

**sotkon**  
waste systems

en  
**Simple and  
efficient.**



**KONCEPT**

System



# KONCEPT System

The Koncept SYSTEM presents a simple design consisting of five main components: a concrete bunker, a plastic container, a pedestrian platform, an intake bin and a safety platform. It uses a pedestrian platform that opens by means of two industrial gas cylinders which makes it very easy to open. Inside the concrete bunker is placed a polyethylene container with close bottom (for rear loading) or open bottom (for top loading) with capacity up to 5m<sup>3</sup>. The container is ready to be adapted to a range of hooking systems to match the cranes on the existing collection vehicles. The system is completed with an attractive intake column and safety platform to meet European standards.

## Less Collection Vehicles

With the 3m<sup>3</sup> closed bottom container of Sotkon Konzept underground system you can use the existing rear loading collection fleet. This means that it is possible to install underground containers and triple the capacity without additional investment in new vehicles. Less collection vehicles means an active contribution to the reduction of both vehicle emissions and CO<sub>2</sub>.

## Less Personnel

Easy handling and low maintenance allied to the possibility to carry out the collection process with a single worker, contributes to use fewer resources. The waste collection operation is carried out by a single worker in two or three minutes. The collection operation is faster, safer and optimized.

## Less Maintenance

The simplicity of design of the Sotkon Konzept solution makes it possible to combine the advantages of underground waste systems with low maintenance costs. Basic maintenance consists of cleaning and lubricating. This means less use of resources in equipment and workforce.

## Fast Payback

Sotkon Konzept system offers the best return on investment rate (ROI) and payback on the market. Studies show that Sotkon Konzept can reduce overall waste collection operational costs by more than 30% decreasing the frequency of collection, using less manpower, fewer vehicles with less fuel consumption and less maintenance.



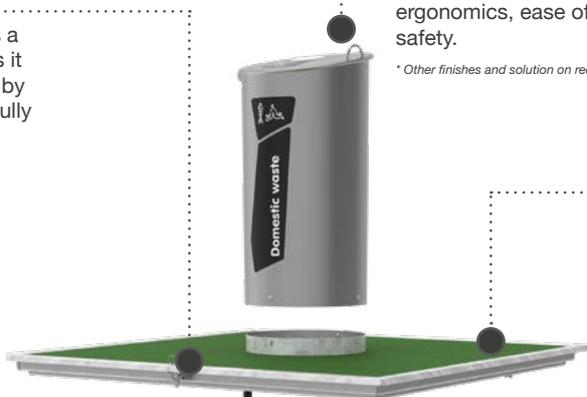
## Intake columns

Produced in stainless steel to preserve the outer appearance and to be resistant in harsh environments, the intake columns by Sotkon are designed considering ergonomics, ease of use, hygiene and safety.

*\* Other finishes and solution on request.*

## Opening mechanism

Pedestrian platform opening uses a special key to unlock it and opens it by means of two gas cylinders or by using a 24V electric actuator, for fully automatic opening.



## Pedestrian platform

Produced in stainless steel to preserve the outer appearance and to be resistant in harsh environments, the intake columns by Sotkon are designed considering ergonomics, ease of use, hygiene and safety.

### Pedestrian Platform

.Surface finishing:



.Epoxy resin in different colours



.Aluminium

.Limestone



.Granite

*\* Other finishes and solution on request.*

## Container

The polyethylene containers are designed to provide exceptional mechanical resistance. The body has no metal parts in contact with the waste and the metal components used for handling and lifting of the container are made of hot-dip galvanized steel.

-  **.Rear Load**  
Closed bottom 0,5/1/3 m<sup>3</sup>
-  **.Double Hook**  
3/5 m<sup>3</sup>
-  **.Kinshofer Double Hook**  
3/5 m<sup>3</sup>
-  **.Kinshofer Mushroom**  
3/5 m<sup>3</sup>
-  **.Palpeur**  
3/5m<sup>3</sup>
-  **.Single Hook**  
3/5m<sup>3</sup>

## Concrete bunker

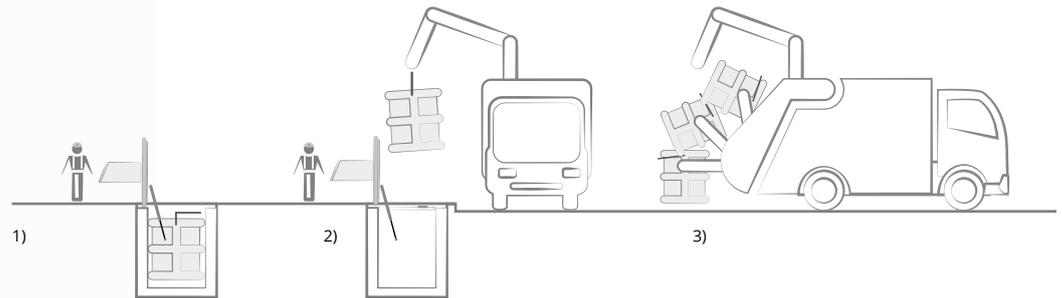
The concrete bunker is unitary, enabling it to be placed on its own or in groups with various configurations. The materials used in its manufacture prevent water infiltration and can be installed in high water table environments.

## Safety platform

When the container is removed from the concrete bunker for emptying, a safety platform automatically rises, covering the bunker aperture completely. It is totally reliable and stable and can bear a load of 500 kg applied to any part of its surface. Certified according to the EN13071-2 European standards.

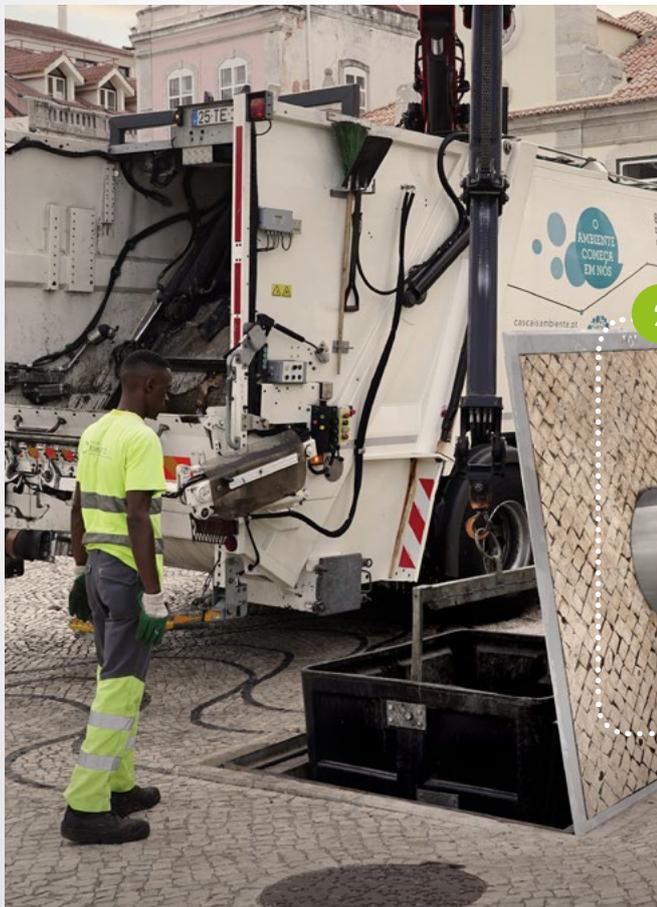
# Collection process

The collection process can be performed by a single operator. Pedestrian platform is opened using a special key to unlock it and rises it by means of two gas cylinders or by using a 24V electric actuator, for fully automatic opening.



## Rear Loading

Sotkon have developed a wide range of containers exceptionally resistant and easily adaptable to any existing rear collection vehicles. Container are 100% sealed, closed bottom, with a frontal comb (450L and 1m<sup>3</sup> capacities) and a wing and a pin-shaped arm (1m<sup>3</sup> and 3m<sup>3</sup> capacities) for rear loading refuse collection vehicles with EN840-2 bin lifter arms complemented with a light crane on top (single hook);



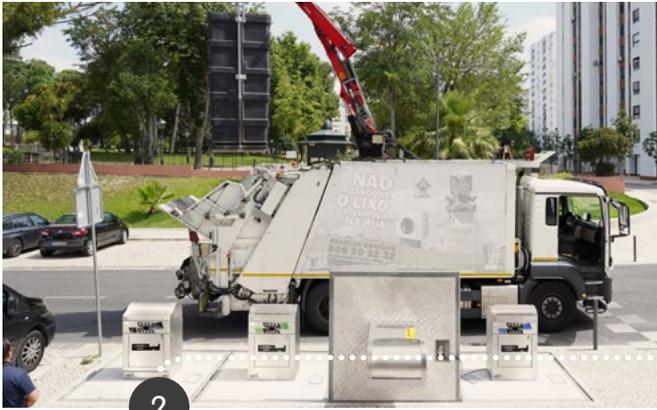
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1

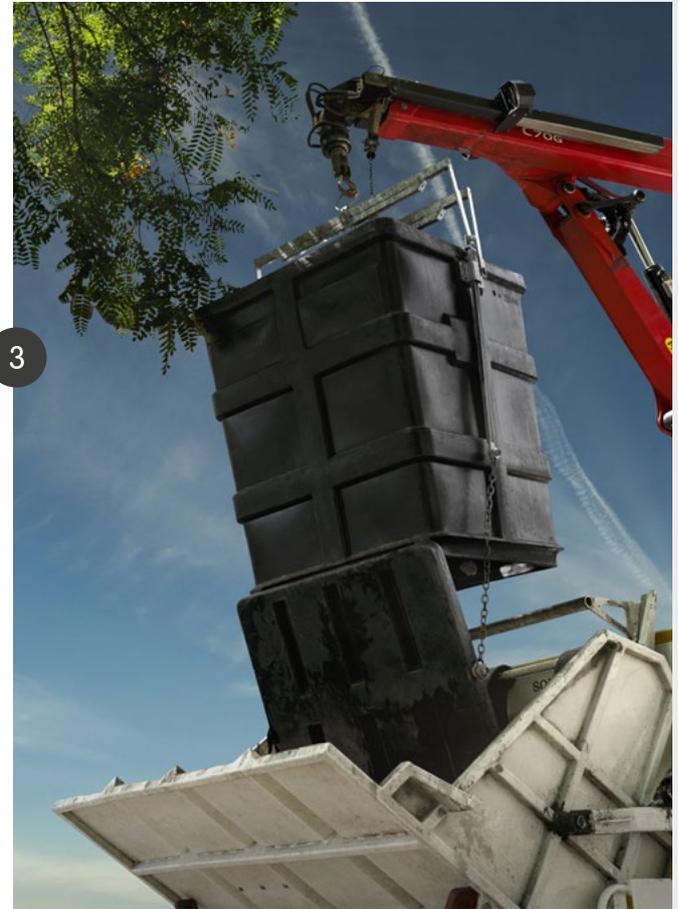
- 1) Pedestrian platform opening until approx. 90° angle.
- 2) Lifting of the container using the top crane.
- 3) Unloading of the container using the rear binlifter.



3



2



3

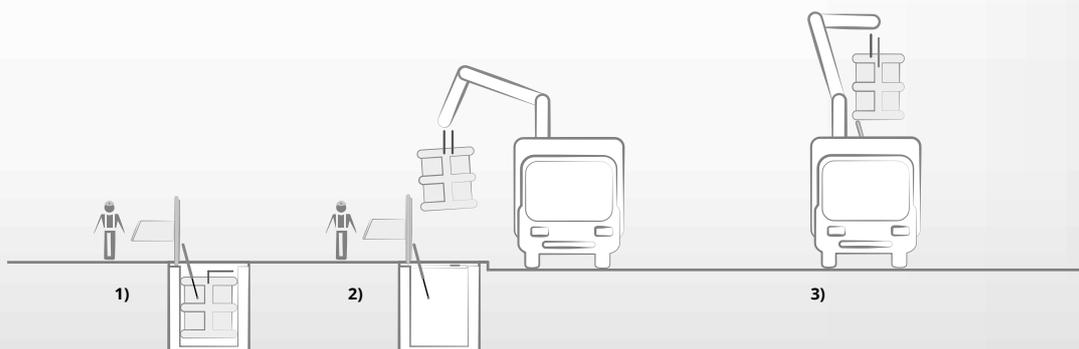


1

- 1) Pedestrian platform opening until approx. 90° angle.
- 2) Lifting of the container using the top crane.
- 3) Unloading of the container by opening the bottom door.

Sotkon range of containers are easily adaptable to any existing top loading collection vehicles. The open bottom container (3m³ or 5m³ capacities) for top loading trucks are prepared for all the hooking systems available as per example, double-hook, “palpeur” single hook or “kinshofer” hook/mushroom.

## Top Loading



# Easy to install, maintain and use

Sotkon is a complete waste collection concept supported by a unique patented modular system.

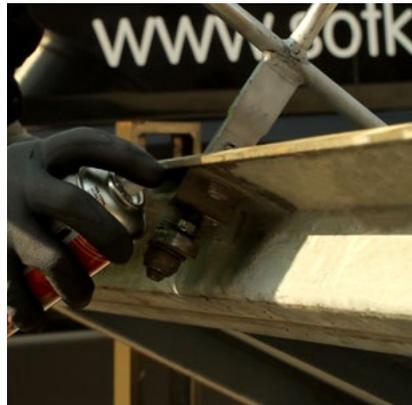
## 1) Easy to install

Sotkon Konzept System allows easy adaptation to the characteristics of the terrain selected for installation. It can be installed anywhere no matter what type of soil or landscape chosen. It is extremely easy to overcome any barriers created by underground cables or pipes. Installation works are easily done not requiring high levels of expertise.



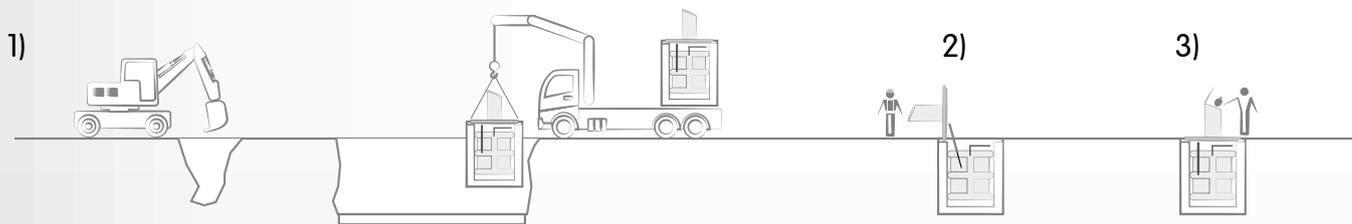
## 2) Easy to maintain

The high quality of the materials, manufacture and design used in the production of the Sotkon equipment provide a long life to all components and reduced maintenance costs. The main interventions on the equipment are entirely mechanical with no complex mechanisms. The opening system of the pedestrian platform is performed by gas springs that require no maintenance, except the occasional cleaning and lubrication of the opening mechanism (hinges and lock).



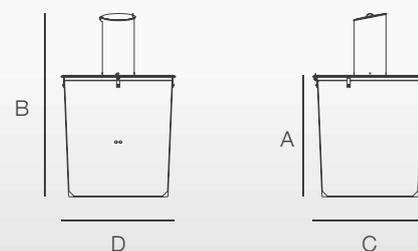
## 3) Easy to use

The Sotkon solutions has been designed with ergonomics, ease-of-use, and safety in mind, to prevent the occurrence of accidents even from inadequate use. Most of our intake bins are prepared for access control systems that allows the implementation of PAYT systems and to restrict usage to permitted users. It is also possible to tailor designs for specific requests according to customer needs.



## Technical draws (Assembly)

Capacity	A	B	C	D
450 L	1530	2530	1260	1260
1M <sup>3</sup>	1590	2590	1520	1800
3M <sup>3</sup>	1970	2970	1840	1860
5M <sup>3</sup>	3220	4220	1840	1860



Units in mm (values approx).  
These dimensions are not suitable for civil construction.

# Intake bins



Ikon



Ikonic



Retro



Wido



Max



Orion



Drop



Mika



SOTKIS consists of integrated management systems that provide information about the various processes involved in waste deposition and collection. The SOTKIS Intelligent Systems are PAYT (pay-as-you-throw) ready.



[www.sotkis.com](http://www.sotkis.com)

**PAYT**  
Pay as you throw

Mobile APP



**Level**  
Level sensor



.Sensor



**Access**  
Access control



.Smart Tag/Card





Find out more about  
this equipment here!



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CE

All the components are tested with TUV Rheinland supervision according to the standards EN13071-1 and EN13071-2 and European normative machine 2006/42/CE

**Worldwide patented system**

