



OKTOMAT®

Octabin and BigBag emptying system

OKTOMAT®

Emptying stations series SOS

OKTOMAT®

Emptying stations series ECO

OKTOMAT®

Conveyor technology series SFG / HFE / HCA

2018


MADE IN GERMANY



The problem

The discharging of octabins and BigBags through suction pipes is often difficult and not always practical. The conveying is interrupted too often and leads to production disruptions. The film bag is sucked in often or the material does not flow continuously, which is particularly problematic at the end of the discharging process. Often an operator has to guide the suction pipe by hand for a longer period of time in order to discharge a bulk bag.

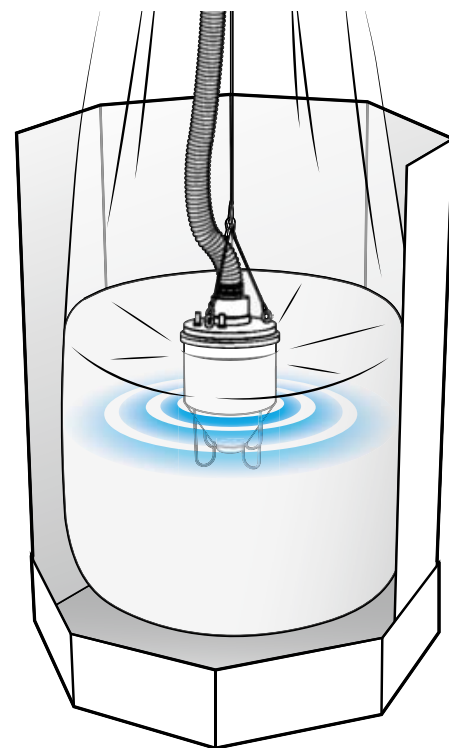
The solution

OKTOMAT® Emptying stations

The OKTOMAT® uses a vibrating suction head instead of the suction pipe and the automatic bag tightening mechanism pulls the foil inlet or BigBag upwards. The suction head floats and vibrates in the material and breaks up lumps. The loosened material flows towards the middle and is continuously sucked.



Vibrating suction heads



Functional principle

Automatic bag tightening via pneumatic cylinder

autom. suction head follow-up with sinking filling level

Video at www.helios-systems.com



1 During the suction process, the flexible bulk bag wall is pulled up and inwards via the automatic bag tightening system.



2 As a result, the bag tightens and the bulk material in the border area flows to the central suction point.



3 At the end of the discharging process, the almost empty bulk bag is automatically lifted up from the bottom, enabling a complete material discharging.

System components

OKTOMAT® SYSTEM



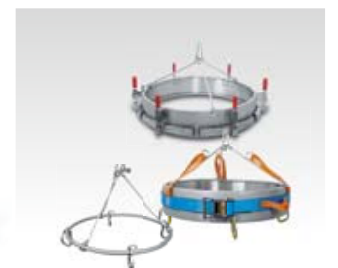
Base frames



Controls



Vibrating suction heads




Foil/bag tightener


The two OKTOMAT® series (SOS and ECO) use components from the OKTOMAT® system in different combinations according to the modular principle. This allows the optimum emptying station to be configured for almost any application.

For all bulk bags with foil inlet or loops


The OKTOMAT® handles easily and effectively the discharging of all common types of BigBags, octabins, folding boxes, lattice boxes, bulk bags with foil inlet, etc.



Octabin
bulk bags with foil inlets



BigBag
bulk bags with loops



Lattice boxes
with foil inlets

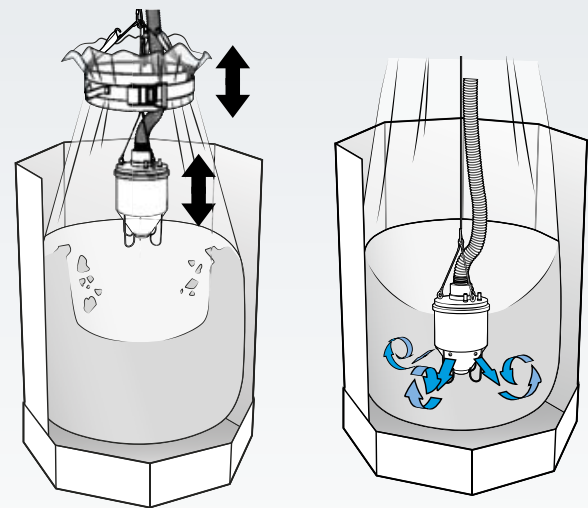
Just pallet jack will do

Simply use a pallet jack to move the bulk bags, clamp the foil and the suction will follow without supervision and risk of interruption. The bulk bags will be completely emptied.



Bulk material in all variations

OKTOMAT® discharging stations are already suitable for most applications in their basic configuration. However, there are special materials whose characteristic properties must be taken into account when discharging and conveying.



Oscillating suction head and foil/bag tightener















Fluidization

Material-related solutions

For every requirement there are appropriate options for the configuration of the optimal discharge station.

- Oscillating suction head**
Prevents the suction head from going down.
Optimum material flow.
- Oscillating foil/bag tightener**
Brings bridged material and remaining edge areas to collapse.
- Special suction head**
Different distribution of vibration in the granules, approved materials for the bulk solids, ATEX-compliant, etc.
- Fluidization**
The material can also be fluidized, loosening is achieved by compressed air nozzles.

Typical bulk solids that can be discharged easily with OKTOMAT®

 <p>activated carbon powder</p>	 <p>medical cover caps</p>	 <p>cut long glass fibre</p>	 <p>mixed herbs</p>	 <p>foil punching grid</p>
 <p>salt</p>	 <p>powder free-flowing</p>	 <p>flat foil grinding material</p>	 <p>hot-melt adhesives</p>	 <p>grinding material from shredder</p>
 <p>agglomerat</p>	 <p>breadcrumbs</p>	 <p>glass fibre sticks</p>	 <p>pellets virgin material</p>	 <p>rubber granulate</p>

OKTOMAT® Type overview



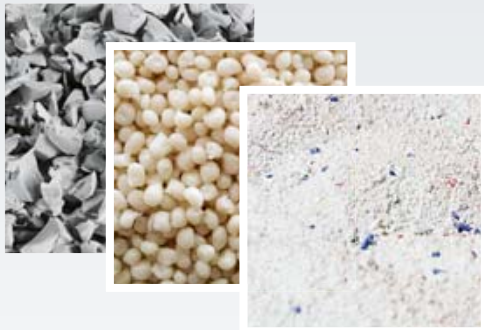
	SOS	SOS INOX	SOS Classic		SOS Classic INOX
	SOS series				
	Automatic controlled lifting and lowering of the suction head for optimum suction conditions in the bulk bag Oscillation of the foil/bag tightener as a flow aid for the bulk material in border areas to achieve a max. emptying capacity				
Range	Bag tightening range 1000 mm	Bag tightening range 1000 mm	Bag tightening range 1000/1500 mm		Bag tightening range 1400 mm
Type	Pedestal version	Pedestal version	Portal version		Portal version
Tension force	Bag tightening force 1500 N	Bag tightening force 1500 N	Bag tightening force 2400 N		Bag tightening force 2500 N
Control	SOS-control	SOS-control	SOS-control		OKTOBAG-control
Configuration	Full equipment	Full equipment	Full equipment		Fully equipped high-end type
Functions	<ul style="list-style-type: none"> Automatic complete emptying / automatic bag tightener Oscillating suction head system Oscillating foil/bag tightener system Pipe cleaning (conveying line) Remaining discharge time display Empty signal via LED light and potential-free contact Automatic changeover to the next OKTOMAT® 	<ul style="list-style-type: none"> Automatic complete emptying / automatic bag tightener Oscillating suction head system Oscillating foil/bag tightener system Pipe cleaning (conveying line) Remaining discharge time display Empty signal via LED light and potential-free contact Automatic changeover to the next OKTOMAT® 	<ul style="list-style-type: none"> Automatic complete emptying / automatic bag tightener Oscillating suction head system Oscillating foil/bag tightener system Pipe cleaning (conveying line) Remaining discharge time display Empty signal via LED light and potential-free contact Automatic changeover to the next OKTOMAT® 		<ul style="list-style-type: none"> Automatic complete emptying / automatic bag tightener Oscillating suction head system Oscillating foil/bag tightener system Pipe cleaning (conveying line) Remaining discharge time display Empty signal via LED light and potential-free contact Automatic changeover to the next OKTOMAT® Fluidization control Graphic display
Placement	Especially space-saving in width	Especially space-saving in width	Especially space-saving in depth, installation on hall wall, several stations next to each other		Especially space-saving in depth, installation on hall wall, several stations next to each other
Operation	Operation sideways	Operation sideways	Operation on front		Operation sideways or on front
Application	Suitable for almost all tasks	Suitable for almost all tasks, additional corrosion protection	Regrind, punch scrap waste, almost all applications		Foodstuffs, pharmaceutical industry, corrosion-protected, suitable for high-pressure cleaners

	ECO	ECO Classic
	ECO series	
	Autom. lowering the suction head when the filling level decreases via counterweight, foil/bag tightener steplessly adjustable	
	Bag tightening range 1000 mm	Bag tightening range 1000/1500 mm
	Pedestal version	Portal version
	Bag tightening force 1500 N	Bag tightening force 2400 N
	ECO-control	ECO-control
	Basic equipment	Basic equipment, expandable to full equipment
	<ul style="list-style-type: none"> Automatic complete emptying / automatic bag tightener Autom. follow-up of the suction head according to filling level via counterweight 	<ul style="list-style-type: none"> Automatic complete emptying / automatic bag tightener Autom. follow-up of the suction head according to filling level via counterweight
	Especially space-saving in width	Especially space-saving in depth, installation on hall wall, several stations next to each other
	Operation sideways	Operation on front
	Free-flowing bulk materials	Free-flowing bulk materials of high density

OKTOMAT® SOS Series

The all-rounder among the OKTOMAT® discharge stations

For all free-flowing, up to „difficult“ materials



The OKTOMAT® SOS series is able to empty also problematic materials:

- regrind
- free-flowing powders
- bridge-forming granules such as TPE / Soft PVC
- bridge building agglomerates or similar
- food / salts etc.

Suction head oscillating system

The suction head enters vibrating into the material, is pulled up again in a time-controlled manner (the resulting sinkhole in the material fills up), is lowered back onto the surface and the procedure starts all over again. Frequency, stroke, lifting force and sequence of short or long strokes are individually adjustable.

as standard

Foil/bag tightener Oscillating system

In case of very bridging materials, a non-slip wall may occur during the suction process. By repeated lowering and lifting of the foil/bag tightener during suction, the material wall will be loosened, thus enabling the material to flow towards the suction point.

as standard

Maximum functionality

The OKTOMAT® SOS series is already equipped with the most important functions as standard.

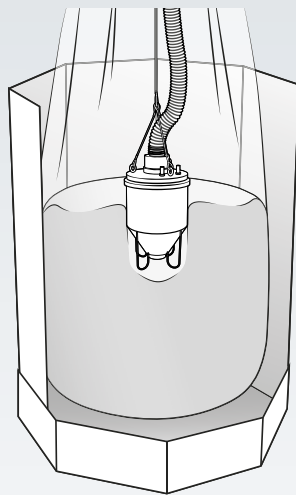


OKTOMAT® SOS

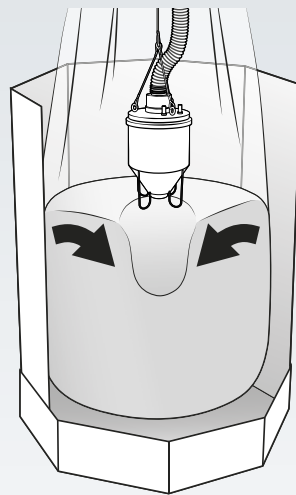


OKTOMAT® SOS Classic

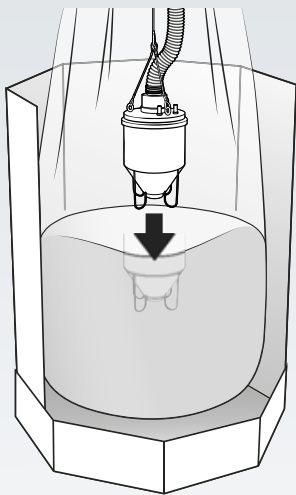
Oscillating system for suction head



1 During suction, a cavity may result in the suction zone underneath the suction head.

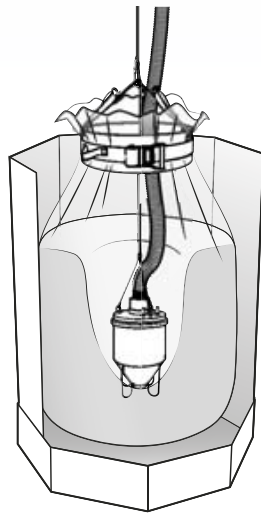


2 The suction head oscillation system raises the suction head. The resulting sinkhole fills up again.

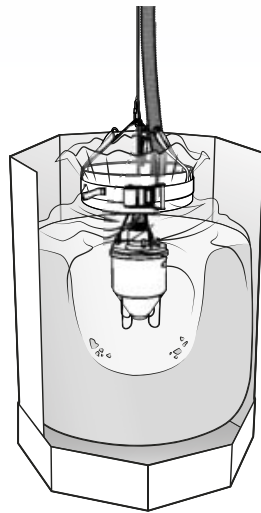


3 The system lowers the suction head back to the surface and makes it sink down time-controlled.

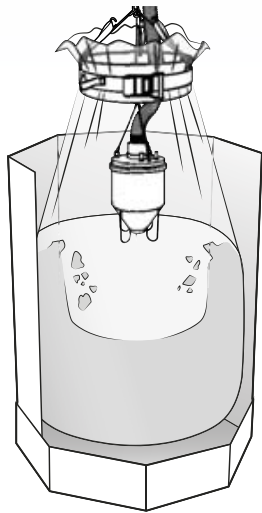
Oscillating system for foil/bag tightener



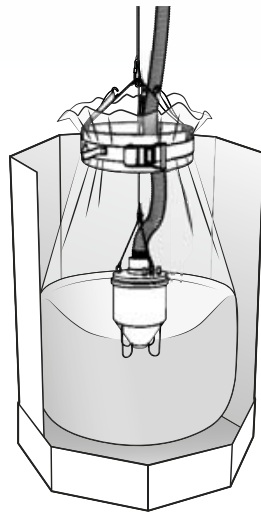
1 The border areas do not slip. A deep sinkhole is formed.



2 The oscillation system lowers the foil/bag tightener towards the bulk material surface and the material under pressure in border area will be released.



3 The suction head is raised and the oscillating system pulls the foil wall upwards. The constricting container wall presses the material walls into the middle and causes them to collapse.

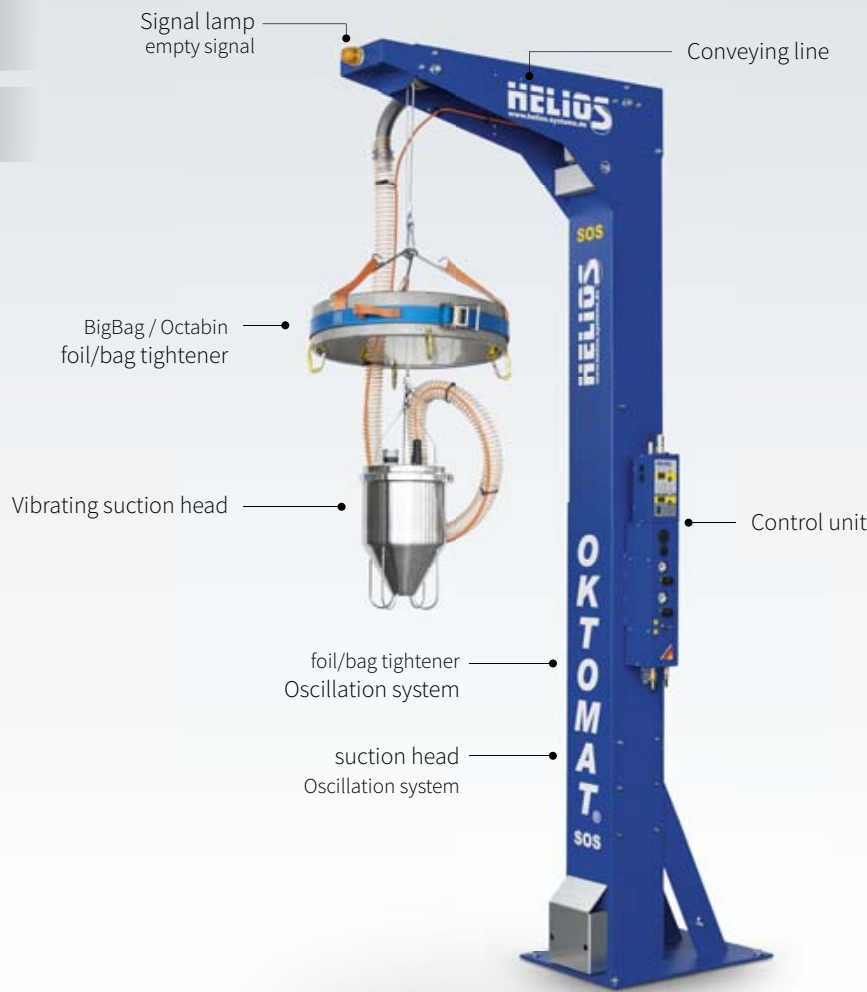


4 The suction head is lowered again and can suck away more material.

- BigBag** Bags with loops
- Octabin** Bags with foil inliner

- Particularly space-saving in width
- Fully equipped
- Suitable for almost all tasks
- Suction head oscillating system
- Foil/bag tightener oscillation system

- easy to operate
- unmanned operation
- minimal operating costs
- low maintenance
- robust and durable



STANDARD EQUIPMENT

- Pedestal version made of steel, powder-coated
- 8-fold height adjustable
- Universal foil/bag tightener made of stainless steel for foil inliners and BigBag Ø 600 mm
- Automatic complete emptying / automatic bag tightener
- Suction head type S-38 / S-45 / S-50 conveying hose 38 / 45 / 50 mm
- Suction head oscillating system
- Foil/bag tightener oscillating system
- Tension force 1500 N
- SOS control
 - Oscillation
 - Empty suction function (conveying line)
 - Dual emptying time display
 - Empty signal via LED light and potential-free contact
 - Automatic changeover to the next OKTOMAT®

Delivered pre-assembled in transport box.

MATERIALS

Level of difficulty

free-flowing	Materials
poorly flowable	Materials
bridge-forming	Materials

OKTOMAT® SOS is ideally suited for the majority of applications. It handles the emptying of free-flowing to bridge-forming materials. For even more difficult tasks, the discharge station can be extended with options.

Materials	standard	optional
free-flowing	●	
poorly flowable	●	
bridge-forming	●	
difficult	—	●

Placement

Footprint

Due to its pedestal form, the OKTOMAT® SOS is particularly space-saving in its width. An area of approx. 1000 mm x 1700 mm is recommended.

Operation

Containers can be transported on the front, left and right to the OKTOMAT®. The control unit can be easily operated from the side. A remote control is available as an option.

Installation height

Installation height

The OKTOMAT® SOS is 8-fold height-adjustable. The installation height can be selected from 2620 mm - 3670 mm.

Container height

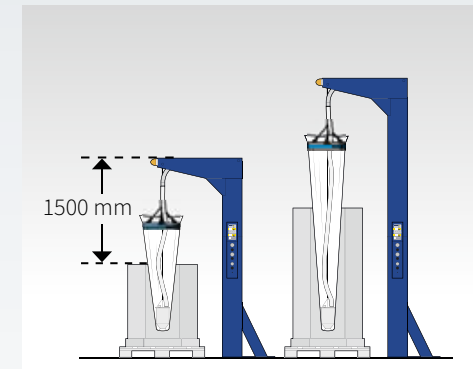
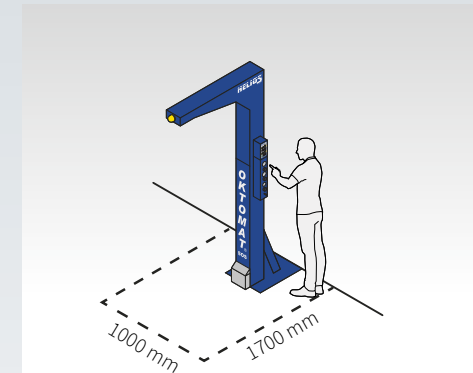
In order to achieve complete emptying, there must be a minimum distance of 1500 mm between the top edge of the container and the top edge of the discharge station.

Special versions

- OKTOMAT® SOS INOX
- OKTOMAT® SOS INOX ATEX
- OKTOMAT® SOS partial food version

OPTIONS

- Switchover valve, automatic switching to next OKTOMAT®
- Special suction heads SM / M / XL / SM Clean / XL Clean available with conveying line 38/45/50/60/65/80 mm
- Additional weight for suction head S-38/45/50
- Compressed air vibrator for all suction heads
- Fluidization by compressed air via nozzles (for SM and XL)
- Protection cover for containers + foil/bag tightener
- Special size foil/bag tightener Ø 260 / 400 / 500 mm
- Remote control with 5 m cable
- Movable frame Standard
- Movable frame INOX 1.4301
- Increase by 300 mm base element
- Partial food version for suction head and conveying hose
- OKTOBAG® control with intuitive operator guidance and display of all operating states via graphic display



ATEX version

- Ex** ATEX Zone 2 / 22
- OKTOMAT® discharge stations are optionally available in ATEX version
- partial ATEX: suction head + conveying hose
 - partial ATEX: foil/bag tightener
 - complete ATEX Zone 2/22

Technical specifications

height	2600 - 3650 mm
width / depth	500 mm / 1640 mm
weight/with packaging	179 / 329 kg
tension force	1500 N
compressed air connection	min. 6 bar. Ø DN 9 mm
electrical connection	~ 230V AC, 1 ph, 50/60 Hz
	~ 110V AC, 1 ph, 60 Hz

- BigBag** Bags with loops
- Octabin** Bags with foil inliner

- Particularly space-saving in depth
- Increased tension force for high-density materials
- Fully equipped
- Suitable for all tasks
- Special height available for extra high containers
- Special width available for extra wide containers

- Suction head oscillating system
- Foil/bag tightener oscillation system

- easy to operate
- unmanned operation
- minimal operating costs
- low maintenance
- robust and durable



STANDARD EQUIPMENT

- Portal version made of steel, powder-coated
- 8-fold height adjustable
- Universal foil/bag tightener made of stainless steel for foil inliners and BigBag Ø 600 mm
- Automatic complete emptying / automatic bag tightener
- Suction head type S-38 / S-45 / S-50 conveying hose 38 / 45 / 50 mm
- Suction head oscillating system
- Foil/bag tightener oscillating system
- Increased tension force 2400 N
- SOS control
 - Oscillation
 - Empty suction function (conveying line)
 - Residual emptying time display
 - Empty signal via LED light and potential-free contact
 - Automatic changeover to the next OKTOMAT®

Delivered pre-assembled in transport box.

MATERIALS

Level of difficulty

free-flowing	Materials
poorly flowable	Materials
bridge-forming	Materials

OKTOMAT® SOS Classic is ideally suited for the majority of applications. It handles the emptying of free-flowing to bridge-forming materials. For even more difficult tasks, the discharge station can be extended with options.

Materials	standard	optional
free-flowing	●	
poorly flowable	●	
bridge-forming	●	
difficult	—	●

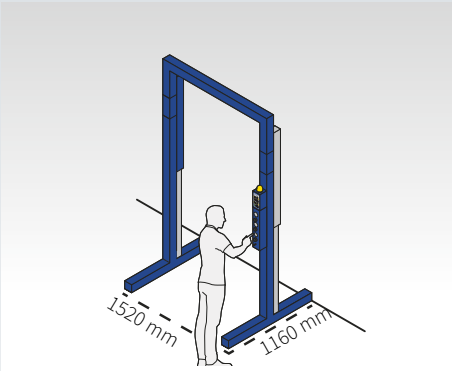
Placement

Footprint

Due to its portal form, the OKTOMAT® SOS Classic is particularly space-saving in depth. An area of approx. 1520 mm x 1160 mm is recommended.

Operation

Containers are transported on the front to the OKTOMAT®. The control unit can be operated directly on the front. A remote control is available as an option.



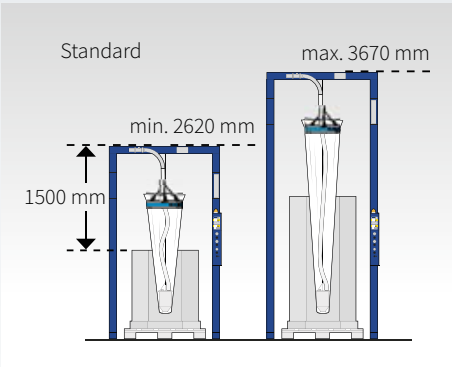
Installation height

Installation height

The OKTOMAT® SOS Classic is 8-fold height-adjustable. The installation height can be selected from 2620 mm - 3670 mm.

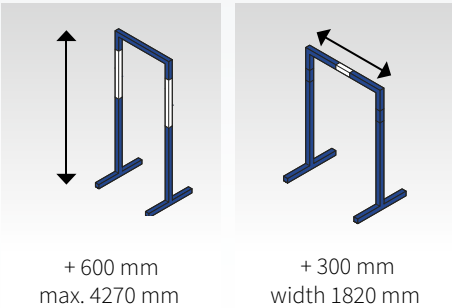
Container height

In order to achieve complete emptying, there must be a minimum distance of 1500 mm between the top edge of the container and the top edge of the discharge station.



As an option, the maximum construction height can be extended to 4270 mm with an extension (600 mm).

Optionally, the OKTOMAT® can be extended with an extension (300 mm) (for extra wide containers, max. container width 1500 mm).



OPTIONS

- Switchover valve, automatic switching to next OKTOMAT®
- Special suction heads SM / M / XL / SM Clean / XL Clean available with conveying line 38/45/50/60/65/80 mm
- Additional weight for suction head S-38/45/50
- Compressed air vibrator for all suction heads
- Fluidization by compressed air via nozzles (for SM and XL)
- Protection cover for containers + foil/bag tightener
- Special size foil/bag tightener Ø 260 / 400 / 500 mm
- Remote control with 5 m cable
- Special height max. 4270 mm (+ 600 mm)
- Special width 1820 (+ 300 mm)
- Partial food version for suction head and conveying hose
- OKTOBAG® control with intuitive operator guidance and display of all operating states via graphic display

ATEX version

- Ex** ATEX Zone 2 / 22
- OKTOMAT® discharge stations are optionally available in ATEX version
- partial ATEX: suction head + conveying hose
 - partial ATEX: foil/bag tightener
 - complete ATEX Zone 2/22

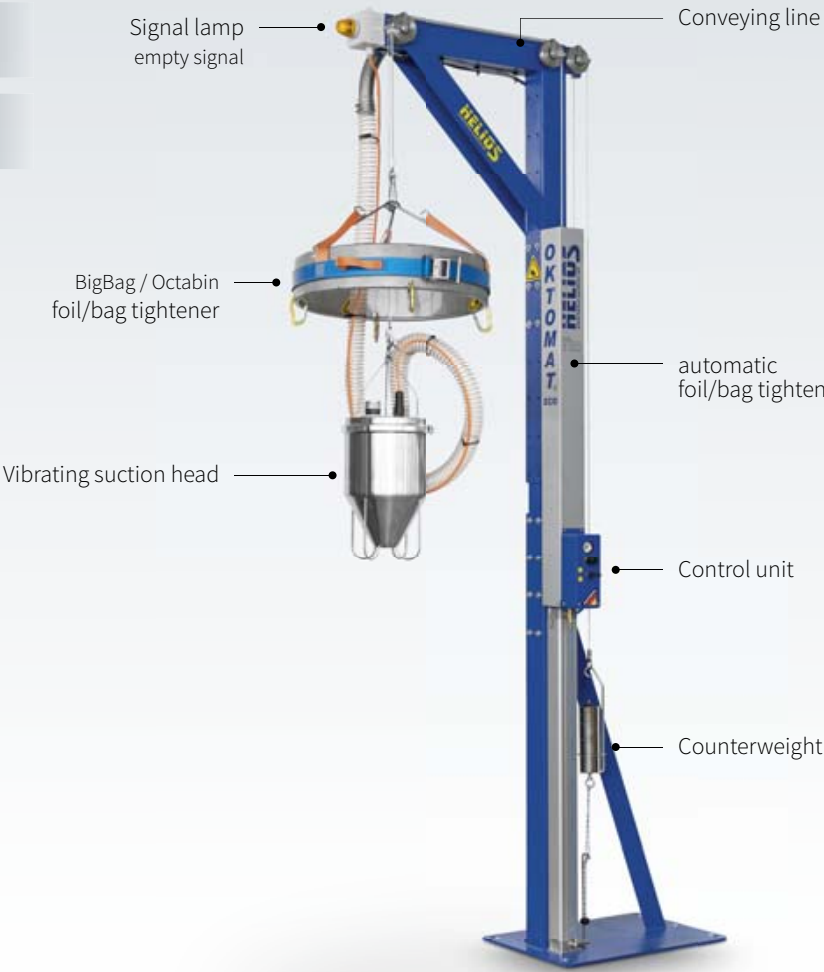
Technical specifications

height	2620 - 3670 mm
width / depth	1520 mm / 1160 mm
weight/with packaging	260 - 320 kg
tension force	2400 N
compressed air connection	min. 6 bar. Ø DN 9mm
electrical connection	~ 230V AC, 1 ph, 50/60 Hz
	~ 110V AC, 1 ph, 60 Hz

- BigBag** Bags with loops
- Octabin** Bags with foil inliner

- Particularly space-saving in width
- Suitable for a wide variety of tasks
- Basic configuration
- Special heights possible
min. 2500 mm
max. 3900 mm

- easy to operate
- unmanned operation
- minimal operating costs
- low maintenance
- space-saving
- robust and durable



STANDARD EQUIPMENT

- Pedestal version made of steel, powder-coated
- 5-fold height adjustable
- Universal foil/bag tightener made of stainless steel for foil inliners and BigBag Ø 600 mm
- Automatic complete emptying / automatic bag tightener
- Suction head type S-38 / S-45 / S-50 conveying hose 38 / 45 / 50 mm
- Autom. follow-up of the suction head according to filling level via counterweight
Weight force can be adjusted by number of discs
- Tension force 1500 N

Delivered pre-assembled in transport box.

MATERIALS

Level of difficulty

free-flowing	Materials
poorly flowable	Materials

OKTOMAT® ECO is ideally suited for the majority of applications. It handles the emptying of free-flowing to poorly flowable materials.

Materials	standard	optional
free-flowing	●	
poorly flowable	●	
bridge-forming	—	●
difficult	—	—

Placement

Footprint

Due to its pedestal form, the OKTOMAT® ECO is particularly space-saving in width. The required area to the front depends on the container type used. An area of approx. 1200 mm x 1900 mm is recommended.

Operation

Containers can be transported on the front, left and right to the OKTOMAT®. The control unit can be easily operated from the side.

Installation height

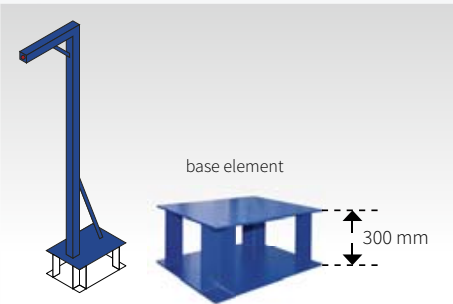
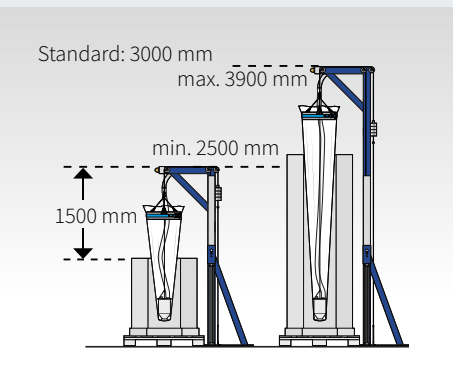
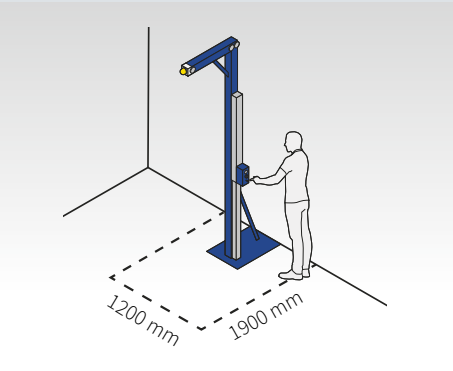
Installation height

The OKTOMAT® ECO is 5-fold height-adjustable. The standard installation height can be selected from 3000 mm - 3500 mm. A special height from 3000 mm up to 3900 mm and a space-saving height of only 2500 mm - 3000 mm (4 x 125 mm grid) are available as an option.

Container height

In order to achieve complete emptying, there must be a minimum distance of 1500 mm between the top edge of the container and the top edge of the discharge station.

An increase of 300 mm can be achieved subsequently by means of a base element.



OPTIONS

- ECO-control for empty signal via LED light and potential-free contact, display of residual emptying time, automatic switching on
- Switchover valve, automatic switching to next OKTOMAT®
- Special suction heads M / XL / XL Clean available with conveying line 38/45/50/60/65/80 mm
- Additional weight for suction head S-38/45/50
- Compressed air vibrator for all suction heads
- Protection cover for containers + foil/bag tightener
- Special size foil/bag tightener Ø 260 / 400 / 500 mm
- Movable frame
- Increase by 300 mm base element
- Partial food version for suction head and conveying hose
- Special height: 2500 to 3000 mm
- Special width: 3500 to 3900 mm

ATEX version

- Ex** ATEX Zone 2 / 22
- OKTOMAT® discharge stations are optionally available in ATEX version
- partial ATEX: suction head + conveying hose
 - partial ATEX: foil/bag tightener

Technical specifications	
height	3000 - 3500 mm
width / depth	500 mm / 1540 mm
weight/with packaging	125 - 145 kg
tension force	1500 N
compressed air connection	min. 6 bar. Ø DN 6mm
electrical connection	~ 230V AC, 1 ph, 50/60 Hz
	~ 110V AC, 1 ph, 60 Hz

OKTOMAT® ECO Classic

ECO series



- BigBag** Bags with loops
- Octabin** Bags with foil inliner

- Particularly space-saving in depth**
- Increased tension force** for high-density materials
- Basic configuration** expandable up to full SOS equipment
- Special assembly height** for extra high containers
- Special width** for extra wide containers

- easy to operate
- unmanned operation
- minimal operating costs
- low maintenance
- robust and durable



STANDARD EQUIPMENT

- Portal version made of steel, powder-coated level of difficulty
- 8-fold height-adjustable
- Universal foil/bag tightener made of stainless steel for foil inliners and BigBag Ø 600 mm
- Automatic complete emptying / automatic bag tightener
- Suction head type S-38 / S-45 / S-50 conveying hose 38 / 45 / 50 mm
- Autom. follow-up of the suction head according to filling level via counterweight
Weight force can be adjusted by number of discs
- Increased tension force 2400 N

Delivered pre-assembled in transport box.

MATERIALS

Level of difficulty

free-flowing	Materials
poorly flowable	Materials

OKTOMAT® ECO is ideally suited for the majority of applications. It handles the emptying of free-flowing to poorly flowable materials. For even more difficult tasks, the discharge station can be extended with options.

Materials	standard	optional
free-flowing	●	
poorly flowable	●	
bridge-forming	—	●
difficult	—	●

Placement

Footprint

Due to its portal form, the OKTOMAT® ECO Classic is particularly space-saving in depth. An area of approx. 1520 mm x 1160 mm is recommended.

Operation

Containers are transported on the front to the OKTOMAT®. The control unit can be operated directly on the front.

Installation height

Installation height

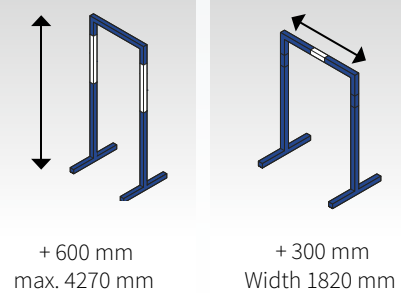
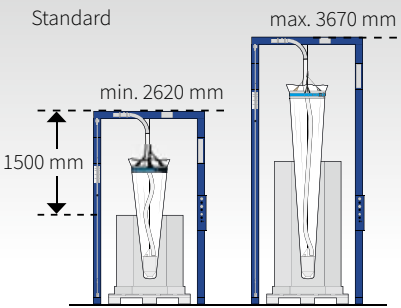
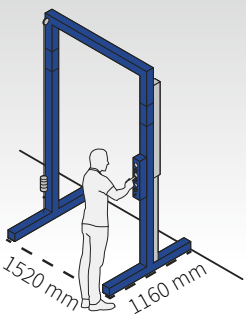
The OKTOMAT® ECO Classic is 8-fold height-adjustable. The installation height can be selected from 2620 mm - 3670 mm.

Container height

In order to achieve complete emptying, there must be a minimum distance of 1500 mm between the top edge of the container and the top edge of the discharge station.

As an option, the maximum construction height can be extended to 4270 mm with an extension (600 mm).

A special width of 1820 mm is available (for particularly wide containers, max. container width 1500 mm).

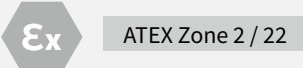


OPTIONS

- ECO-control for empty signal via LED light and potential-free contact, display of residual emptying time, automatic switching on
- Switchover valve, automatic switching to next OKTOMAT®
- Special suction heads M / XL / XL Clean available with conveying line 38/45/50/60/65/80 mm
- Additional weight for suction head S-38/45/50
- Compressed air vibrator for all suction heads
- Fluidization by compressed air via nozzles (for XL)
- Protection cover for containers + foil/bag tightener
- Special size foil/Bag tightener Ø 260 / 400 / 500 mm
- Special height max. 4270 mm (+600 mm)
- Special width 1820 mm (+ 300 mm)
- partial foodstuff version for suction head and conveying hose
- Oscillating system suction head
- Oscillation system foil/bag tightener

retrofittable

ATEX version



OKTOMAT® discharge stations are optionally available in ATEX version

- partial ATEX: suction head + conveying hose
- partial ATEX: foil/bag tightener
- complete ATEX Zone 2/22

Technical specifications

height	2620 - 3670 mm
width / depth	1520 mm / 1160 mm
weight/with packaging	125 - 145 kg
tension force	2400 N
compressed air connection	min. 6 bar. Ø DN 6mm
electrical connection	~ 230V AC, 1 ph, 50/60 Hz
	~ 110V AC, 1 ph, 60 Hz

OKTOMAT® SOS Classic INOX

SOS series

- PHARMA
- FOOD
- ATEX

Completely made of stainless steel

OKTOMAT® SOS Classic INOX emptying stations are used especially in sensitive production areas with the highest demands.

- Oscillating system suction head
- Oscillating system foil/bag tightener



- Suitable for high-pressure cleaning
- Resistant to aggressive cleaning agents

STANDARD EQUIPMENT

- Portal version made of stainless steel 1.4301/AISI 304
- 10-fold height-adjustable
- Suction head SM Clean made of stainless steel 1.4571/AISI 316 with compressed air vibrators, available with conveying hose 38/50/65/80 mm
- Bag tightener with 4 stainless steel carabiners for BigBag
- Automatic complete discharge / automatic bag tightener
- Discharge aids by means of
 - steplessly adjustable vibrators in the suction head
 - oscillation of the suction head
 - oscillation of the bag tightener
- Empty suction function (conveying line)
- Empty signal, potential-free contact
- OKTOBAG® control with intuitive operator guidance and display of all operating states via graphic display

MATERIALS

Level of difficulty

free-flowing	Materials
poorly flowable	Materials
bridge-forming	Materials
difficult	Materials

OKTOMAT® SOS Classic INOX masters all materials from free-flowing to the most difficult materials and is used in particularly sensitive production areas with the highest demands.

Materials	standard	optional
free-flowing	●	
poorly flowable	●	
bridge-forming	●	
difficult	●	

Control

The OKTOBAG® control is an extremely comprehensive discharge control and includes

- Graphic display with intuitive operator guidance
- Display of all operating states
- 5 function keys
- Buttons for automatic operation
- Button for conveyor unit ON/OFF

The entire program sequence can be individually programmed and individual functions can be disabled or enabled. The operating personnel have to take care only of manual or automatic operation.



Status	OKTOMAT
actual weight	kg 280
change bag after	
alarm at	kg 50
immersion time	02
lower bag	2.0

Switch-Over	Option 2
automatic switch-over	ON OFF

Suction head oscillating	
Dive	sec 02
short Lift	01
long Lift	00

Lifting ring oscillating	
lowering bag	min 02
lowering time	sec 05
Function Option 9	ON OFF



Bag tightener

The ring is suitable for BigBag with loops. It can be easily converted from low to high containers. Material: stainless steel

Suction head

Vibrating suction head to loosen and suck off the bulk material.
Material: stainless steel 1.4408/1.4571 (AISI 316), PUR conveying hose.

OPTIONS

- Change-over switch, automatic to the next OKTOMAT®
- Residual material quantity weighing < 150 kg via strain gauge unit
- Weighing platform with negative weighing of the entire system
- Foil/bag tightener for foil liners
- Protection cover for bulk bags + foil/bag tightener
- Suction head XL-Clean with fluidization

ATEX version

- **ATEX Zone 2 / 22**
- partial ATEX: suction head + conveying hose
- partial ATEX: suction head + conveying hose + bag tightener
- complete ATEX version including portal and control

Technical specifications

materials	1.4301 und 1.4571
height	2230 - 3730 mm
width / depth	1840 / 1150 mm
weight	260 / 420 kg
protection type	IP 66 / IP 69 K
compressed air connection	min. 6 bar, max.8 bar, Ø DN 13
electrical connection	~ 230V AC, 1 ph, 50/60 Hz
	~ 110V AC, 1 ph, 60 Hz

Base frames



Pedestal version ECO



Pedestal version SOS



Portal version



Portal version CLEAN

Vibrating suction heads



Type	Ø Conveying hose	diameter	Vibrator pneumatic	Vibrator electric	partial ATEX	CLEAN
S-38	38 mm	295 mm	●	●	●	—
S-45	45 mm	295 mm	●	●	●	—
S-50	50 mm	295 mm	●	●	●	—
SM	38 / 45 / 50 / 60 / 65 / 80 mm	295 mm (Clean) 250 mm	●	—	●	●
M	38 / 45 / 50 / 60 / 65 / 80 mm	360 mm	●	●	●	—
XL	38 / 45 / 50 / 60 / 65 / 80 mm	495 mm (Clean) 450 mm	●	●	●	●

suitable for all OKTOMAT® types

Foil/bag tightener



Special sizes and versions

Typ	Use	Diameter	Fixation
Bag tightener	BigBag + foil	260 mm	lashing strap + carabiner
Bag tightener	BigBag + foil	400 mm	lashing strap + carabiner
Bag tightener	BigBag + foil	600 mm	lashing strap + carabiner
BigBag bag tightener	BigBag	500 mm	carabiner
Foil tightener	Foil (ATEX Zone)	600 mm	clamping jaws

suitable for all OKTOMAT® types

Controls



Control ECO

Control SOS

Control OKTOBAG®

	SOS	SOS Classic	ECO	ECO Classic
Control ECO	—	—	●	●
Control SOS	●	●	—	—
Control OKTOBAG	●	●	—	—
Control OKTOBAG ATEX	●	—	—	—
without control	—	—	●	●

ECO-Basic control



with potential-free contact for empty signal

- adjustable residual emptying time
- basic control for switchover valve

Included as standard in SOS control

suitable for series OKTOMAT® ECO

Switchover valve



As soon as a signal is received from the basic control / SOS control or residual quantity weighing, the conveying is switched on to the next full container via shut-off valves.

- Any number of OKTOMAT® stations can be combined
- Ideal for unmanned shifts

suitable for all OKTOMAT® types

Remote control

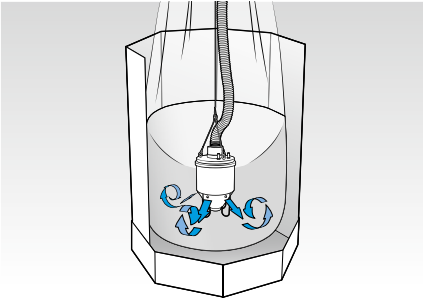


Lifting and lowering of suction head and foil/bag tightener

- 5 m cable

suitable for series OKTOMAT® SOS

Fluidization



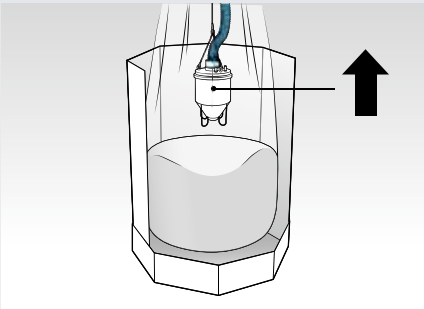
For loosening up dense bulk material, compressed air can be injected to fluidize the material to be sucked off.

available for suction head SM and XL only

separate control with two independent pneumatic circuits

suitable for series OKTOMAT® SOS
OKTOMAT® ECO Classic

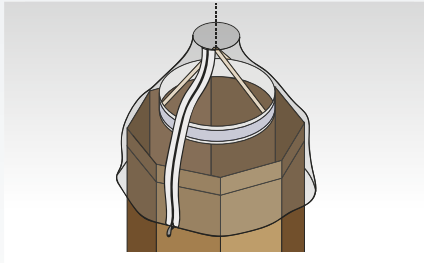
Emptying



In order to be able to empty the pipeline after each conveying process (e. g. in the case of long rising pipes), the suction head is raised above the bulk material level in the container when a signal is received from a conveyor control system and the pipeline is emptied.

suitable for series **OKTOMAT® SOS**

Protection cover



Cover for containers + foil/bag tightener
PVC, transparent with zipper

protection cover	1200 mm
protection cover	1500 mm

suitable for all OKTOMAT® types

Additional weight



The additional weight increases the contact weight of the suction head on the bulk material and thus helps to enter into the bulk material.

- available for suction head S38 / S45 / S50 only
- + 4 kg

suitable for all OKTOMAT® types

Frame on castors



Frame with 4 castors incl. fixing bolts.
Suitable for continuous use

suitable for series **OKTOMAT® SOS**
OKTOMAT® ECO

Pipe elbows



DN38, DN45 and DN50 (outer diameter)

- Standard pipe elbow (stainless steel 1.4301)
- Stainless steel pipe elbow (hardened) wear-resistant
- Glass pipe elbow highly wear-resistant

suitable for all OKTOMAT® types

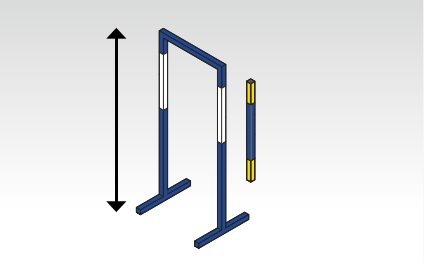
OKTOBAG control



Strain gauge system for residual quantity weighing
Weighing platform for complete OKTOMAT® emptying system including container

suitable for series **OKTOMAT® SOS**

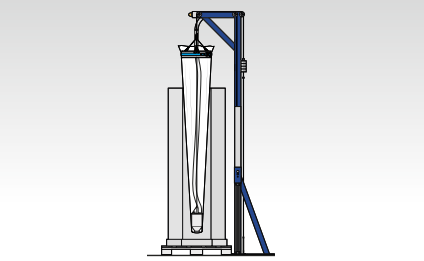
Special height



Extension 600 mm for maximum installation height of 4270 mm

suitable for series **OKTOMAT® ECO Classic**
OKTOMAT® SOS Classic

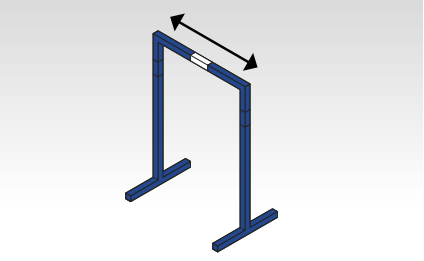
Special height



A: Special height: 3500 - 3900 mm (4 x 100 mm steps)
B: Special height: 2500 - 3000 mm (4 x 125 mm steps).

suitable for series **OKTOMAT® ECO**

Special width



Extension 300 mm for maximum portal width of 1820 mm
for extra wide containers, max. width of container 1500 mm

suitable for series **OKTOMAT® ECO Classic**
OKTOMAT® SOS Classic

Height increasing part / foot part



Pedestal for increased height. Mounting on OKTOMAT® foot section.

- Height = 300 mm
- Weight = 64 kg

suitable for series **OKTOMAT® SOS**
OKTOMAT® ECO

OKTOMAT® SYSTEM

Robust and durable

Thousands of OKTOMAT® systems are in use worldwide. Most of them work in 3-shift operation under the hardest conditions, e. g. in the plastics and chemical industries.

Low maintenance

OKTOMAT® discharging stations are designed for low maintenance and service-friendly. Any necessary spare parts can be changed with just a few steps.

Short payback period

OKTOMAT® discharging stations usually amortize after a few months. The exact amortisation period depends on the savings in terms of man-hours in the respective application case and the costs incurred so far due to production disruptions.

After Sales Service

We do not leave you alone with the HELIOS components, but accompany you through the entire process from the selection up to starting up and training of your employees. That is what we understand by partnership. Our staff will be pleased to advise you on the possible applications of our products and to inform you about our latest technical developments - also for possible retrofits.

- consulting
- starting up
- training
- upgrade
- maintenance/checking up
- spare parts supply within 24h



History of a success story

OKTOMAT® system discharging station wins out worldwide

HELIOS was granted an EP and a US patent for a suction device based on a patent application in 1995, in which a floating suction head is used for discharging bulk bags from above instead of the usual suction pipe. The foil bag is automatically pulled upwards via a tensioning device in order to achieve a complete discharging.

Following this fundamental idea, further procedural and additional features were developed gradually, such as

- Raising the remaining bulk material off the floor
- Clamping of the foil bag by means of a tension belt
- Oscillation of the suction head while discharging
- Fluidization of the bulk material by compressed air via nozzles at the suction head
- Clamping and relieving the bulk bag wall while discharging

which were also protected by patent, the “OKTOMAT®” system.

Depending on the task, various frame types have proven to be particularly advantageous in practice.

Since its launch at FAKUMA in 1996, more than 5000 systems have been installed worldwide.



OKTOMAT® in practice

OKTOMAT®

- robust and durable
- unmanned operation
- proven in thousands
- easy to operate
- min. operating costs
- suitable for all materials
- short payback period

injection molding blow molding extrusion compression molding

- | | | |
|------------------|-----------------------------|-------------------|
| ■ paper / foil | ■ logistics | ■ automotive |
| ■ PVC processing | ■ paper finishing | ■ plug connectors |
| ■ recycling | ■ chemistry / raw materials | ■ packaging |
| ■ cable | ■ medical technology | ■ foil production |
| ■ optics | ■ food | |
| ■ lighting | ■ raw material handling | |
| ■ WPC | ■ technical parts | |



Hopper loaders



HFE
vacuum hopper loader
stainless steel / glass
HFE-15K 15 liters
HFE-30K 30 liters



SFG
vacuum hopper loader
stainless steel
SFG-2 20 liters
SFG-3 20 liters*
SFG-6 60 liters*
*(with enlarged filter)



HCA
vacuum hopper loader
stainless steel
HCA-2 2 liters
HCA-5 2 liters*
*(with enlarged filter)
intermediate container
3/15/25 liters

Vacuum stations



HV vacuum station
with 2-step
side channel compressor
2,5 - 7,0 kW



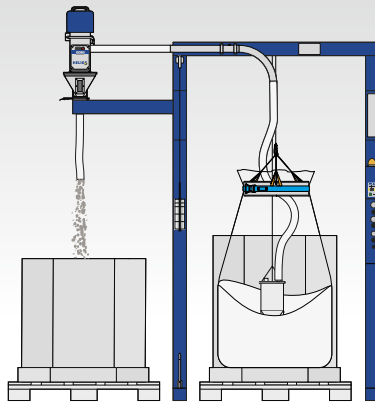
HVK vacuum station
with claw pump
4 - 9 kW

Cantilever arms

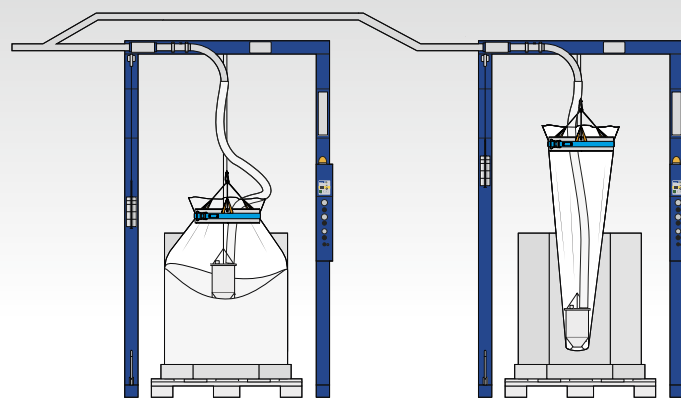


available for
OKTOMAT® SOS
OKTOMAT® SOS Classic
OKTOMAT® ECO
OKTOMAT® ECO Classic
local / external assembly

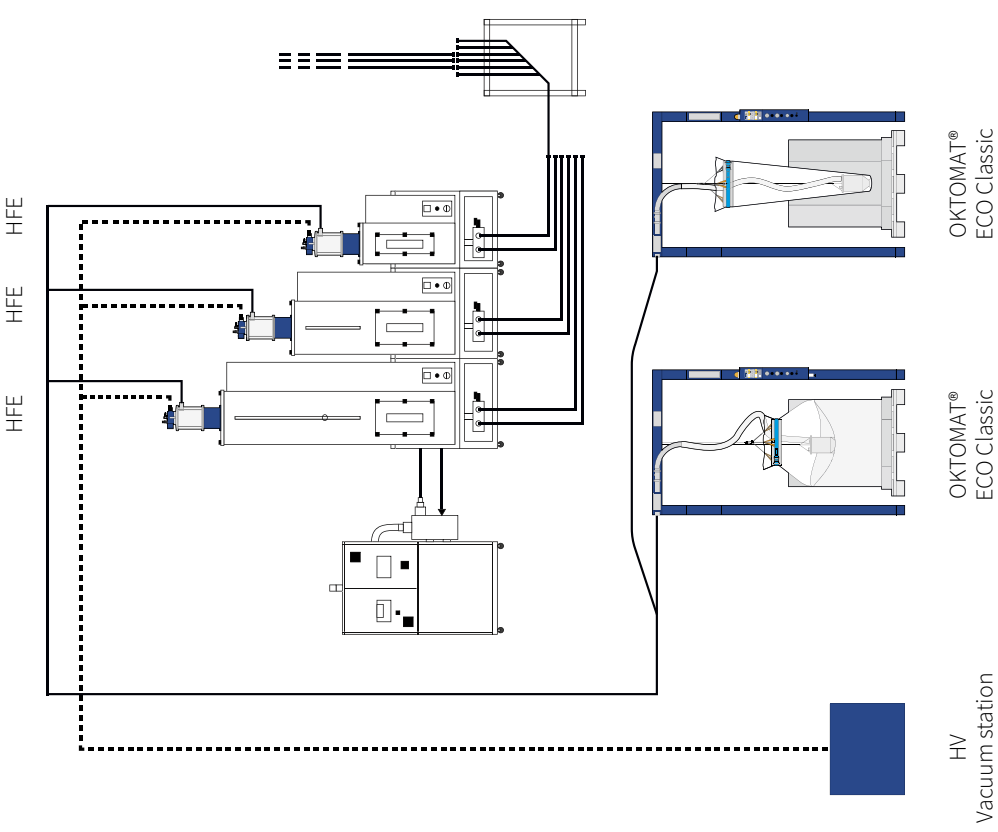
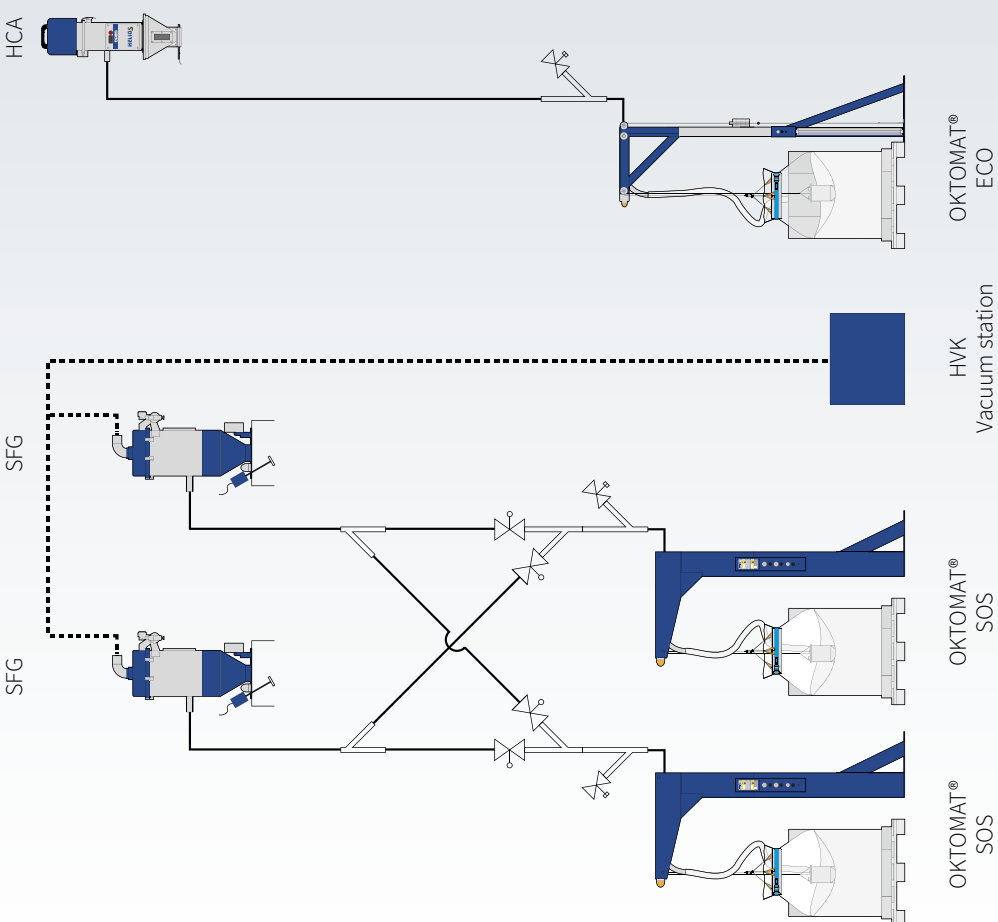
Examples



Refilling station



Double station with switchover



Machinery and equipment for material handling



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MADE IN GERMANY



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HELIOclean®

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