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M1	<div>BOX FILM THE N°1</div>				
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# SMART, FAST & EASY FILLING OR EMPTYING.

**The N°1 BoxFiltr can be used for stacking, filling, rotating & emptying boxes. All using the same machine. A powerful all-rounder throughout the year, during harvesting and grading. The various modules and options enable you to choose the best configuration to suit your requirements.**



## **Save on forklift movements**

The lift centres, stacks and destacks the boxes fully automatically. This enables you to save on forklift movements.



## **Improved ease of working**

The BoxFiltr increases ease of working and reduces the risk of errors. Thanks to the continuous feed flow you have a margin of up to three minutes for performing work other than steering the forklift. This enables you to work more safely and calmer.



## **Calculate the profit**

Multi-purpose; less forklift capacity; less waiting time when unloading; fill to the maximum. 140 tons p/h or 120 boxes p/h; boxes are evenly filled (on weight).



- **AUTOMATIC BOX CENTRING**
- **50% FEWER FORKLIFT MOVEMENTS**
- **NEATLY STACKED PILES**
- **MODULAR**



## Stacker and destacker module

# PEACE OF MIND.

**The lift centres, stacks and destacks the boxes fully automatically. This halves the number of forklift movements normally required.**

Thanks to the 3,000 kg lifting capacity, two or three full boxes can be stacked or destacked as well as several empty boxes.

VHM Machinery invented and developed the first clamping system for automatically centring boxes as soon as they are lifted. The boxes are always positioned upright on the conveyor and stacked upright on top of each other. Uniform, perfectly straight stacks of boxes.

### **Position / remove boxes at any given time**

The lift module is equipped with an intelligent safety system. When a forklift or person comes into the lift's danger zone, the lift goes into pause mode without interrupting the filling or discharging process. The lift starts up again automatically as soon as the forklift places or removes boxes. This happens regardless of the position of the lift.

### **Useful options:**

- > **centring roller conveyor:** makes sure that any boxes that are positioned crooked on the forks are placed upright on the roller conveyor;
- > **bumpers:** make sure that the lift module stays in place;
- > **reverse switch:** this enables you to operate the lift in two directions.

### **SPECS.**

**CAPACITY:** 140 boxes p/h

#### **STANDARD SIZE:**

1600 x 1200 x 1250 mm (l x w x h)

– adjustable to each box size

#### **MACHINE DIMENSIONS:**

2200 x 2000 x 2825 (l x w x h)

**BOX INSERT DEPTH:** 110 mm



- **CAPACITY: 120 BOXES P/H**
- **UNIFORM FILLING**
- **NO WASTE CONE**
- **FILLS BIGBAGS**
- **MODULAR + STANDALONE**



## Box & BigBag bunker filler module

# PRODUCT-FRIENDLY & FILLS FAST.

**The wide filling conveyor with dynamic fall breaker ensures a minimum drop height of your product. Speeds of on average 90 boxes p/h make the bunker filler one of a kind.**

The BoxFiltr increases safety and reduces the risk of errors. Continuous feed flow thanks to the various buffers that can handle up to 2.5 tonnes. This gives a margin of up to three minutes for performing work other than steering the forklift.

### **No waste cones, better storage!**

Thanks to the twin funnel design and adjustable descent rate with shock function, the product is evenly distributed in the box, no waste cones are formed and you can control the compactness of the filling. This allows you to fill as more or less densely as you wish and achieve the desired effect yourself during storage.

### **To measure is to know**

The bunker filling module comes with a weighing and registration system. This system ensures that the boxes are always filled to the set weight. Any dirt in the bunker will not influence the weight of the box. You can then see from the system how many boxes were filled and their weight.

The bunker filling module can be combined with the lift module or used standalone during harvesting and processing. For example, with the grader or for filling BigBags. The lift units are available for other configurations.

### **Useful options:**

- > **remote control:** easy, handy remote control;
- > **feed/discharge conveyors:** roller conveyors, power-driven or not, provide extra buffer capacity.

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### **BIGBAG-OPTION**

**BATTERY** for added convenience

**HYDRAULIC** optional

**BUMPER ROLLERS** optional

**FILLING WITH A FORKLIFT** see page 18

## **SPECS.**

**CAPACITY:** 120 boxes p/h

### **STANDARD SIZE:**

1600 x 1200 x 1250 mm (l x w x h)

– adjustable to each box size

### **MACHINE DIMENSIONS:**

2000 x 2150 x 4250 mm (l x w x h)

**COLLAPSED HEIGHT:** 3850 mm

**FILLING CONVEYOR WIDTH:** 1000 mm





- **-60° / +60° TUMBLING**
- **360° ROTATION AND 180° EMPTYING**
- **MODULAR AND STANDALONE**





## Box rotator module

# ROTATE & EMPTY BOXES IN 1 MODULE.

**The box rotator module is designed to provide versatility: fully automatic rotation, unloading and tilting to a set angle.**

This facilitates fully automatic box rotation using the stacking and destacking module. Stacking two or three boxes simultaneously presents no problem. Or place two boxes in a stacking module that has already been filled. So, no need for the forklift driver to wait for loading and unloading.

As an extra option, the boxes can be emptied with the rotator. This is done at the underside of the rotator with the aid of a discharge system and integrated discharge valves. Simply go to the operator's screen and select whether you want to unload immediately or rotate the box a couple of times before unloading.

### Neat refilling

The machine can also be used for just tilting backwards and forwards to a set angle. For example, when refilling, to fill up the corners of the boxes without disturbing the underlying product.

### Useful options:

- > **remote control:** easy, handy remote control;
- > **feed/discharge conveyors:** roller conveyors, power-driven or not, provide extra buffer capacity.
- > **discharge valves:** emptying boxes.

### SP=CS.

**CAPACITY:** 120 boxes p/h

**EMPTY CAPACITY:** 60 boxes p/h

#### STANDARD SIZE:

1600 x 1200 x 1250 mm (lxwxh)

– adjustable to each box size

#### MACHINE DIMENSIONS:

2300 x 2150 x 2400 mm (lxwxh)

**EMPTY OUT:** under machine



- **UNLOADING WITHOUT DROP HEIGHT**
- **EVEN DISCHARGE**
- **IN COMBINATION WITH BOX ROTATOR MODULE**
- **HIGH CAPACITY**



## EvenFlow discharge

# EVEN DISCHARGE WITHOUT DROP HEIGHT.

**Combine with the box rotator module to load boxes quickly and without harming the product. The large volume in the Even flow discharge means that a complete box can be emptied in one go. The Even flow discharge transforms an irregular feed flow into a regular one.**

When the box is suspended via the box rotator upside down above the Even flow discharge, a valve in the lid of the box rotator opens. The belt lowers when the product drops onto the discharge conveyor. There is therefore no drop height from within the box and the product is treated quickly and kindly.

### Several possibilities

As soon as the discharge conveyor discharges the product evenly via the 1500 mm wide belt, that belt goes back up again, so that the drop height of the next box emptying is also minimal.

The combination of the box rotator, including the Even flow discharge, makes for a unique configuration with several possibilities. Only rotating the box is still possible. The

advantage is that any falling soil falls onto the discharge conveyor. This keeps everything nice and clean. The boxes can also rotate before the box is unloaded.

### Useful options:

- > transverse discharge conveyor;
- > roller cleaner;
- > Flow Control sensor for outfeed.

### SPECS.

**FILLING CAPACITY:** 60 boxes p/h

**OUTFEED WIDTH:** 1480 mm

**COLLAPSED HEIGHT:** 1675 mm

**EXPANDED HEIGHT:** 1240 mm (min)

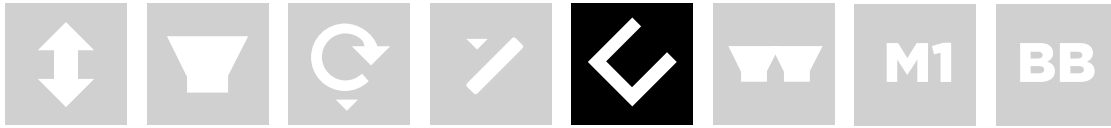
#### MACHINE DIMENSIONS:

3000 x 2000 x 1700 mm (l x w x h)

Various feeder belts possible



- **FILLING ALONG WIDE BOX SIDE**
- **LOW COLLAPSE**
- **FILLING IN LAYERS**
- **FILLING AND EMPTYING**
- **MODULAR AND STANDALONE**



## Tilting module

# TILTER FOR FILLING AND EMPTYING.

With a relatively low filling height of 2.6 metres and a wide filling conveyor of 1.3 metres, you can fill the box in layers with speeds of 55 to 100 boxes per hour. In combination with different feeding systems, the machine is suitable for various products such as potatoes, onions, onion sets, carrots, etc.

The machine can be equipped with buffers that can go up to 1 tonne. This gives a margin of up to three minutes for performing work other than steering the forklift. The work can be performed safer and the risk of errors is low.

### **Versatile filling system, fully adjustable to your needs**

Set the desired filling pattern on the operator's screen. This enables you to fill the boxes as desired. Fast, minimum drop height, use the tilting function or not, etc.

The tilting module also comes with a weighing and registration system. This system ensures that the boxes are always filled to the set weight. You can then see from the registration system how many boxes were filled and their weight.

The tilting module can also empty boxes. Each product can be brought to the processing line via the outflow funnel and a discharge conveyor.

### **Useful options:**

- > **remote control:** easy, handy remote control;
- > **feed/discharge conveyors:** roller conveyors, power-driven or not, provide extra buffer capacity.

## **SP=CS.**

**FILLING CAPACITY:** 55 – 100 boxes p/h

**EMPTY CAPACITY:** 60 boxes p/h

### **STANDARD SIZE:**

1600 x 1200 x 1250 mm (l x w x h)

– adjustable to each box size

**MACHINE DIMENSIONS:** 2250

x 2400 x 2300 mm (l x w x h)

**COLLAPSED HEIGHT:** ± 2500 mm

**FILLING CONVEYOR WIDTH:** 1300 mm



- **FILL BOXES EFFICIENTLY IN 10 SEC**
- **LEAN TECHNOLOGY**
- **UNIFORM BOX FILLING BASED ON WEIGHT**
- **FILLS BIGBAGS**





**TwinFilr**

# MINIMUM FORKLIFT WAITING TIME.

**High speeds can be achieved and forklift downtime can be used efficiently by continuously filling the weighing bunkers. 100 tonnes p/h is feasible.**

The means virtually continuous supply. The double BoxFilr has two filling bunkers equipped with weighing cells. When a bunker is full, the conveyor switches and the other bunker will be filled. The forklift places the box under the bunker, the flaps open and as soon as the box lowers, it fills up. The forklift drives away and picks up the next box. This minimises the downtime and ensures that the driver uses his time to the full.

## **No waste cones, better storage**

The twin filling funnel and adjustable descent rate of the box are designed to prevent waste cones forming and enable you to control the compactness. The box is not filled too compactly. The discharge weight is lower with no loss of volume. Consequently, the product dries quicker in the cold store.

## **Clever & multi-functional**

The tilting module also comes with a weighing and registration system option. This system ensures that the boxes are always filled to the set weight. Even if the bunker is dirty with soil. The registration system displays many boxes were filled and their weight.

The TwinFilr is also very suitable for using during the winter. For example, with the grader. Allow the bunker to fill up based on weight and then fill the BigBag or box.

## **Useful options:**

- > afstandsbediening: remote control with three buttons: start, stop or fill BigBags;
- > start control + external power supply.

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## **BIGBAG-OPTION**

**BATTERY** for added convenience

**HYDRAULIC** optional

**BUMPER ROLLERS** optional

**FILLING WITH A FORKLIFT** see page 18

## **SPECS.**

**CAPACITY:** 50/70 boxes p/h

### **STANDARD SIZE:**

1600 x 1200 x 1250 mm (l x w x h)

**MACHINE DIMENSIONS:** 4750 x 1500 x

min. 2700 – max. 3800 mm

**COLLAPSED HEIGHT:** 3850 mm

**VULBANDBREEDTE:** 800 mm

Available with fall breaker  
and buffer conveyor



Folding legs

Twin funnel for perfect  
product distribution

- **COMPACT**
- **EASY**
- **PERFECT PRODUCT DISTRIBUTION**
- **FILL BOXES + BIGBAGS**



## MonoFiltr

# MAXIMUM POWER MINIMUM EFFORT.

**MonoFiltr is VHM's most compact BoxFiltr. Pure power that processes 40 - 50 tonnes p/h standalone. The affordable powerhouse offers the typical advantages - minimum drop height, high speed, ease-of-use and extra BigBag Container option - for less than half the price.**

The MonoFiltr is extremely easy to use and minimises box handling. The compact BoxFiltr saves you for forklift movements per box, and increases safety and the workflow.

The boxes are filled by weight. This creates the distinctive airy product distribution feature of the box, which facilitates faster drying during storage.

An extremely solid design in accordance with industrial standards. The MonoFiltr has a low number of rotating parts, making it extremely stable and virtually fault-free. The MonoFiltr is easy to move.

The number of boxes and the total weights are registered by the machine and can be easily copied onto a USB stick and exported in PDF format. Naturally, the MonoFiltr is perfect for use all year round; an indispensable workhorse during the storing process and an asset in the grading line.

### Useful options:

- > **remote control:** easy, handy remote control;
- > **Sponge rubber & stainless steel cover.**

## BB

### BIGBAG-OPTION

**BATTERY** for added convenience

**HYDRAULIC** optional

**BUMPER ROLLERS** optional

**FILLING WITH A FORKLIFT** see page 18

## SPECS.

**CAPACITY:** 40-50 boxes p/h

### STANDARD SIZE:

1600 x 1200 x 1250 mm (l x w x h)

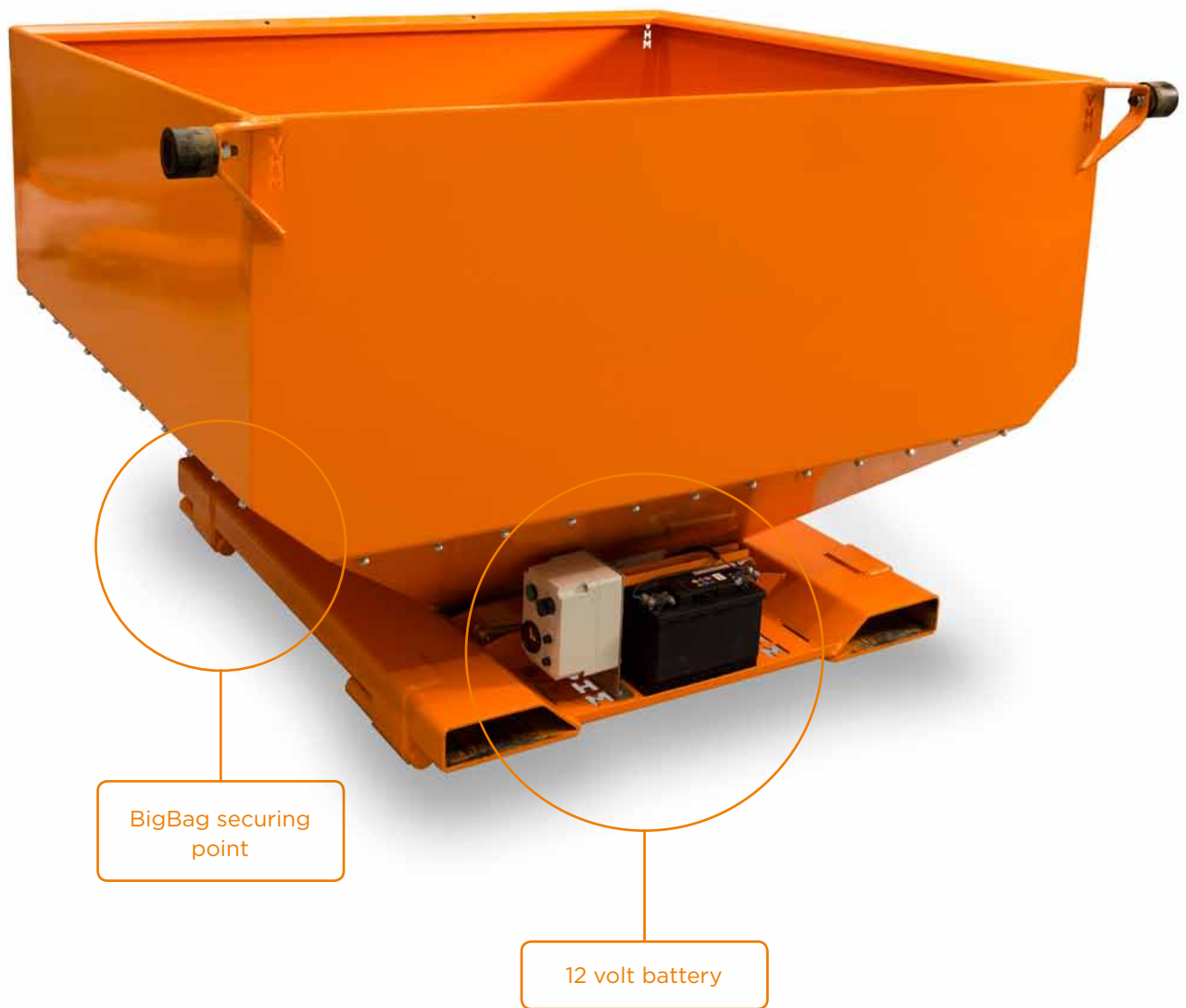
- adjustable to each box size

### MACHINE DIMENSIONS:

1500 x 2330 x 3600 mm (l x w x h)

**COLLAPSED HEIGHT:** 3450 mm

**FILLING CONVEYOR WIDTH:** 1000 mm



### **AVAILABLE VERSIONS:**

- **ELECTRIC**
- **HYDRAULIC**
- **AND MECHANICAL**



## BigBag Filler

# FILLS BIGBAGS IN NO TIME.

**This simple extra option changes any VHM BoxFiltr into a BigBag filler. Easy and affordable, double your BoxFiltr's performances. High speeds and clever production distribution enables you to use the BigBag Container to put any forklift to optimal use.**

The BigBag Container can be applied to the fully automatic equipment, the TwinFiltr and the MonoFiltr.

### **Unmistakable BoxFiltr filling**

For optimising BigBag filling, This innovative solution makes optimal use of the BigBag capacity by filling the BigBag while suspended. This makes standing on a pallet to fill a thing of the past. The result is sturdy, upright BigBags.

### **Useful options:**

- > sponge rubber cover;
- > available in hydraulic, electric or mechanical versions.

### **SP=CS.**

**CAPACITY:** 20/30 BigBags p/h

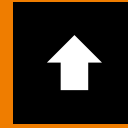
**MACHINE DIMENSIONS:**

1600 x 1500 x 1250 mm (lxwxh)



#### **Standalone bunker filler**

Fill boxes and Big Bags



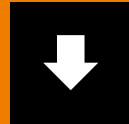
#### **Lift + bunker + lift**

Fill boxes fully automatically up to a maximum of 120 boxes p/h



#### **Standalone rotator**

Rotate and empty boxes



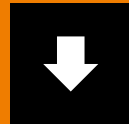
#### **Lift + rotator + lift**

Rotate and empty fully automatically



#### **Standalone tilting filler**

Fill boxes in layers and empty



#### **Lift + tilting filler + lift**

Fills and empties 60 to 100 boxes p/h fully automatically and product friendly (with/without tilting)

## **Configurations**

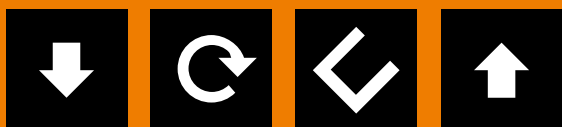
# **A TRUE ALL-ROUNDER ALL YEAR ROUND.**





#### **Lift + rotating & emptying + EvenFlow + lift + tilting filler**

Automatically rotates and empties boxes; interim lift as buffer station for empty or full boxes; filling station for filling boxes; EvenFlow combination for uniform outfeed flow



#### **Lift + rotating + tilting emptying module + lift**

Automatically empties boxes with option to rotate them before emptying. Change the rotating and tilting module around and fill boxes immediately and then rotate them



#### **EvenFlow discharge**

To be placed under a rotator to empty the box fast and evenly



#### **Double Bunker Filler**

Standalone boxes and Big Bags filling



#### **MonoFilr**

Standalone boxes and Big Bags filling



#### **Big Bag Filler**

Fully automatic, double bunker filler or Monofilr, Manoeuvrable thanks to battery

**The modules can be coupled and decoupled easily to create the ideal setup needed at any given time. This is what makes this machine so versatile and flexible. The machine is easy to move. Thanks to the self-centring catching system which is located in the same place on each module, one person can move and couple the different modules using a forklift truck.**

The N°1 BoxFilr modular system enables you to use the same machines to fill boxes during the harvesting period, and to rotate and/or empty boxes in the grading period in order to deliver your product.

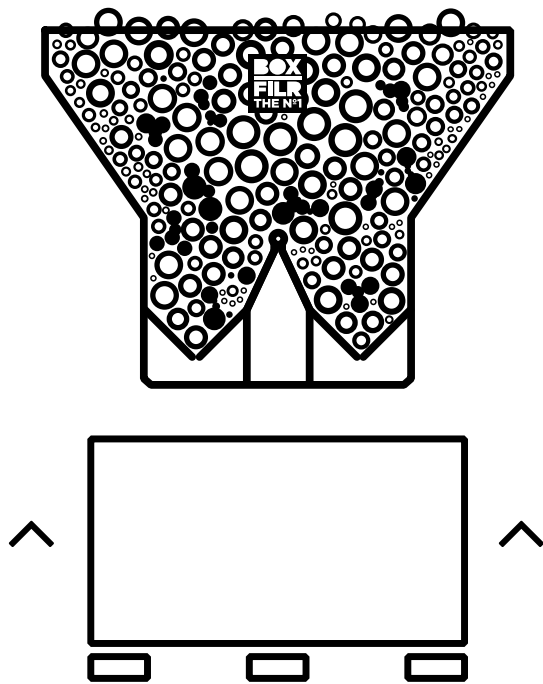
#### **Compile your ideal BoxFilr**

Select the ideal configuration from numerous combinations.

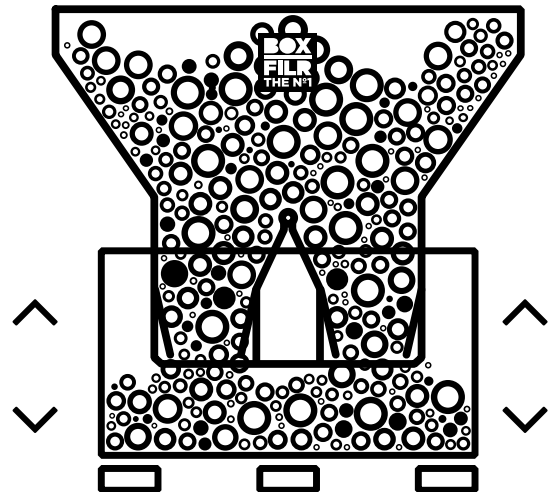


# SMART SYMMETRICS

## 01



## 02



### **BUFFER**

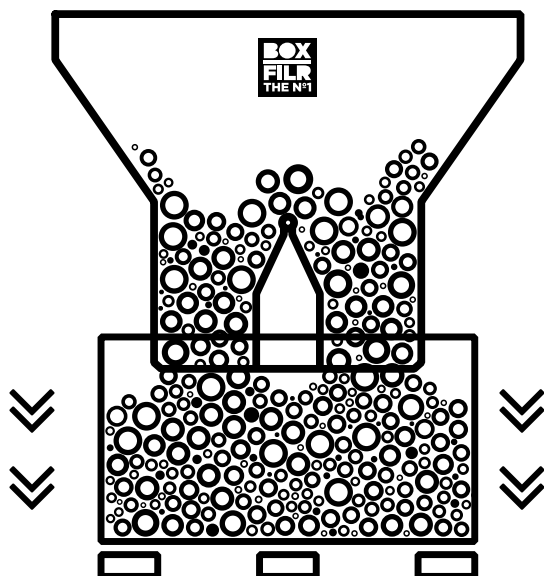
The VHM Twin-funnel will be filled by weight. This provides a logistic buffer in your process.

### **VOLUME SPLITTING**

Good product distribution by volume splitting.

## THE UNIQUE BOXFILR FILLING SYSTEM FOR IDEAL STORAGE.

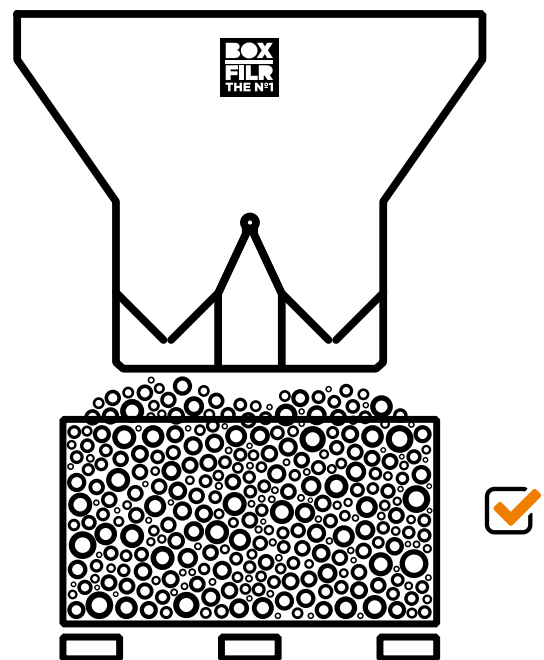
# 03



### NO WASTE CONE

The variable drop rate ensures a smooth filling in the box. By vertical shaking a more compact filling and retains the box.

# 04



### BETTER CONSERVATION

The VHM Twin-funnel system ensures equal filling and improvement in storage.















**THE N° 1 IN  
STACKING,  
DESTACKING,  
FILLING,  
ROTATING &  
EMPTYING  
BOXES &  
BIG BAGS.**



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