



Since 1971

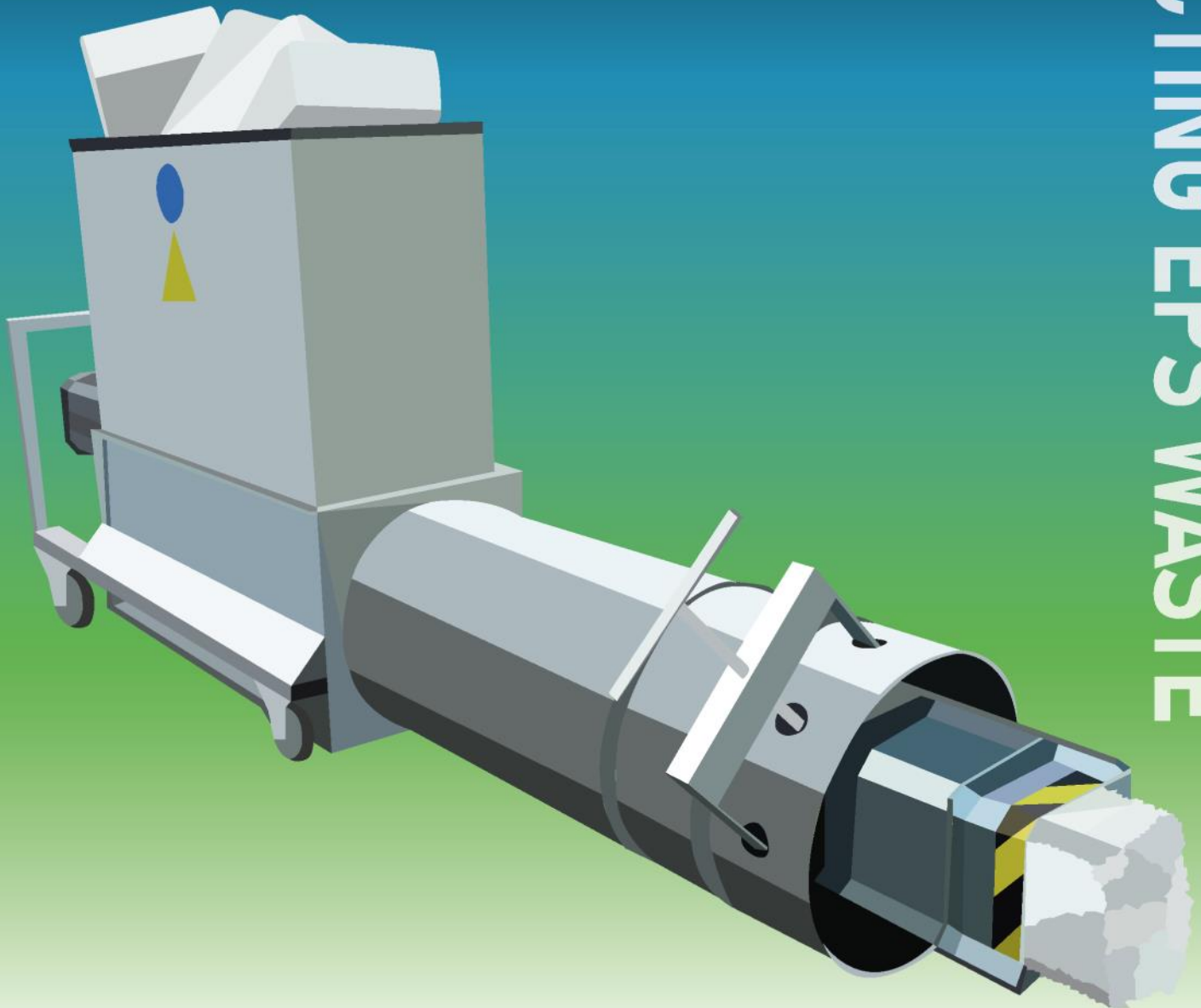


# STYROPACTOR

PRODUCT RANGE & TECHNICAL DATA

## NANO | MICRO | MINI | MAXI

High Durability - Easy Maintenance - Extreme Results  
Compacting EPS | EPP | EPE | Neopor® | Arcel® | Picolan®



COMPACTING EPS WASTE

# Technical Data sheet



# OVERVIEW STYROPACTOR

CAPACITIES RANGING FROM SMALL STORES VERSIONS TO INDUSTRIAL VOLUME MACHINES

KBM has decades of experience in designing and building highly efficient and durable EPS compactors, ready to match any need. They range from the smaller shop models for limited EPS waste handling to the larger industrial versions for high volumes.



## STYROPACTOR DATA

Model	NANO 1-phase	MICRO 1-phase	MICRO 1F-3-phase	MINI 1-phase	MINI 1F-3-phase	MINI 3-phase	MAXI	MAXI PLUS	MAXI XL PLUS
Item number	42020.00	42025.00	42026.00	42030.00	42032.00	42005.00	42055.00	42060.00	42062.00
Capacity. Measured with fish boxes made of 25 kg/m <sup>3</sup> density EPS	10-15 kg/h 22-33 lbs/h	15-20 kg/h 33-44 lbs/h	15-20 kg/h 33-44 lbs/h	15-20 kg/h 33-44 lbs/h	15-20 kg/h 33-44 lbs/h	35-45 kg/h 77-99 lbs/h	70-90 kg/h 154-198 lbs/h	110-130 kg/h 240-285 lbs/h	110-130 kg/h 240-285 lbs/h
Capacity measured in fish boxes with lids (650 grams per piece and approx. 800x400x220mm)	10-15 boxes/h	23-30 boxes/h	23-30 boxes/h	23-30 boxes/h	23-30 boxes/h	50-60 boxes/h	100-120 boxes/h	170-200 boxes/h	170-200 boxes/h
Wet boxes	YES	(yes*)	YES	(yes*)	YES	YES	YES	YES	YES
Non-corrosive	YES	YES	YES	YES	YES	YES	YES	YES	YES
Mobile (on wheels)	YES	YES	YES	YES	YES	YES	YES	YES	YES
Density (after compaction)	140-225 kg/m <sup>3</sup> 8.75 - 14 lbs/CuFt	175-225 kg/m <sup>3</sup> 11-14 lbs/CuFt	250-350 kg/m <sup>3</sup> 16-22 lbs/CuFt	175-225 kg/m <sup>3</sup> 11-14 l bs/CuFt	250-350 kg/m <sup>3</sup> 16-22 lbs/CuFt	250-350 kg/m <sup>3</sup> 16-22 lbs/CuFt	250-350 kg/m <sup>3</sup> 16-22 lbs/CuFt	250-350 kg/m <sup>3</sup> 16-22 lbs/CuFt	250-350 kg/m <sup>3</sup> 16-22 lbs/CuFt
Electrical (can be delivered with other voltages)	1,5kW 1-phase 230/110 V 50-60Hz	1,5kW 1-phase 230/110 V 50-60 Hz	2,2kW 3-phase 400 V / 50 Hz 480 V /-60 Hz	1,5kW 1-phase 230/110 V 50-60 Hz	2,2kW 3-phase 400 V / 50 Hz 480 V /- 60 Hz	4,0kW 3-phase 400V / 50Hz 480V / 60Hz	7,5kW 3-phase 400V / 50Hz 480V / 60Hz	11kW 3-phase 400V / 50Hz 480V / 60Hz	15kW 3-phase 400V / 50Hz 480V / 60Hz
Inlet opening	300x490 mm 11.8"x 19.3"	400x500 mm 15.7"x19.7"	400x500 mm 15.7"x19.7"	400x780 mm 15.7"x30.7"	400x780 mm 15.7"x30.7"	400x780 mm 15.7"x30.7"	560x1000 mm 22"x39.3"	560x1000 mm 22"x39.3"	560x1400 mm 22"x39.3"
Length	1650 mm/ 65"	1950mm / 77"	1950mm / 77"	2220mm / 87"	2220mm / 87"	2350mm / 93"	3200mm / 126"	3700mm / 146"	4200mm / 166"
Height	1400 mm/ 55"	1600mm / 63"	1600mm / 63"	1600mm / 63"	1600mm / 63"	1600mm / 63"	1600mm / 63"	1600mm / 63"	1600mm / 63"
Width	660 mm/ 26"	630mm / 25"	630mm / 25"	630mm / 25"	630mm / 25"	630mm / 25"	870mm / 34"	870mm / 34"	870mm / 34"

*\*You can feed the Styropactor with wet boxes, but it does not have enough power to compact them properly. Please see other models for wet boxes.*

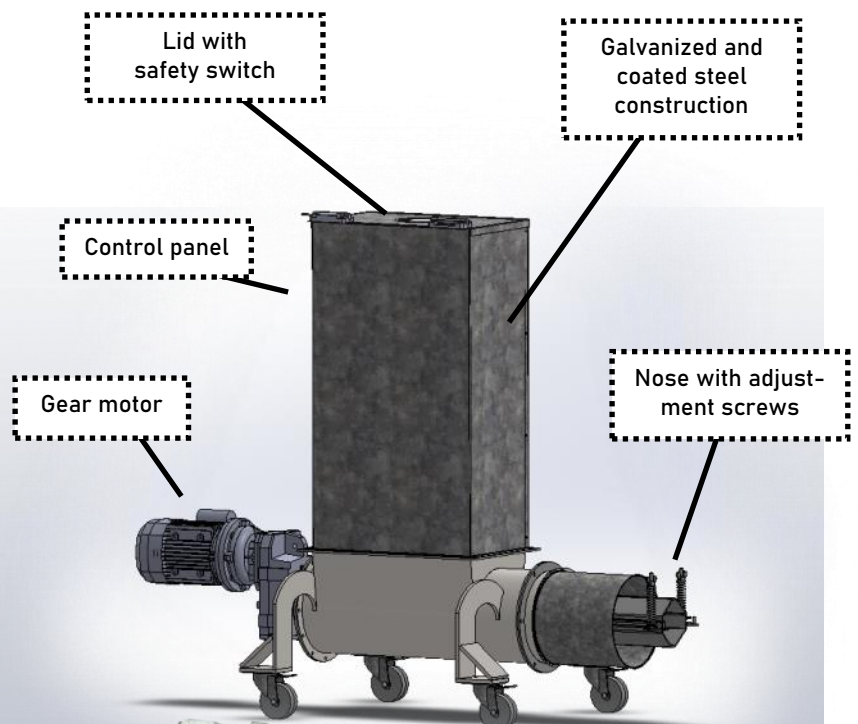
# Technical Data sheet

# STYROPACTOR NANO

SUITED FOR SMALL STORES, SUPERMARKETS & FISH SHOPS  
WITH LIMITED SPACE AND WASTE



Model	NANO 1-phase
Item number	42020.00
Capacity. Measured with fish boxes made of 25 kg/ m <sup>3</sup> density EPS	10-15 kg/h 22-33 lbs/h
Capacity measured in fish boxes with lids (650 grams per piece and approx. 800x400x220mm)	10-15 boxes/h
Wet boxes	YES
Non-corrosive	YES
Mobile (on wheels)	YES
Density (after compaction)	140-225 kg/m <sup>3</sup> 8.75 - 14 lbs/CuFt
Electrical (can be delivered with other voltages)	1,5kW 1-phase 230/110 V 50-60Hz
Inlet opening	300x490 mm 11.8"x 19.3"
Length	1650 mm/ 65"
Height	1400 mm/ 55"
Width	660 mm/ 26"



# Technical Data sheet

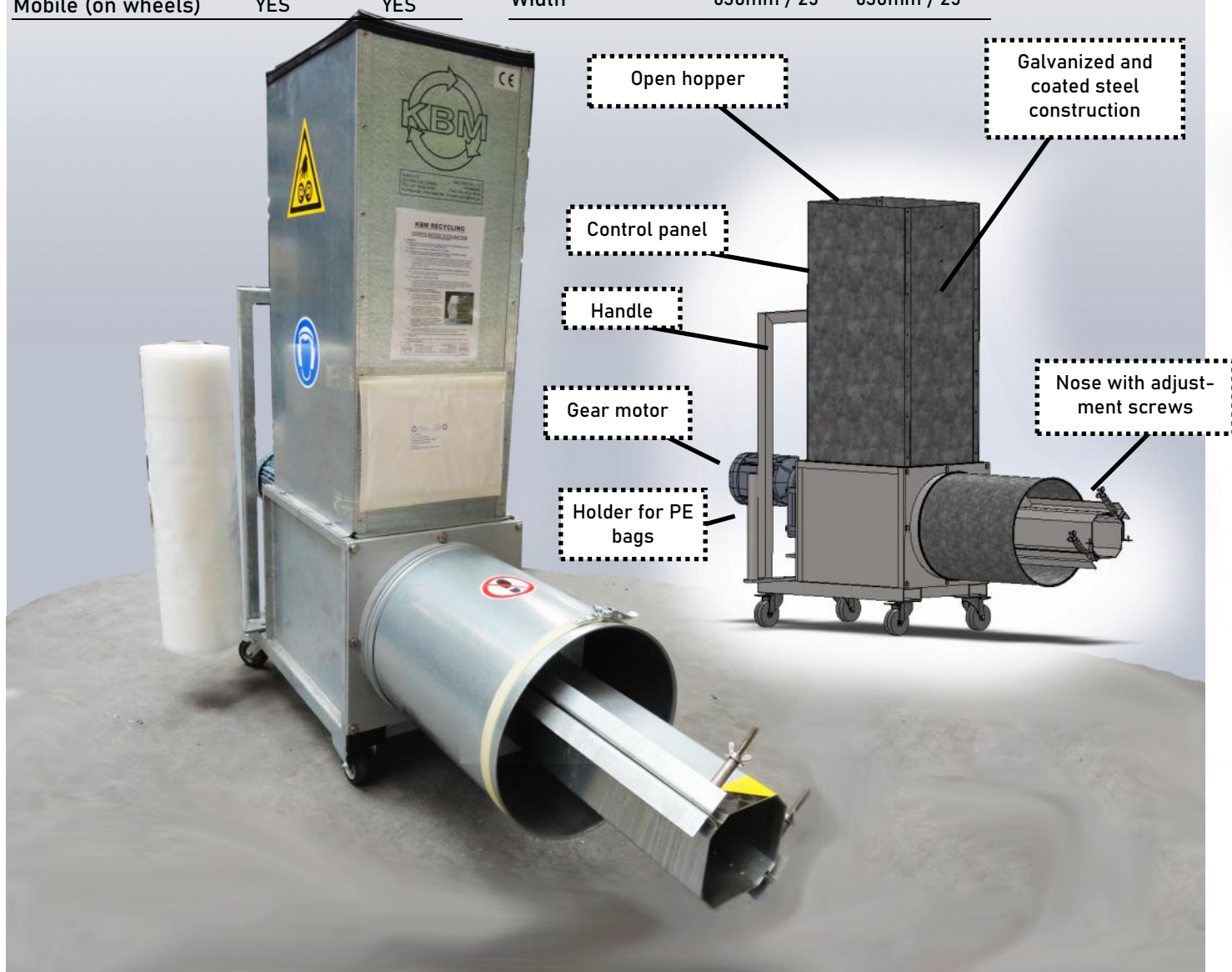


## STYROFACTOR MICRO

SUITED FOR SMALL STORES, SUPERMARKETS & FISH SHOPS  
WITH LIMITED SPACE AND WASTE

Model	MICRO 1-phase	MICRO 1F-3-phase
Item number	42025.00	42026.00
Capacity. Measured with fish boxes made of 25 kg/m <sup>3</sup>	15-20 kg/h 33-44 lbs/h	15-20 kg/h 33-44 lbs/h
Capacity measured in fish boxes with lids (650 grams per piece and approx.	23-30 boxes/h	23-30 boxes/h
Wet boxes	(yes*)	YES
Non-corrosive	YES	YES
Mobile (on wheels)	YES	YES

Density (after compaction)	175-225 kg/m <sup>3</sup> 11-14 lbs/CuFt	250-350 kg/m <sup>3</sup> 16-22 lbs/CuFt
Electrical (can be delivered with other voltages)	1,5kW 1-phase 230/110 V 50-60 Hz	2,2kW 3-phase 400 V / 50 Hz 480 V / -60 Hz
Inlet opening	400x500 mm 15.7"x19.7"	400x500 mm 15.7"x19.7"
Length	1950mm / 77"	1950mm / 77"
Height	1600mm / 63"	1600mm / 63"
Width	630mm / 25"	630mm / 25"



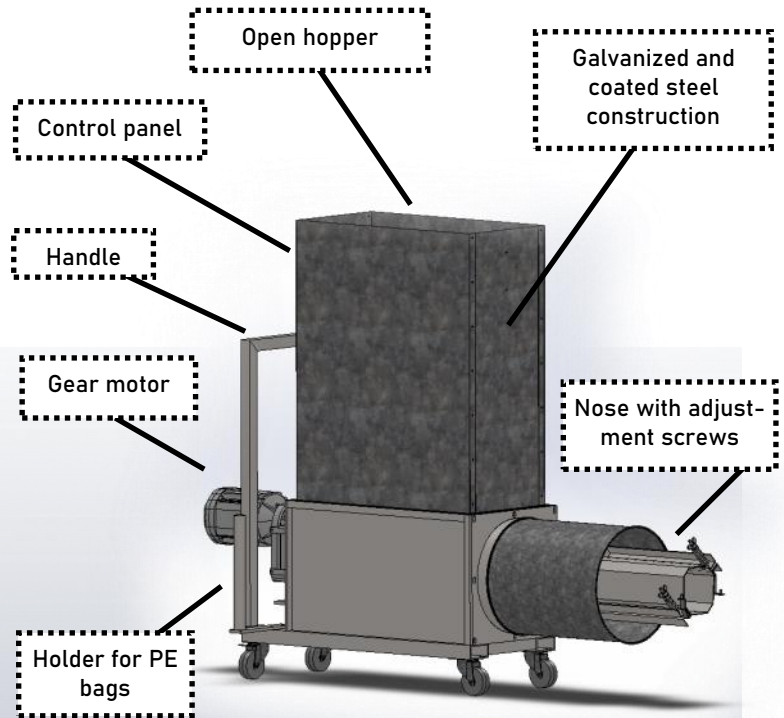
# Technical Data sheet

# STYROPACTOR MINI

SUITED FOR LARGE SHOPS AND INDUSTRIAL PRODUCTIONS



Model	MINI 1-phase	MINI 1F-3-phase	MINI 3-phase
Item number	42030.00	42032.00	42005.00
Capacity. Measured with fish boxes made of 25 kg/m <sup>3</sup> density EPS	15-20 kg/h 33-44 lbs/h	15-20 kg/h 33-44 lbs/h	35-45 kg/h 77-99 lbs/h
Capacity measured in fish boxes with lids (650 grams per piece and approx. 800x400x220mm)	23-30 boxes/h	23-30 boxes/h	50-60 boxes/h
Wet boxes	(yes*)	YES	YES
Non-corrosive	YES	YES	YES
Mobile (on wheels)	YES	YES	YES
Density (after compaction)	175-225 kg/m <sup>3</sup> 11-14 l bs/CuFt	250-350 kg/m <sup>3</sup> 16-22 lbs/CuFt	250-350 kg/m <sup>3</sup> 16-22 lbs/CuFt
Electrical (can be delivered with other voltages)	1,5kW 1-phase 230/110 V 50-60 Hz	2,2kW 3-phase 400 V / 50 Hz 480 V /- 60 Hz	4,0kW 3-phase 400V / 50Hz 480V / 60Hz
Inlet opening	400x780 mm 15.7"x30.7"	400x780 mm 15.7"x30.7"	400x780 mm 15.7"x30.7"
Length	2220mm / 87"	2220mm / 87"	2350mm / 93"
Height	1600mm / 63"	1600mm / 63"	1600mm / 63"
Width	630mm / 25"	630mm / 25"	630mm / 25"



STYROPACTOR MINI displayed as a crusher with mounted PE bag. The nose can be opened for crushing only as an alternative to the compacting function. This option is available on NANO, MICRO and MINI STYROPACTOR models. For larger crusher models, we refer to our Styrocruiser XL (see details in our Recycling leaflet).

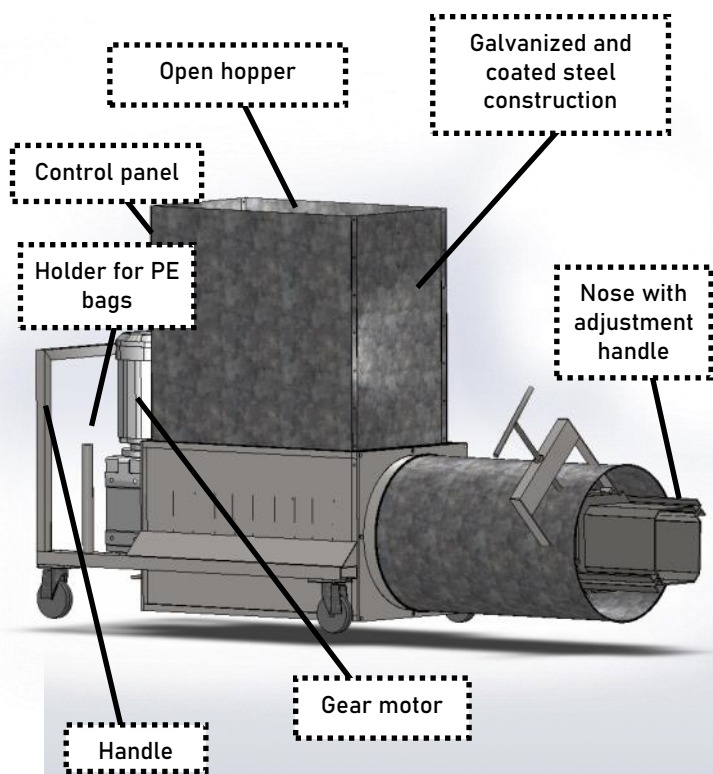


# Technical Data sheet



# STYROPACTOR MAXI

SUITED FOR INDUSTRIAL PRODUCTIONS AND MUNICIPAL WASTE COLLECTION SITES



Model	MAXI	MAXI PLUS	MAXI XL PLUS
Item number	42055	42060	42062.00
Capacity. Measured with fish boxes made of 25 kg/m <sup>3</sup> density EPS	70-90 kg/h 154-198 lbs/h	110-130 kg/h 240-285 lbs/h	110-130 kg/h 240-285 lbs/h
Capacity measured in fish boxes with lids (650 grams per piece and approx. 800x400x220mm)	100-120 boxes/h	170-200 boxes/h	170-200 boxes/h
Wet boxes	YES	YES	YES
Non-corrosive	YES	YES	YES
Mobile (on wheels)	YES	YES	YES
Density (after compaction)	250-350 kg/m <sup>3</sup> 16-22 lbs/CuFt	250-350 kg/m <sup>3</sup> 16-22 lbs/CuFt	250-350 kg/m <sup>3</sup> 16-22 lbs/CuFt
Electrical (can be delivered with other voltages)	7,5kW 3-phase 400V / 50Hz 480V / 60Hz	11kW 3-phase 400V / 50Hz 480V / 60Hz	15kW 3-phase 400V / 50Hz 480V / 60Hz
Inlet opening	560x1000 mm 22"x39.3"	560x1000 mm 22"x39.3"	560x1400 mm 22"x39.3"
Length	3200mm / 126"	3700mm / 146"	4200mm / 166"
Height	1600mm / 63"	1600mm / 63"	1600mm / 63"
Width	870mm / 34"	870mm / 34"	870mm / 34"



# Technical Data sheet

# STYROFACTORS

## FEATURES AND OPTIONS



The compactors STYROFACTOR MICRO, MINI and MAXI reduce the volume of EPS parts approx. 20-40 times with both dry and wet material (also fish boxes). The STYROFACTORS are made non-corrosive and can be used in a rough environment.

The STYROFACTORS can also be made in a version where crushed material is filed into plastic bags with a blower. The STYROFACTORS can without any alterations be used as a pre-crusher for EPS collection in bags of any size or without a bag.

The STYROFACTORS are filled vertically. Consequently pieces of any length can be introduced. The STYROFACTORS are "mobile" and can be used in any fish processing industry, supermarket, department store etc. where EPS packaging appears.

The STYROFACTORS reduce transportation costs drastically.

## KBM STYROFACTOR

A container full of 300 fishboxes



Before

After



### Options & Features

All Styrofactores (Except for the biggest models) can optionally be delivered with a tub to collect dust and particles in order to keep a clean environment around your Styrofactor.

Our NANO, MICRO & MINI Styrofactores can also be delivered with an exit tray, in order to break off the compacted bricks to your desired length.

All Styrofactores can compact EPS to relatively high density as well as be used to crush the waste into lumps, which can then be used for other purposes.

# 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.



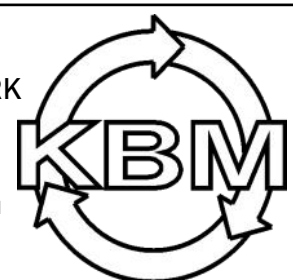
The MAXI and JUMBO pre-crushers are designed to separate and collect metal parts, stones and other very heavy parts which may find their way to the hopper. These heavy parts are collected in the bottom of the machine and can be removed through an easily accessible opening.

In order to collect parts of wood, plastic and other parts as well, before they reach the blower, our heavy particle separator, which is placed between the pre-crusher and the blower for pre-crushed material is recommendable.



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KBM ApS guarantees that the product meets the specification above. The keeping, handling and use of the products are beyond the control of KBM ApS, and therefore shall not invoke any responsibility of the company. This TD substitutes and deletes all previous versions.



# Technical Data sheet

# PRE-CRUSHERS

## HEAVY DUTY PRE-CRUSHERS WITH HIGH CAPACITY

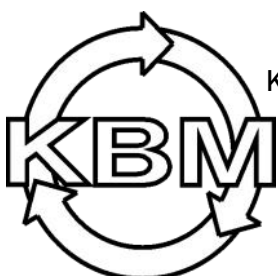
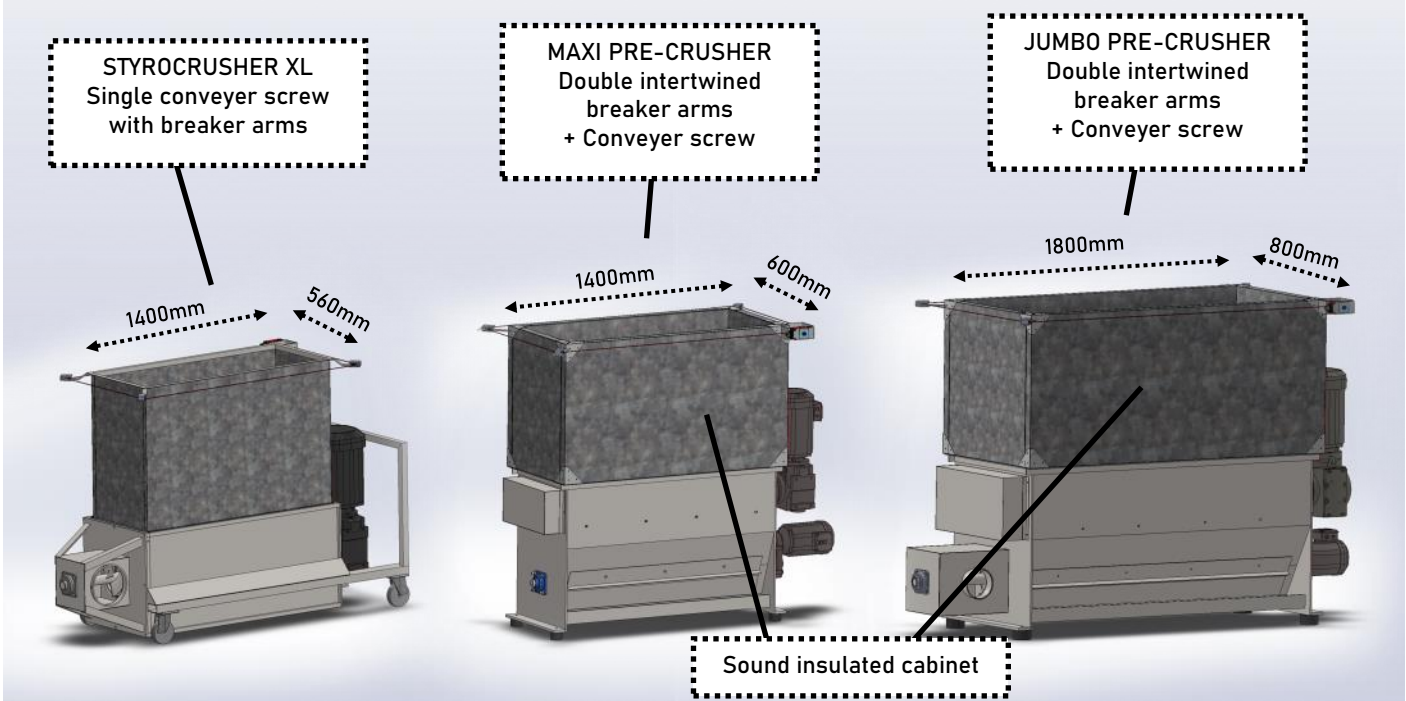


Brand name	STYROCRUSHER XL	MAXI PRE-CRUSHER	JUMBO PRE-CRUSHER
<b>Measurements</b>			
Hopper opening	1400 x 560 mm (4'8"x1'10")	1400 x 600 mm (4'8"x2")	1800 x 800 mm (5'11"x2'8")
Length <sup>1</sup>	2400mm (7'10")	1900mm (6'3")	2400mm (7'11")
Width <sup>1</sup>	900mm (3'0")	800mm (2'8")	1100mm (3'7")
Height <sup>2</sup>	1600mm (5'3")	1800mm (5'11")	1800mm (5'11")
<b>Capacity</b>			
	8 - 10 m <sup>3</sup> /hour 280 - 350 ft <sup>3</sup> /hour	25 - 30 m <sup>3</sup> /hour 880 - 1060 ft <sup>3</sup> /hour	60 - 100 m <sup>3</sup> /hour 2100 - 3500 ft <sup>3</sup> /hour
Max density std. version	40 - 60 g/l	35 - 40 g/l	35 - 40 g/l
Max density HD version <sup>3</sup>	N/A	50 - 100 g/l	50 - 80 g/l
<b>Electrical load</b>			
Pre-crusher	5,5 kW	6,2 <sup>2</sup> kW	11,2 <sup>2</sup> kW
Blower	2,2 kW	2,2 kW	5,5 kW

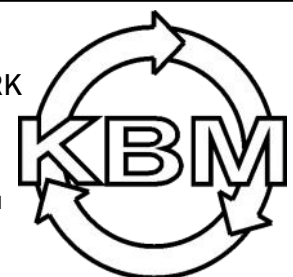
<sup>1</sup> Measurements without blower.

<sup>2</sup> Incl. built-in conveyor screw under pre-crusher

<sup>3</sup> Maximum density range depending on scrap characteristics



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# Technical Data sheet

# MULTIPLE CONFIGURATIONS

CONFIGURE OUR SOLUTIONS TO YOUR NEEDS

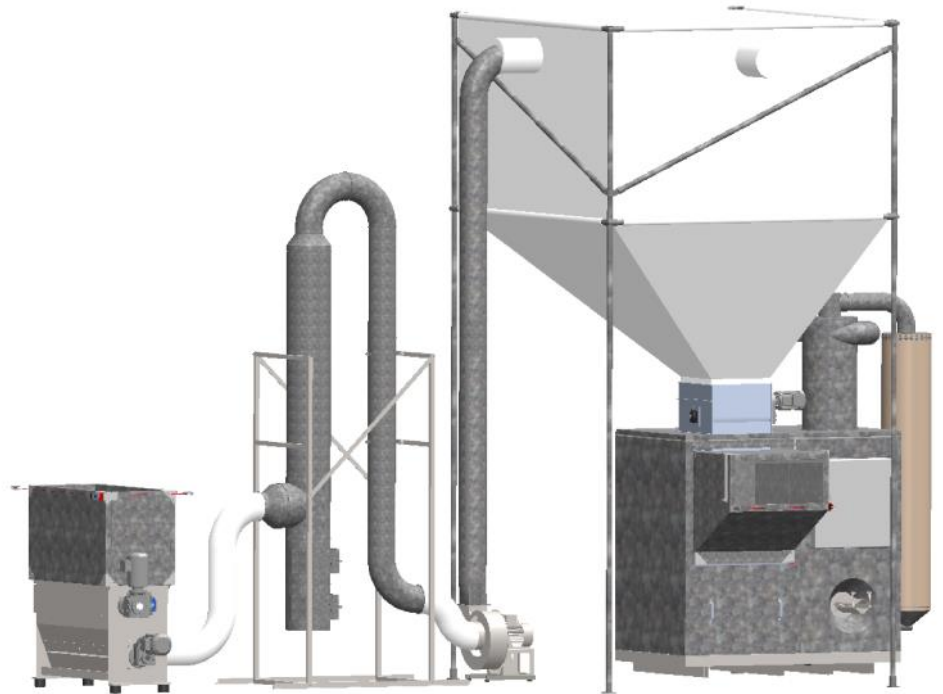


KBM Pre-crushers can be used in many ways and with multiple units depending on the scope of your project.

With a wide range of Pre-crushers and add-ons like Heavy-parts separator and Venturi solutions, you can optimize work flow and quality of your recycled material.

The graphic on the right, illustrates our Pre-crusher Maxi with a Heavy-Parts filter connected to a feeding silo with dosing unit that feeds the Mini in-a-box complete recycling unit.

With this setup, you can collect large EPS/EPP scrap from external sources that are dirty or contaminated with plaster, gypsum etc. and then turn it into valuable EPS beads that can be remixed into your moulding process.

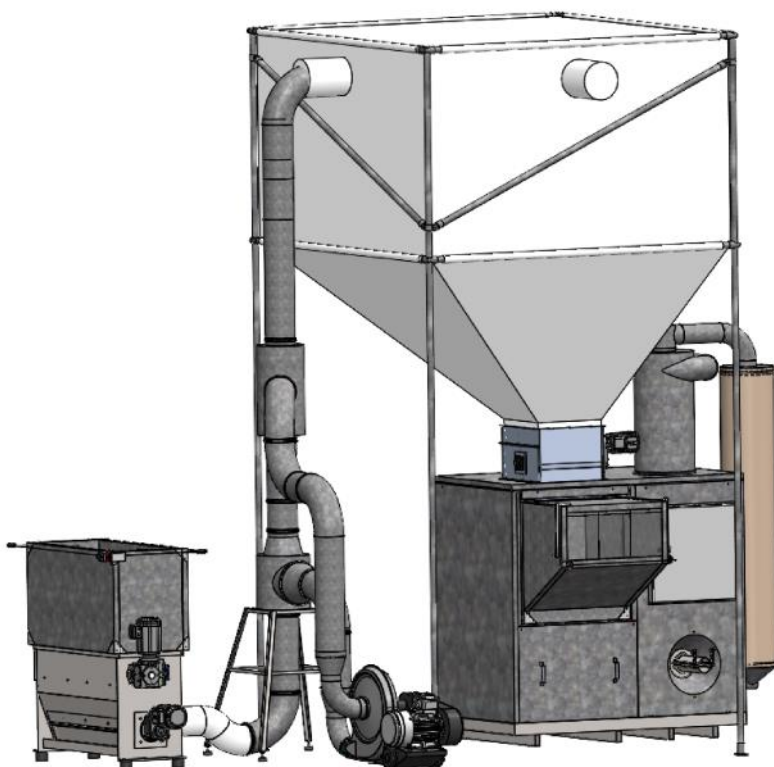


KBM Pre-crushers can be used in many ways and with multiple units depending on the scope of your project.

With a wide range of Pre-crushers and add-ons like Heavy-parts separator and Venturi solutions, you can optimize work flow and quality of your recycled material.

The graphic on the left, illustrates our Pre-crusher Maxi with a Venturi blower system connected to a feeding silo with dosing unit that feeds the Mini in-a-box complete recycling unit.

This system offers the advantage of bypassing the pre-crushed material through the blower fan. This is a huge advantage to preserve the material as well as to avoid damage to your blower.



## MULTIPLE CONFIGURATIONS

CONFIGURE OUR SOLUTIONS TO YOUR NEEDS

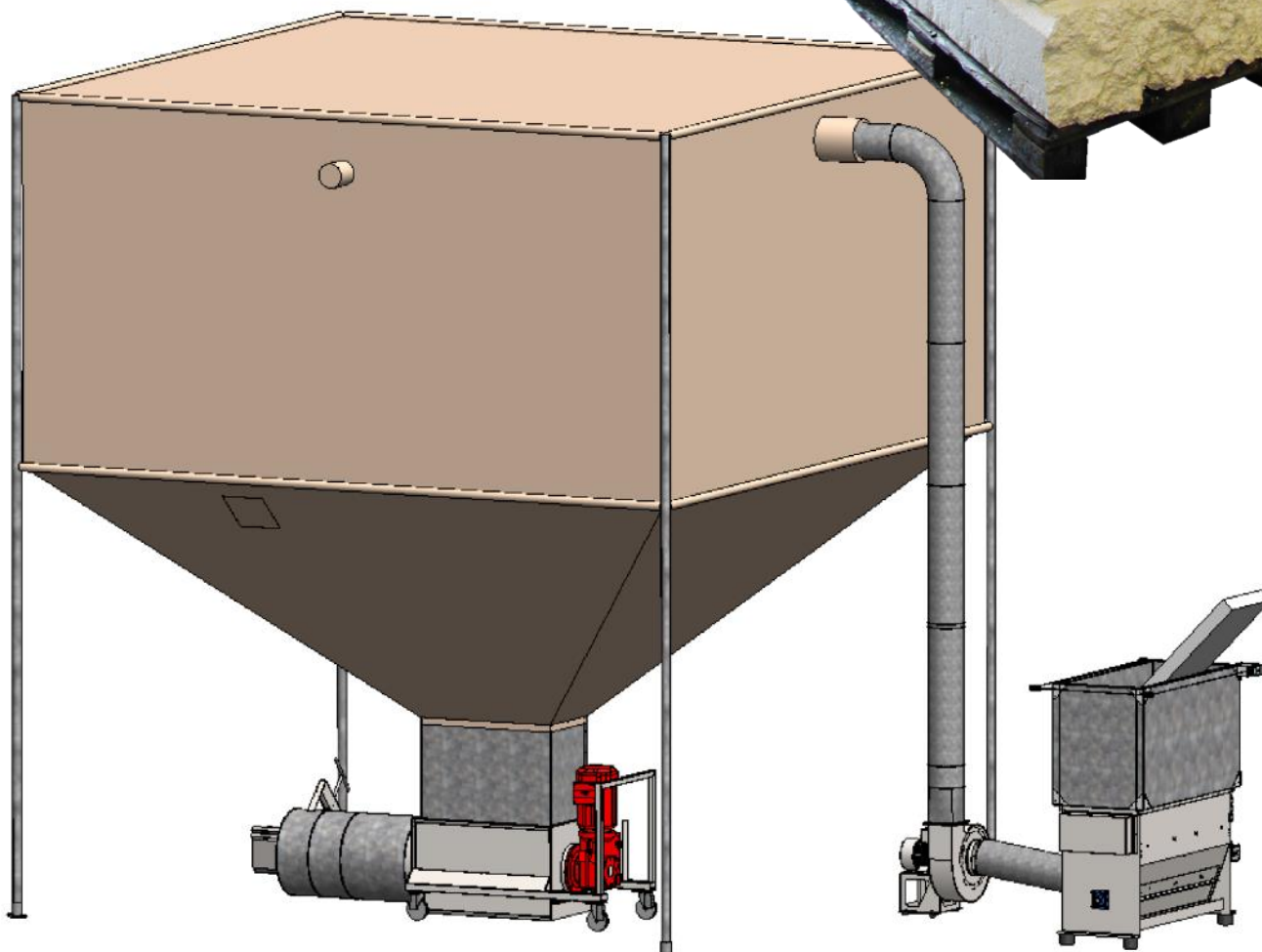


### Combine Your Styropactor with A Feeding Silo and Pre-crusher

Increase capacity and flexibility on your Styropactor with a combination of a KBM Pre-crusher and a feeding silo. With this configuration you achieve improved workflow without relying on capacity limitations related to the compacting process.

The configuration can be tailored to your specific needs. If you have limited space, you can e.g. place the feeding silo with the Styropactor on one location, and then place the Pre-crusher on another location or in the area where your waste source is—to reduce handling and internal transport.

You can even combine the pre-crusher with a heavy parts filter (see on the left side), if you plan to compact external unwanted contaminated EPS waste with e.g. plaster, cement, nails etc.





Since 1971

# STYROPACTOR

PRODUCT RANGE & TECHNICAL DATA

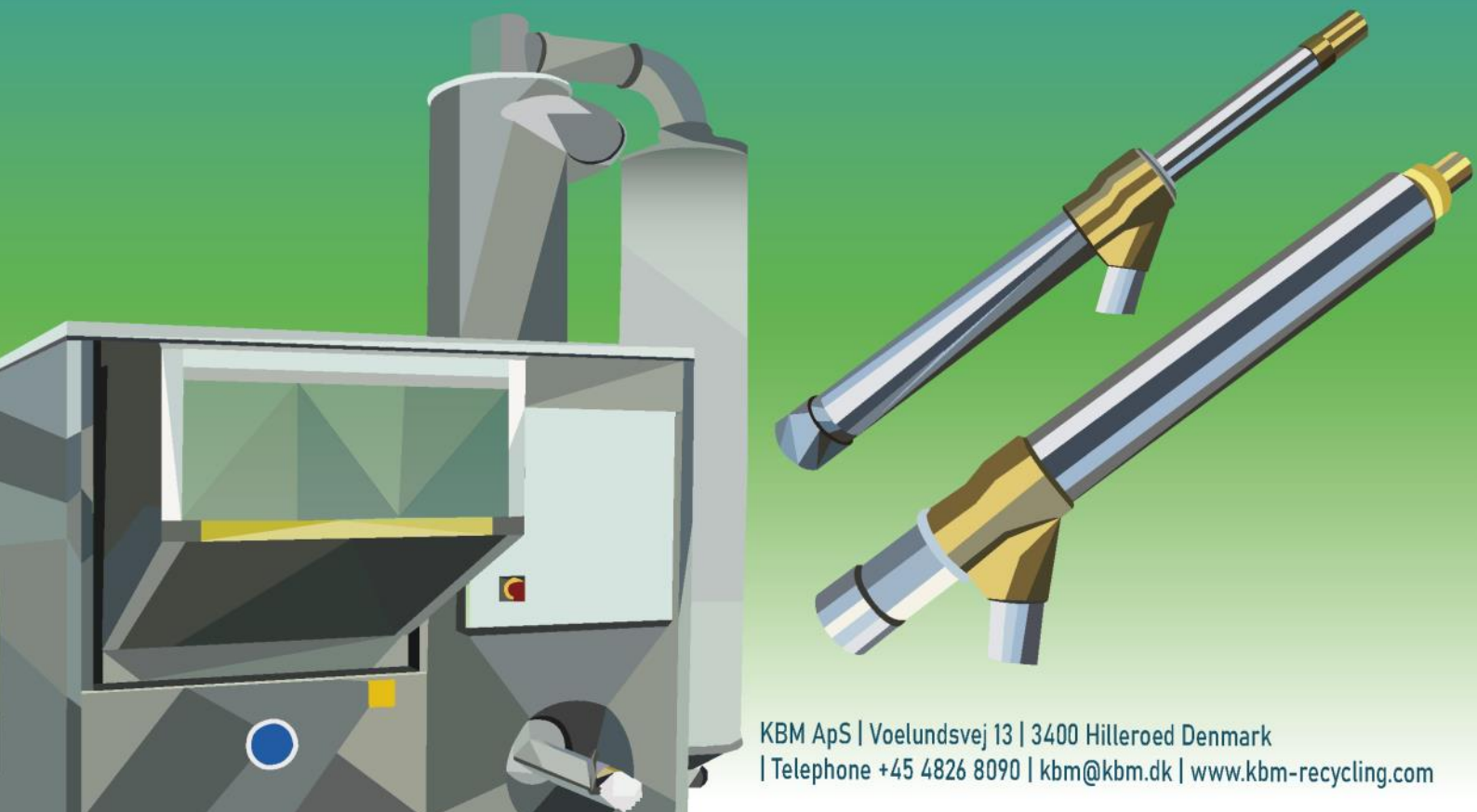
KBM ApS was founded in 1971 by the late Mr. Kjeld Bentzen and is today run by his son Mr. Michael Bentzen. Since the beginning, the company has been supplying the EPS industry with high quality machinery.

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 EPS/EPP Recycling systems and INJEKTORKING VARIO & LS fillgun range on [kbm-recycling.com](http://kbm-recycling.com)



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