silo for pre-crushed material installed on top of the system	2.4 x 1.8 x 6 m (96x72x240") (14 m ³)	
Storage silo (optional) Pipe connections	Any size available 160 mm (6")	
Hopper opening Hopper inlet height (from floor)	780 x 400 mm (30x15") 1600 mm (63")	
Estimated conserved material	Min. 85-95%	
Extracted dust & particles	Max 5-15%	
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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Technical Data sheet

MICRO-IN-A-BOX

COMPLETE RECYCLING SYSTEM - 5 M³/HOUR CAPACITY

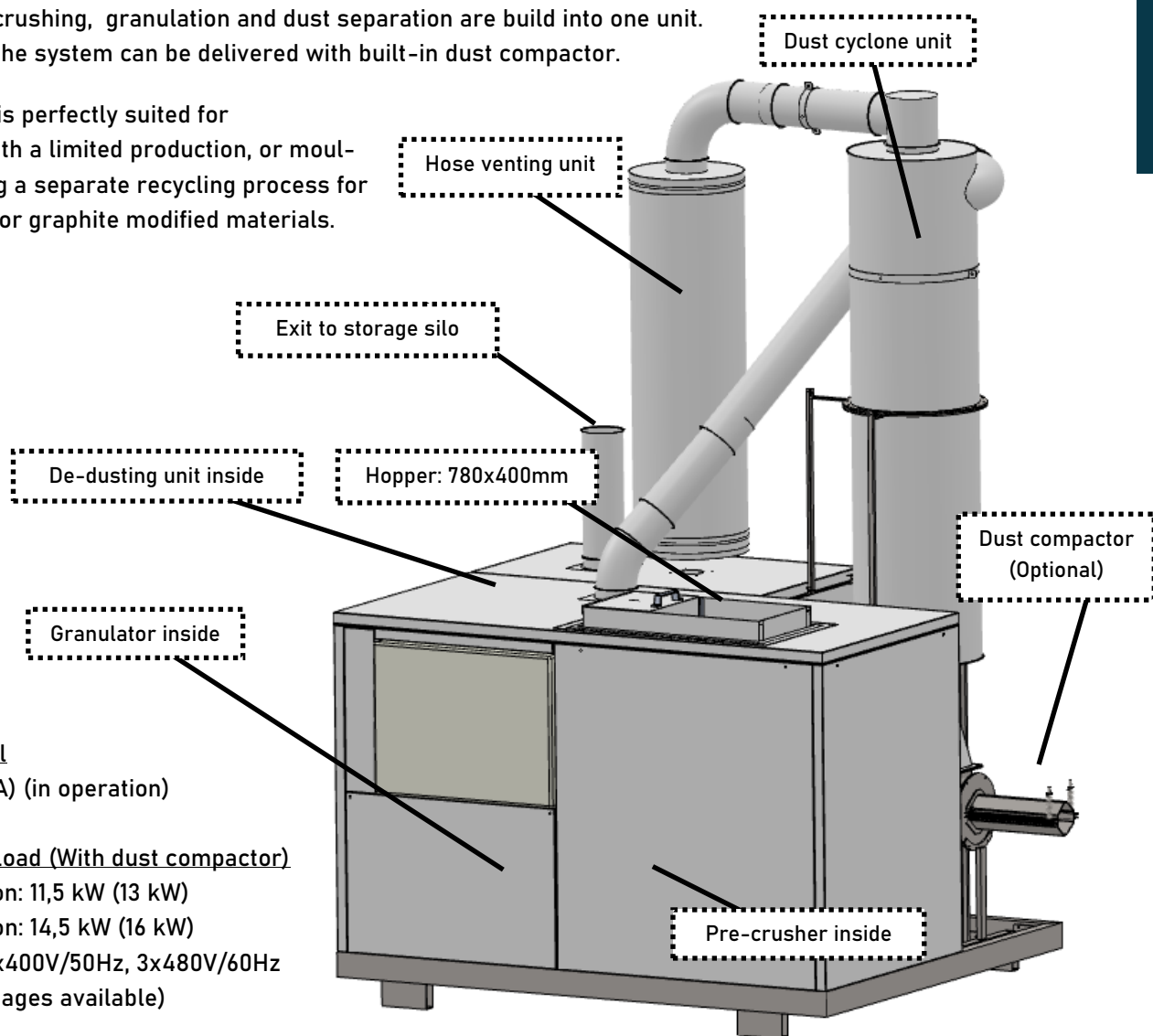
The KBM MICRO-IN-A-BOX complete recycling system is suited for processing EPS/EPP/EPE/NEOPOR/ARCEL. The system is available in 2 versions.

Standard version: Densities < 35-40 kg/m³

HD version: Densities < 70 kg/m³

The only system on the market (together with the KBM Mini-in-a-box and the KBM Maxi-in-a-box), where pre-crushing, granulation and dust separation are build into one unit. In addition, the system can be delivered with built-in dust compactor.

The system is perfectly suited for moulders with a limited production, or moulders wanting a separate recycling process for e.g. colored or graphite modified materials.



Noise level

90-95 dB(A) (in operation)

Electrical load (With dust compactor)

EPS version: 11,5 kW (13 kW)

EPP version: 14,5 kW (16 kW)

Voltage: 3x400V/50Hz, 3x480V/60Hz

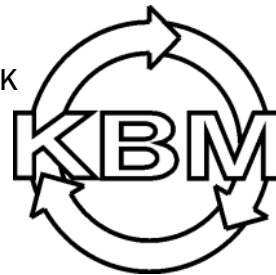
(Other voltages available)



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Technical Data sheet

MICRO-IN-A-BOX

COMPLETE RECYCLING SYSTEM - 5 M³/HOUR CAPACITY

Investing in a KBM recycling system, enables you to gain a 85-95% value on your EPS/EPP scrap material.

High mixing ratios: Add up to 10-20% of recycled material into shape moulding applications and 20-50% in block moulding without de-mixing problems.

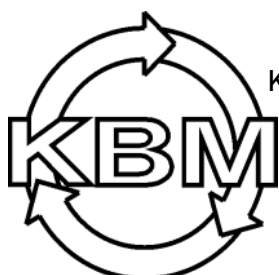
The system generates individual beads from the scrap moulded parts, dust free and ready to be re-inserted into your production.

A unique design of the granulator and a special process limit the amount of dust and particles to only 5-15%

Very easy installation: Only connect the power and ducting to the silo and pre-crusher. The system can easily be moved around with a forklift, providing great flexibility.

Efficient dust removal means very few production stops due to problems with the blocking of the core vents in your molding machines. Wire-skips on the cutting-line are also prevented.

Styrocrusher MAXI XL (optional)
Capacity: 8-10 m³ /hour (280-350 ft³)
Hopper opening: 1400 x 560mm
4' 8" X 1' 10"



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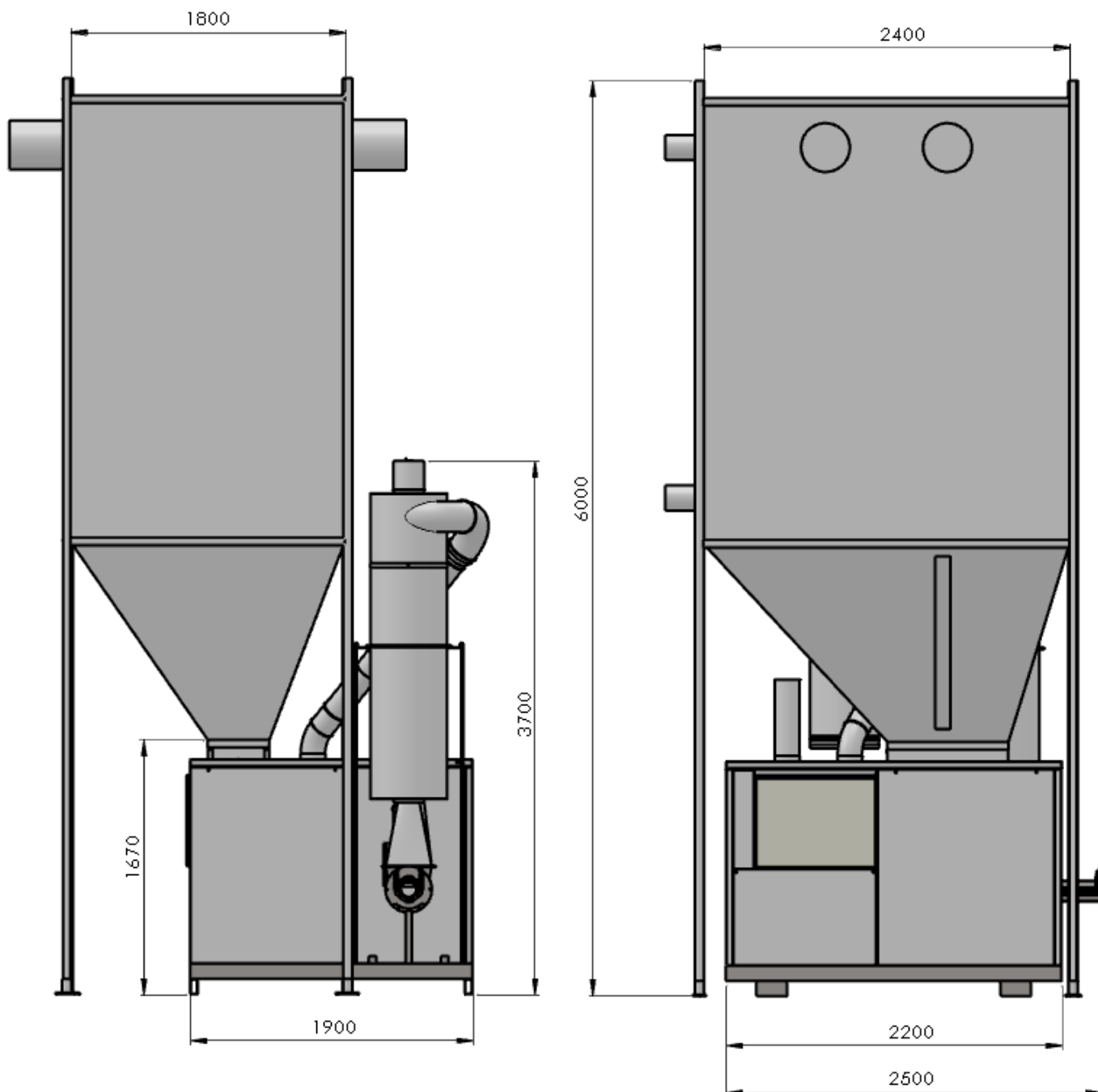
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MICRO-IN-A-BOX

COMPLETE RECYCLING SYSTEM - 5 M³/HOUR CAPACITY



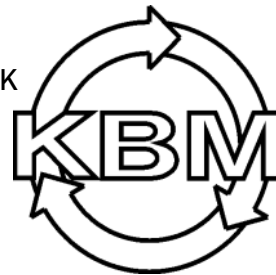
MICRO IN-A-BOX



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Technical Data sheet

MINI-IN-A-BOX

COMPLETE RECYCLING SYSTEM - 10 M³/HOUR CAPACITY

Brand name: KBM MINI-IN-A-BOX	A complete system to convert moulded EPS, EPP, EPE, ARCEL®, NEOPOR®, PIOCELAN® packaging and insulation materials into individual beads ready to be mixed with virgin beads to mould new products.	
Material	Cabinet is made of galvanized steel.	
Density range	Standard EPS version < 35-40 Kg/m ³ (< 2.2-2.5 lb/ft ³) High density version (HD) < 100-120 Kg/m ³ (<6.2-7.5 lb/ft ³)	
Capacity by volume (Granulated EPS)		
6mm screen	6-8 m ³ per hour (210-280 ft ³ /hour)	
10mm screen	9-10 m ³ per hour (315-350 ft ³ /hour)	
12mm screen	12-13 m ³ per hour (420-455 ft ³ /hour)	
Capacity weight (EPP + HD EPS)		
6mm screen	50-100 Kg per hour (130-220 lb/hour)	
Screen surface	0.9 m ² (9.7 ft ²)	
Space required (without optional pre-crusher)	6 m ² (65 ft ²)	
Measurements L x W x H		
Fully mounted	2.7 x 2.2 x 3.5 m (107x87x138")	
Dismounted for transport	2.3 x 2.2 x 2.3 m (91x87x91")	
Silo for pre-crushed material installed on top of the system (optional)	2.85 x 3 x 6 m (114x120x240") - (19 m ³)	
Storage silo (optional)	Any size available	
Pipe connections	160 mm (6")	
Hopper opening	900 x 600 mm (36x24")	
Hopper inlet height (from floor)	1600 mm (63")	
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
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MINI-IN-A-BOX

COMPLETE RECYCLING SYSTEM - 10 M³/HOUR CAPACITY

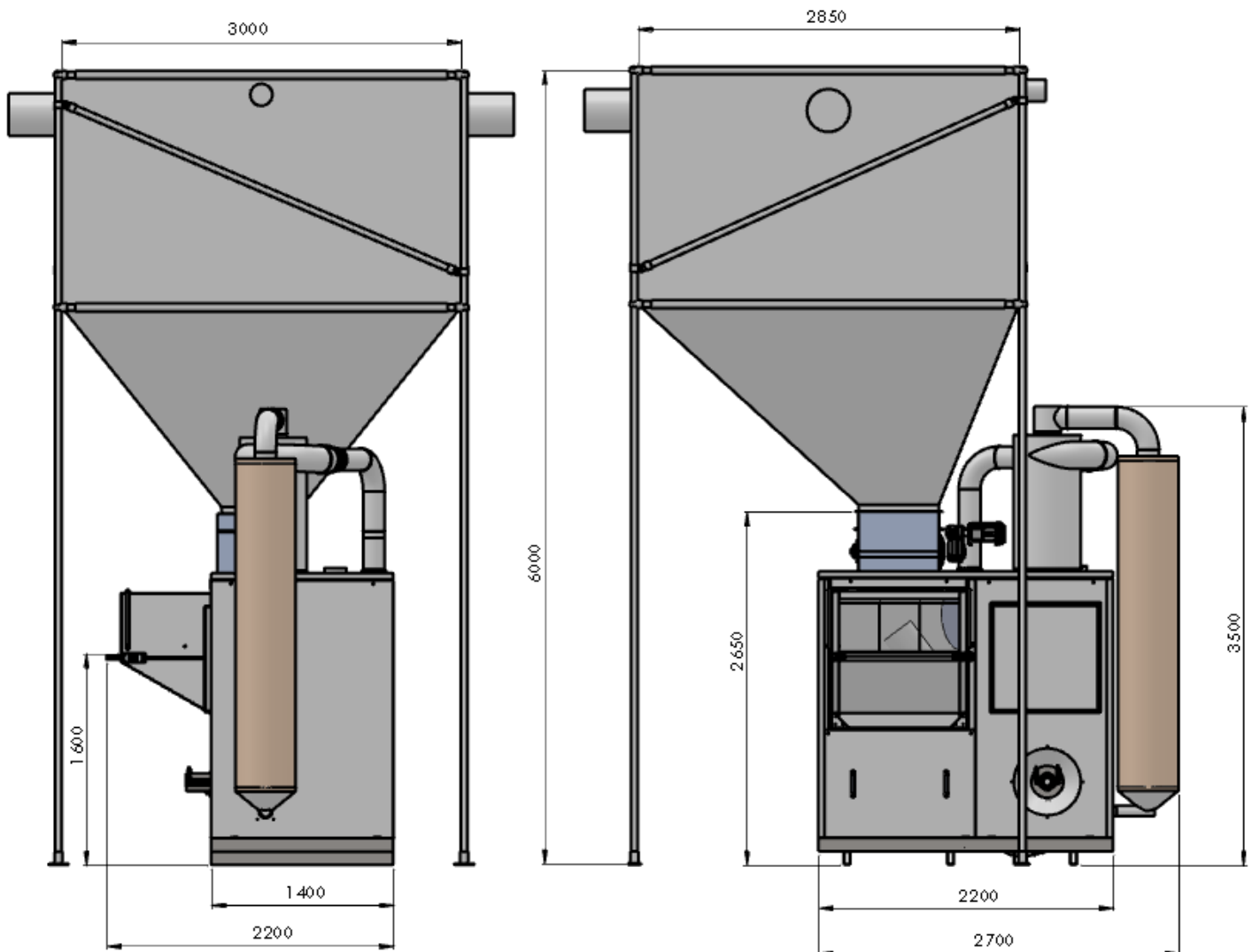
The KBM MINI-IN-A-BOX complete recycling system is suited for processing EPS/EPP/EPE/NEOPOR/ARCEL. The system is available in 2 versions.

Standard version: Densities < 35-40 kg/m³

HD version: Densities < 100-120 kg/m³

The only system on the market (together with KBM Micro-in-a-box and KBM Maxi-in-a-box), where pre-crushing, granulation and dust separation are build into one unit. In addition, the system comes with a built-in dust compactor.

The system is perfectly suited for both small and large shape moulders, as well as small block moulding plants with a limited production, or moulders wanting a separate recycling process for e.g. colored or graphite modified materials.





Technical Data sheet

MINI-IN-A-BOX

COMPLETE RECYCLING SYSTEM - 10 M³/HOUR CAPACITY

The KBM MINI-IN-A-BOX is build with a dust compactor as standard.

After de-dusting the granulated material, the dust is conveyed to the dust compactor.

The obtained compacted density is 150-300 kg/m³ (9-18lbs/ft³)



The hopper is sound insulated and covered with galvanized steel plates. The hopper is equipped with a strong plastic curtain for easy input of scrap. The low side of the hopper (yellow) is equipped with a safety string, which, in order to avoid any accidents, stops the machine if activated.

MINI-IN-A-BOX VERSION C

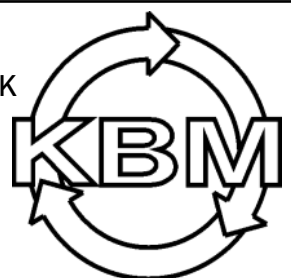
is build with a cell-wheel on top, for metering pre-crushed material. It feeds from a silo with pre-crushed material on top.

Suited for plants where you have external pre-crushers located in different locations. You can still feed the Mini-in-a-box manually from the side .



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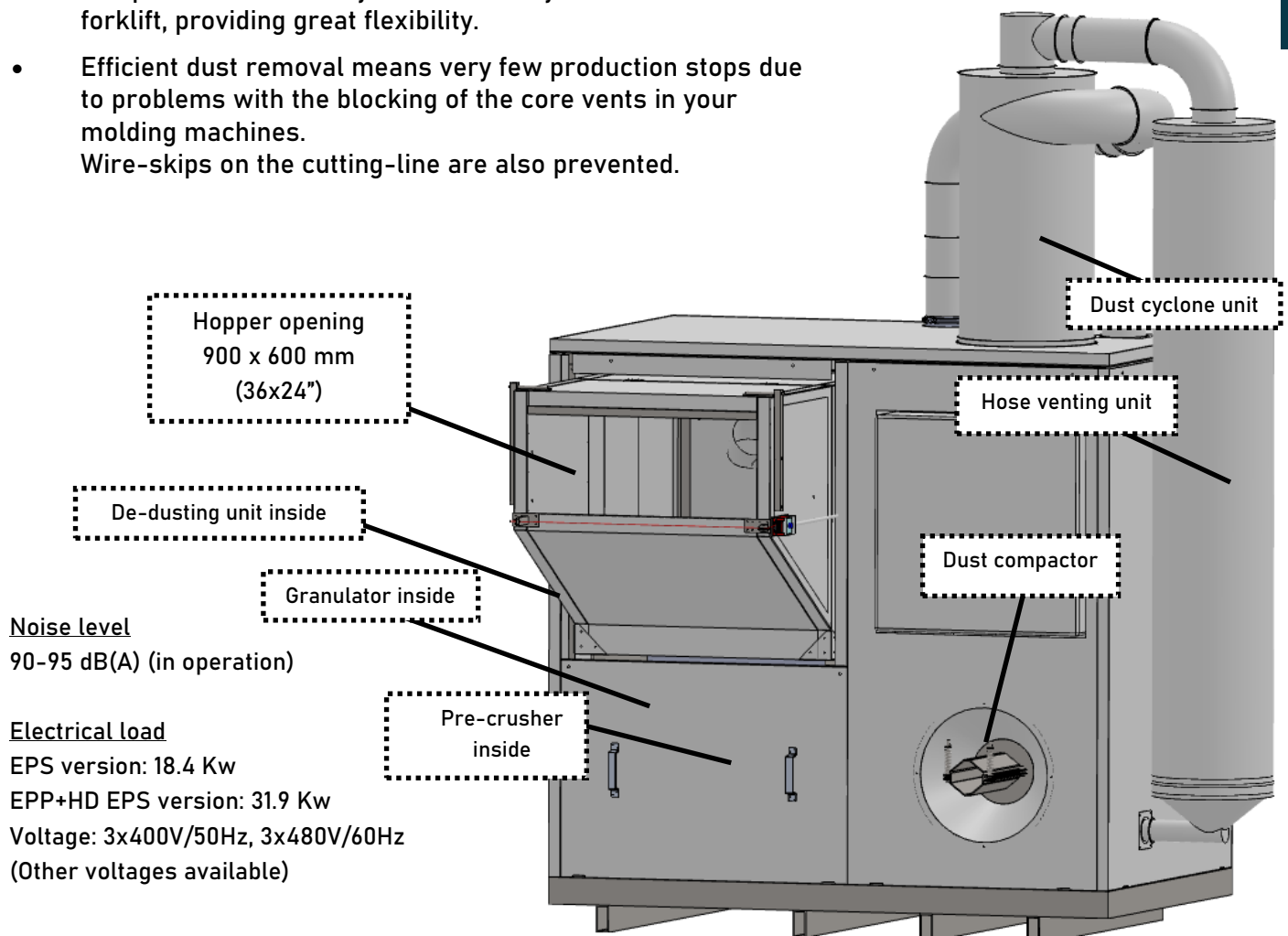
Technical Data sheet

MINI-IN-A-BOX

COMPLETE RECYCLING SYSTEM - 10 M³/HOUR CAPACITY

- Investing in a KBM recycling system, enables you to regain > 90% value on your EPS/EPP scrap material.
- High mixing ratios: Add up to 10-20% of recycled material into shape moulding applications and 20-50% in block moulding without de-mixing problems.
- The system generates individual beads from the scrap moulded parts, dust free and ready to be re-inserted into your production.
- A unique design of the granulator and a special proces limit the amount of dust and particles to only 5-7%.
- Very easy installation: Only connect the power and ducting to the silo and pre-crusher. The system can easily be moved around with a forklift, providing great flexibility.
- Efficient dust removal means very few production stops due to problems with the blocking of the core vents in your molding machines.
Wire-skips on the cutting-line are also prevented.

MINI IN-A-BOX



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Technical Data sheet

MAXI-IN-A-BOX

COMPLETE RECYCLING SYSTEM - 30 M³/HOUR CAPACITY

The KBM MAXI-IN-A-BOX complete recycling system is suited for processing EPS, EPP, EPE, ARCEL®, NEOPOR®, PIOCELAN®. The system is available in 2 versions.

Standard version: Densities < 35-40 kg/m³

HD version: Densities < 100-120 kg/m³

The only system on the market (together with KBM Micro-in-a-box and KBM Mini-in-a-box), where pre-crushing, granulation and dust separation are build into one unit. In addition, the system comes with a built-in dust compactor. The system is perfectly suited for both small and large shape moulders, as well as medium sized block moulding plants, or moulders wanting a separate recycling process for e.g. colored or graphite modified materials.

Noise level

90-95 dB(A) (in operation)

Electrical load

EPS version: 36 Kw

EPP+HD EPS version: 53 Kw

Voltage: 3x400V/50Hz, 3x480V/60Hz

(Other voltages available)



Technical Data sheet

MAXI-IN-A-BOX

COMPLETE RECYCLING SYSTEM - 30 M³/HOUR CAPACITY

Brand name: KBM MAXI-IN-A-BOX	A complete system to convert moulded EPS, EPP, EPE, ARCEL®, NEO-POR®, PIOCELAN® packaging and insulation materials into individual beads ready to be mixed with virgin beads to mould new products.	
Material	Cabinet is made of galvanized steel.	
Density range	Standard EPS version < 35-40 Kg/m ³ (< 2.2-2.5 lb/ft ³) High density version (HD) < 100-120 Kg/m ³ (<6.2-7.5 lb/ft ³)	
Capacity by volume (Granulated EPS)	STANDARD	PLUS
6mm screen	14-18m ³ /hour (495-630 ft ³ /hour)	15-20m ³ /hour (530-700 ft ³ /hour)
10mm screen	18-20m ³ /hour (630-700 ft ³ /hour)	25-30m ³ /hour (880-1060 ft ³ /hour)
Capacity weight (EPP + HD EPS)		
6mm screen	100-160 Kg per hour (220-350 lb/hour)	
Screen surface	1.4 m ² (15 ft ²)	
Space required (without optional pre-crusher)	16 m ² (160 ft ²)	
Measurements L x W x H		
Fully mounted	3.45 x 2.15 x 3.56 m (136x85x140")	
Dismounted for transport	2.95 x 2.15 x 2.3 m (116x85x91")	
Silo for pre-crushed material installed on top of the system (optional)	2.85 x 3 x 6 m (114x120x240") - (19 m ³)	
Storage silo (optional)	Any size available	
Pipe connections	160 mm (6")	
Hopper opening	1400 x 600 mm (56x24")	
Hopper inlet height (from floor)	1600 mm (63")	
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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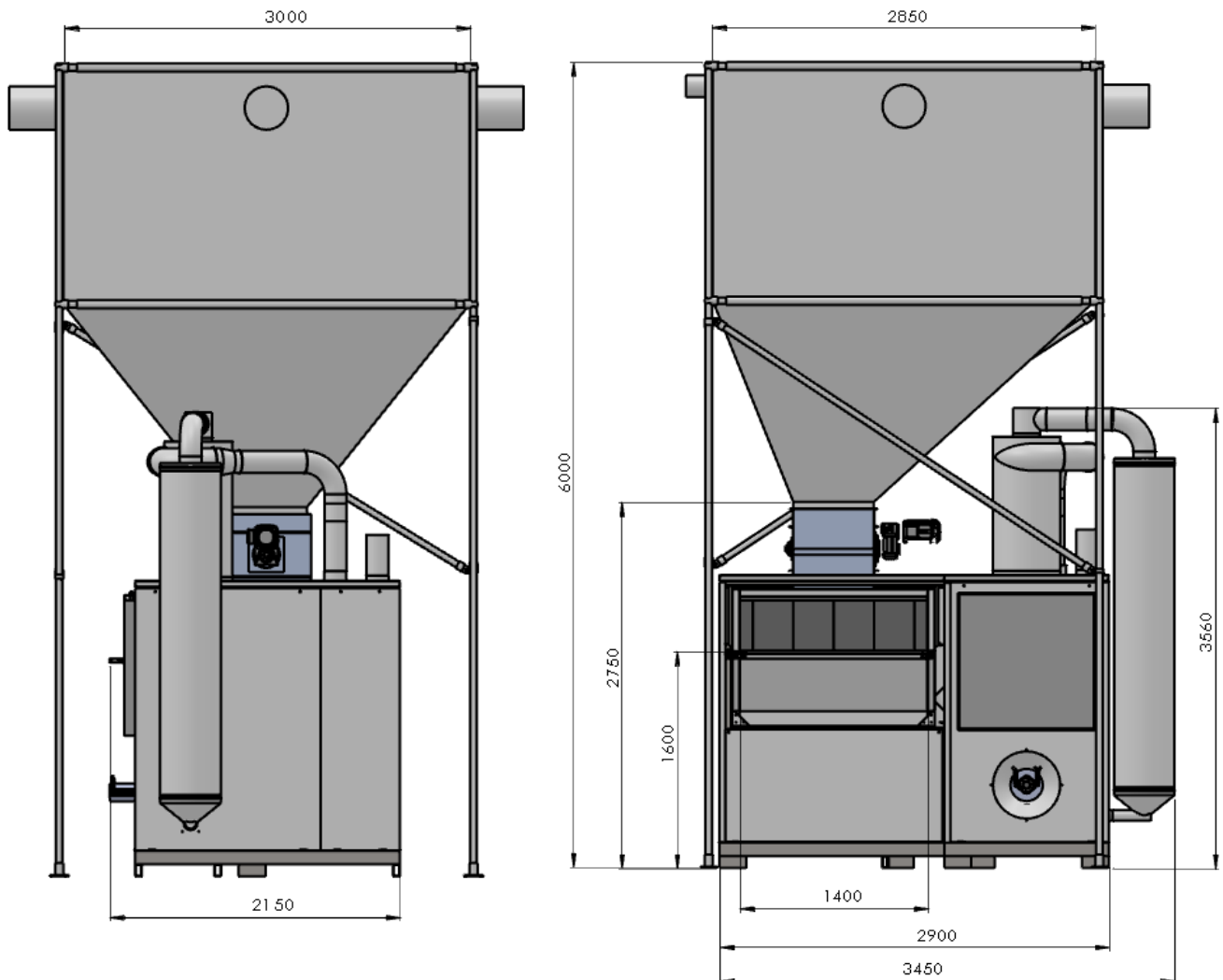


Technical Data sheet

MAXI-IN-A-BOX

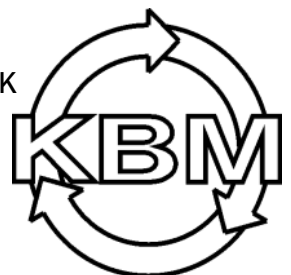
COMPLETE RECYCLING SYSTEM - 30 M³/HOUR CAPACITY

The hopper is sound insulated and covered with galvanized steel plates. The hopper is equipped with a strong plastic curtain for easy input of scrap. The low side of the hopper (yellow) is equipped with a safety string, which, in order to avoid any accidents, stops the machine if activated.



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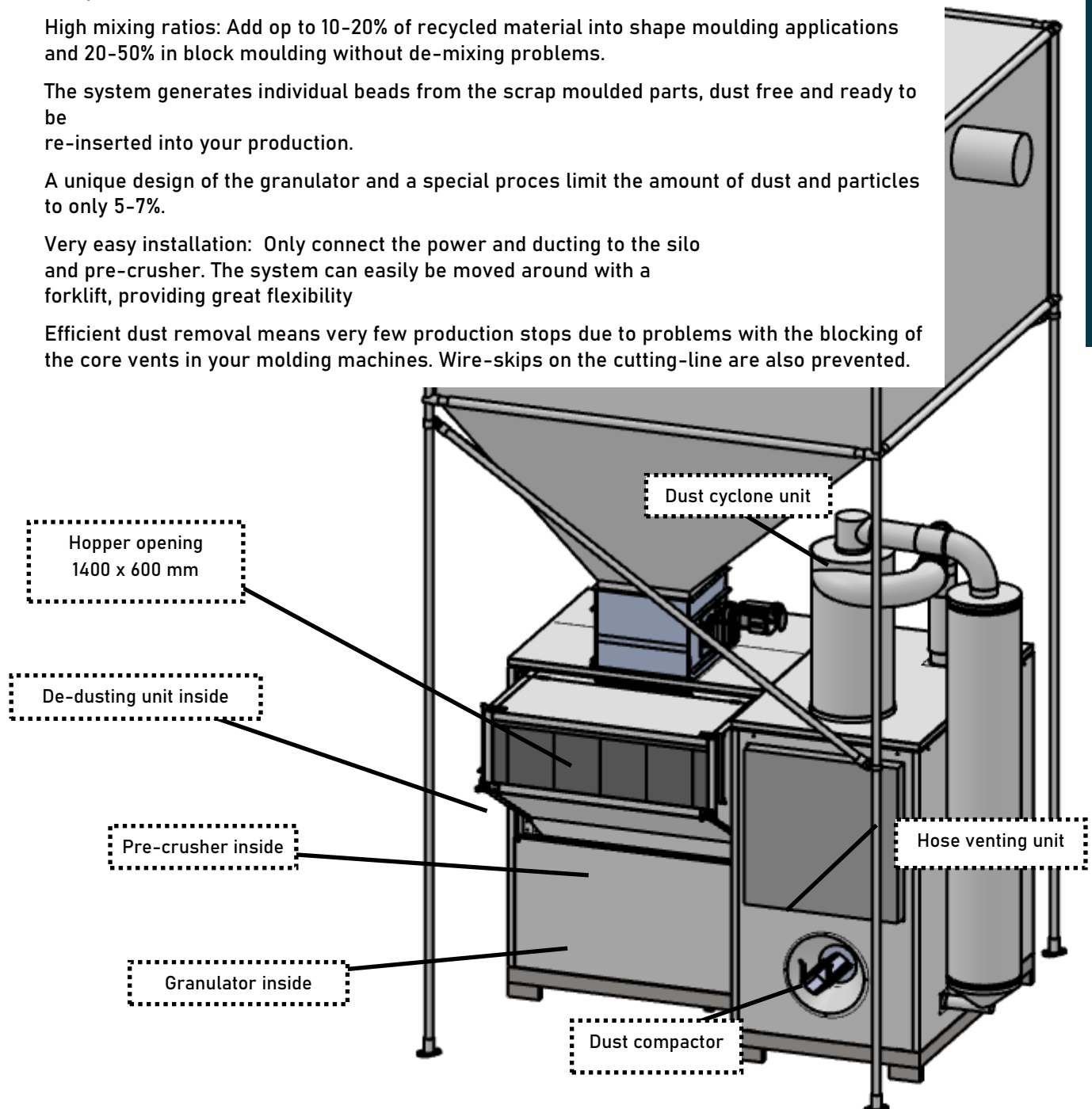


Technical Data sheet

MAXI-IN-A-BOX

COMPLETE RECYCLING SYSTEM - 30 M³/HOUR CAPACITY

- Investing in a KBM recycling system, enables you to regain > 90% value on your EPS/EPP scrap material.
- High mixing ratios: Add up to 10-20% of recycled material into shape moulding applications and 20-50% in block moulding without de-mixing problems.
- The system generates individual beads from the scrap moulded parts, dust free and ready to be re-inserted into your production.
- A unique design of the granulator and a special proces limit the amount of dust and particles to only 5-7%.
- Very easy installation: Only connect the power and ducting to the silo and pre-crusher. The system can easily be moved around with a forklift, providing great flexibility
- Efficient dust removal means very few production stops due to problems with the blocking of the core vents in your molding machines. Wire-skips on the cutting-line are also prevented.

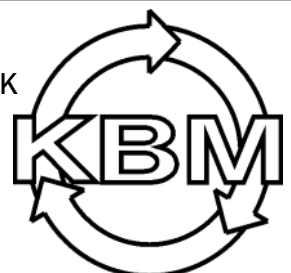


MAXI-IN-A-BOX



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Technical Data sheet

MINI RECYCLING IN-LINE

COMPLETE RECYCLING SYSTEM - 10 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 MINI recycling plant for EPS and EPP is suitable for small/medium shape moulding and small block moulding operations. Thanks to the two step/double chamber system and the large screen surface and granulation chamber, the MINI plant processes waste products, cut-offs from cutting lines and even used EPS and EPP/EPE mouldings, into high quality recycled material with a minimal content of dust.

MINI pre-crusher/Granulator
Version A
without noise hood



The recycled EPS and EPP material can be reused in shape moulding productions in a ratio of at least 10-20 % without any perceptible visual nor physical change in the product quality. For block moulding 20-50 % 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 MINI recycling plant consists of one combined pre-crushing and granulating unit (1), and a separate dust separating unit (2). Both units are sound insulated. After recycling the material, it's blown into a storage silo (6), a big bag made of antistatic fabric with a steel frame for easy assembling.

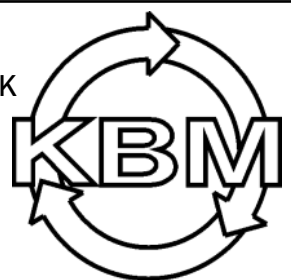
The dust is blown into the dust compactor (5), with air venting filter bags. The dust is collected in the lower part and is compacted into a octagonal rod with a density of 150-300 Kg/ m³ (9-18 lbs/ft³).

Efficient dust removal means very few production stops due to problems with the blocking of the core vents in your moulding machines. Wire-skips on the cutting-line are also prevented.



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Technical Data sheet

MINI RECYCLING IN-LINE

COMPLETE RECYCLING SYSTEM - 10 M³/HOUR CAPACITY

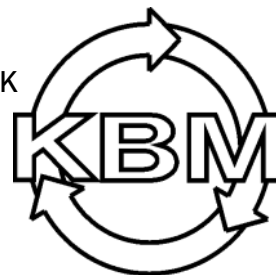
Brand name: KBM MINI RECYCLING IN-LINE	A complete system with individual units, for converting moulded EPS, EPP, EPE, ARCEL®, NEOPOR®, PIOCELAN® packaging and insulation materials into individual beads ready to be mixed with virgin beads to mould new products.	
Material	Cabinets are made of galvanized steel.	
Density range	Standard EPS version < 35-40 Kg/m ³ (< 2.2-2.5 lb/ft ³) High density version (HD) < 100-120 Kg/m ³ (< 6.2-7.5 lb/ft ³)	
Capacity by volume (Granulated EPS)		
6mm screen	6-8 m ³ per hour (210-280 ft ³ /hour)	
10mm screen	9-10 m ³ per hour (315-350 ft ³ /hour)	
12mm screen	12-13 m ³ per hour (420-455 ft ³ /hour)	
Capacity weight HD+EPP		
6mm screen	50-100 Kg per hour (130-220 lb/hour)	
Screen surface	0,9 m ² (9,7 ft ²)	
Space required	Approx. 12 m ² (120 ft ²)	
Measurements L x W x H		
Pre-crusher/Granulator (1)	1.5x1.1x2.5m(59x44x100")	
Dust separating unit (2)	1.35x1.05x2.45m(54x42x97")	
Dust compactor (3)	1.6x0.6x5.1m (64x24x204")	
Storage silo	Any size available	
Pipe connections	160 mm (6")	
Hopper opening	900 x 600 mm (36x24")	
Hopper inlet height (from floor)	A Version: 1800 mm (71") B Version: 1600 mm (63") C Version: 1800mm (71")	
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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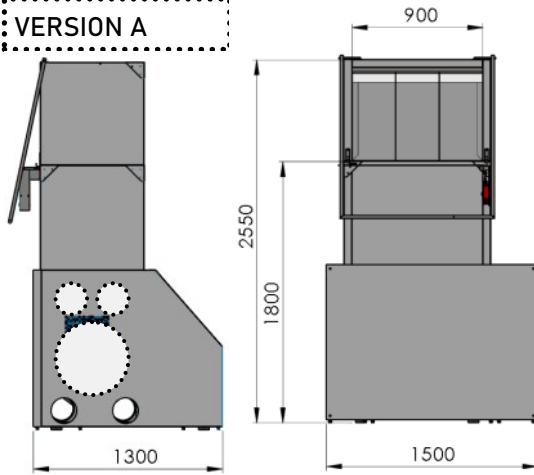


Technical Data sheet

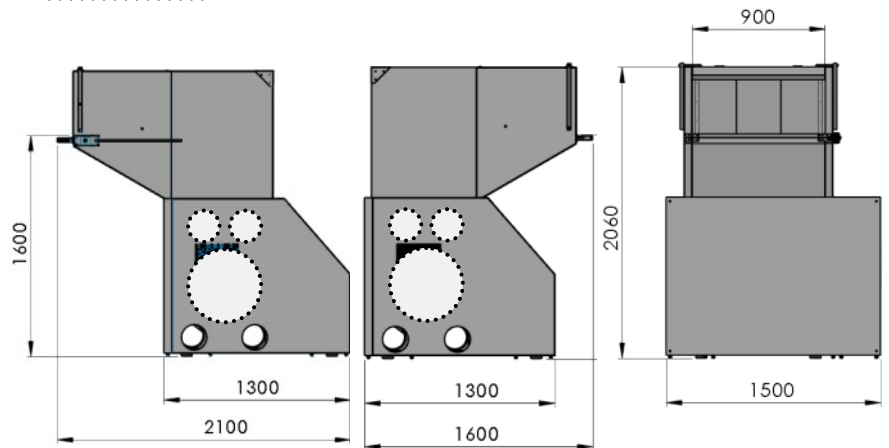
MINI RECYCLING IN-LINE

COMPLETE RECYCLING SYSTEM - 10 M³/HOUR CAPACITY

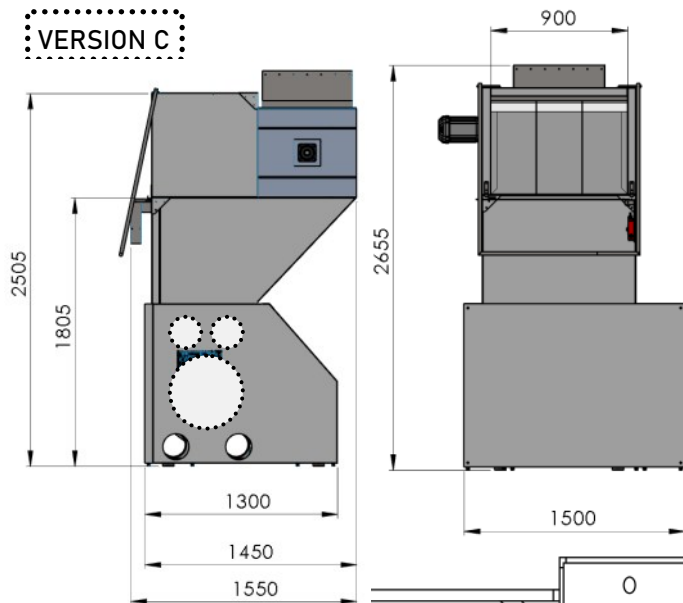
VERSION A



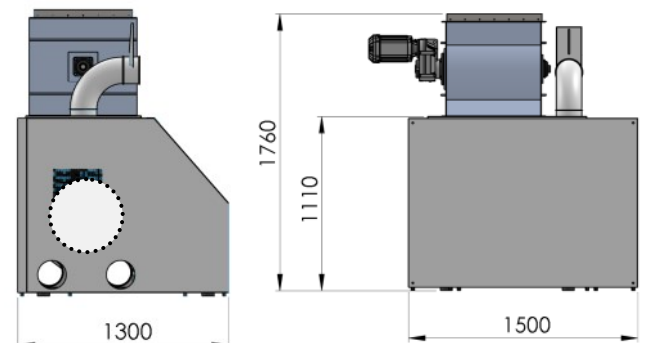
VERSION B



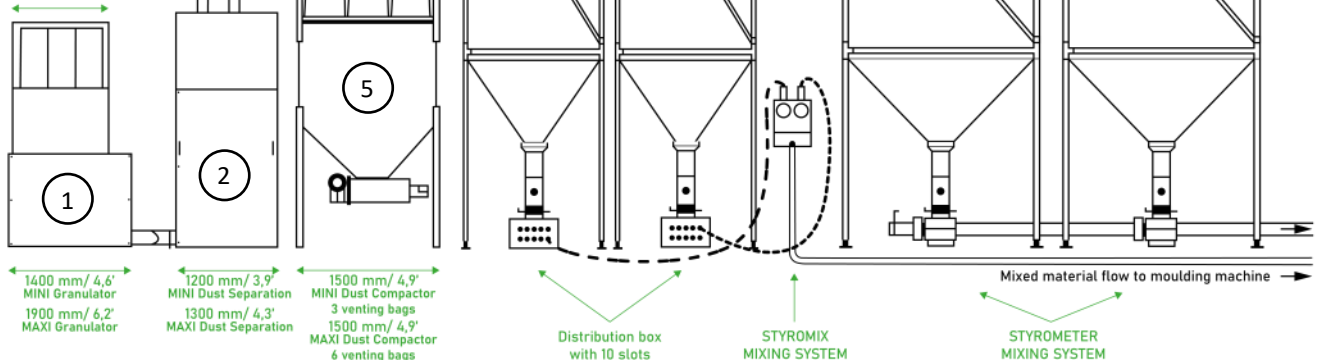
VERSION C



VERSION D



MINI HOPPER OPENING
900*600 mm/ 2,9*2,6'
MAXI HOPPER OPENING
1400*600 mm/ 4,6*2,6'



Technical Data sheet

MINI RECYCLING IN-LINE

COMPLETE RECYCLING SYSTEM - 10 M³/HOUR CAPACITY

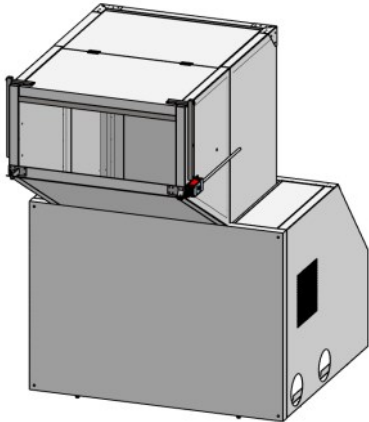
Brand name:

KBM MINI RECYCLING PLANT

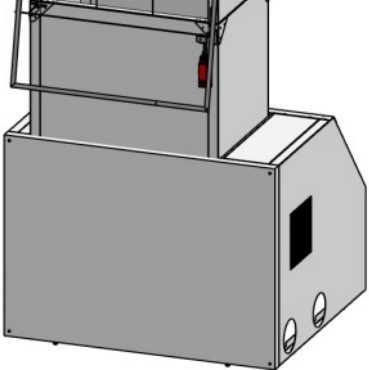
Electrical load	EPS version	EPP+HD EPS version
Pre-crusher/granulator	13,2 kW	26,0 kW
Dust separating unit	4,0 kW	4,0 kW
Dust compactor	1,5 kW	2,2 kW
Styrometer/Styromix	See page 48	See page 48

Voltage	3x400 V/50 Hz	3x400 V/50 Hz
	or other Voltages	or other Voltages

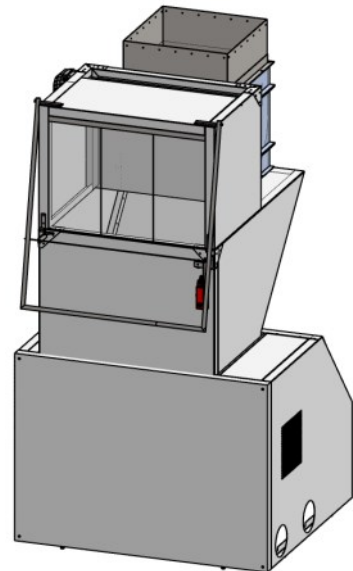
VERSION B/Granulator
+ Pre-crusher
With horizontal hopper
900x600cm/ (36x24")



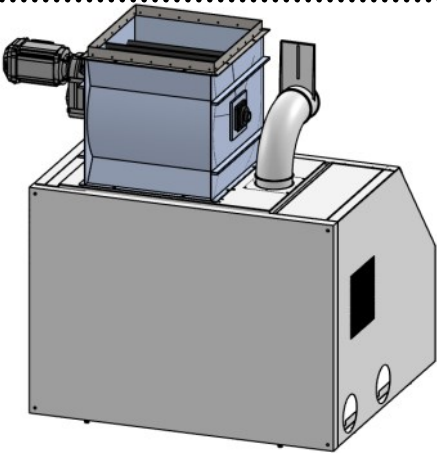
VERSION A/
Granulator
+ Pre-crusher
With vertical hopper
900x600cm/ (36x24")



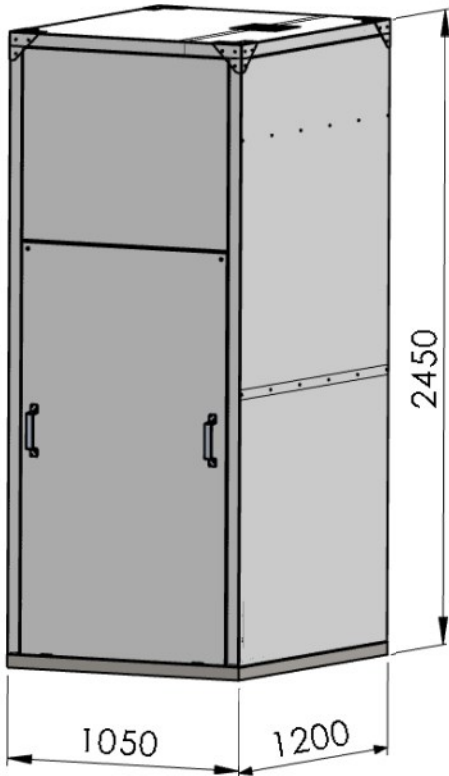
VERSION C/Granulator
+ Pre-crusher
With vertical hopper
900x600cm/ (36x24")
and dosing unit
for feeding silo



VERSION D/Granulator
900x600cm/ (36x24")
Without Pre-crusher
with dosing unit for feeding silo



MINI De-Dusting unit





Technical Data sheet

MAXI RECYCLING IN-LINE

COMPLETE RECYCLING SYSTEM - 30 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 MAXI recycling plant for EPS and EPP is suitable for medium/large shape moulding and block moulding operations. Thanks to the two step/double chamber system and the large screen surface and granulation chamber, the MINI plant processes waste products, cut-offs from cutting lines and even used EPS and EPP/EPE mouldings, into high quality recycled material with a minimal content of dust.

The recycled EPS and EPP material can be reused in shape

moulding productions in a ratio of at least 10-20 % without any perceptible visual nor physical change in the product quality. For block moulding 20-50 % 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 MAXI recycling plant consists of one combined pre-crushing and granulating unit (3), and a separate dust separating unit (4). Both units are sound insulated. After recycling the material, it's blown into a storage silo (6), a big bag made of anti-static fabric with a steel frame for easy assembling.

The dust is blown into the dust compactor (5), 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).

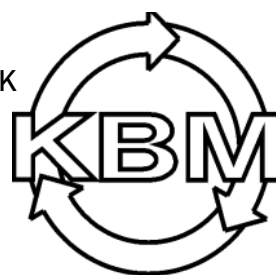
Efficient dust removal means very few production stops due to problems with the blocking of the core vents in your molding machines. Wire-skips on the cutting-line are also prevented.



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Technical Data sheet

MAXI RECYCLING IN-LINE

COMPLETE RECYCLING SYSTEM - 30 M³/HOUR CAPACITY

Brand name: KBM MAXI RECYCLING IN-LINE	A complete system with individual units, for converting moulded EPS, EPP, EPE, ARCEL®, NEOPOR®, PIOCELAN® packaging and insulation materials into individual beads ready to be mixed with virgin beads to mould new products.
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Material	Cabinets are made of sound insulated galvanized steel.
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Density range	Standard EPS version < 35-40 Kg/m ³ (< 2.2-2.5 lb/ft ³) EPP+High density (HD) < 80-100 Kg/m ³ (< 5-6.25 lb/ft ³)
---------------	---

Capacity by volume (Granulated EPS)	STANDARD	PLUS
6mm screen	14-18m ³ /hour (495-630 ft ³ /hour)	15-20m ³ /hour (530-700 ft ³ /hour)
10mm screen	18-20m ³ /hour (630-700 ft ³ /hour)	25-30m ³ /hour (880-1060 ft ³ /hour)

Capacity weight EPP + HD EPS 6mm screen	100-160 Kg per hour (220-350 lb/hour)
--	---------------------------------------

Screen surface	1,4 m ² (15 ft ²)
----------------	--

Space required	Approx. 16 m ² (160 ft ²)
----------------	--

Measurements L x W x H	
Pre-crusher/Granulator (3)	1.9x1.3x2.5 m(76x52x100")
Dust separating unit (4)	2.4x1.3x2.25 m(95x52x89")
Dust compactor (5)	1.6x1.1x5.1 m (64x24x204")
Storage silo (6)	Any size available
Pipe connections	160 mm (6")

Hopper opening	1400 x 600 mm (56x24")
Hopper inlet height from floor	A Version: 1800 mm (71") B Version: 1600 mm (63")

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

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



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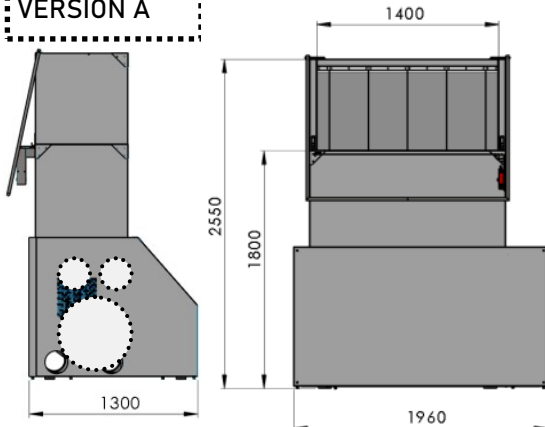


Technical Data sheet

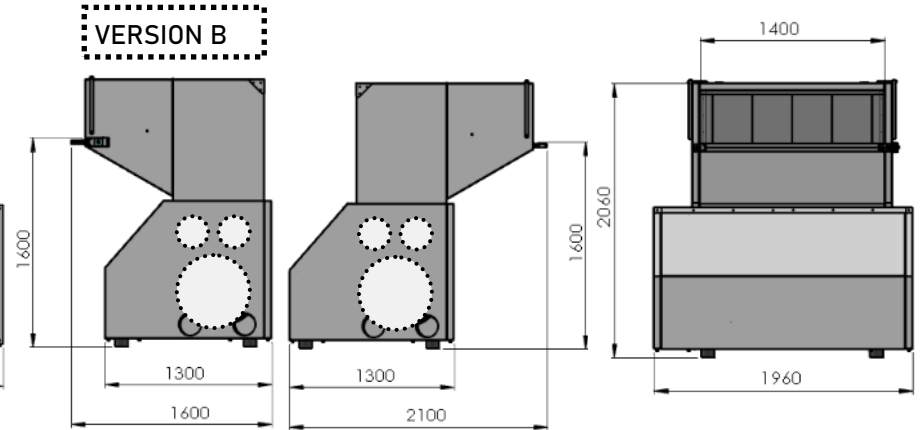
MAXI RECYCLING IN-LINE

COMPLETE RECYCLING SYSTEM - 30 M³/HOUR CAPACITY

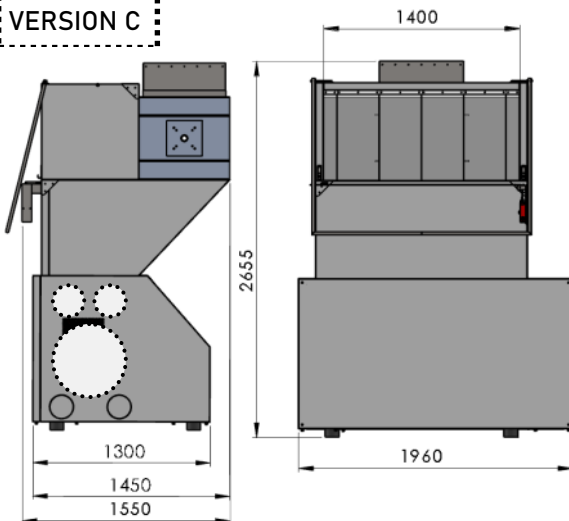
VERSION A



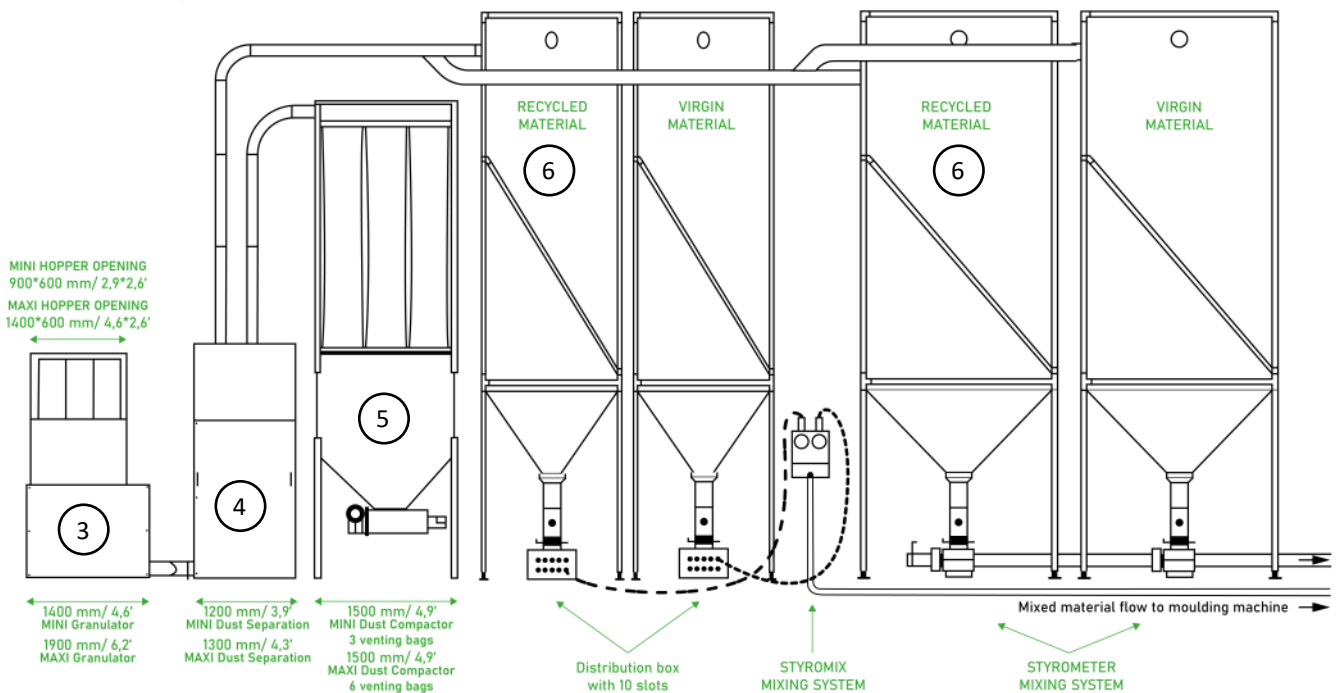
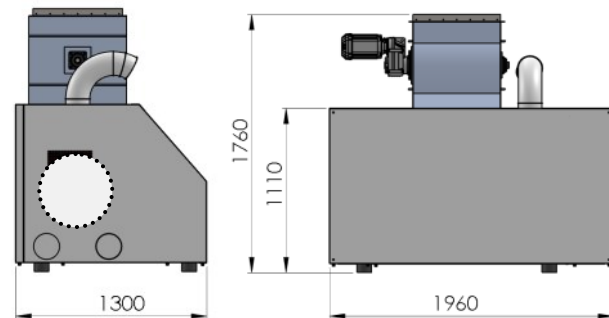
VERSION B



VERSION C



VERSION D



Technical Data sheet

MAXI RECYCLING IN-LINE

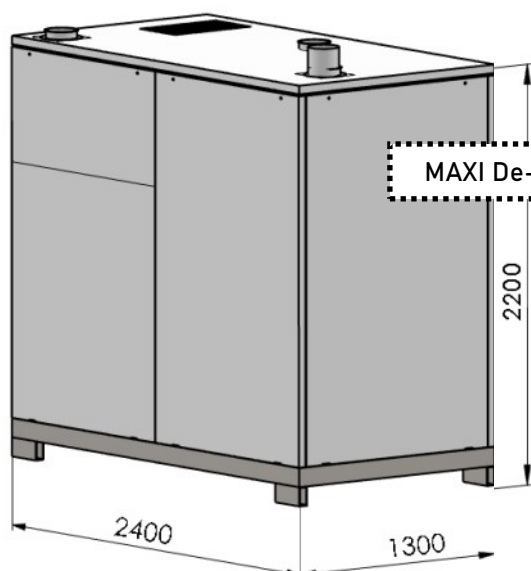
COMPLETE RECYCLING SYSTEM - 30 M³/HOUR CAPACITY

Brand name:
KBM MAXI RECYCLING PLANT

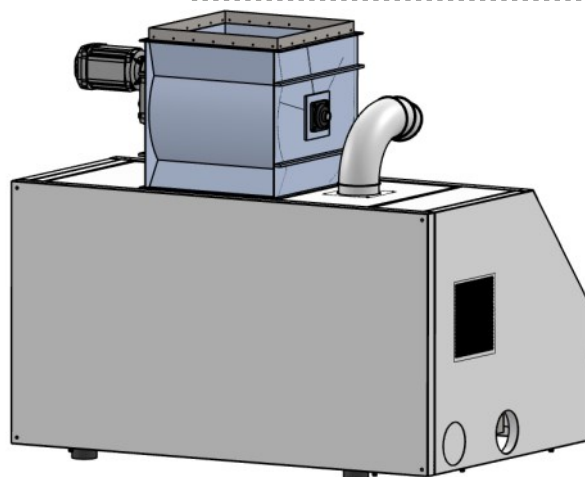
Electrical load	EPS version	EPP + HD EPS version
Pre-crusher/granulator	26,0 kW	43,0 kW
Dust separating unit	7,0 kW	7,0 kW
Dust compactor	2,2 kW	2,2 kW
Styrometer/Styromix	See page 48	See page 48
Voltage	3x400 V/50 Hz or other Voltages	3x400 V/50 Hz or other Voltages

MAXI PRE-CRUSHER
A & B version
see details on page 34-35

VERSION D/Granulator
Without Pre-crusher
with dosing unit for feeding silo
1400x600cm/ (56x24")



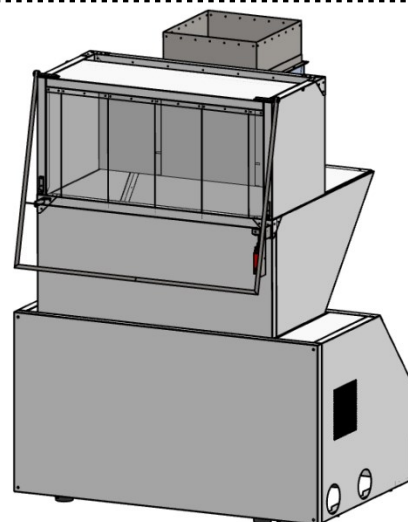
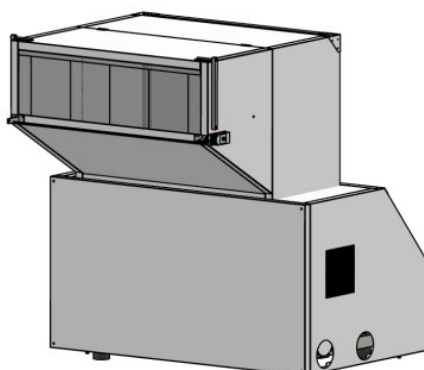
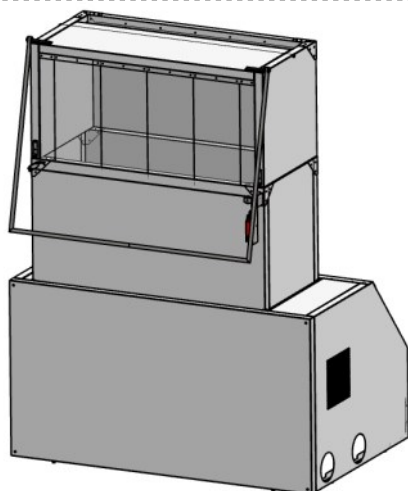
MAXI De-Dusting unit



VERSION A/Granulator
+ Pre-crusher
With vertical hopper
1400x600cm/ (56x24")

VERSION B/Granulator
+ Pre-crusher
With horizontal hopper
1400x600cm/ (56x24")

VERSION C/Granulator
+ Pre-crusher
With vertical hopper
1400x600cm/ (56x24")
and dosing unit for feeding silo





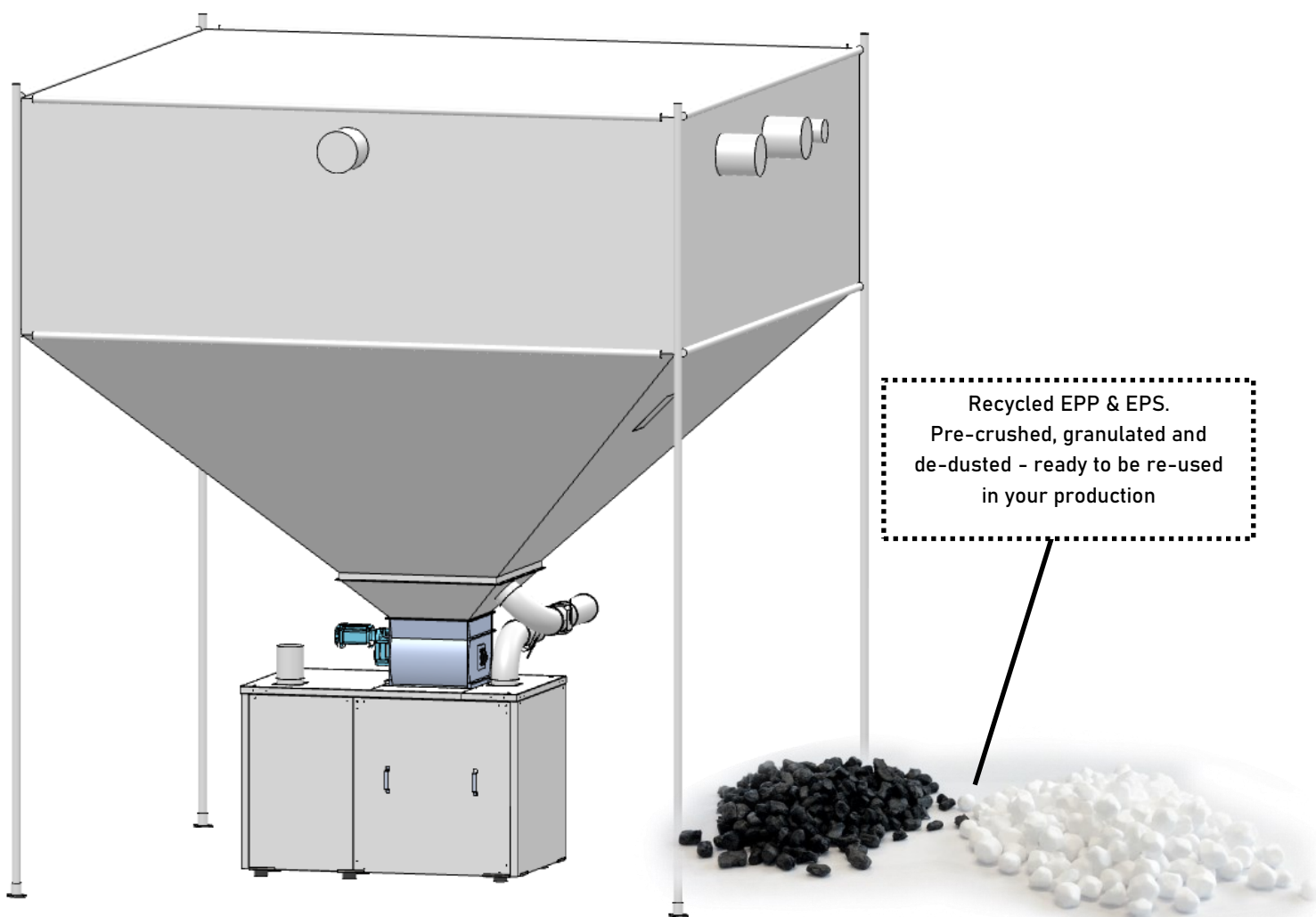
Technical Data sheet

JUMBO RECYCLING IN-LINE

COMPLETE RECYCLING SYSTEM - 60 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.

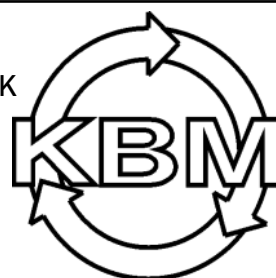
The KBM JUMBO recycling plant for EPS is suitable for the large block moulding operations. Thanks to the two step/double chamber system and the large screen surface and granulation chamber, the JUMBO plant processes waste products, cut-offs from cutting lines and even used EPS mouldings, into high quality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



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Technical Data sheet

JUMBO RECYCLING IN-LINE

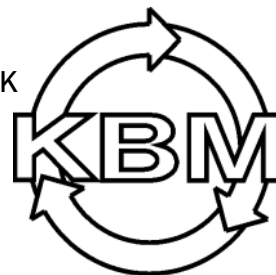
COMPLETE RECYCLING SYSTEM - 60 M³/HOUR CAPACITY

Brand name:	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/m ³ (< 2.2-2.5 lb/ft ³) High density version (HD) < 60-70 kg/m ³ (< 3.8-4.4 lb/ft ³)	
Capacity by volume (Granulated EPS)	STANDARD	PLUS
6mm screen	25-30m ³ /hour (880-1060 ft ³ /hour)	25-30m ³ /hour (880-1060 ft ³ /hour)
8mm screen	30-40m ³ /hour (1060-1400 ft ³ /hour)	30-40m ³ /hour (1060-1400 ft ³ /hour)
10mm screen	35-45m ³ /hour (1230-1590 ft ³ /hour)	50-60m ³ /hour (1760-2100 ft ³ /hour)
Screen surface	2 x 1,2 m ² (26 ft ²)	
Space required	Approx. 30-40 m ² (160 ft ²)	
Measurements L x W x H		
Granulator (1)	2.1x1.4x1.9m(84x56x76")	
Dust separating unit (2)	2.4x1.9x2.25m(95x75x89")	
Dust compactor (3)	1.2x1.2x5.1m (48x48x204")	
Storage silo	Any size available	
Pipe connections (Granulated)	160/200 mm (6")	
Pipe connections (Pre-crushed)	250 mm (6")	
Hopper opening	1800 x 800 mm (72x32")	
Hopper inlet height from floor	A Version: 1800 mm (71") B Version: 1600 mm (63")	
Estimated conserved material	Min. 93-95%	
Extracted dust & particles	Max 5-7%	
Dust content after processing	Max 1%	



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Technical Data sheet

JUMBO RECYCLING IN-LINE

COMPLETE RECYCLING SYSTEM - 60 M³/HOUR CAPACITY

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.

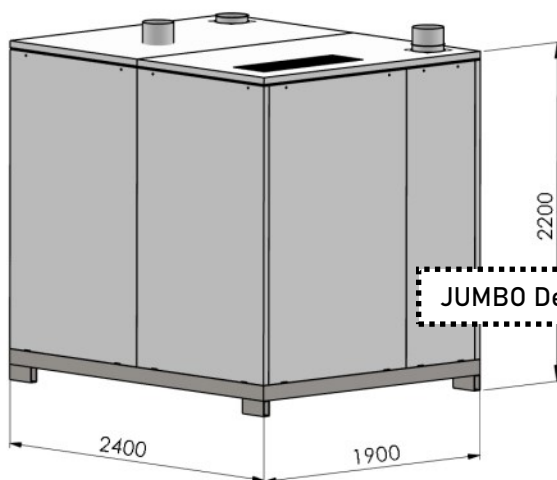
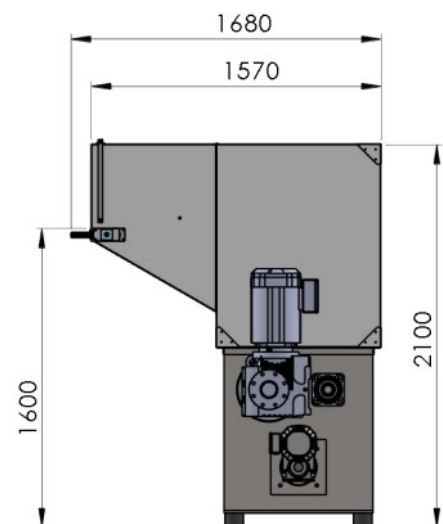
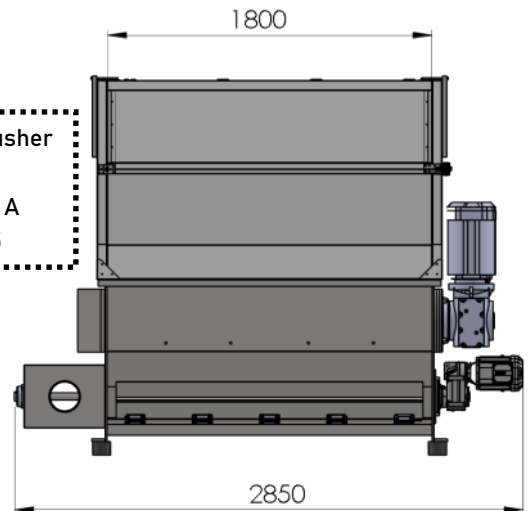
As the material is broken down to homogeneous, individual beads which mix perfectly with new pre-expanded beads, it consequently minimizes the uneven density distribution in the silos and thus in the block.

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.

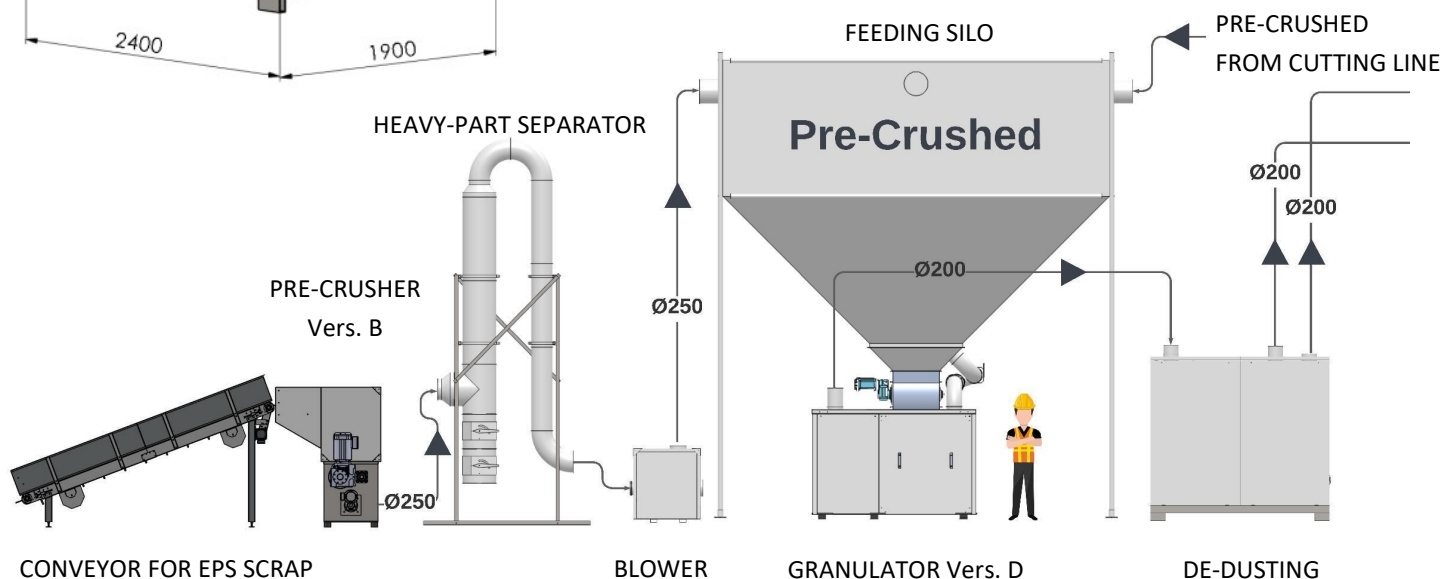
The KBM JUMBO recycling plant consists of one separate pre-crusher, one granulating unit, and a separate dust separating unit. The units are sound insulated. After recycling the material, it's blown into a storage silo, a big bag made of antistatic fabric with a steel frame for easy assembling. The dust 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).

Efficient dust removal means very few production stops due to problems with the blocking of the core vents in your molding machines. Wire-skips on the cutting-line are also prevented.

JUMBO Pre-crusher
B Version
See Version A
on page 35



JUMBO De-Dusting unit



Technical Data sheet

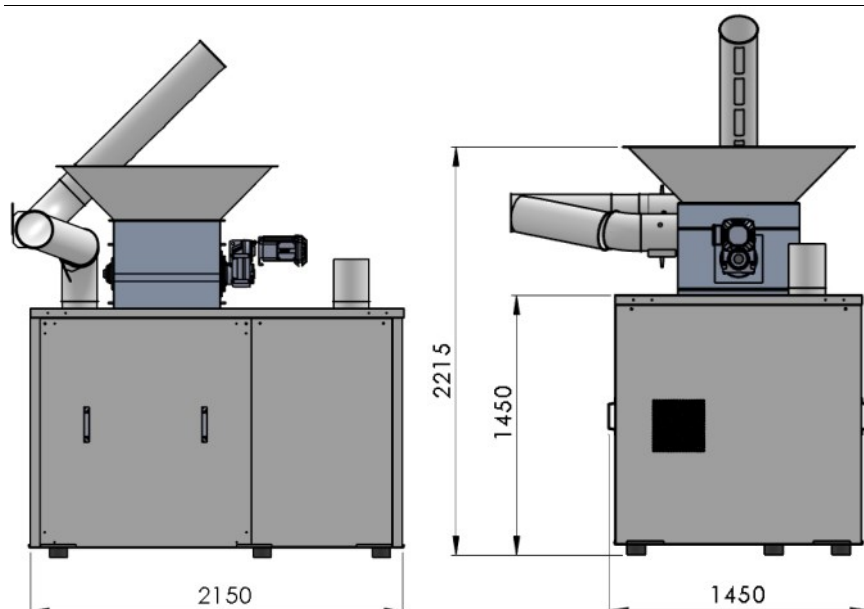
JUMBO RECYCLING IN-LINE

COMPLETE RECYCLING SYSTEM - 60 M³/HOUR CAPACITY

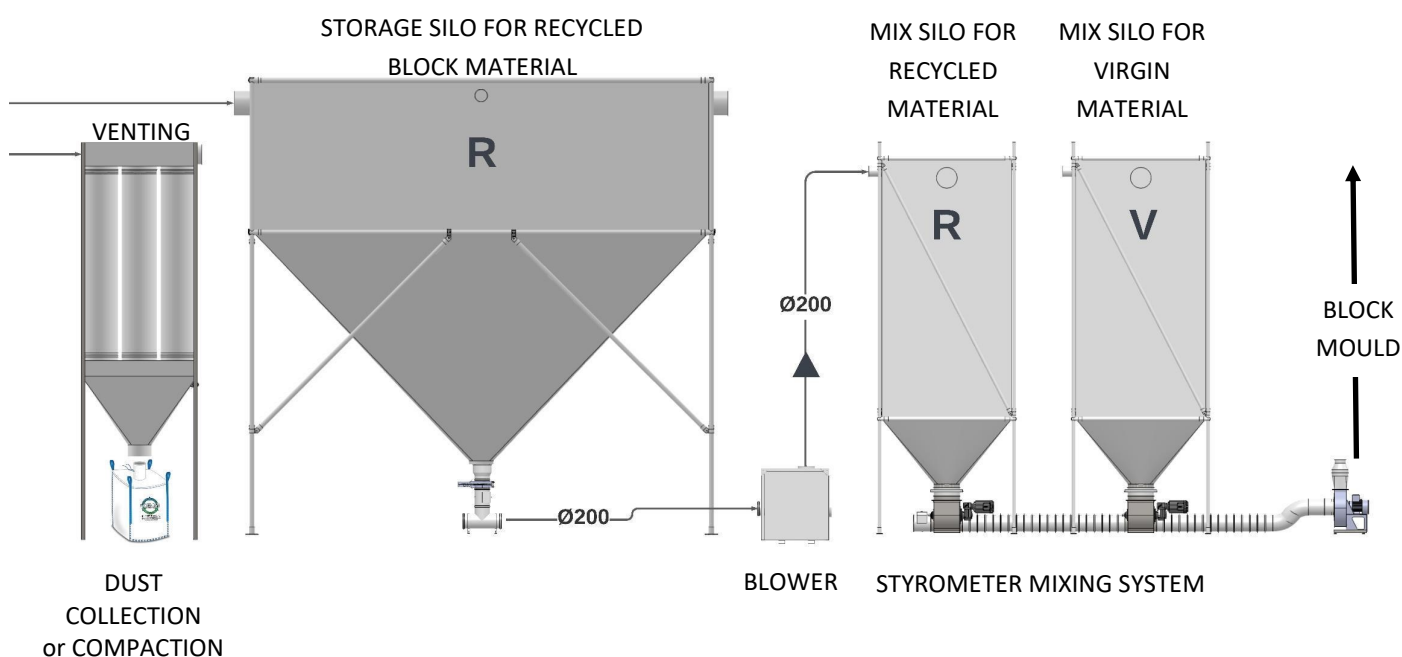
Brand name:

KBM JUMBO RECYCLING PLANT

Electrical load	EPS version	HD EPS version
Metering unit/granulator	32,0 kW	39,0 kW
Dust separating unit	14,4 kW	14,4 kW
Dust compactor	4,0 kW	4,0 kW
Styrometer/Styromix	See page 48	
Voltage	3x400 V/50 Hz or other Voltages	



JUMBO RECYCLING IN-LINE





Technical Data sheet

STYPARATOR SYSTEM

COMPLETE RECYCLING SYSTEM - 5-40 M³/HOUR CAPACITY

THE KBM STYPARATOR separates large EPS beads from smaller beads, before removing subsequently the fine dust, enabling you to extract two midrange bead densities from your granulated EPS.

The STYPARATOR runs a double screening process, separating the beads by size passing them through different screen sizes. The screening into two mean bead sizes provides typically two mean bead densities, which is highly beneficial for EPS moulders who work with high volumes in the density range of 10-20 kg/m³. This statement may vary depending on the material introduced.

The STYPARATOR can be placed directly in line with a pre-crusher/granulator or take granulated beads from a storage silo with a cell wheel feeding.

It is beneficial to use a granulator screen with large holes for block material and a screen with smaller holes for shape moulding material. Separating beads by size allows you, more efficiently, to recycle your EPS scrap and thus to lower your production costs. Due to a large variety in material composition, a 100% separation cannot be guaranteed.

EPS beads < 5mm

Perfect for medium density
block and shape moulding
applications



EPS beads > 5mm

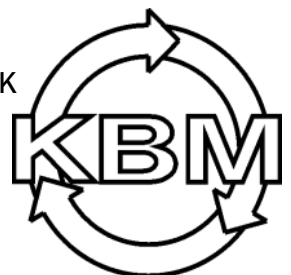
Perfect for low density
block moulding
applications



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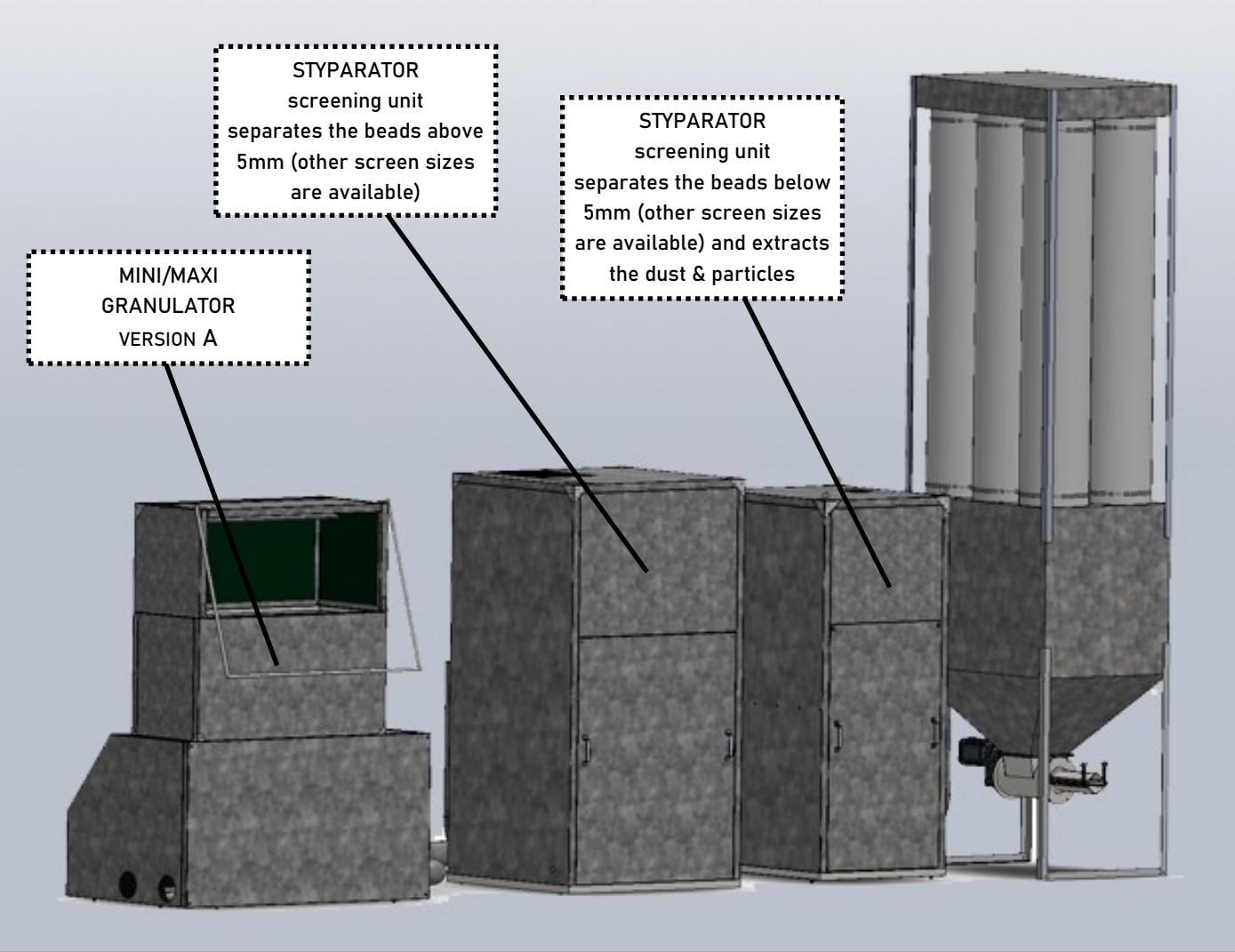
Technical Data sheet

STYPARATOR SYSTEM

COMPLETE RECYCLING SYSTEM - 5-40 M³/HOUR CAPACITY

The STYPARATOR system can be build into existing KBM recycling systems or delivered as a complete new system. It is ideal for medium to large EPS moulding plants, offering an improved density control in productions with mixed virgin and recycled material.

Brand name:	STYPARATOR MICRO	STYPARATOR MINI	STYPARATOR MAXI	STYPARATOR JUMBO
KBM STYPARATOR				
Capacity	5 m ³ /hour (175 ft ³ /hour)	10 m ³ /hour (350 ft ³ /hour)	20 m ³ /hour (700 ft ³ /hour)	40 m ³ /hour (1400 ft ³ /hour)



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Technical Data sheet

PRE-CRUSHERS

HEAVY DUTY PRE-CRUSHERS WITH HIGH CAPACITY

KBM offers 3 separate pre-crushers with or without an optional heavy parts separator. All pre-crushers are designed with slowly rotating breaker arms in order to keep the created dust at a minimum. The purpose of our pre-crushers is to crush EPS or EPP scrap down to a size of approx. 25-100 mm (1-4 inches), preparing the scrap for being conveyed by a blower to your KBM recycling plant. The pre-crushing in larger pieces reduces the creation of dust.

STYROCRUSHER XL

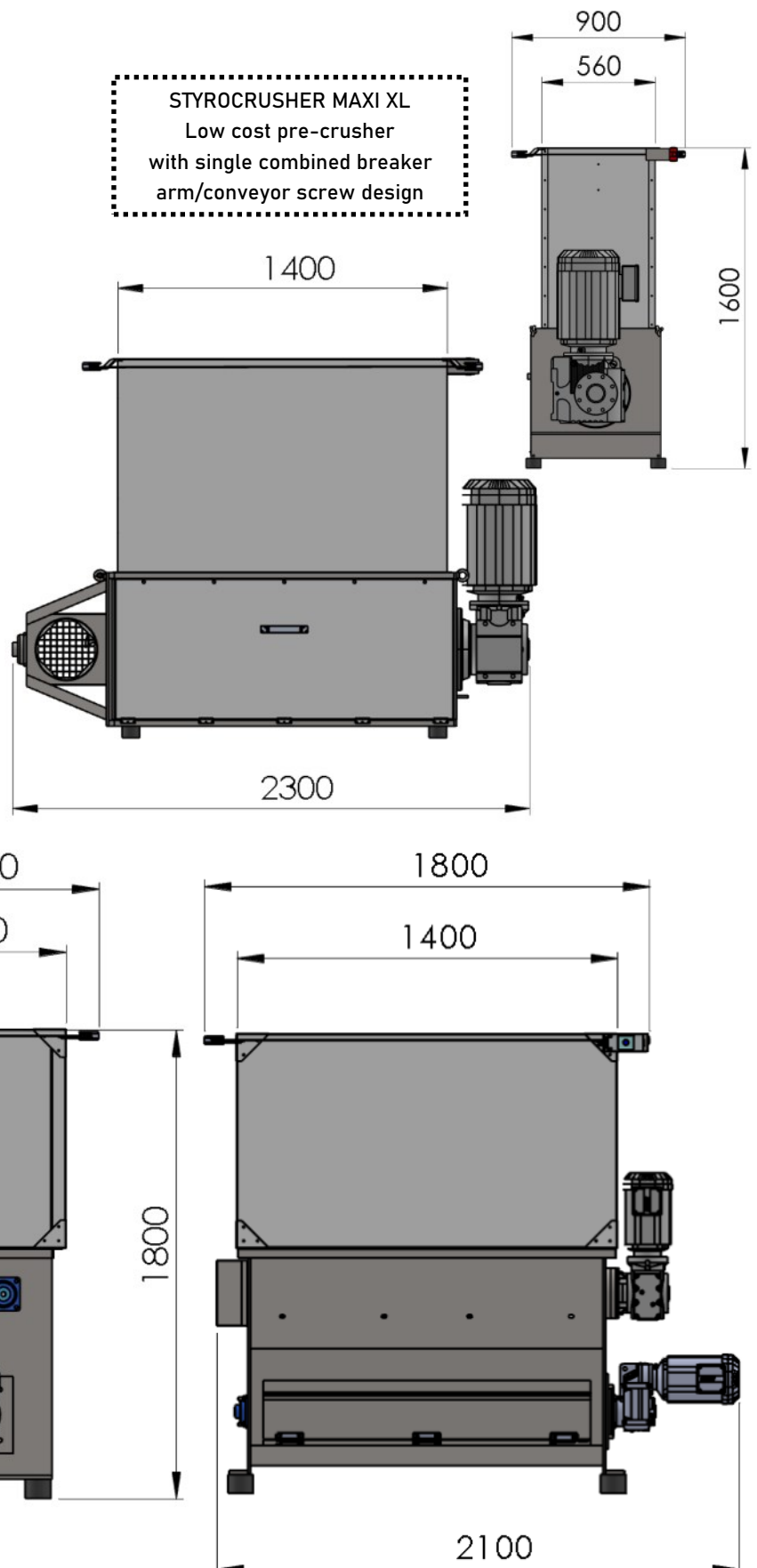
The StyroCrusher MAXI XL is a low-cost large pre-crusher. It's ideal as a satellite crusher placable in different locations at your plant, or as a pre-crusher for larger EPS/EPP parts to be recycled on smaller recycling systems.

MAXI PRE-CRUSHER

The MAXI pre-crusher will grind all kinds of shape- and block materials and is sufficient for most shape- and block moulders.

JUMBO PRE-CRUSHER

The JUMBO is designed for pre crushing very large quantities of scrap and/or very large shape or block parts, and offers a very high capacity.



Technical Data sheet

PRE-CRUSHERS

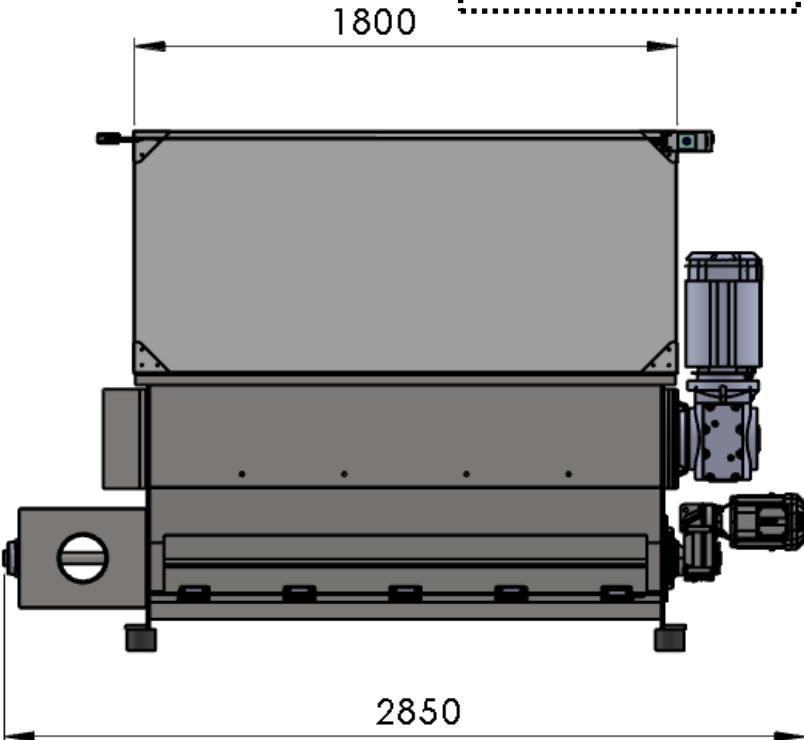
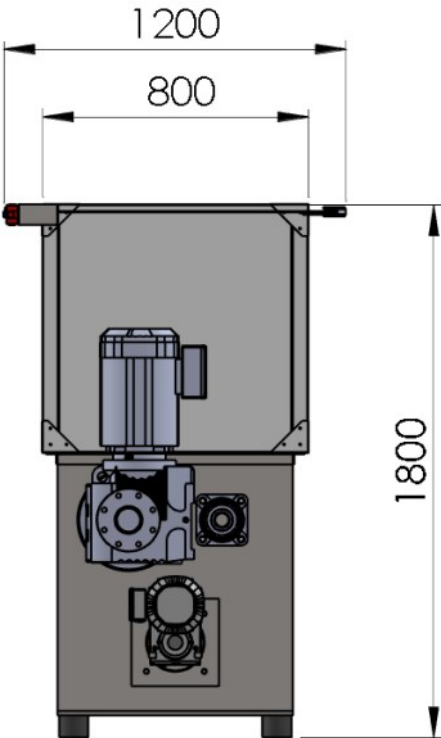
HEAVY DUTY PRE-CRUSHERS WITH HIGH CAPACITY

PRE-CRUSHERS

Brand name	STYROCRUSHER XL	MAXI PRE-CRUSHER A & B version	JUMBO PRE-CRUSHER A & B version
Measurements			
Hopper opening	1400 x 560mm (55"x22")	1400 x 600mm (55"x24")	1800 x 800mm (71"x35")
Length ¹	2300mm (91")	2100mm (83")	2850mm (113")
Width ¹	900mm (36")	A version 1100mm (44") B version 1500mm (59")	A version 1200mm (48") B version 1680mm (67")
Height ²	1600mm (63")	1800mm (71")	1800mm (71")
Inlet height from floor	1600mm (63")	A version 1800mm (71") B version 1600mm (63")	A version 1800mm (71") B version 1600mm (63")
Capacity	8 - 10 m³/hour 280 - 350 ft³/hour	25 - 30 m³/hour 880 - 1060 ft³/hour	60 - 100 m³/hour 2100 - 3500 ft³/hour
Max density std. version	40 - 60 g/l	35 - 40 g/l	35 - 40 g/l
Max density HD version ³	N/A	50 - 100 g/l	50 - 80 g/l
Super HD version ³	N/A	Available	Available
Electrical load			
Pre-crusher	5,5 kW	6,2 ² kW	11,2 ² kW
Blower	2,2 kW	4,0 kW	5,5 kW

¹ Measurements without blower.
 ² Incl. built-in conveyor screw under pre-crusher
 ³ Maximum density range depending on scrap characteristics

JUMBO PRE-CRUSHER
VERSION A
Double intertwined
breaker arms
+ Conveyor screw
See Version B on page 30

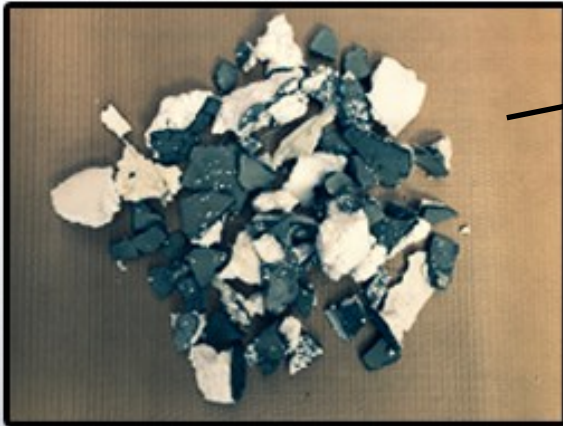




Technical Data sheet

HEAVY-PARTS SEPARATOR

RE-USE EPS/XPS WASTE FROM CONSTRUCTION SITES



Collected concrete waste after pre-crushing in a KBM pre-crusher. The material is collected in the bottom of the pre-crusher

KBM HEAVY-PARTS-SEPARATOR is a necessity for any moulder who is obliged to collect EPS waste from construction sites.

The used EPS is often contaminated with dirt, plaster, concrete, nails etc. which makes it impossible to re-use for producing new blocks for insulation sheets.



With the HEAVY-PARTS-SEPARATOR in connection with a KBM recycling system, the obtained purity of the EPS waste is nearly 99%, and it can as such be reused similarly to cut-offs from block cutting lines.

The HEAVY-PARTS-SEPARATOR is a low cost add-on to an existing KBM system.

Collected EPS waste that was screened out in the HEAVY-PARTS SEPARATOR. The waste is easily collected in the bottom of the filter



After pre-crushing, Heavy-parts-separator, granulation and de-dusting. Ready to mix with virgin EPS



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Technical Data sheet

HEAVY-PARTS SEPARATOR

RE-USE EPS/XPS WASTE FROM CONSTRUCTION SITES



XPS waste collected from construction sites. Contaminated with plaster, concrete, wood, plastic etc.

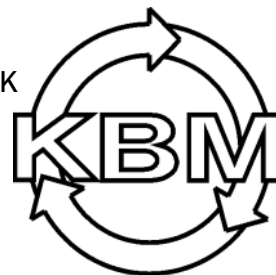
XPS granulate after processing through KBM pre-crushing, heavy-parts filter, granulating and de-dusting. The material is pure and can be mixed together with virgin PS in Extrusion process

Dust collected from the recycling process. Consists of polystyrene, plaster, concrete dust etc.



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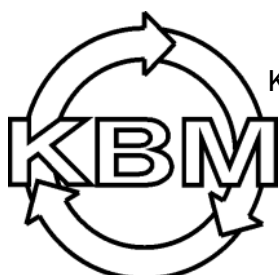
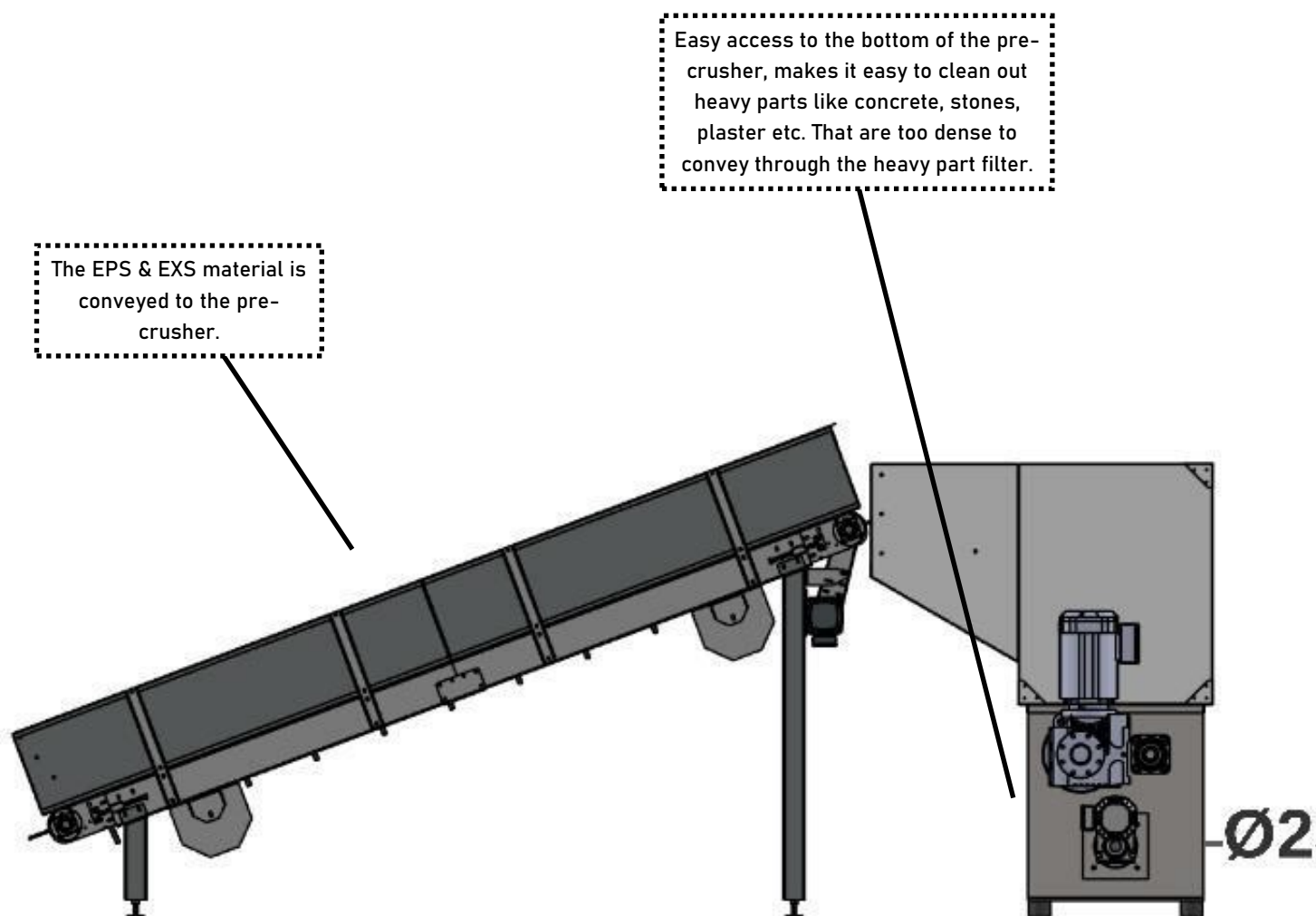
Technical Data sheet

HEAVY-PARTS SEPARATOR

RE-USE EPS & EPS WASTE FROM CONSTRUCTION SITES

KBM HEAVY-PARTS SEPARATOR

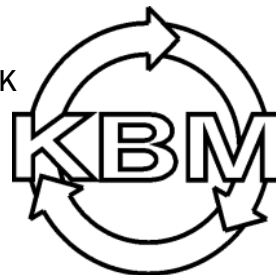
Capacity:	Up to 100 m ³ /hour
Dimensions:	1100 x 2100 x 4800 mm (44x83x189")
Options:	Heavy-parts separator can be supplied with a sound insulated box for the material blower

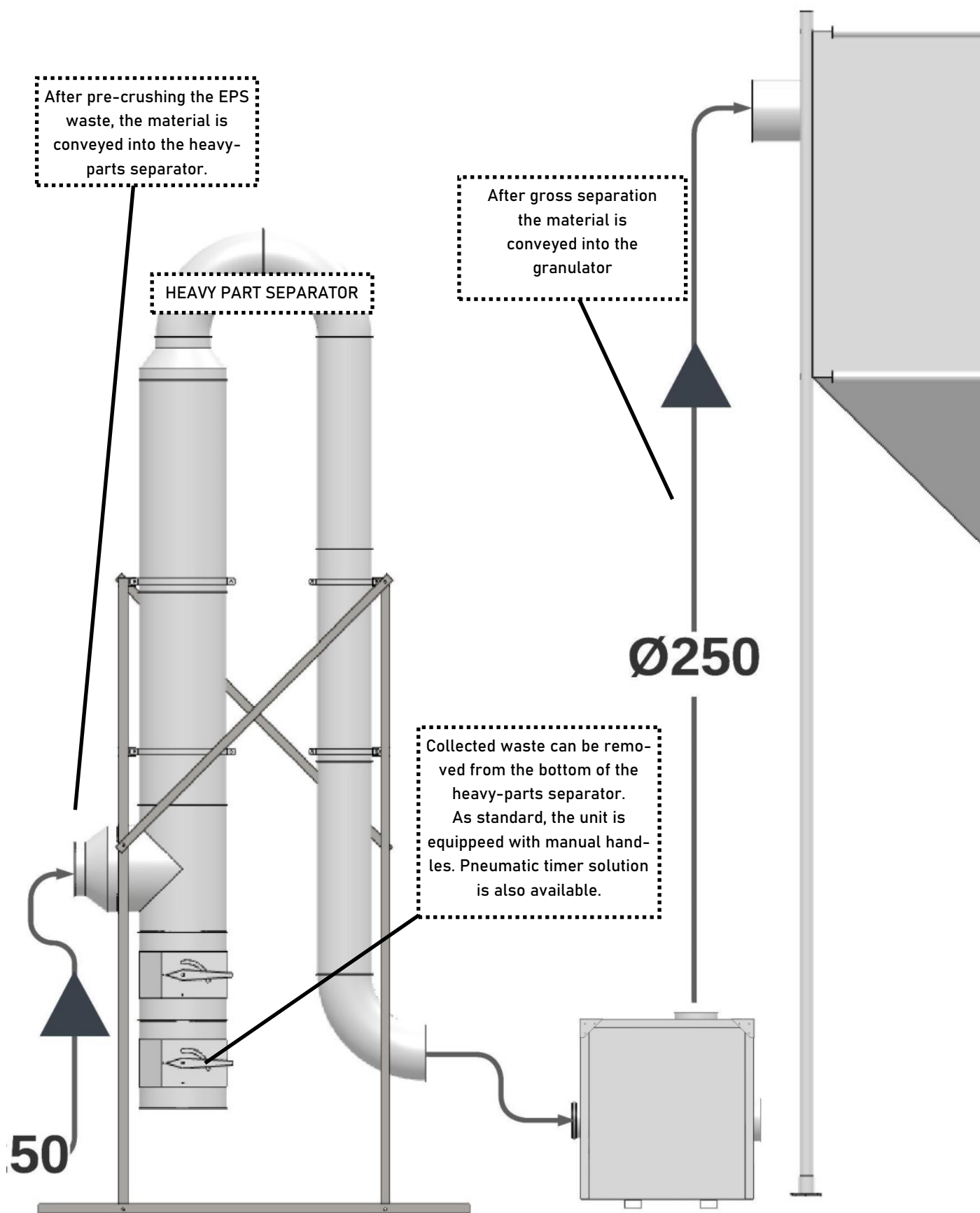


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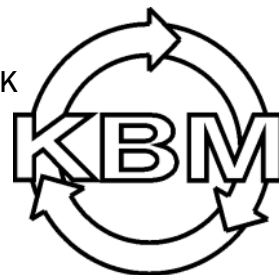
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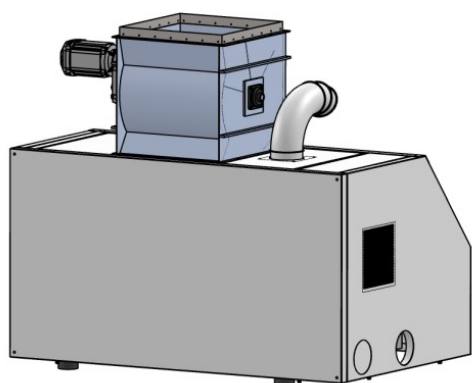
GRANULATORS

CONVERT PRE-CRUSHED EPS/EPP INTO SINGLE BEADS

Brand name:	Capacity
KBM GRANULATOR	

MAXI HOPPER VERSION D
This is a stand-alone granulator requiring separate pre-crushing.

Up to 30 m³/hour granulate
 Build with a cell wheel on top of the granulator, for placement below a feeding silo.



Measurements data can be found under MAXI and JUMBO recycling systems sections

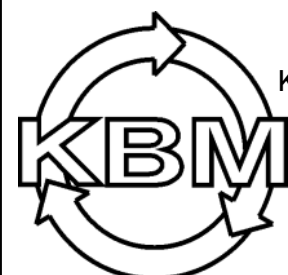
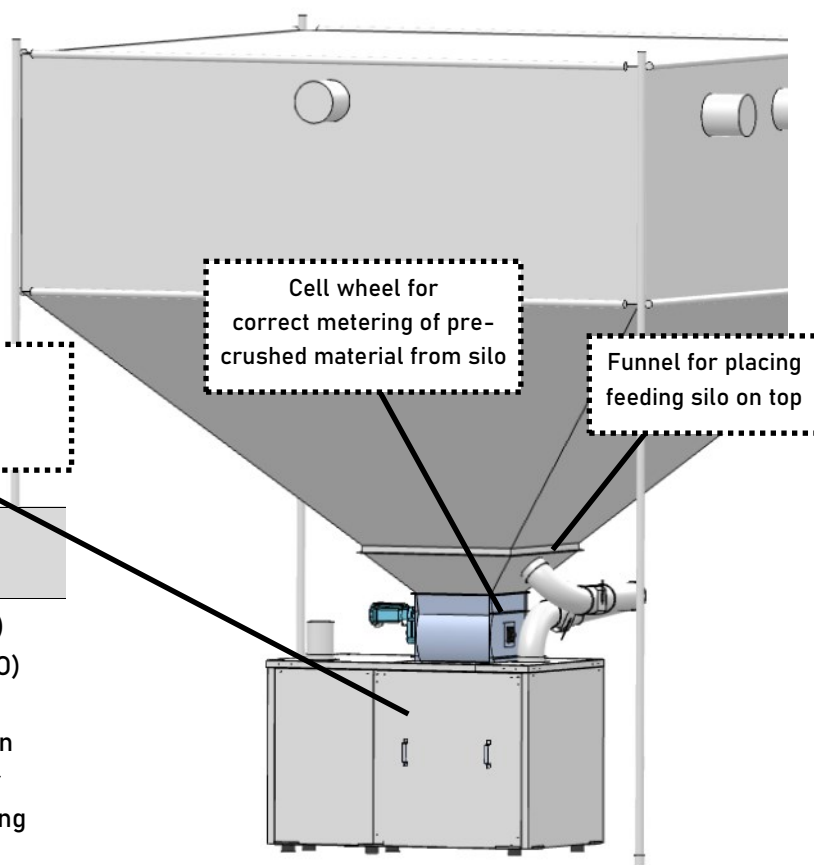
ATTENTION:
 HOPPER VERSION A-B-C-D are also available as MINI versions with capacity up to 10 m³/hour!

JUMBO GRANULATOR VERSION D

Brand name:	Capacity
KBM GRANULATOR	

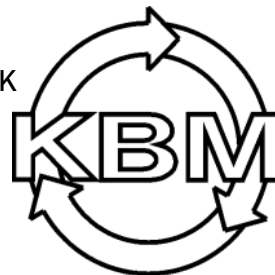
MAXI + JUMBO HOPPER VERSION D
This is a stand-alone granulator requiring separate pre-crushing.

Up to 30 m³/hour (MAXI)
 Up to 60 m³/hour (JUMBO) granulate
 Build with a cell wheel on top of the granulator, for placement below a feeding silo.



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Technical Data sheet

GRANULATORS

CONVERT PRE-CRUSHED EPS/EPP INTO SINGLE BEADS

Brand name:

KBM GRANULATOR

Capacity

MAXI HOPPER VERSION A

*This is a combined pre-crusher/granulator -
No need for a separate pre-crusher*

Up to 30 m³/hour granulate

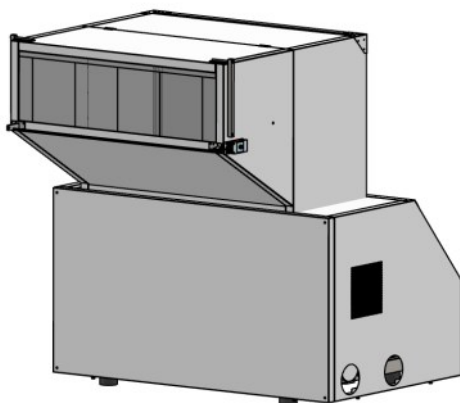
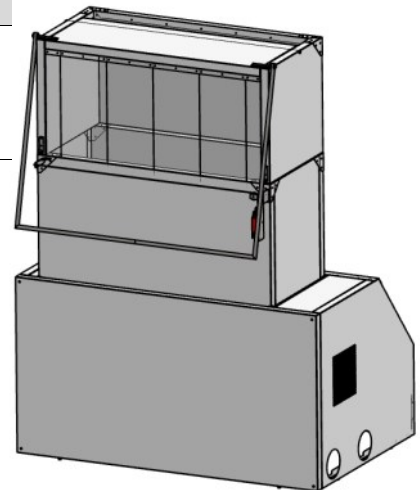
Build with a vertical input and sound insulated galvanized cabinet.

MAXI HOPPER VERSION B

*This is a combined pre-crusher/granulator -
No need for a separate pre-crusher*

Up to 30 m³/hour granulate

Build with a horizontal input and a sound insulated galvanized cabinet.

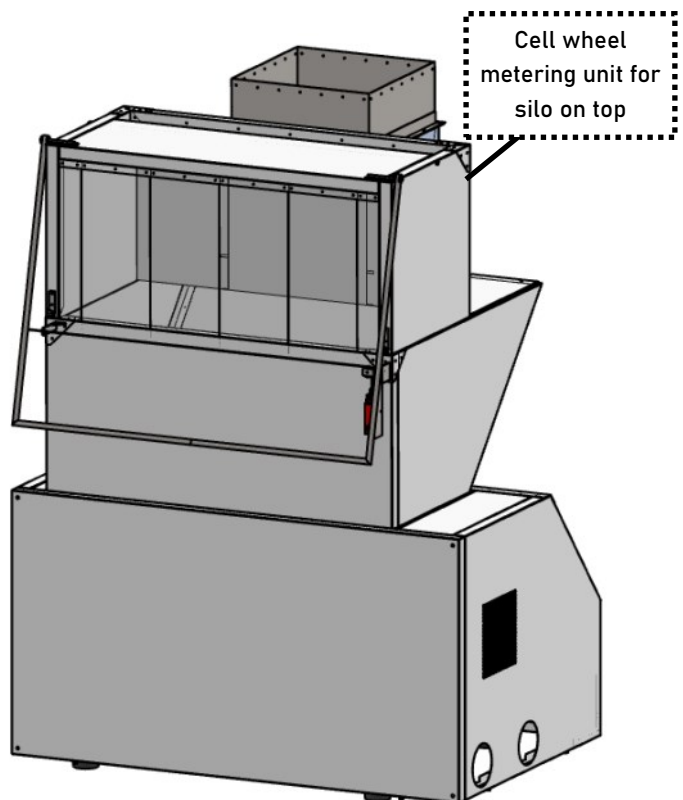


MAXI HOPPER VERSION C

*This is a combined pre-crusher/granulator -
No need for a separate pre-crusher, but
can be added.*

Up to 30 m³/hour granulate

Build with a vertical input,
a galvanized cabinet and a
cell-wheel for metering pre-crushed
material either from a silo or from a
separate pre-crusher.



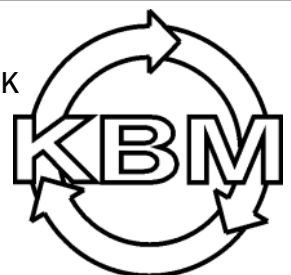
GRANULATORS



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Technical Data sheet

DUST SEPARATION UNITS

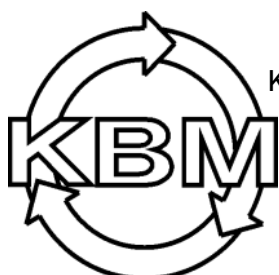
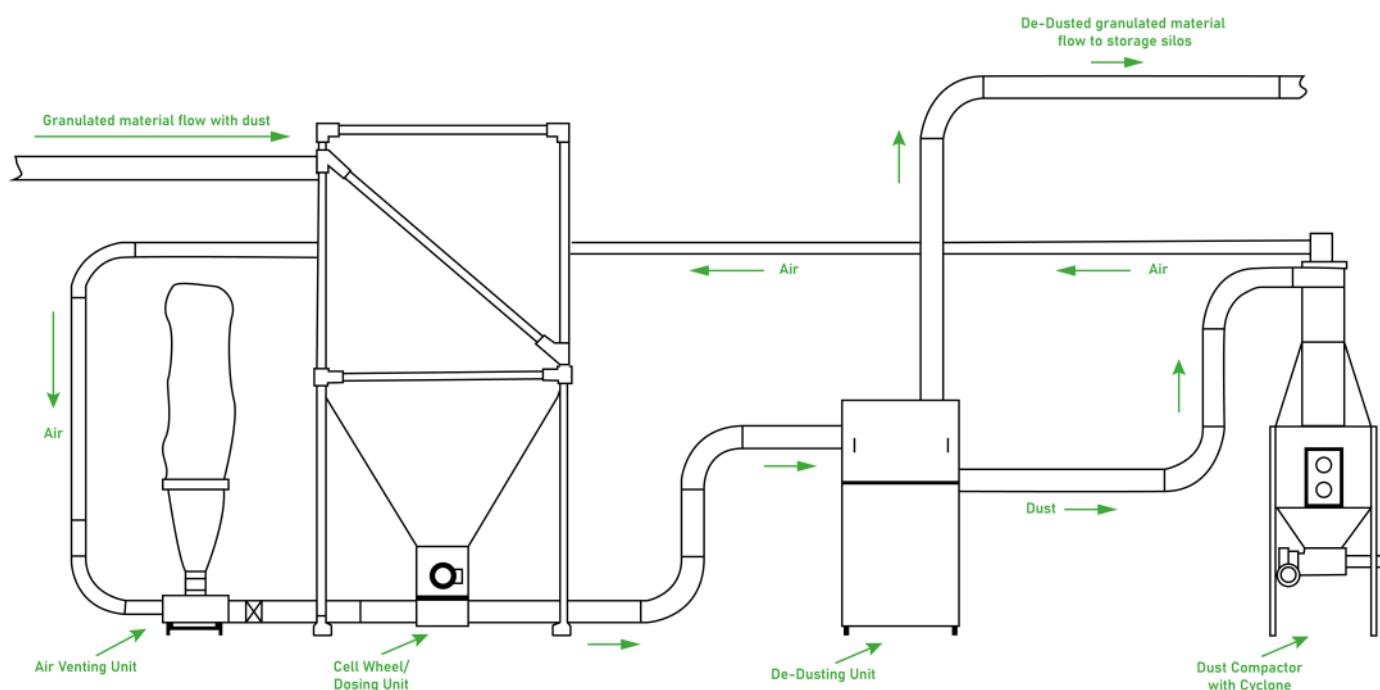
KBM DE-DUSTERS INCREASE QUALITY AND PRODUCTIVITY

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.

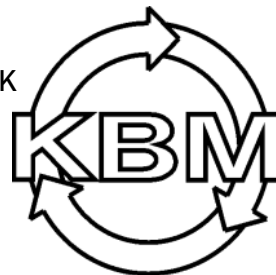
PRINCIPLE FOR MINI/MAXI/JUMBO SYSTEM



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Technical Data sheet

DUST SEPARATION UNITS

KBM DE-DUSTERS INCREASE QUALITY AND PRODUCTIVITY

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, MAXI+ & JUMBO+, was developed to give 25-30M3/h and 50-60 m³/h. This unit has now been developed further into the GIGANT 90 and GIGANT 120 with capacities of up to 100-120 m³/h For the large block moulds.

As the capacity can variate from 10m³/h up to 120m³/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	M³/Hour	cf³/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 90	75-90	2625-3150
GIGANT 120	100-120	3500-4200



Measurements data can be found under MINI, MAXI and JUMBO recycling systems sections

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Technical Data sheet

DUST COMPACTORS

EASY HANDLING OF COLLECTED DUST FROM RECYCLING

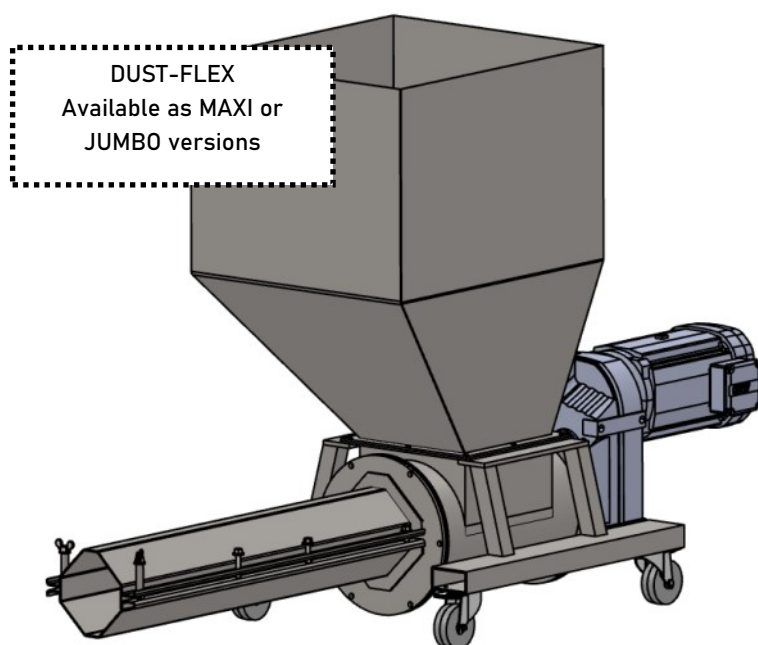
The KBM dust compactors offer many production advantages in terms of easy handling of dust from EPS/EPP/EPE, Arcel, or Neopor. The KBM dust compactors reduce the volume of dust 20-30 times.

The KBM dust compactor reduces the costs of the dust disposal. The KBM dust compactor improves the environment of the dust handling location in the production. Opposite to using plastic bags for collection, no dust is flying around since there are no change of bags.

The basic dust compactor is available in four different sizes: The MINI, the MAXI, the JUMBO and the GIGANT.

The basic KBM dust compactor can be equipped for multiple applications:

- One use would be as part of a recycling system where the machine is used as a combined air venting unit and dust compactor. It will be equipped with a small storage silo with venting bags or with a cyclone for the KBM closed air circuit system, which reduces maintenance of venting bags to almost zero.
- Another would be as part of a recycling system where it's placed under a larger dust collection silo from a recycling system. It can also be placed underneath a large silo where milling dust is collected.



Applied as a separate mobile compactor unit (Dust-Flex)

The dust is collected in the part just above the compactor and is compacted into a rod with a density of 150-300 Kg/m³ (9-18 lbs/ft³).

The KBM dust compactor can be used in a large number of ways in combination with any production line where dust occurs.

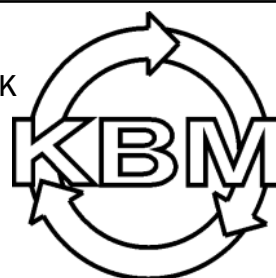
The dust compactors also form parts of KBM's large program of recycling plants and equipment for the EPS/EPP/EPE/ARCEL/NEOPOR foam industries.



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Technical Data sheet

DUST COMPACTORS & VENTING

EASY HANDLING OF COLLECTED DUST FROM RECYCLING

Capacity/hour EPS:
(measured with EPS dust)

Capacity/hour EPS: (Performed with EPS dust)

MINI/MAXI dust compactor: 1-1.5 m³ (35-50 ft³)

JUMBO dust compactor: 1.5-3 m³ (50-100 ft³)

GIGANT dust compactor: 9-14 m³ (315-490 ft³)

(Performed with EPS dust from a KBM recycling system.)

Capacity measured in weight is depending on the volume capacity given above.

Dimension of the compacted material:

MINI/MAXI dust compactor: 100x100mm (4"x4")

JUMBO dust compactor: 150x150mm (6"x6")

GIGANT dust compactor: 270x270mm (11"x11")

Space required ca. 2-5 m² (20-50 Ft²)

Measurements: L x W x H

MINI with 3 venting bags: 1.5x0.5x5.1 m (59x20x201")

MAXI with 6 venting bags: 1.5x1.0x5.1 m (59x40x201")

JUMBO with 9 venting bags: 1.5x1.5x5.2m (59x59x205")

MAXI with cyclone venting: 1.2x1.2x4.8 (48x48x189")

JUMBO with cyclone venting: 1.2x1.2x5.4 (48x48x213")

DUST-FLEX MAXI: 1.3x0.6x1.3 (51x24x51")

Pipe connections:

MINI or MAXI dust compactors 160 mm (6")

JUMBO dust compactors 200 mm (8")

Electrical load: EPS EPP

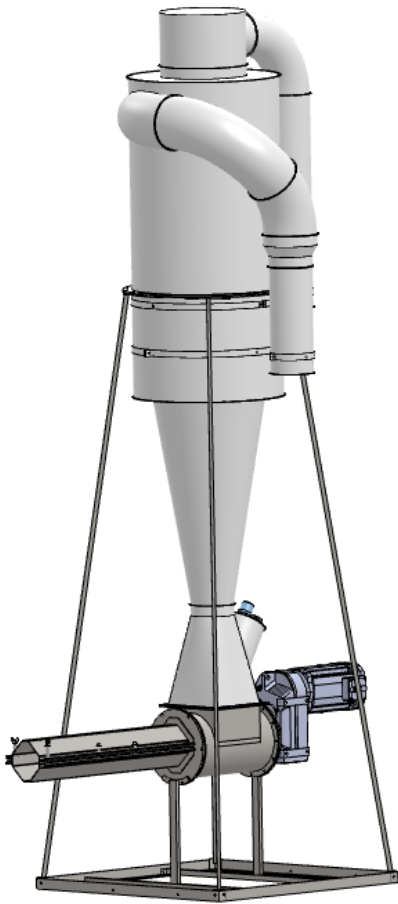
MINI/MAXI dust compactor: 1.5 Kw 1.5 Kw

JUMBO dust compactor: 4.0 Kw 4.0 Kw

GIGANT dust compactor: 11.0 Kw 11.0 Kw

Voltage:

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





Technical Data sheet

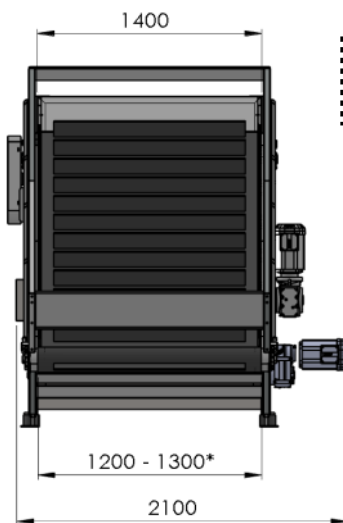
CONVEYORS

INCREASE PRODUCTIVITY AND SAFETY

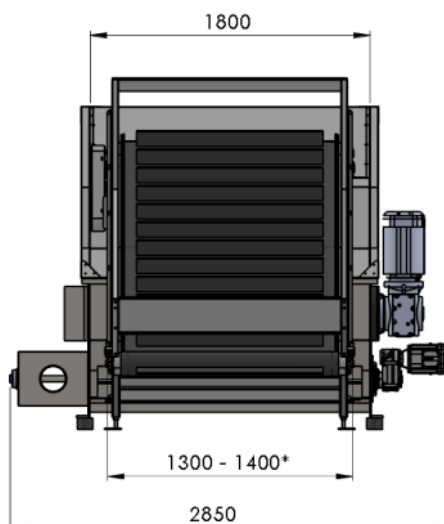
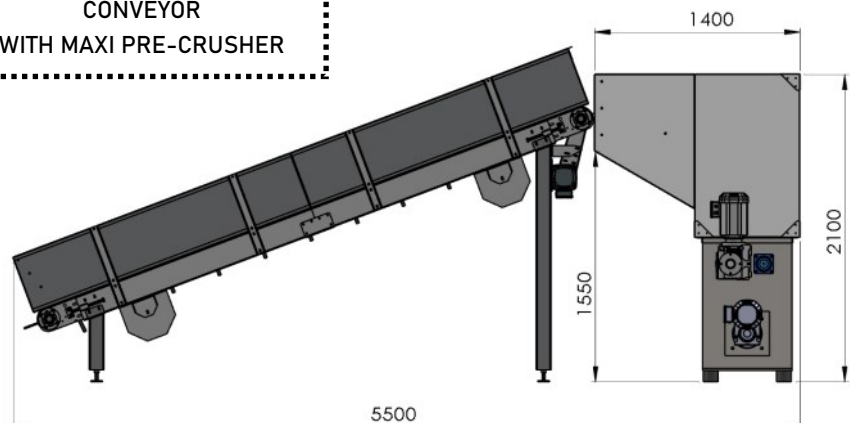
We are proud to present our solution for EPS (Expanded Polystyrene) and XPS (Extruded Polystyrene) waste management. Our state-of-the-art conveyor system is designed to seamlessly transport EPS and XPS waste to our wellknown highly durable pre-crushers, offering unmatched productivity and safety benefits.

Enhanced Productivity: Our conveyor system has been meticulously engineered to optimize workflow efficiency. With a smooth and continuous material flow, the conveyor significantly reduces downtime and manual handling, maximizing productivity levels. Your operations will experience streamlined waste transportation, allowing your team to focus on higher-value tasks.

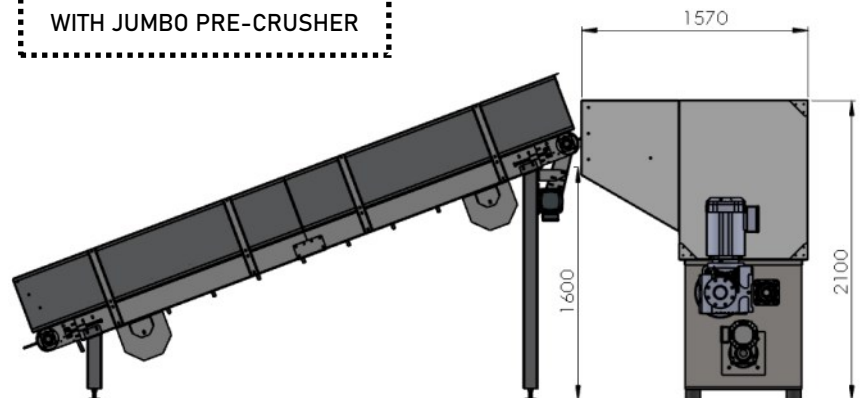
Seamless Integration: Our conveyor system is designed for easy integration into your existing waste management infrastructure. Whether you're dealing with small-scale production or large industrial facilities, our adaptable solution ensures a seamless fit, minimizing disruption during installation and operation.



CONVEYOR
WITH MAXI PRE-CRUSHER



CONVEYOR
WITH JUMBO PRE-CRUSHER

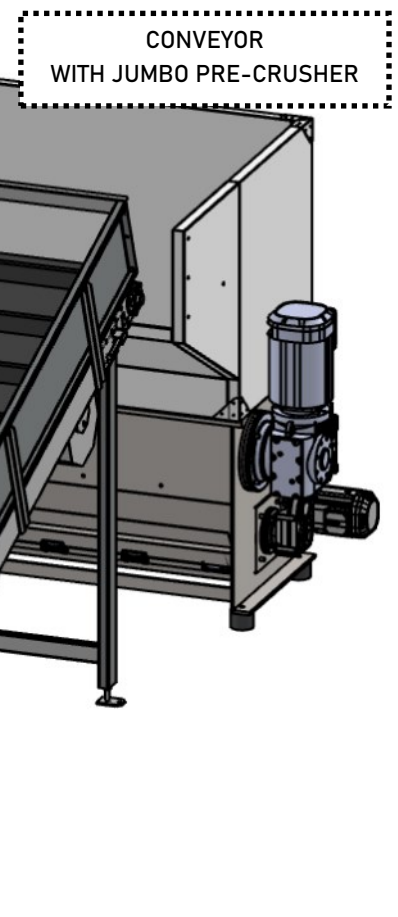
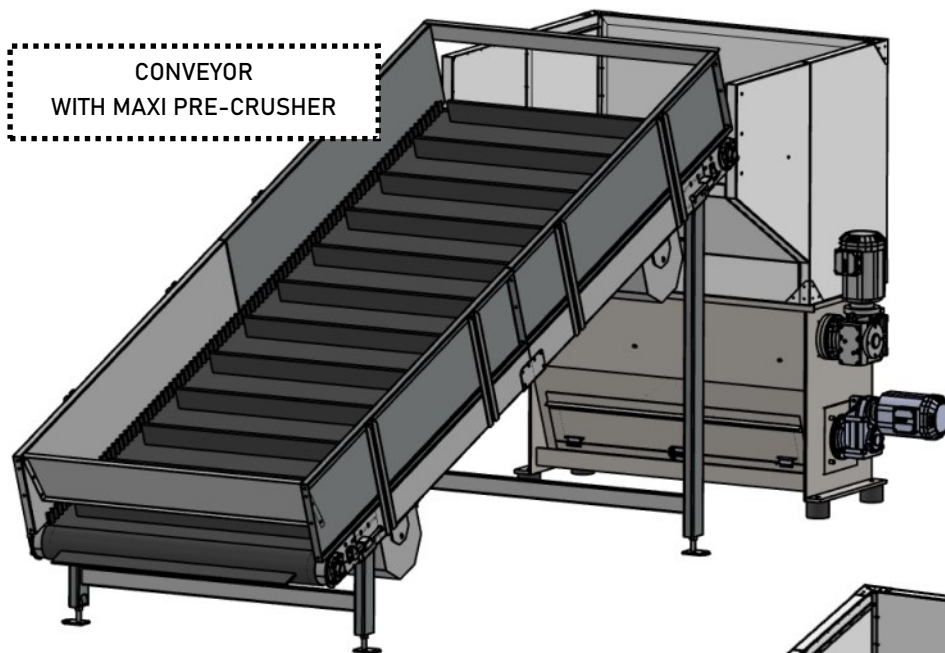


Technical Data sheet

CONVEYORS

INCREASE PRODUCTIVITY AND SAFETY

Advanced Pre-Crushing Technology: The heart of our system lies in the innovative pre-crusher and granulator system. Equipped with cutting-edge technology, the pre-crusher efficiently breaks down EPS and XPS waste into manageable sizes, facilitating downstream processes like recycling and reuse. By reducing the waste's volume early in the process, you'll benefit from reduced storage requirements and optimized transportation logistics.



Cost-Efficient Solution:
By enhancing productivity, reducing material loss, and minimizing manual labor, our conveyor system offers a compelling return on investment. Lower operational costs, reduced maintenance needs, and increased waste processing efficiency combine to create a cost-efficient waste management solution.



Technical Data sheet

MIXING SYSTEMS

STYROMIX FOR SHAPE MOULDING PLANTS

Brand name:
KBM STYROMIX 3

The KBM STYROMIX System is designed to obtain a more accurate metering and mixing of recycled EPS or EPP materials with virgin EPS or EPP beads. It can be mounted directly before each individual moulding machine, (either close to each machine - or near the silos). The STYROMIX System starts mixing whenever there is vacuum from a moulding machine. The STYROMIX System is suitable for EPS or EPP granulated and dust extracted material and since the mixing takes place directly before the material reaches the hopper on the moulding machines, the de-mixing of the mixture is minimized or even eliminated compared to mixing after the pre-expander.

Data:

Throughput per unit 100 L/Min

Compressed air 5 bar

Hose connection ID 40mm (1,5") or OD50mm (2")

Dimensions

Length 435mm (17")

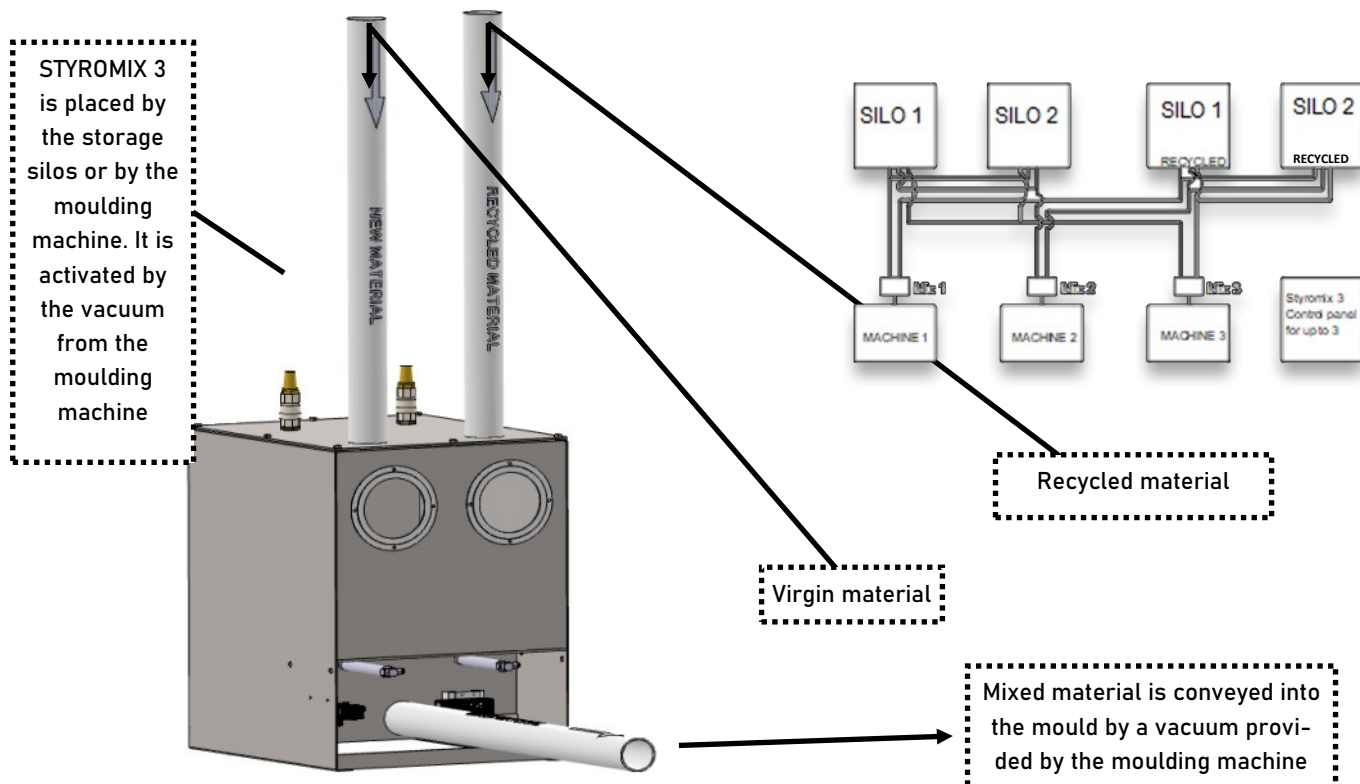
Width 390mm (16")

Height 680mm (27")

Mixing ratios

0 - 100% in 1% steps.

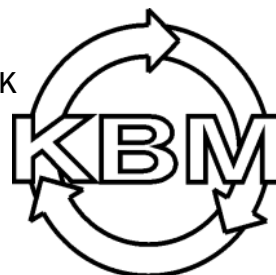
Mixing ratio is set via the control panel. The control panel operates up to 3 units.



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

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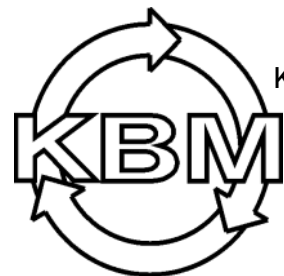
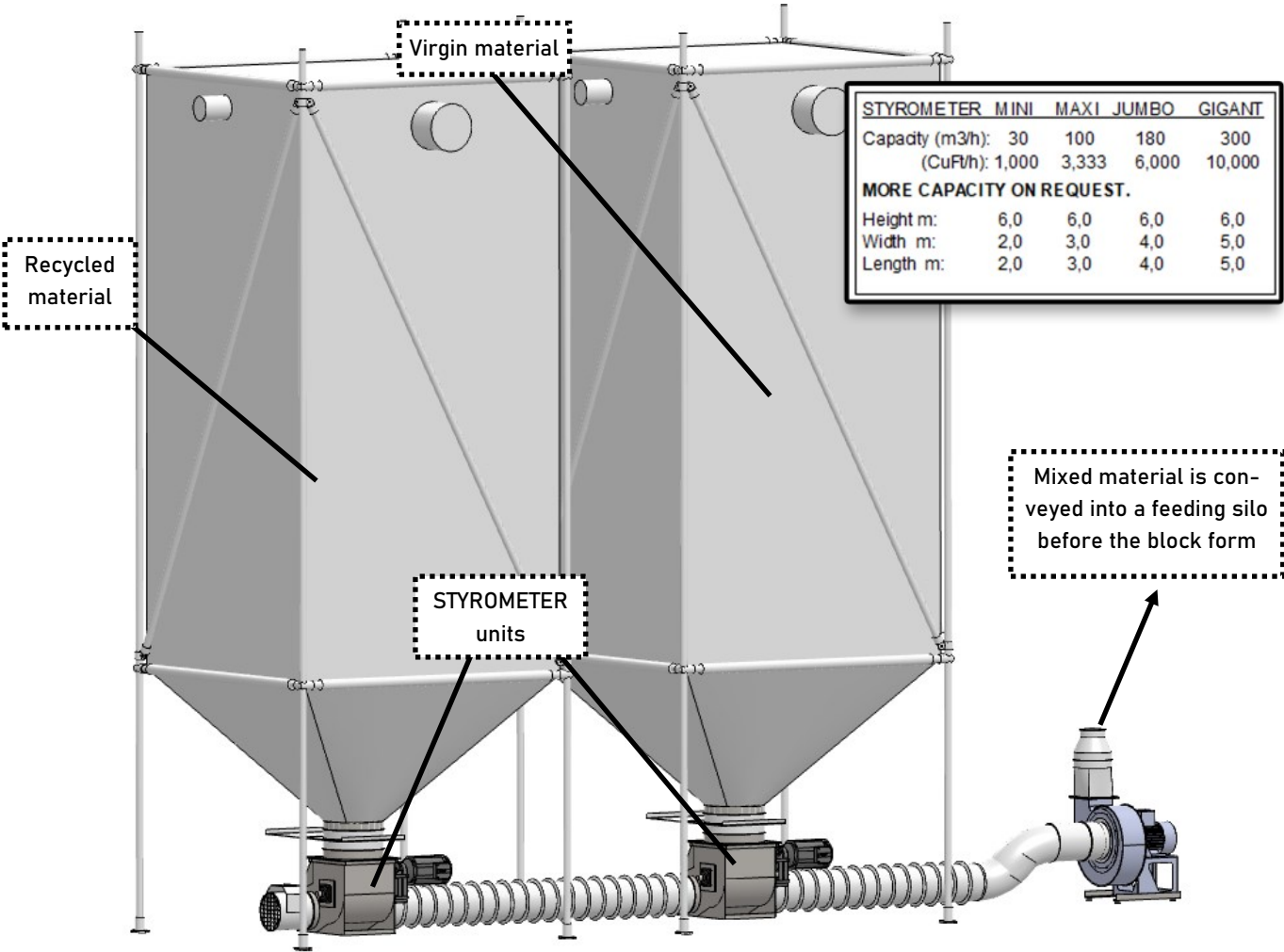
Technical Data sheet

MIXING SYSTEMS

STYROMETER FOR BLOCK MOULDING PLANTS

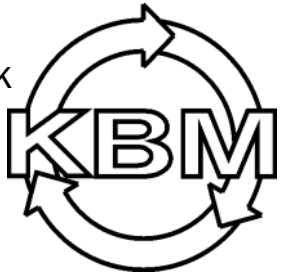
Brand name:
KBM STYROMETER

The KBM STYROMETER System is designed to meter and mix the recycled and new material together right before the block mould in order to minimize de-mixing. Each silo contains one material e.g. recycled and virgin material. The speed of the cell wheels (airlocks) is steplessly adjustable from 0% to 100% with one mutual potentiometer to set the required mixing ratio from 1–99%. It is also possible to program a number of pre-set ratios (5%, 10%, 15%, etc.) to simplify the settings. The cell wheel (airlock) principle ensures an accurate mixing/metering independently of the pressure in the silos which are refilled by a blower. The system can also be delivered for existing silos.



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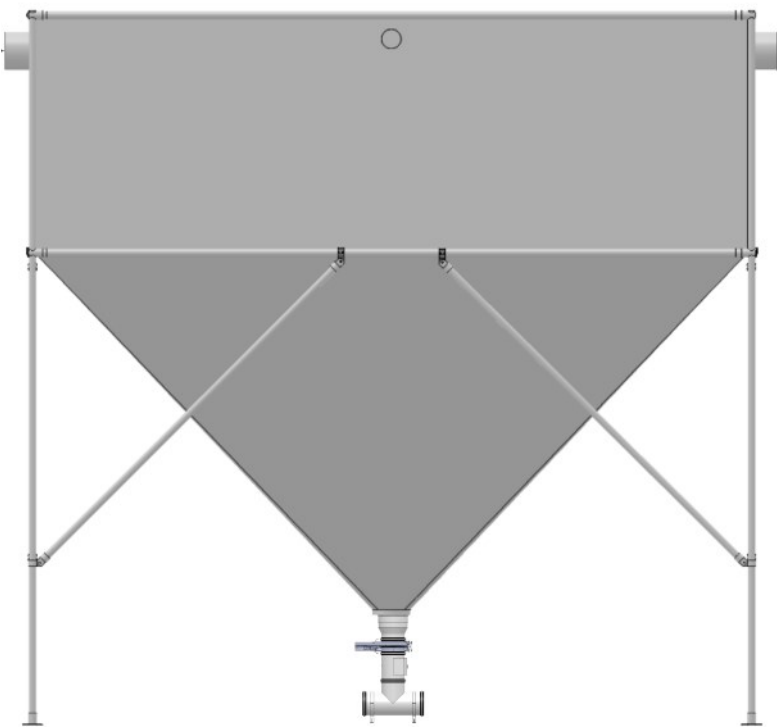
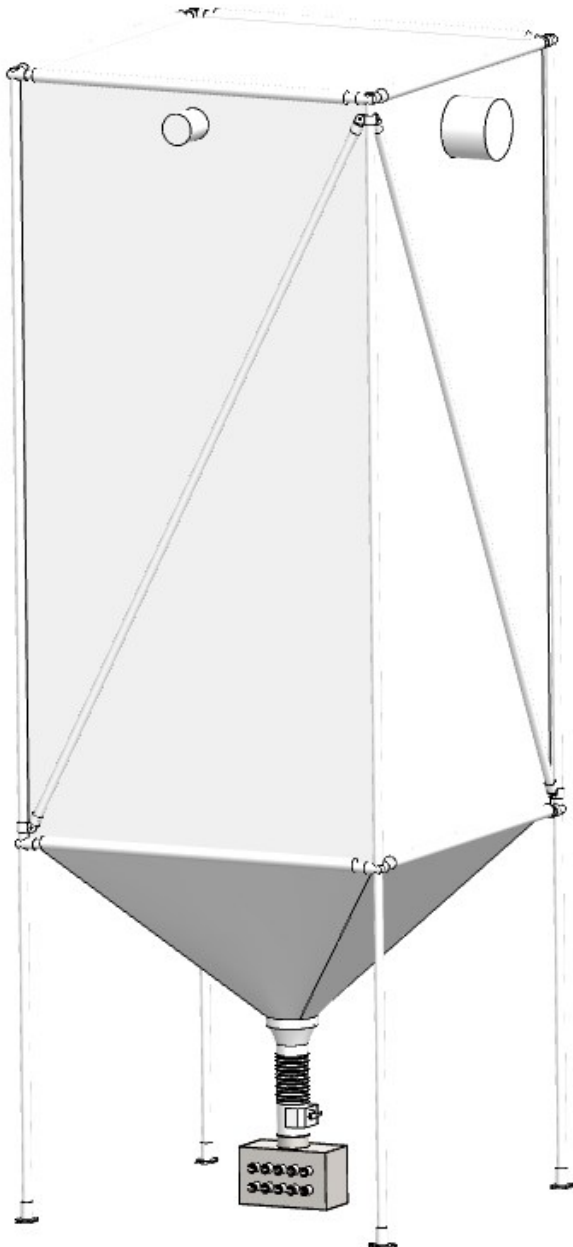
Technical Data sheet

STORAGE SILOS

KBM STORAGE SILOS DESIGNED FOR ANY NEED

Brand name: KBM SILO	KBM builds high quality storage silos for EPS, EPP, EPE, ARCEL®, NEOPOR®, PIOCELAN® We supply custom sized silos in different fabrics and solid approved galvanized steel rack guaranteeing a long life time.
SILO BAG MATERIAL	Dust proof antistatic polyester web with antistatic fibers with steel content. Liter/dm x min 200Pa (ISO9237) : 50
FILTER MATERIAL	Antistatic needle felt, dust proof with high air permeability. Liter/dm x min 200Pa (ISO 9237) : 250 or 400
RACK	1½" or 2" galvanized steel pipes.

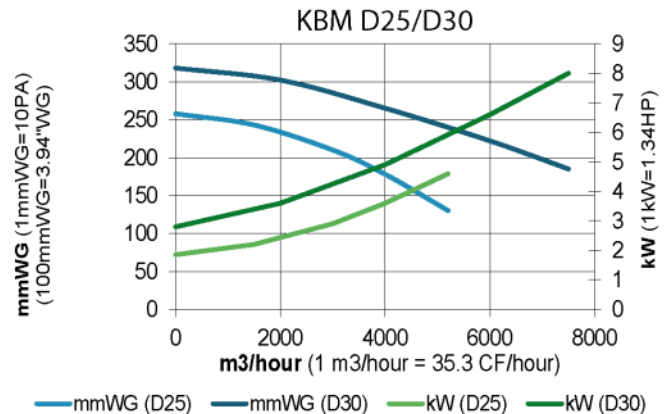
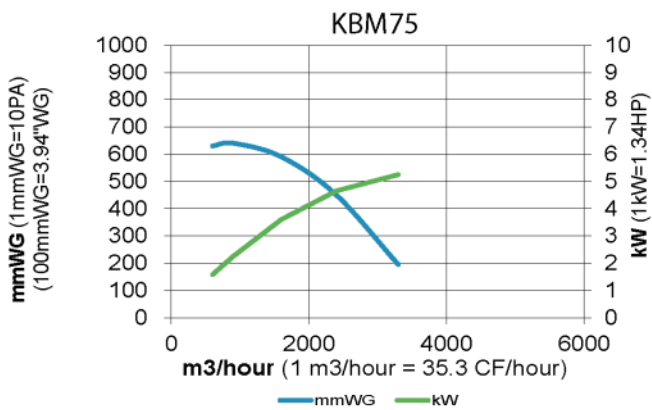
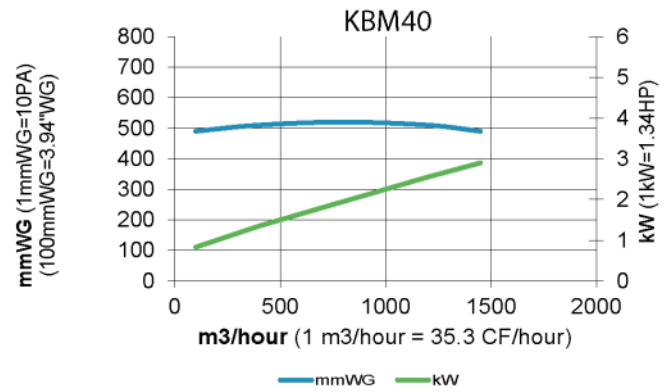
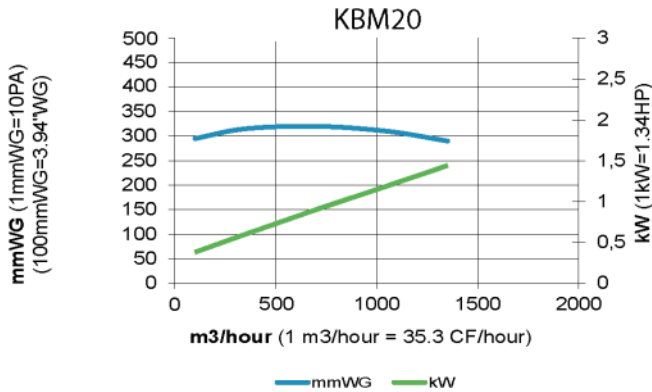
Bin leveler for silos.
Can be mounted in top and/or bottom to ensure full control



Technical Data sheet

MATERIAL TRANSPORT

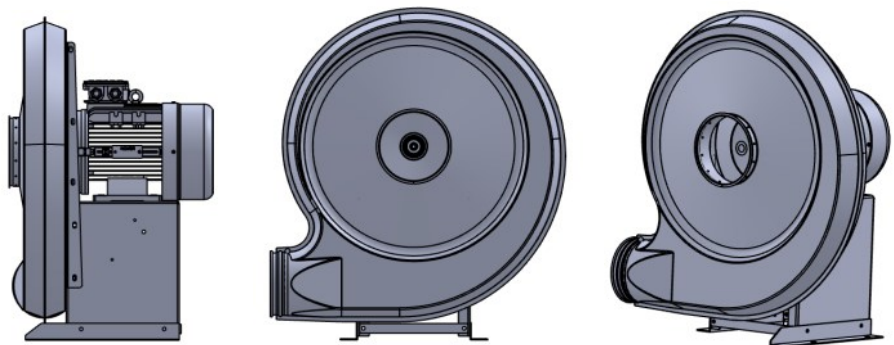
MATERIAL BLOWERS FOR PRE-CRUSHED & GRANULATED MATERIAL



KBM High Pressure blowers

KBM20
KBM40
KBM75

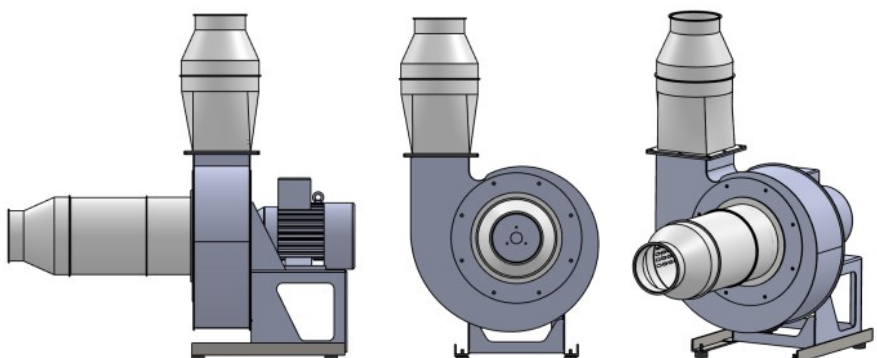
For conveying with air and air with dust. Larger models available.



KBM Material blowers

KBM D25
KBM D30

For conveying material directly through the blower (Beads and/or pre-crushed). Larger models available.





Technical Data sheet

DUCTS & SILO EQUIPMENT

DAMPERS/ SHUTTERS AND DISTRIBUTION BOXES

KBM Silo Components

VENTURI Material transport

This system offers the advantage of bypassing the pre-crushed material through the blower fan.

This is a significant advantage, when you aim to preserve the material after pre-foaming or to avoid damage to your blower when conveying high density materials.

The KBM venturi can be supplied in a variety of dimensions and high pressure blowers to match your needs.

Item No. 21340.20 Ø250

Item No. 21340.40 Ø300

Item No. 21340.50 Ø350

Contact us for more information on motor and blower specifications.

Ducts & Bends

Smooth galvanized ducts and bends available in sizes Ø160, Ø200, Ø250, Ø300, Ø350.

Additional items as telescopic ducts and wall/floor mounting clamps, manual and pneumatic diverters etc. are also available.



Technical Data sheet

DUCTS & SILO EQUIPMENT

DAMPERS/ SHUTTERS AND DISTRIBUTION BOXES

KBM Silo Components

MANUAL shutter for storage silos

Item No. 23600.xx

Built in galvanized steel. Available in many different sizes with various dimensions.

Complete set consists of:

- 1 x Reduction
- 1 x Manual damper
- 1 x T-pipe with 3 clamps
- 2 x Fittings for floor fixing

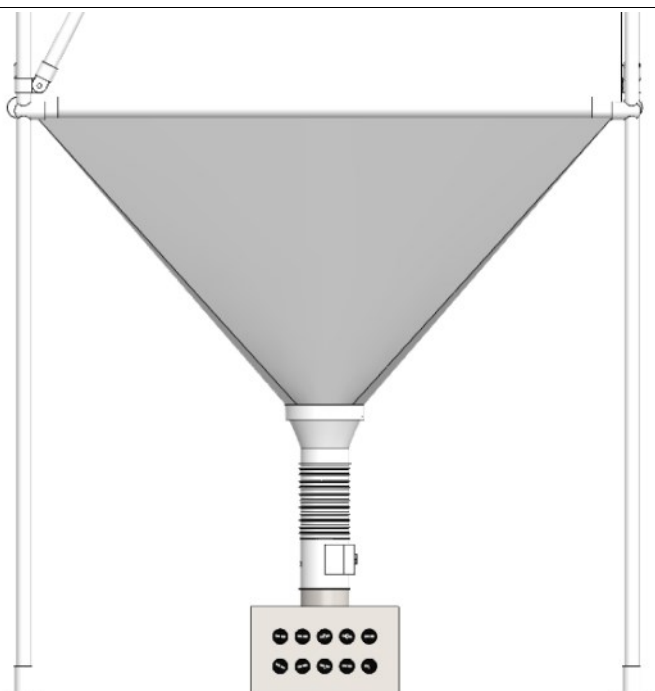
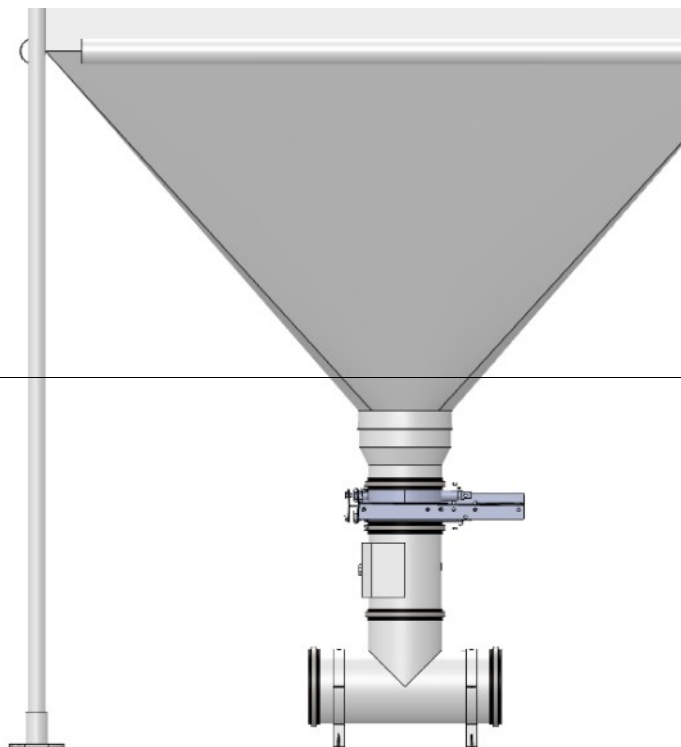
PNEUMATIC shutter for storage silos

Item No. 23600.10

Built in galvanized steel. Available in many different sizes with various dimensions.

Complete set consists of:

- 1 x Reduction
- 1 x Sliding damper (pneumatic)
- 1 x Manual damper for regulating material flow
- 1 x T-pipe with 3 clamps
- 2 x Fittings for floor fixing



Distribution box

Item No. 70002.00

Connectable for up to 10 hoses simultaneously. Constructed in coated steel and mountable below any storage silo.

Complete set consists of:

- 1 x Pipe 160 mm Ø with manual damper for adjusting the material flow
- 1 x Distribution box with 10 outlet connections
- 10 x Plugs
- Outlet stubs: 50mm Ø (OD)/46mm Ø (ID).



Technical Data sheet

MOBILE SILOS

DESIGNED FOR FLEXIBLE HANDLING,

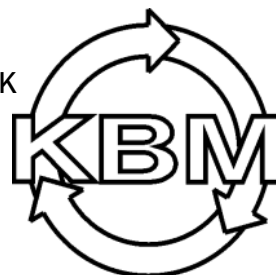
KBM FOLDABLE SILO

Height in use : 2.7 m (8.9')
During filling : 4.0 m (13.1')
Outer dimensions : 1.6 x 2.1 m (5.3' x 6.9')
(unfolded in use)
Outer dimensions : 0.4 x 3.7 m (1.3' x 12.1')
(folded for storage)
Volume : 4 m³ (140 ft³)
Made of antistatic, dust proof polyester fabric and
needle felt air venting top.
Incl. 1" rack made of galvanized pipes with
tube-clamps on lockable wheels.



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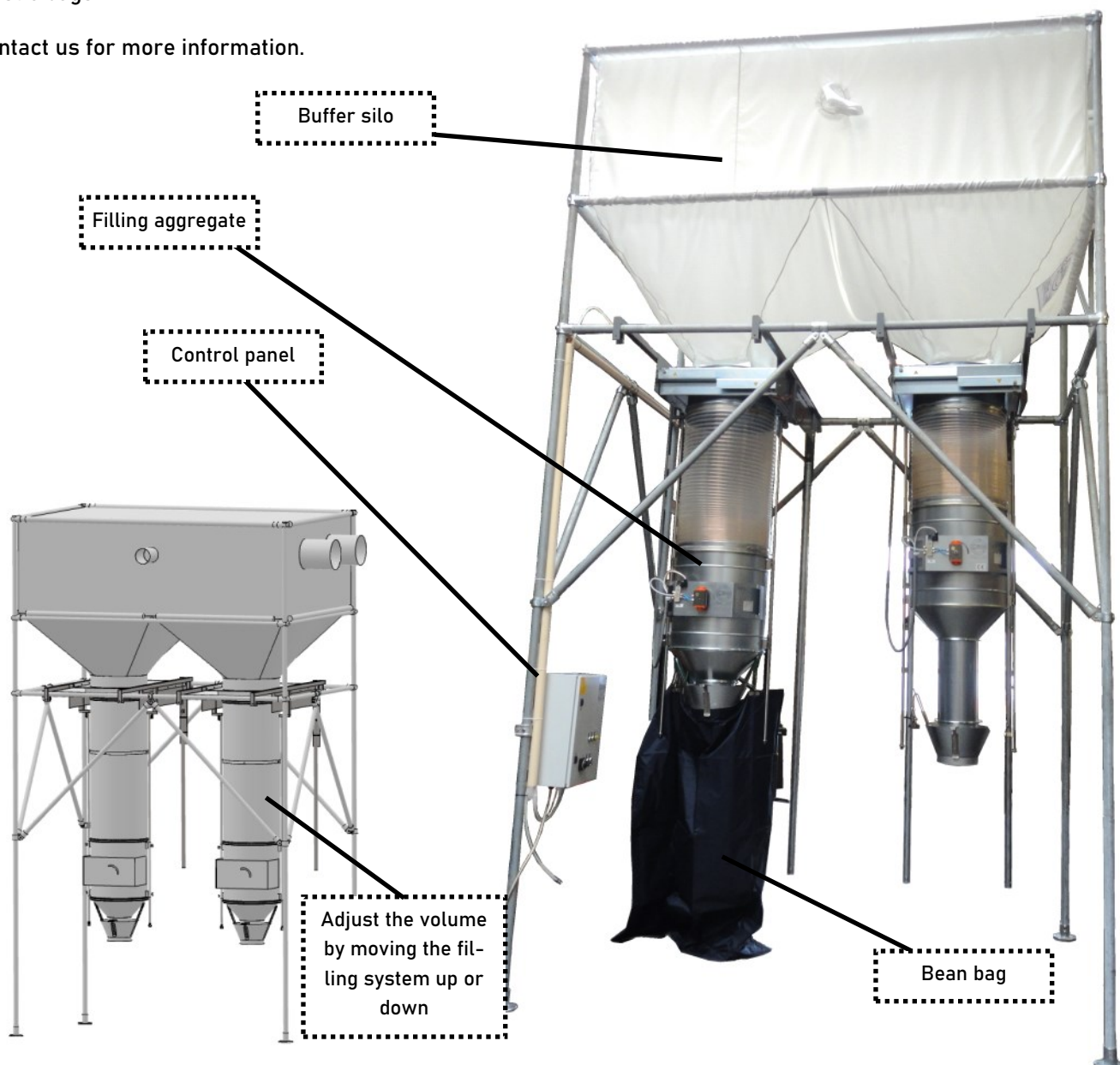
STYROFILLER

EASY AND FAST FILLING OF BAGS AND FURNITURE

The KBM Styrofiller for furniture filling can fill bean bags with EPS beads (Virgin or regrind) as well as similar foam materials. The KBM Styrofiller is designed to effectively fill bags with EPS material.

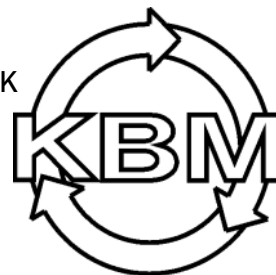
Easy and fast adjustment of the volume for each batch. Can also be used to fill a fixed volume of beads into plastic bags.

Contact us for more information.



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Since 1971

05-06-2025 | S21E | EN

RECYCLING SYSTEMS

PRODUCT RANGE & TECHNICAL DATA

KBM ApS was founded in 1971 by the late Mr. Kjeld Bentzen and is today run by his son Mr. Michael Bentzen. Since the beginning, the company has been supplying the EPS industry with high quality machinery.

A few years later in 1975, the Injektorking Vario Injectors for EPS were developed, and in 1978 KBM developed the first real recycling plant for EPS; later the same systems were developed to be used for EPP and EPE.

Over the years, KBM has designed recycling systems for companies of all sizes in the moulding industry. Combined crushers/compactors to handle post-consumer products of EPS, and mixing/metering systems have also been added to the line of products.

Contact us for arranging a visit at our demo facility. You can also contact us for a trial with INJEKTORKING injectors for a full mould and experience the true benefits in real time operation at your own plant.

Learn about our NANO, MICRO, MINI & MAXI
STYROPACTORS for EPS compacting and INJEKTORKING
fillgun series VARIO & LS on kbm-recycling.com

