



Underground systems

PRODUCT CATALOGUE



English

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For decades, the name Villiger has been synonymous with sophisticated and practical, high-quality solutions in the waste management industry. Entrepreneurship, a pioneering spirit and the joy of innovation characterise the present and future of the Villiger Group.

Villiger is one of the leading companies in waste management systems, spanning development to production and service. At its Swiss headquarters in Oberrüti, the company employs over 100 motivated professionals, plus over 140 employees at our partner company.

Furthermore, we place great emphasis on the professional development of numerous trainees every year. Each of them is an integral part of our company – for us, this is an important investment in the next generation.

Villiger is the only industry player that offers you all around solutions from a single source. The product range extends from conventional underground, semiunderground and aboveground containers and lift systems to the automated Speed-Waste-Lifter, which comprises a pickup device and mobile cleaning systems. Competent consulting, prompt service, expert repairing and a large spare parts warehouse complete the offering.

Our passion for modern waste management systems means embracing continuous advancement and always challenging the status quo. We place a very high value on research and development and are always looking for new, more efficient solutions in-line with our customers' needs to save disposal costs and reduce CO₂ emissions.

We listen to you.

The innovations, modifications and improvements that we make to products are often the result of feedback from customers. We have worked closely not only with managers in local communities, the waste management industry and many municipal authorities but also with our experienced and professional sales partners to revamp and refine the Sub-Vil underground system.

You can now collect more and for longer!

Villiger enjoys an almost unparalleled reputation for innovation, solution-driven products and outstanding customer service. The new underground product range offers a large number of variations. As usual, we also ensure the maximum individual support – we listen to you!

What is Sub-Vil?

Sub-Vil is the name given to the group of Villiger products in which the underground container is emptied using a crane.

But Sub-Vil is so much more than that! It is a philosophy that follows a holistic approach:

- Sustainability and customer friendliness
- Ecological benefits thanks to reduced CO₂ emissions

Significantly lower CO₂ emissions and fuel costs, thanks to Villiger's intelligent container management concept.

The waste disposal industry is heading for a structural change. Requirements of customers, cities, associations, etc. present companies with three central challenges: Environmental compatibility, increasing waste volumes, rising costs and growing traffic volumes.

This market development has arrived at Villiger quite some time ago. Villiger's innovative concept is characterised by sustainability, economic efficiency, longevity and flexibility.

You can look forward to a new Sub-Vil underground system that has never before existed in this form:

- The capacity of the Sub-Vil has been increased by over 35 %, for instance, without the need for larger concrete containers.
- We have also modified the floor flaps with a centring system for rapid return into position.
- These improvements along bring considerable savings for you, our customers.
- The range of columns has been expanded. You can now choose from seven types of column differing in function and design.
- All platforms are built with a 2 % slope to prevent the formation of puddles, for instance.



The columns can be mounted from above, which makes them very service-friendly:

"ADVANCED OFFMOUNTING"

- The concrete elements have been made 2,000 kg lighter without compromising the statics. This offers the benefits of greater CO₂ savings and less transport (3 in a truckload instead of 5).
- Containers will continue to be made in the proven modular system, but with rivets instead of bolts.
- The range of throw-in drums has been expanded with double and half-drums with capacities of 40 - 90 litres.
- The artificial intelligence for various throw-in columns has been enhanced or adapted.
- The Semi-Sub product, which was designed largely with components of the Sub-Vil range, is now also available for the Cupola semi-underground system.



Your hand does not touch any part of the throw-in drum or flap. The flap/drum is opened using a foot pedal and has an automatic soft-close mechanism.

- Maximum convenience
- and much more!

Sustainability and in-house production

We keep everything under one roof: development, design and manufacturing. That means we are able to meet our high standards of quality, efficiency and utility while staying flexible and independent and being able to respond quickly and think ahead. And it especially means we can play to our strengths: our comprehensive know-how and our innovative capacity. You see, we always think a step ahead. Our systems are geared to the future, giving our customers outstanding service over a long period of time.



Did you know that we manufacture our components in Switzerland? Swiss made by Villiger - a creed that we live by conviction! But we also attach great importance to sustainability. Whenever possible, for instance, we use recycled material in our production, to give just one example of our contribution to a clean and sustainable future.



Talking of the future, for longer than we can remember Villiger AG has been taking on several apprentices each year, equipping them with the skills needed to perform a wide range of activities in everyday working life. This enables us to pass on our contemporary business philosophy to the next generation.







Underground systems

Proven modular system.

A step ahead for a quarter of a century

It was more than 25 years ago that Villiger installed the first underground containers in the Netherlands and France. In doing so Villiger was performing a pioneering service as a manufacturer of new systems. These futuristic products won hearts and minds from the start, leading to major new developments throughout the period.

Innovation from the start

The underground system has since become indelibly associated with the Villiger name and taken on international size and significance. The product range has been improved down to the last detail through the years, so that Villiger's full product range now makes it THE key partner for all requirements when it comes to waste management.

The modular system for individual solutions

Underground systems enable collection points to almost disappear and ensure a well-kept cityscape. Our systems score through their user-friendliness, large collection volumes and optimal management efficiency. All underground containers can be adapted to meet specific requirements: with level sensor, electronic weighing system or access controls. Just as you wish!

Clean and safe waste disposal

Due to the modular design, various types of waste, throw-in columns, platform coverings and emptying systems can be combined.



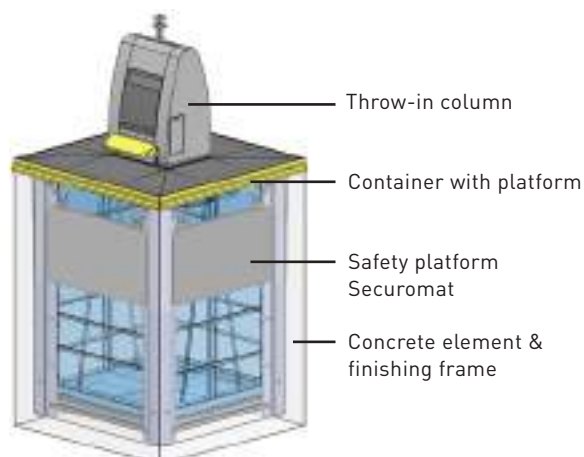
Glass collection point in Baden (CH).



Sub-Vil Lugano with electronic access control and level monitoring in Oslo (NO).



Sub-Vil Baléro with cobblestone pavement in the city of Thun (CH).

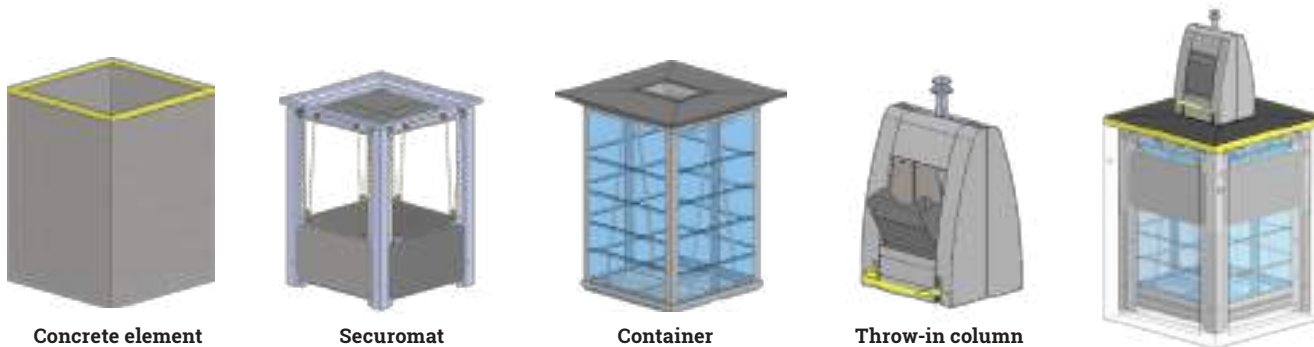


The system solution: Sub-Vil

The flexible, modular system

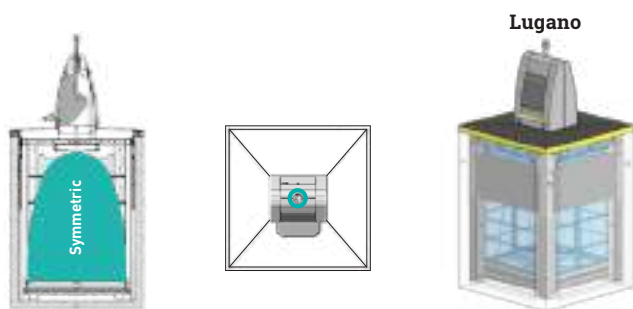
The flexible, modular system consists of four components

- | | |
|--|--|
| 1. Concrete element and steel closing frame | Available in a range of sizes and versions. |
| 2. Securomat safety platform | Automatically closes the open pit when the container is being removed. |
| 3. Container with platform | Available in a range of volumes and platform versions. |
| 4. Throw-in column | The version can be freely selected from a large range. |



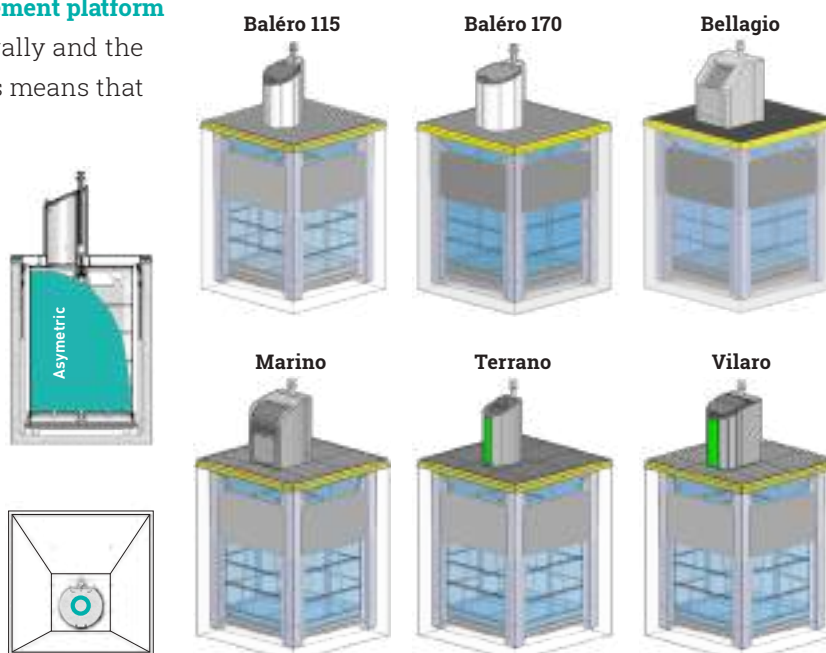
Column in symmetric position on the pavement platform

The throw-in column is positioned exactly in the middle of the platform. This allows the container to be filled symmetrically.



Column in asymmetric position on the pavement platform

The lifting connection is positioned centrally and the throw-in column is sited in front of it. This means that the container is filled asymmetrically.



Concrete elements

Simply more for all spatial conditions

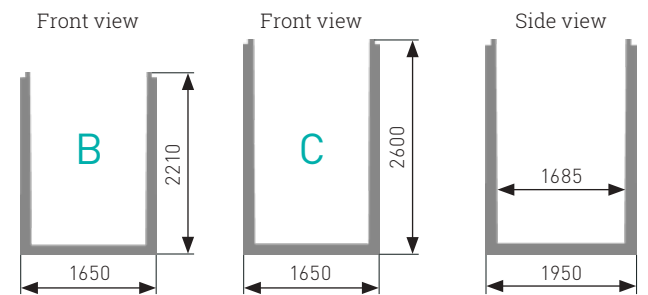
We don't just build perfect container systems, we build the concrete elements for them as well. Villiger has more than 20 fully equipped reinforced concrete shells to choose from. The concrete is produced where the market is - by a local ready-mixed concrete manufacturer.

With more than 4 concrete assemblies in a range of sizes, you have a great selection for every situation.

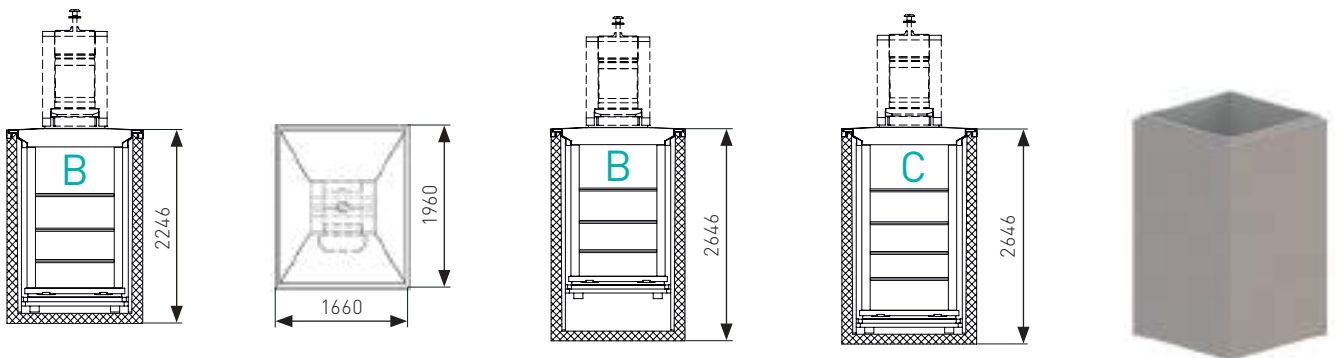
Type 150 concrete element

Element, standard wall thickness 120 mm

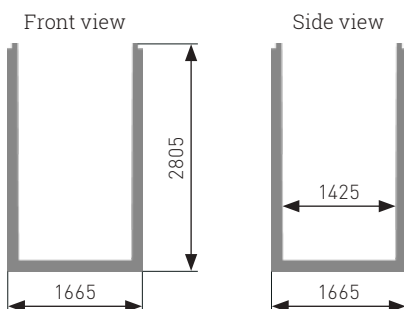
Model	Length	Width	Height	Weight
B	1950	1650	2210	6,0 t
C	1950	1650	2600	6,8 t



Container configuration options



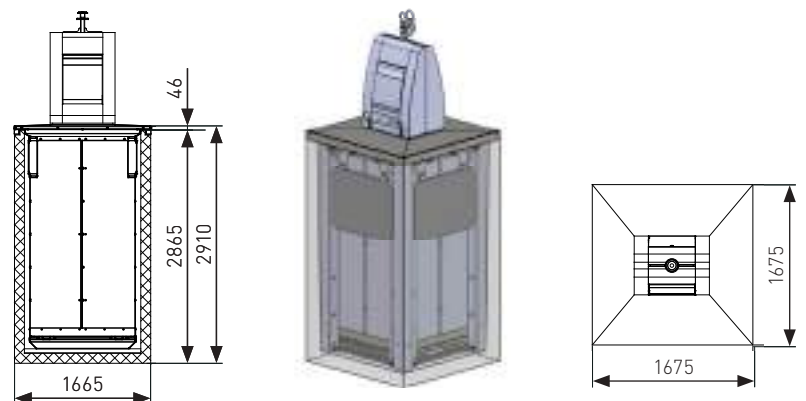
Type CU 165 concrete element



Type 165 concrete element

Element, standard wall thickness 100 mm

Model	Length	Width	Height	Weight
165	1665	1665	2805	4,9 t

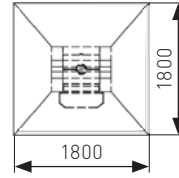
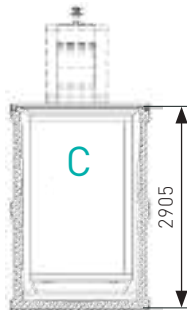
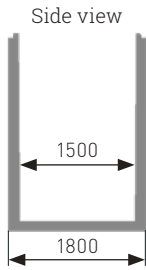
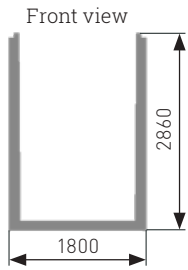


Type CU 180 Eco concrete element

Eco element, wall thickness 120/75 mm

Model Length Width Height Weight

CU 180 1950 1950 2860 5,5 t



Type CU 200 concrete element

Element, standard wall thickness 120 mm

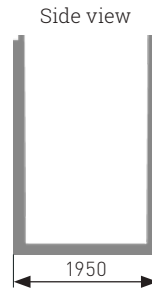
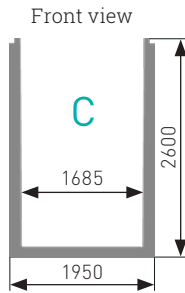
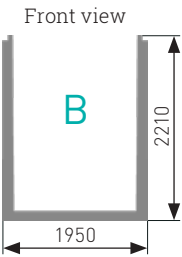
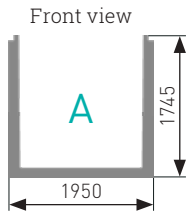
Model Length Width Height Weight

CU 200 A 1950 1950 1745 5,4 t

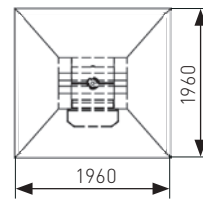
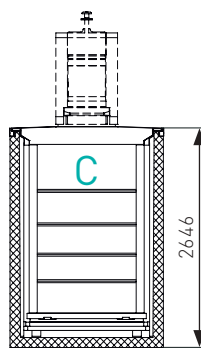
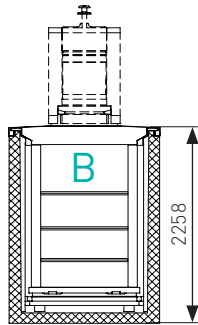
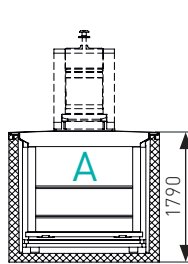
CU 200 B 1950 1950 2210 6,5 t

Model Length Width Height Weight

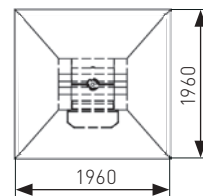
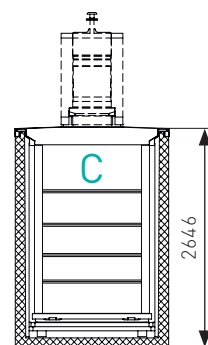
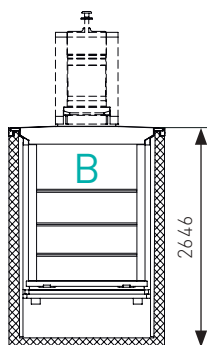
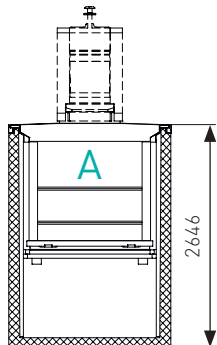
CU 200 C 1950 1950 2600 7,3 t



Container configuration options, CU 200 series



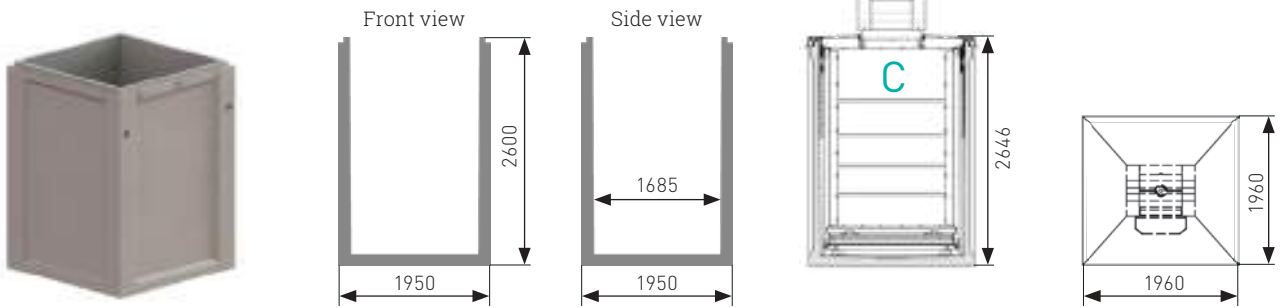
Container configuration options, CU 200 series



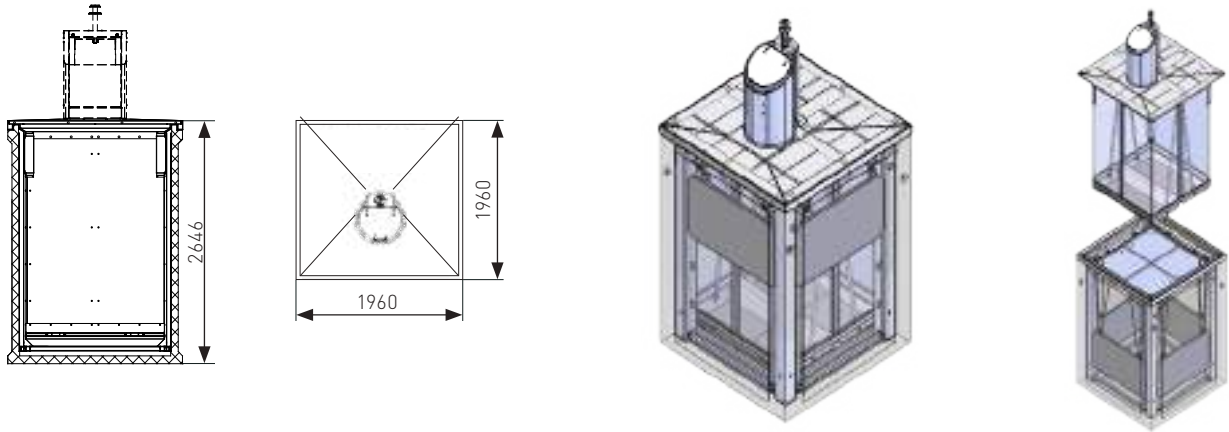
Type CU 200 Eco concrete element

Eco element, wall thickness 120/75 mm

Model	Length	Width	Height	Weight
CU 200 C	1950	1950	2600	4,9 t



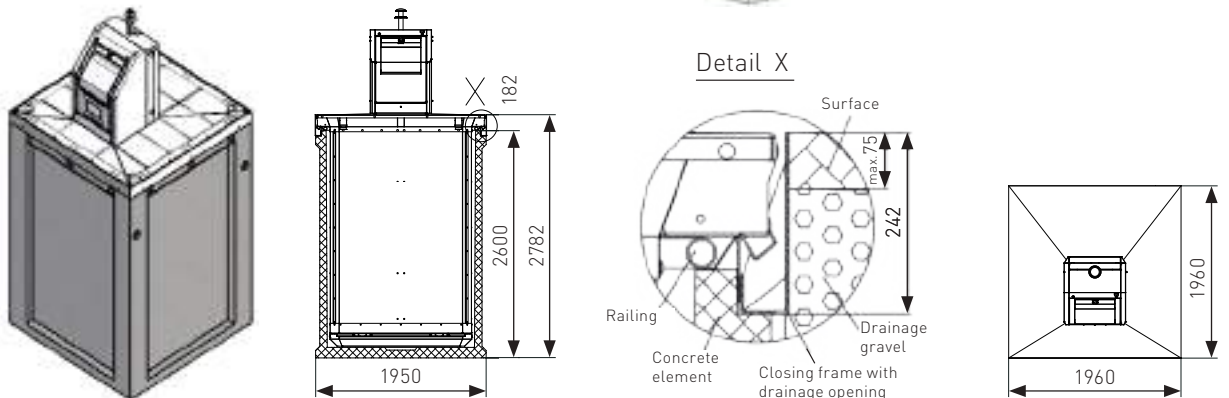
Container configuration options, CU 258 series



Type CU 200 Eco concrete element

Eco element, wall thickness 120/75 mm

Model	Length	Width	Height	Weight
CU 200 C	1950	1950	2600	4,9 t
CU 265 series container				



EN 206-compliant concrete element

CU 200 concrete element – manufactured in compliance with the EN 206 standard

Prefabricated concrete element manufactured in the monoblock process with a wall thickness of 120 mm. 60/60 crown at the top for the fitting of a steel closing frame. Four steel anchors on the side for transport. Concrete floor with slight slope inwards, with pump shaft.



Type 200 C concrete element
fully concreted

CU 200C Ecoline concrete element for eco-friendly benefits

Constant refinement has enabled us to meet both economic and ecological requirements.

The new concrete elements are produced in a process that makes sparing use of scarce resources such as sand and gravel. Thanks to enhanced reinforcement within the concrete, the element meets the requirement for 100 % watertightness and strength. The lower weight of the elements also helps to relieve the environment, because now each truck can carry 5 instead of 3 such elements.

The benefit to you is that this development helps reduce both the use of the following resources and the environmental impact:

Concrete element: sand, gravel, cement

Transport: fuel, CO₂ emissions

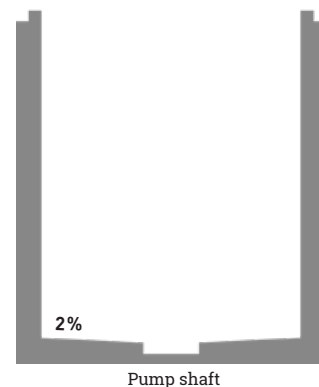
Options:

- Outer coating for greater watertightness
- Inner coating for chemical resistance
- Buoyancy control in the case of higher groundwater levels
- Concrete element with sewer connection

More details available on request.



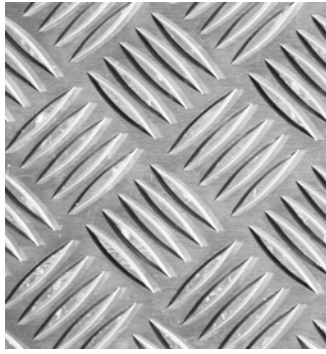
Type CU 200 Eco concrete element
with side inserts



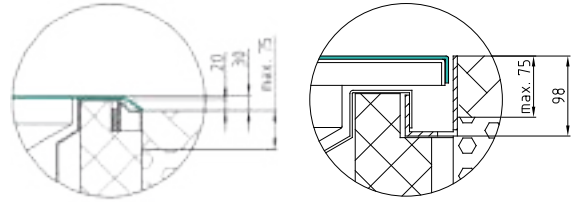
Concrete element with 2 % slope towards the middle - pump shaft

Pavement platform

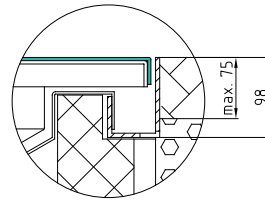
Overview of platform/base surfaces



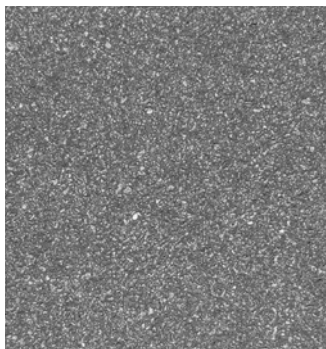
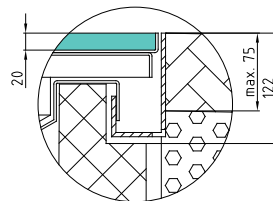
Aluminium bulb plate (5 / 7 mm)



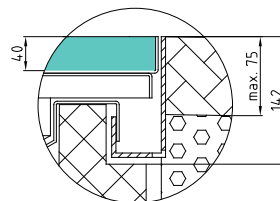
Hard covering (4 mm)



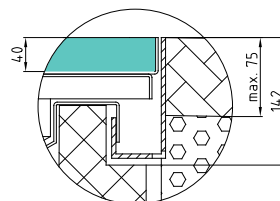
Rubber granulate (black, 20 mm)



Mastic asphalt (40 mm)



Stone coating (40 mm)





**You only
get the true
Swiss original
from us.**

Lugano throw-in column

Our classic

The Lugano throw-in column is characterised by an aesthetic and functional design. It is available in several sizes with top, tilt tray and double drum throw-in. This column allows a collection point to present a uniform appearance for all types of waste, even with different disposal capacities. It can also be upgraded with an access and fill-level control system. The Lugano throw-in column is compatible with all common emptying systems.

Highlights of the throw-in columns:

- Available in three sizes
- Integrated emptying system in various forms
- Central positioning
- Shell made of stainless steel, lacquered
- Very service friendly, folding side panels
- Quiet, cushioned flap closing action
- Integrated intelligence: access and fill-level control system
- Free choice of colours and designs



Who
invented
it?



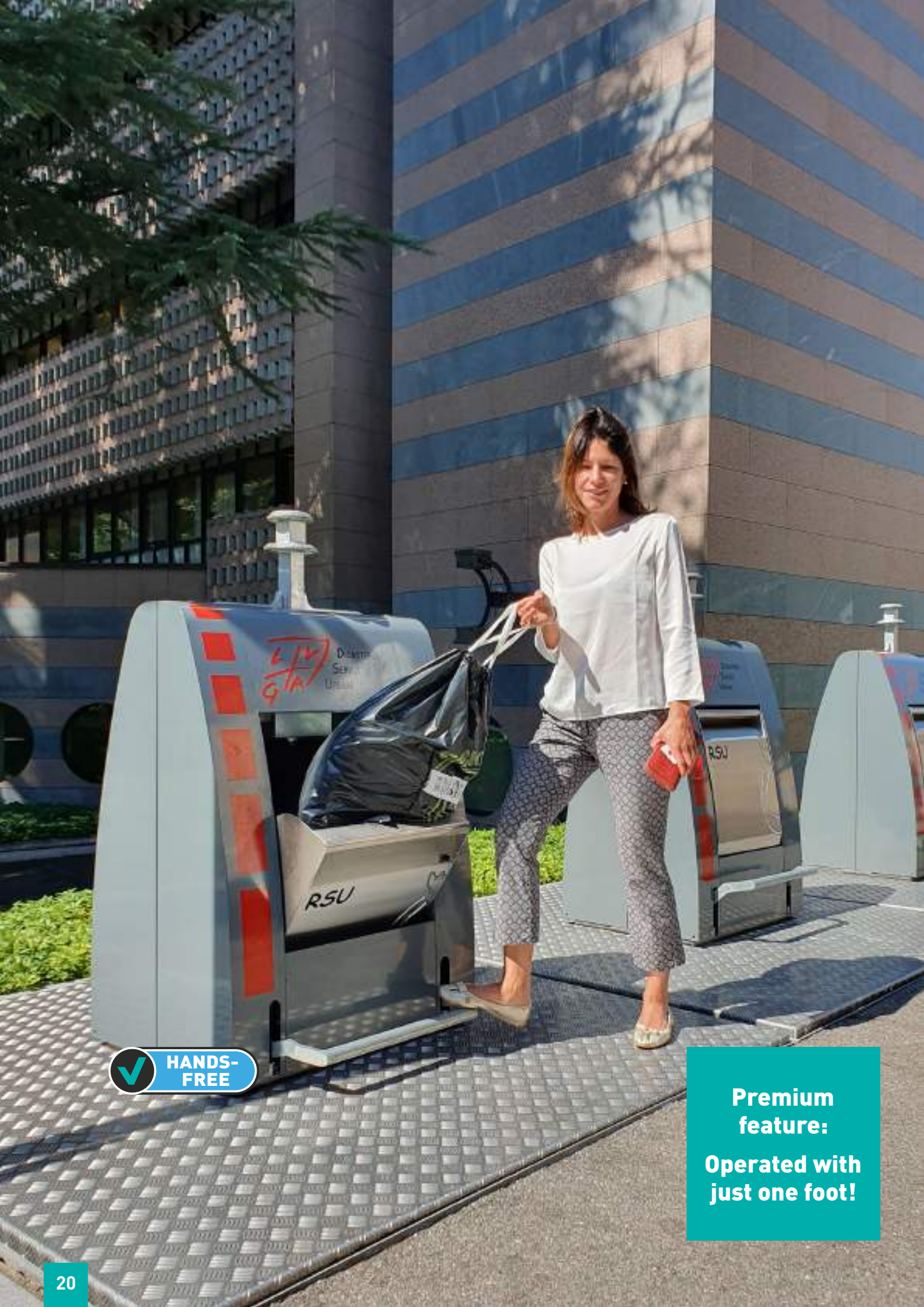


Hardly any paper left lying around

Underground containers offer so much more - such as a better collection rate, tidiness, cleanness and continuous accessibility. This ultimately results in a better quality of life thanks to significantly reduced noise and odour emissions.



Village platform with surface drainage.



 **HANDS-FREE**

**Premium feature:
Operated with just one foot!**

Premium features: as standard

Always a step ahead

Villiger undoubtedly revolutionised underground container construction years ago. It was also the first company to refresh the market with newly designed throw-in columns and a modular container system. Right from the start we designed it on the basis of the ideal dimensions, which have since become standard for our competitors as well.

The right decision for you

Villiger's wide range of underground containers is unbeatably large in every respect and covers all requirements. Our trained staff will be happy to inform you of the many different options, specifications and areas of application. Why not take a look at our broad product range for yourself?


Maximum convenience with "HANDS-FREE"

You do not touch any access flap with your hand. The access flap is opened using a foot pedal and has an automatic soft-close mechanism.



We
develop
faster
than others
can copy.



A harbor scene featuring a wooden pier with several wooden benches. In the background, a large wooden sailing ship is docked. To the left, a modern building with a dark roof and white walls is visible, with a colorful, abstract sculpture on its side. A blue trash can with a crown logo is also present. The foreground is paved with cobblestones. The sky is overcast.

**Premium
features
speak for
themselves.**

**Our collection
territory has
got bigger
yet again.**





HOTEL

LOUIS VUITTON

HOTEL INTERNATIONAL AU LAC

LOUIS VUITTON



The original since 1995.

Impressive cleanness

How waste disposal is organised is now of central importance for city centres, residential complexes and local communities. That is why such underground waste management systems are particularly in demand for apartment blocks, parks and city centres. They are attractive, save space, offer barrier-free access and ensure a clean, cared-for living environment and cityscape.

Since land is becoming ever more expensive, particularly in conurbations, and it would be a pity to take up valuable space with rubbish bins, more and more operators are opting for an underground waste collection solution.

The benefits to you:

- Only the elegant throw-in column is visible
- Large, underground collection capacity
- No odour emissions
- Can be used at any time
- Cost savings and reduction in CO₂ emissions



Adapted exactly to the street level. Level compensation 2 %.



Reliable disposal

The new type 175 Lugano double drum

The double-drum system enables controlled, reliable disposal. You told us your requirements and shared your experience with us. Now discover our complete range of double-drum columns. We are confident that you will have found exactly the right throw-in column for you.

Maximum convenience with "HANDS-FREE"

You do not touch any throw-in drum with your hand. The drum is opened using a foot pedal and has an automatic soft-close mechanism.

But it's even better than that

Step on the pedal while the drum is closed with a lock? No problem. The pedal linkage is fitted with a spring release - as are all other foot pedal versions.



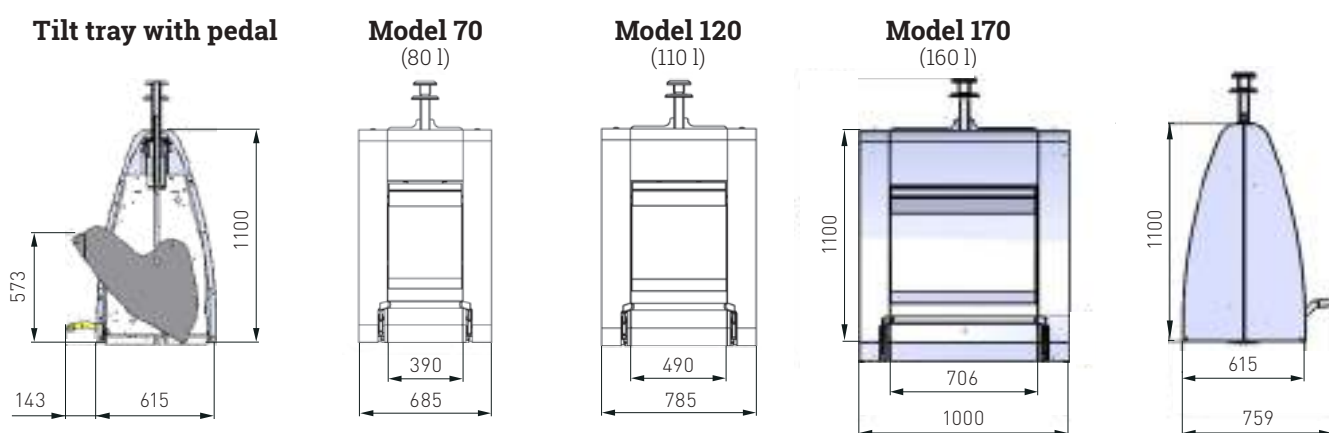
Lugano throw-in columns

Who invented it?

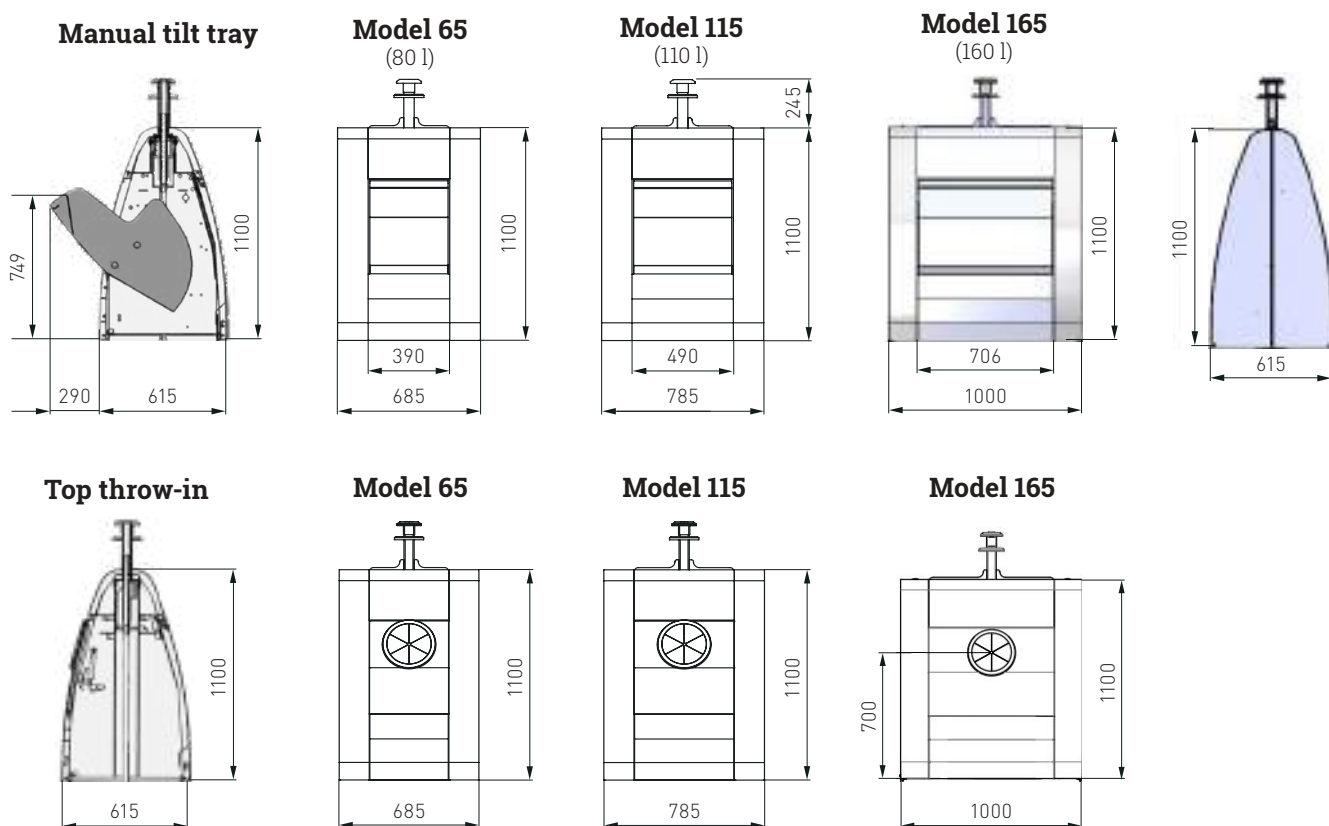
The economic solution with premium features as standard

The number of throw-in columns of the Lugano type produced since 1995 comes to around 30,000. Over the years its structure has been relentlessly tested and improved to deliver outstanding reliability. Among its most useful features are the timeless design and the modular construction. With more than 18 models and three assemblies, the Lugano model is a match for anything and significantly expands your range of options.

Model overview with dimensions: Lugano throw-in columns



Model overview with dimensions: Lugano throw-in columns



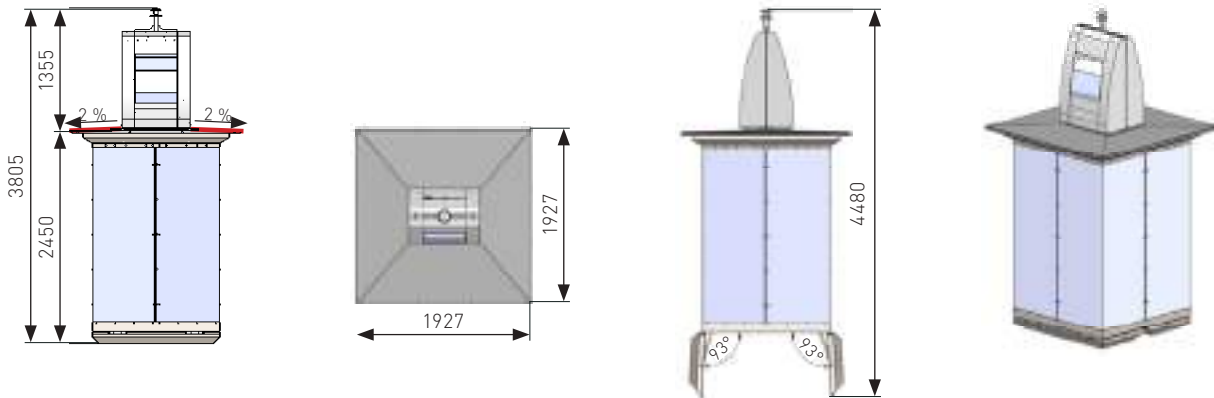
Profit from versatility

Convincing premium features

Many premium features flowed into the development from the start. This has produced an extremely versatile throw-in column like few others - not for nothing has it been copied by many competitors. But you only get the high-quality original from us!

- Thick carrier structure, galvanized
- Shell made of stainless steel, powder coated
- Exchangeable lifting bracket (e.g. to mushroom, 1 hook, 2 hooks)
- Service and maintenance door with lock
- Various throw-in options (e.g. top throw-in)
- Stainless steel access flap with closing cylinder
- Foot pedal for access flap / drum
- Misc. electronics

Platform, CU 252 series collecting container

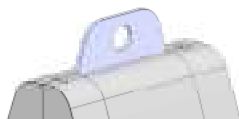


Model overview: Emptying systems

Mushroom system



1 hook

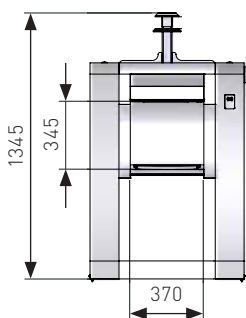


2 hooks

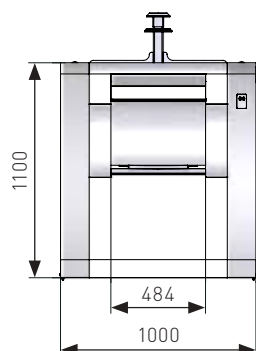


Model overview with double drum

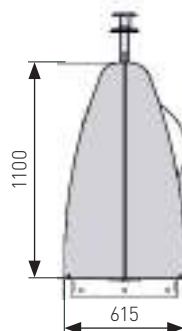
Model 125 (60 l)



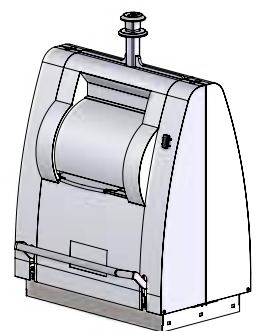
Model 175 (80 l)



Model 175



Model 175 with foot pedal

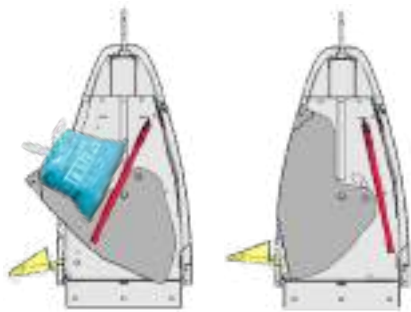


Standard, but modular

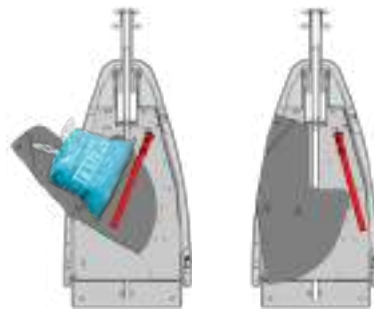
Simply more

Volume-limiting flap: The volume-limiting flap controls the volume of the tilt tray to between 30 and 65 litres, depending on the type of column.

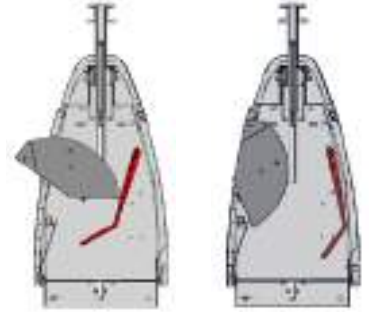
Models 70 / 120



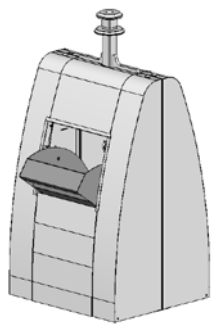
Models 65 / 115



Model 67



Model 67

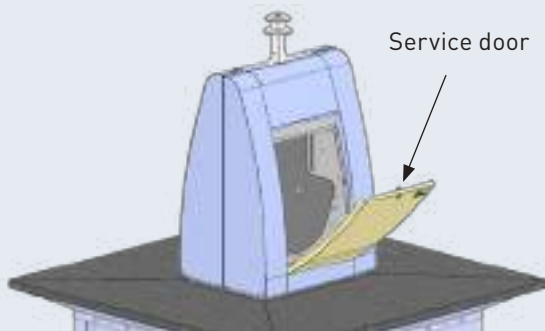


For the little ones too

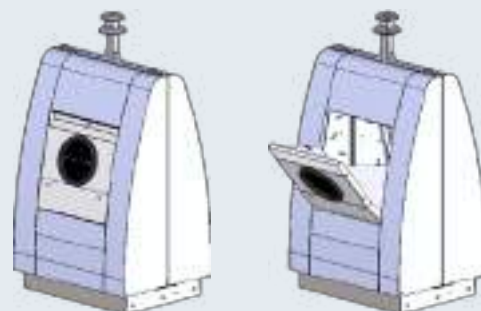
If the small biodegradable or refuse sacks are to be counted with an access system, a smaller access flap of 35 litres is perfectly sufficient.

Stainless steel access flap with single-sack throw-in.

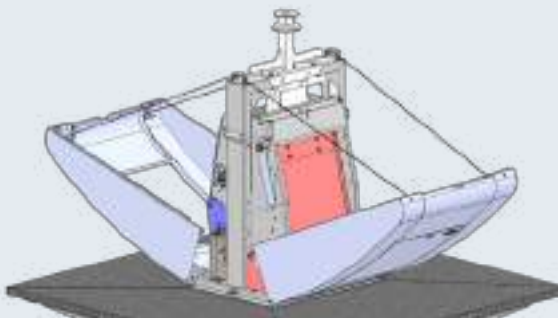
Service door with lock



Top throw-in with flap



Simply more convenience:
Hinged or suspended shell



For convenient service access

The service door and the wide-opening flaps of the shell give you easy access for maintenance.



Vident access systems

Who is allowed to throw in waste?

Lugano model

Whatever your requirements in terms of a locking system may be, all our throw-in columns are prepared for everything. Whether delivered new or installed later. All access systems are offered under the Vident product name.



Vident-Star

1

One key for everything

A proven locking mechanism: the drop lock

The Vident-Star system allows every single user to be issued with a key giving them individual rights within the locking plan hierarchy.

1 Vident-Star



Vident-Basic

2

Electronic access system

With the Vident-Basic access system, you can unlock the throw-in column with your personal card or a badge. This version comes without a display.

1 Vident-Star

Vident-Basic-Flex

3

Electronic access system

With the Vident-Basic-Flex access system, you can unlock the throw-in column with your personal card or a badge. It includes a display showing comprehensive information.

More information on request. Ask for our detailed documentation.



2 Vident-Basic



3 Vident-Basic-Flex

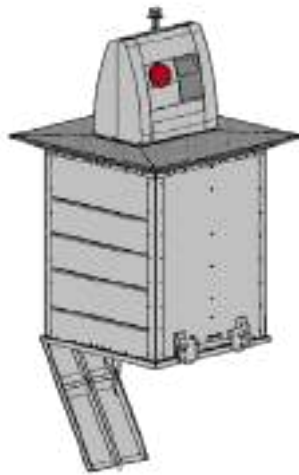


**Flexibly
equippable
and
retrofittable.**



Two in one

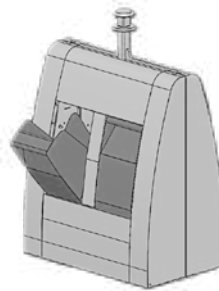
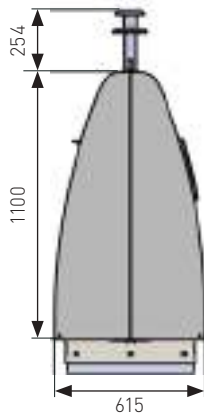
What is so special about this one is that the container was subsequently modified because it was missing a waste fraction. That turned one into two.



Brought to the point

- Container in 2-chamber version
- Throw-in column divided into:
 - a) access flap approx. 60 l (type 165 Lugano)
 - b) Top throw-in for glass
- New, innovative emptying technology for individual emptying with the standard mushroom system

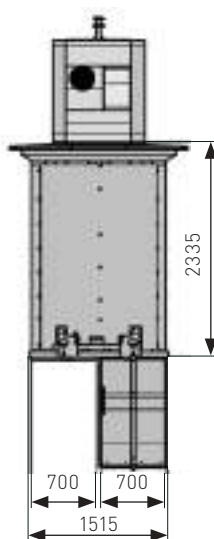
Model 165-2

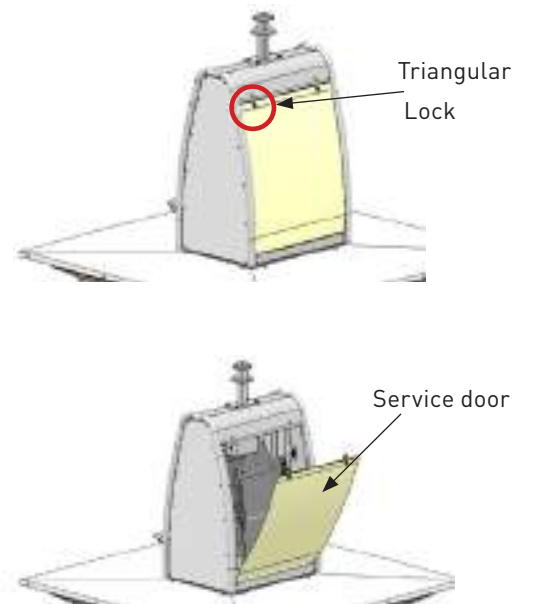


2x manual tilt tray
à 60 l



Manual tilt tray
60 l top & glass
throw-in







Lugano 118

Simple, but robust

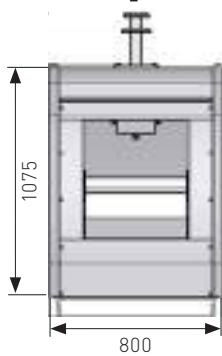
The Lugano 118/122 series is a refinement of the standard Lugano 115 model and is compatible with the platform. It is available with a standard stainless steel access flap with or without a foot pedal. Again, a variety of top throw-in panels can be fitted instead of the access flap.

The same results, but lower purchase costs

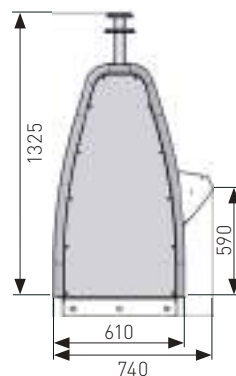
The focus was on robustness and lower production costs, which is why the visible tubular carrier frame at the top was attached to a thick sheet metal frame. The lifting connection is screwed to the top of the frame (galvanized). The side parts are made of stainless steel. There is a detachable service door at the back.

- Galvanized tubular frame
- Side panel lacquered stainless steel, colour of choice
- 110 l stainless steel access flap, optionally with volume-limiting flap

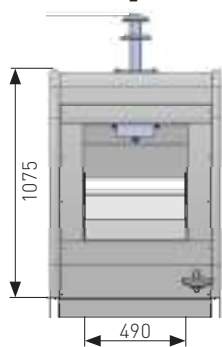
Tilt tray without foot pedal



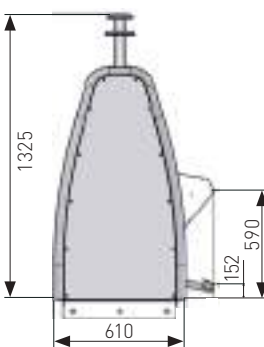
Model 118



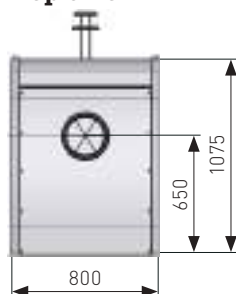
Tilt tray with foot pedal



Model 122



Top throw-in



Model 118



**Made in
Switzerland.**

**Quality
from Oberrüti
since 1991.**





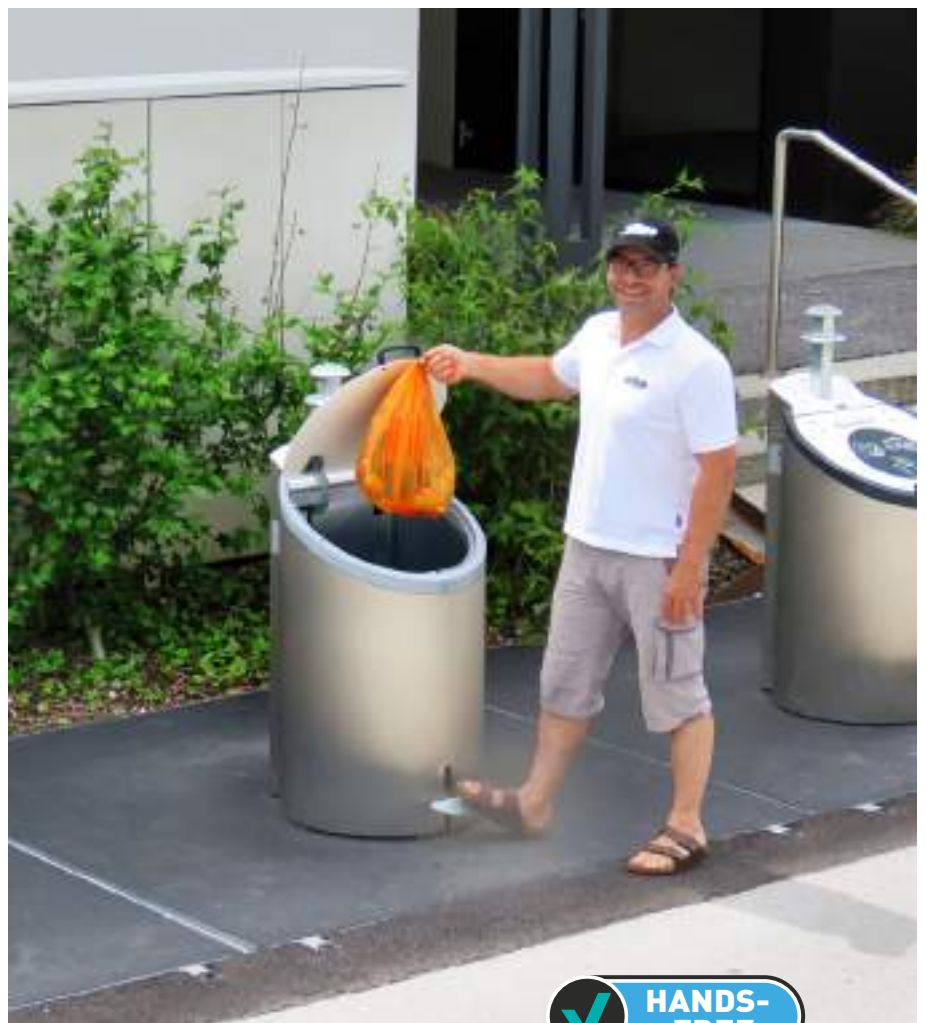
Find the Baléro throw-in column that suits you

First class from start to finish

We don't just build first-class containers, we also build first-class throw-in columns. Let's take a look at some of the benefits that this interplay brings. The popular Baléro series was specially developed with a robust, uncomplicated column. It offers an attractive combination of design and simplicity.

Modular design, exchangeable individual parts

It has an aluminium frame with an aluminium access lid and closing cylinder for soft closing. Suitable for every collection type - a real all-round solution! What's more, the columns can also be accessed by wheelchair.



Baléro 115 with foot pedal





**First class
through and
through.**





First-class expectations

To meet your high expectations and our equally high quality standards, only premium materials and highly skilled workers are used to manufacture our throw-in columns. Whatever your requirements, you will always find the right Baléro throw-in column for every application here.

Everything to meet your expectations

Do you want to be sure that your products are always ready to use and are highly appreciated by citizens at all times? We will help you achieve this with our well-trained team. As all our products are exchangeable, a lot can be done directly on site. That saves both time and money and is also more convenient.



Baléro 120 on Liftomat / Baléro 170 for residual waste with mushroom emptying system





- Baléro 115 for residual waste
 - Baléro 120 on Liftomat for organic waste
- System with compensation for 4° slope.

**First-class
collection
point at
exclusive
locations.**

Technical solutions for the best results

First-class collection points

The waste management industry is changing at a rapid pace. It's all about productivity, quality and cost optimisation. We put all our experience and expertise into giving you more productive, versatile and effective ways of disposing of waste.

Designed for unrestricted access and unforgettable user friendliness, these Baléro throw-in columns withstand even the toughest conditions.

In buying a Villiger underground system, you not only get a functioning product, but also prompt and expert support from your Villiger sales partner.



Collection point with Baléro 115-9 (throw-in height of 900 mm) and Baléro 140 (multi-chamber)

Baléro throw-in columns

First-class selection

When the focus is on reliability.

The number of throw-in columns of the Baléro type produced since 2008 comes to over 28,000.

With its reinforced cast aluminium frame, integrated lid hinge, channel for discharging storm water and stainless steel shell, the modular design has proven its worth time and again over the years.

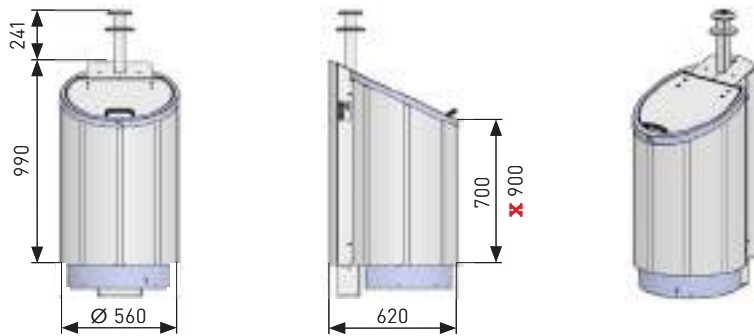
The modular lifting bracket for all standard emptying systems is easy to replace. It is assembled entirely from the outside in ultra-quick time – thanks to **"ADVANCED OFFMOUNTING"** – without you ever having to climb into the collecting container. That makes it both user and service friendly.



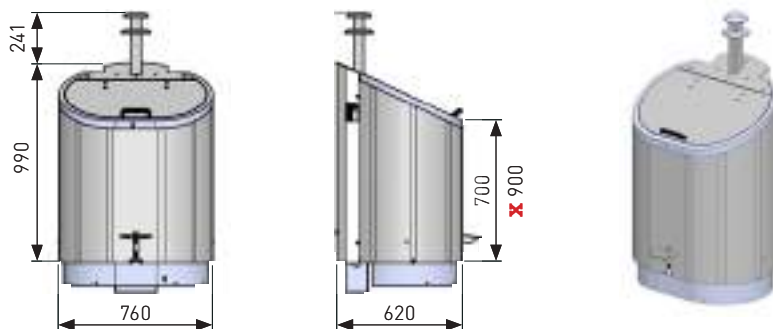
All columns also available with or without "HANDS-FREE" option.

Model overview and dimensions: Baléro throw-in column x Optionally with throw-in height of 900 mm

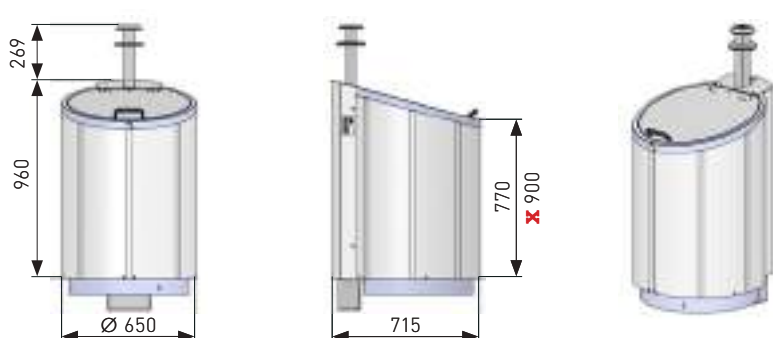
Baléro 115



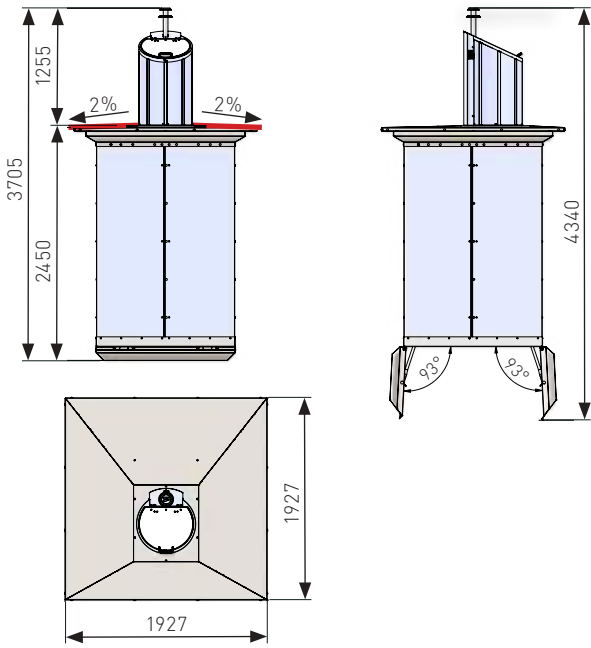
Baléro 140



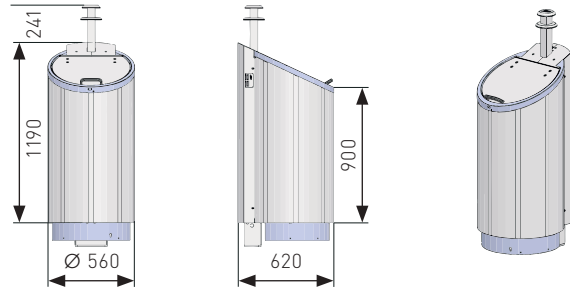
Baléro 170



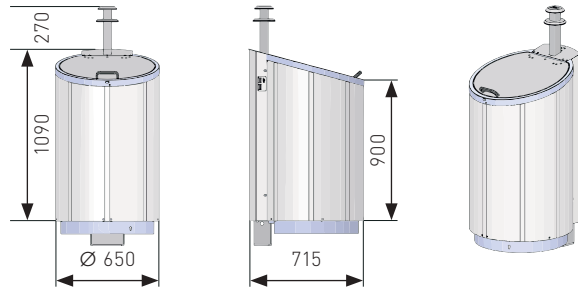
CU 252 series collecting container



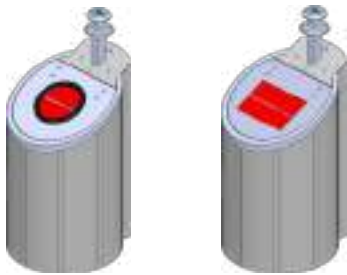
Baléro 115-9: Optionally with throw-in height of 900 mm



Baléro 170-9: Optionally with throw-in height of 900 mm



Top throw-in



Glass
Throw-in Ø 200 mm with plastic ring and brush, noise protection package with guide tube

Cardboard
Throw-in with brush, 200 x 320 mm

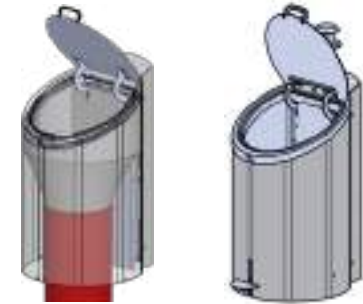
Throw-in panels



Glass
Throw-in panel Ø 200 mm with plastic ring and brush, noise protection package

Paper
Throw-in panel, rectangular 120 x 320 mm

Direct throw-in



Organic waste
Funnel Ø 250 mm, stainless steel internal wall, conical with plastic tube

Residual waste
Ø 500 mm / 550 mm

Overview of emptying systems

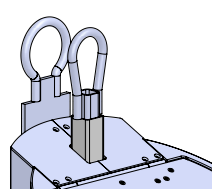
Mushroom



1 hook



2 hooks



Baléro model (protective sleeve)

Available for all models.



Vident-Star

One key for everything

A proven locking mechanism: the drop lock

The Vident-Star system allows every single user to be issued with a key giving them individual rights within the locking plan hierarchy.



Marking options

Adhesive film



Printed (screen printing)







Vilaro throw-in column

All-round excellence

After selecting your Vilaro throw-in column, you need to consider how best to prepare for the collection system. We can expand or modify the Vilaro assembly to suit your requirements.

Outstanding Villiger principle

This throw-in column also comes in an attractive modular and functional design. With both a top throw-in and a throw-in lid and cushioned closing, it is available for all types of waste. It can be supplied with all standard emptying systems.

Mechanical or electronic

With the basic version, 1-fold locking systems for all types of waste can be integrated. However, a range of electronic components such as access systems, fill-level sensors and a complete weighing mechanism for individual refuse sacks can also be fitted.



Waste disposal station with Vilaro-120 columns and Vident-Basic access system.





**Outstanding
collection point at
the Lavaux CH
UNESCO World
Heritage Site.**

Built by an outstanding team

Our systems are designed on the back of global expertise.

We have more than 30 years of experience in the production of waste management systems.

Our customers right across the world are delighted with what we offer.

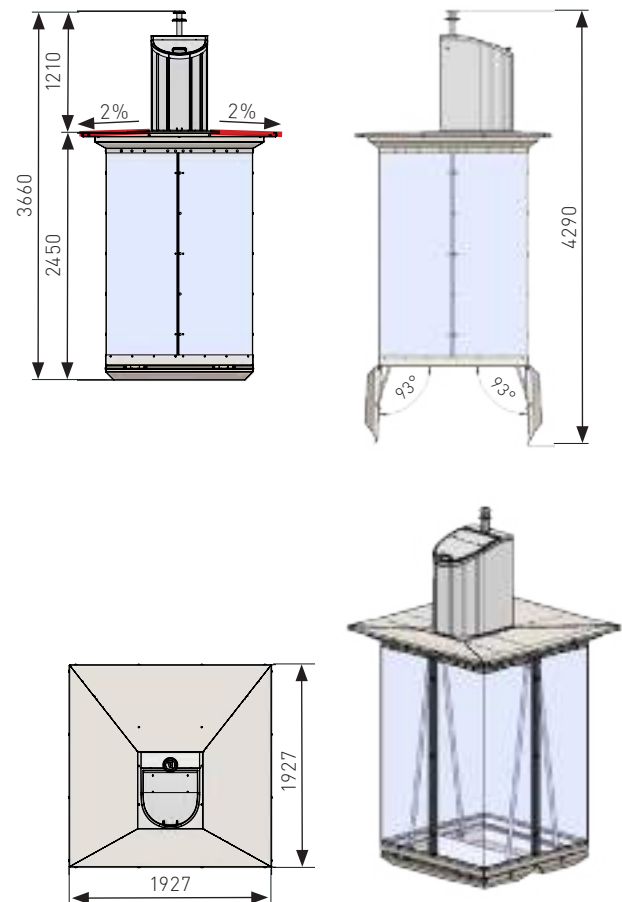
Welcome to our new range of Vilaro throw-in columns.

Here you will find the optimal product tailored to meet your needs and requirements:

- A throw-in column with a standard throw-in
- An intelligent throw-in column with:
 - a) electronic, battery-operated access system
 - b) access with individual sack weighing, powered by solar cells or induction
 - c) Vident-Star locking system



CU 252 series collecting container



Vilaro throw-in columns: Simply more than others

Top throw-in



Glass

Throw-in Ø 200 mm with aluminium lid, plastic ring, lid and front panel lacquered



Paper

Throw-in 200 x 360 mm with brush, lid and front panel lacquered

Throw-in panels



Paper

Rectangular throw-in 115 x 325 mm



PET Switzerland

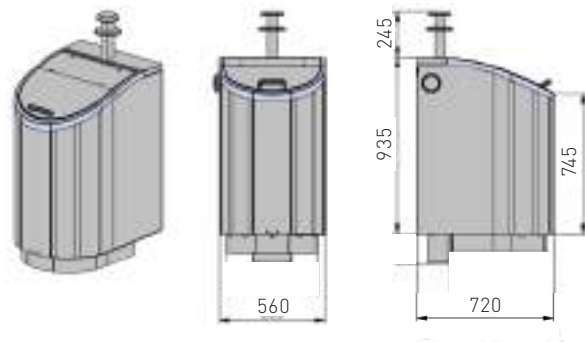
Throw-in Ø 110 x 180 mm

Direct throw-in

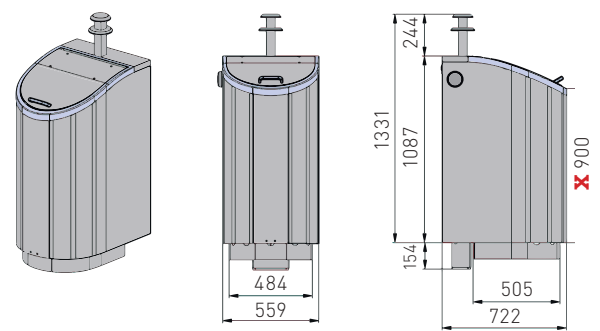


Residual waste

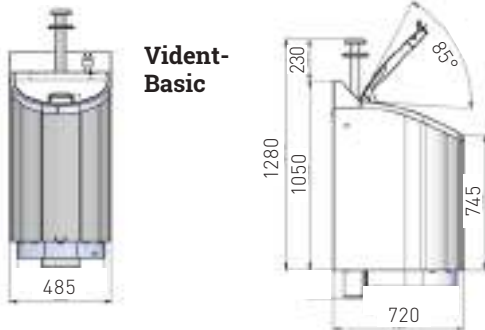
Dimensions: Vilaro throw-in column



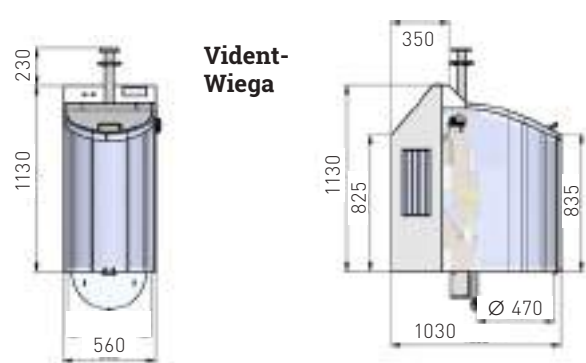
x Optional: throw-in height 900 mm



Vilaro with access system and weighing



Vident-Basic



Vident-Wiega

Overview of emptying systems

Mushroom system



1 hook



2 hooks



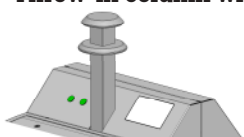
3 hooks



Throw-in column with access system Vident-Basic



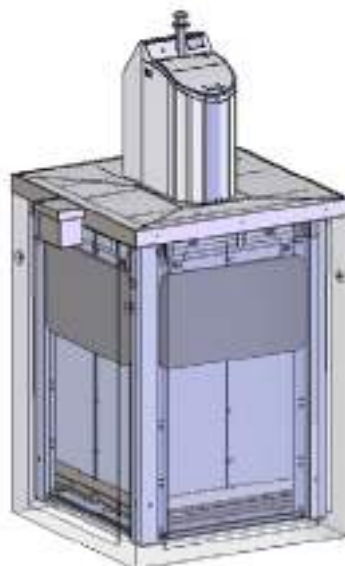
Throw-in column with weighing Vident-Wiega





Expect more than calculating the precise weight

- Vilaro throw-in column with individual sack weighing
- Simple, reliable technology
- Limitless energy supply:
 - a) via solar cells and batteries
 - b) via induction for wireless transmission



Vident-Wiega with induction



Vident weighing system: Vilaro model

Technology at your service

Networked waste management has long been a feature of collection points, too. The many different options for determining the disposal fees at the throw-in column and charging them direct to the user offer numerous advantages. Our dynamic weighing system enables you to rapidly determine the precise weight of every refuse sack that is thrown in.



Vident-Wiega

Electronic access system with weighing

1

1

Every gram counts!

Use the intelligent Vident weighing technology on the Vilaro throw-in column and its reliability by only being charged for the waste you put in. The Vilaro weighing column has everything needed for weighing single sacks.

- Card scanner for RFID cards
- Internal channel on weighing cell with integrated opening flap
- Solar cells for the energy supply
- Mushroom emptying system

See www.villiger.com for further information



Vident-Basic

Electronic access system

2

2

With the Vident-Basic access system, you can unlock the throw-in column with your personal card or a badge. This version comes without a display.

Vident-Star

One key for everything

3

3

A proven locking mechanism: the drop lock

The Vident-Star system allows every single user to be issued with a key giving them individual rights within the locking plan hierarchy.





**Excellent
appearance.**



Terrano - one for the little one

Excellent throw-in column

Many recycling collection points only need a smaller throw-in column. Even so, they can still collect very large quantities. The elegant, curved column is made of high-quality stainless steel. Like all other products, this column too is manufactured as a proven modular system. Various emptying systems can be integrated, and of course the colours and markings can also be customised.





Excellent references for collection points.





**We deliver
more than
promised.**



Excellent quality is decisive

Innovative technology gives you the edge, whether high-end appliances or simple throw-in columns.

We manufacture all products with the same level of care and quality so that we can offer functionality, modularity, service friendliness and particularly long life. Unfortunately, however, too often these days people settle for short-term, lower-quality solutions at the lowest possible prices. Usually, though, these products are neither attractive looking nor sustainable or environmentally friendly.

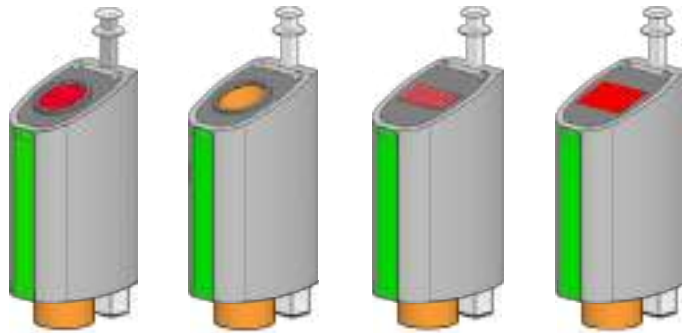
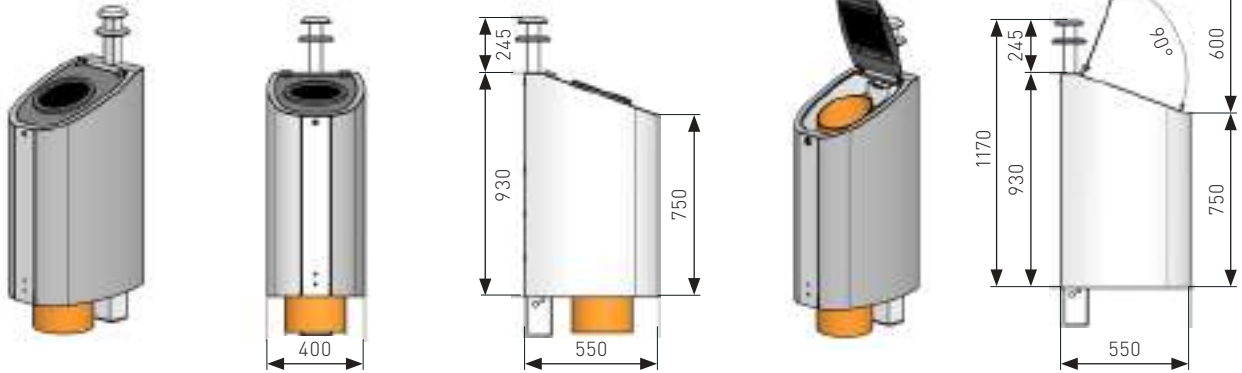
It is in fact much more cost-efficient to choose a product that offers a long service life with all the functions.

We give you a full, long-term guarantee on our products - another key factor that makes the crucial difference.



Simply more excellent than others

Model overview and dimensions: Terrano throw-in column

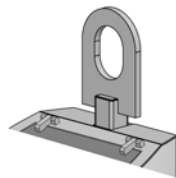


Overview of emptying systems

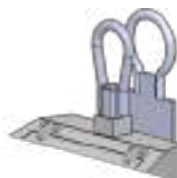
Mushroom system



1 hook



2 hooks



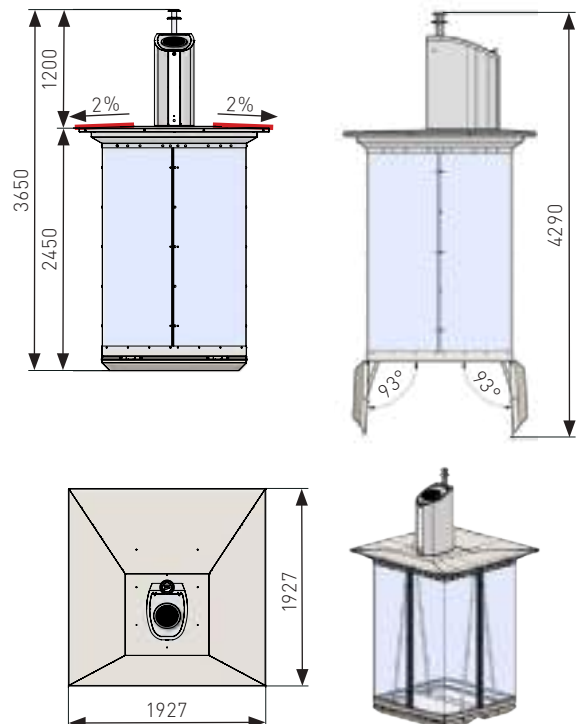
Top throw-in

The Terrano column is only available as a direct throw-in and comes under "top throw-in".

Properties:

- Made from 2 mm stainless steel, welded
- Lacquered or electropolished
- Opening flap with triangular lock
- Pipe or guide tube \varnothing 250 mm
- Front panel as marking strip, choice of colour
- Various emptying systems
- Column assembly Villiger "ADVANCED OFFMOUNTING"

CU 252 collecting container





**Success is
based on
experience.**

We have several decades
of experience.



Marino throw-in column

Expertly mobile

We offer a large range of throw-in columns so that you have the perfect model for your needs. All our throw-in columns for asymmetric positioning can be mounted on the platform from above in next to no time.

Expertly constructed

Constructed for double-drum throw-in with two contra-rotating drums. The standard version has a capacity of 80 l, optionally 60 l with a smaller drum. However, waste and recyclable material such as paper, cardboard or bottles are suboptimal for disposal by drum. A front throw-in appropriate to the type of waste is then fitted instead of a drum.



**Expertly
integrated
into the
surrounding
area.**





Underground collection point with Marino throw-in columns

- Double drum for residual waste
- Top throw-in for paper

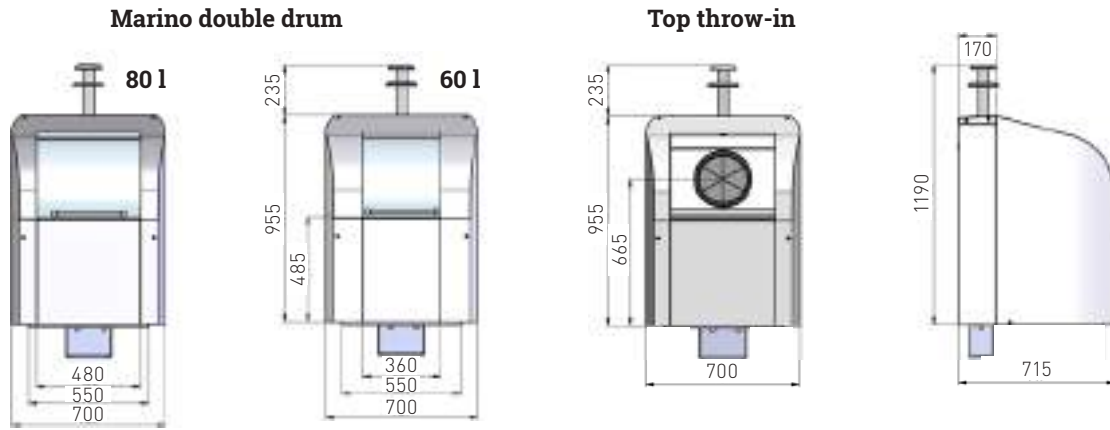
Marino throw-in column Expert partnership pays off!

Mutual trust is the key to a lasting and successful partnership

Nobody knows as well as our staff and our professional sales partners just how important reliable, first-class products are. That's why we attach the utmost importance to innovation and customer-focused solutions, which means you can rely on a strong network of sales partners when it comes to service. That's the customary Villiger quality and service standard you can expect from us!



Model overview and dimensions: Marino throw-in column



Overview of emptying systems

Mushroom system



1 hook



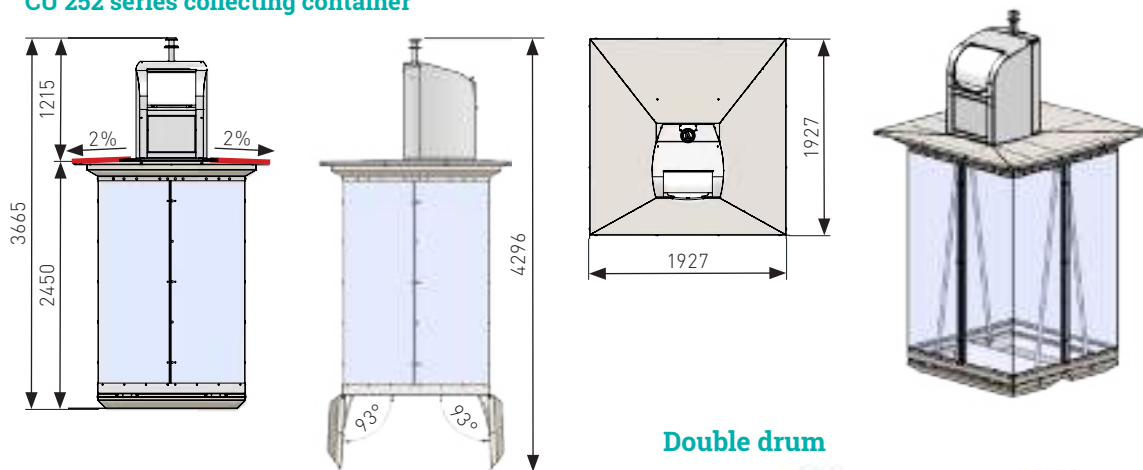
2 hooks



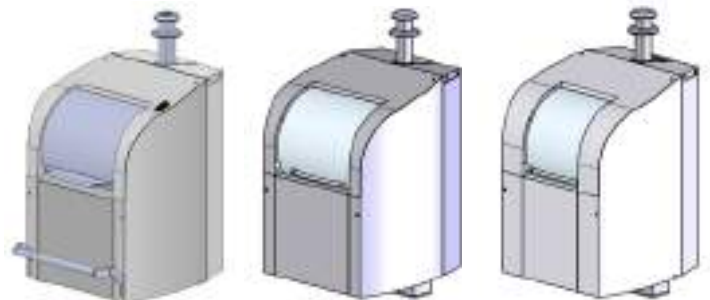
3 hooks



CU 252 series collecting container



Double drum

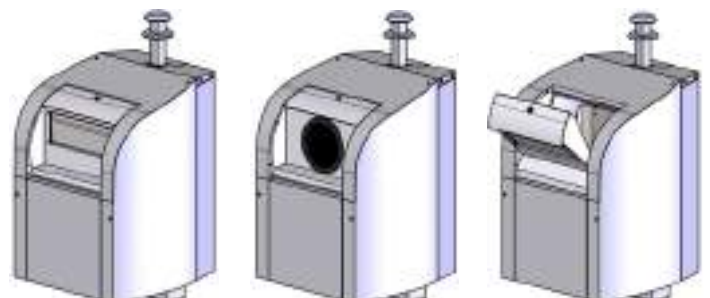


The Villiger "modular products" principle has also been integrated into the Marino throw-in-column. Here too, all parts can be exchanged, which makes the product suitable for a wide range of applications.

Properties:

- Basic structure made of sheet steel, galvanized
- All emptying systems can be exchanged
- Shell 2 mm stainless steel, welded & powder-coated
- Optionally with drum system or top throw-in
- Column assembled from outside ("ADVANCED OFFMOUNTING")
- Overlapping panels prevent the ingress of storm water

Top throw-in





Vident access systems

Who is allowed to throw in waste?

Marino model

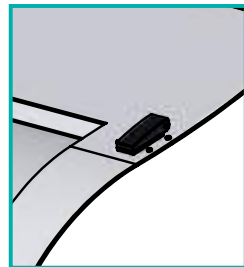
Whatever your requirements in terms of a locking system may be, all our throw-in columns are prepared for everything. Whether delivered new or installed later. All access systems are offered under the Vident product name.



Vident-Basic-Flex Electronic access system

1

With the Vident-Basic-Flex access system, you can unlock the throw-in column with your personal card or a badge. It includes a display showing comprehensive information.

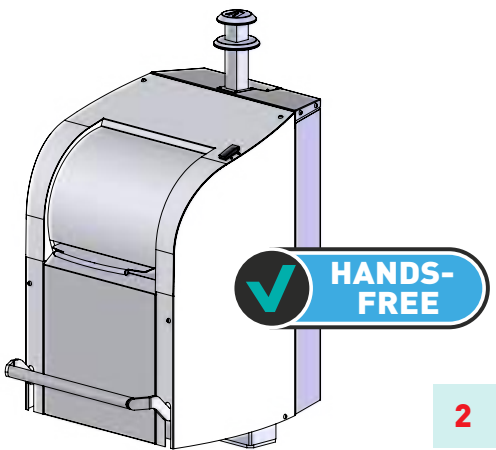


Vident-Star One key for everything

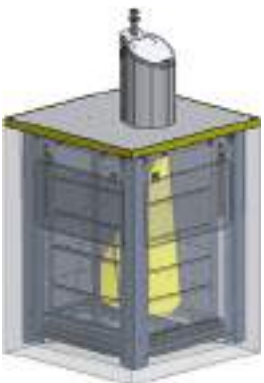
2

A proven locking mechanism: the drop lock

The Vident-Star system allows every single user to be issued with a key giving them individual rights within the locking plan hierarchy.



2

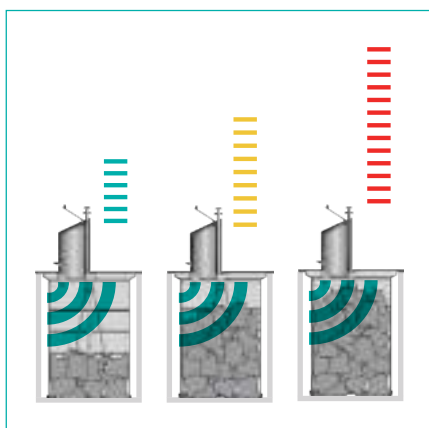


Fill-level sensor monitors the waste level.

Always well informed with fill-level sensors Vident-Fill

Wireless fill-level sensors constantly and reliably transmit the fill level of the container and a lot of additional data to the internet-based web platform. The collection runs are created automatically on the basis of the forecasts. The web-based solution offers interfaces for the easy integration of your data into the existing IT infrastructure, allowing you to save considerable running costs.

Can be installed in all throw-in columns.





Expert
advice
pays off.





**Professional
Swiss
promise.**



Bellagio throw-in column Professional underground strategy

For ecological and financial reasons alone, underground systems are the future when compared with conventional door-to-door collection via small containers (wheeled containers) or waste dumped loosely.

All experience from the public to date confirms that this is the trend of the future and will continue to grow. Villiger has long been playing a huge part in this, not least through our pioneering innovations. It is not for nothing that the Villiger name has become a global brand.

Underground containers marry high requirements on the clean and practical disposal of waste with a timeless design, attractive appearance and high quality of materials. This is evident from the use of our products at locations with the highest urban development standards.



**We are
Villiger:
simply
professional.**





ATZ PRO
Seturiz

USB

Bellagio throw-in column

Professional products

We have real column professionals

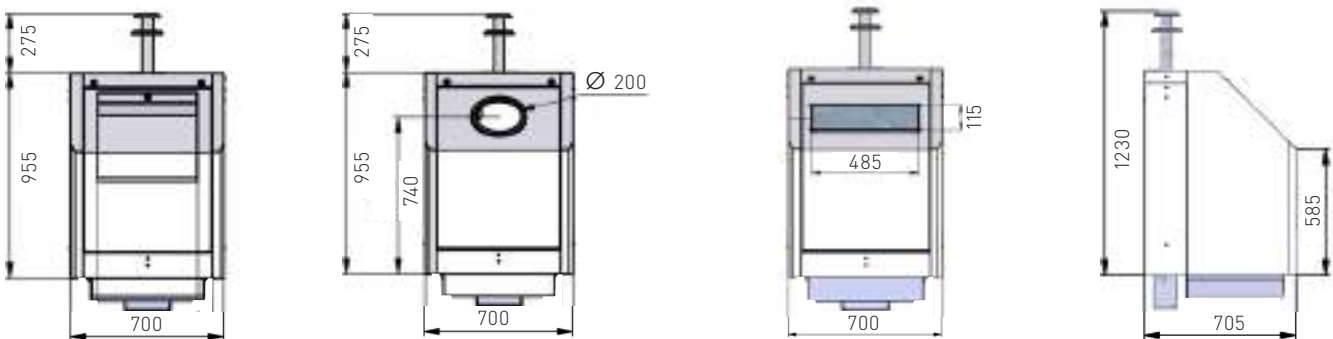
The Bellagio column is the seventh and latest model and, like all the other Villiger models, is built in large numbers. The Bellagio throw-in column was developed in close collaboration with customers and our column professionals. The Bellagio model also differs purely in its look, since all other Villiger models have a round and curved design. The Bellagio column presents a masterful appearance marked by flat surfaces.

Here too, the unique Villiger principle of modular production has been integrated. All parts are screwed in and exchangeable, for instance, making the product more versatile, profitable and especially longer-lasting.

The benefits of the Bellagio column to you:

- Entire column designed to be watertight
- Front panel can be tilted (service friendly)
- Column mounted from outside ("Advanced Offmounting")
- Powder-coated, choice of colour
- Stainless steel access flap for 100 l. sacks
- Choice of emptying system
- Stainless steel shell
- Top throw-in, front panel exchangeable

Model overview and dimensions: Bellagio throw-in column

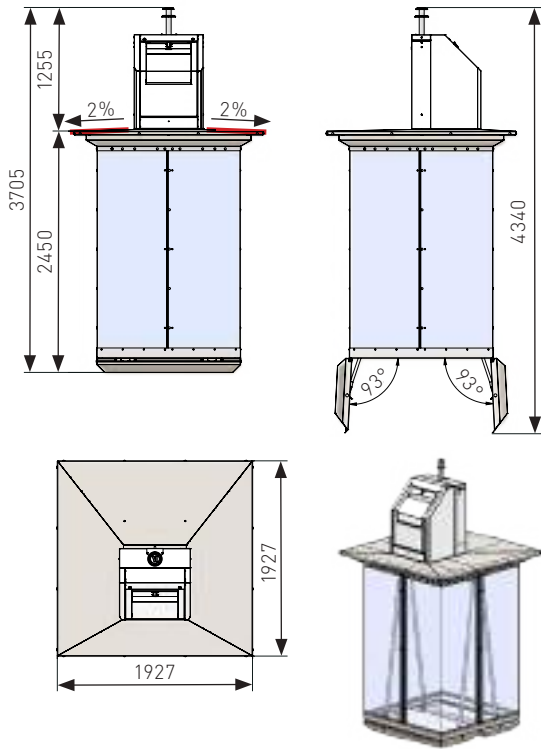


Open access flap



Lockable front service flap

CU 252 series collecting container



Vident-Star

One key for everything

A proven locking mechanism: the drop lock

The Vident-Star system allows every single user to be issued with a key giving them individual rights within the locking plan hierarchy.



Manual tilt tray, 110 l



Overview of emptying systems

Mushroom system



1 hook



2 hooks



3 hooks



Top throw-in






















**Professional
reference
systems.**






Bellagio throw-in column
with integrated can press
for cans up to 5 L.

Throw-in column and container types: Overview

	Lugano 65/70	Lugano 115/120 117/125	Lugano 165/170 175	Baléro 115	Baléro 170	Baléro 140	Terrano	Vilaro	Marino	Bellagio						
											Platform slope	Village platform	Standard platform	Securomat	Safeymat	Volume reduction
Approximate column weight (kg)	140	150	165	75	85	80	50	85	120	110						
CU 150 B/C CU 150D 	✓	✓	—	✓	—	—	✓	—	—	—	—	✓	① ② ③ ④	✓	✓	—
CU165C 	—	✓	—	○	—	—	—	—	—	—	—	—	① ②	✓	—	—
CU180C 	—	✓	—	✓	—	—	—	✓	✓	✓	○	✓	① ②	✓	—	✓
CU200 A/B/C 	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	① ② ③ ④	✓	✓	✓
CU252 B/C 	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	① ② ③ ④	✓	✓	✓
CU258C 	—	✓	✓	✓	✓	—	✓	✓	✓	✓	○	✓	① ②	✓	✓	✓
CU265C 	—	✓	✓	✓	✓	—	○	✓	✓	✓	○	—	① ②	—	✓	✓

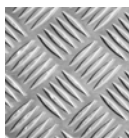
1-hook container

CU150 B/C 	✓	✓	—	✓	—	—	✓	—	—	—	—	✓	① ② ③ ④	✓	—	—
CU180 	—	✓	—	—	—	—	—	—	—	—	○	✓	① ②	✓	—	✓
CU200 A/B/C 	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	① ② ③ ④	✓	—	—

①

Hard covering
4 mm

②



Bulb plate 5/7

③



Rubber

④



Stone / mastic asphalt

○ On request

✓ Available

— Not available

Slope:

0 - 3% with 0.5% gradation.
Other slopes on request.

Safety equipment

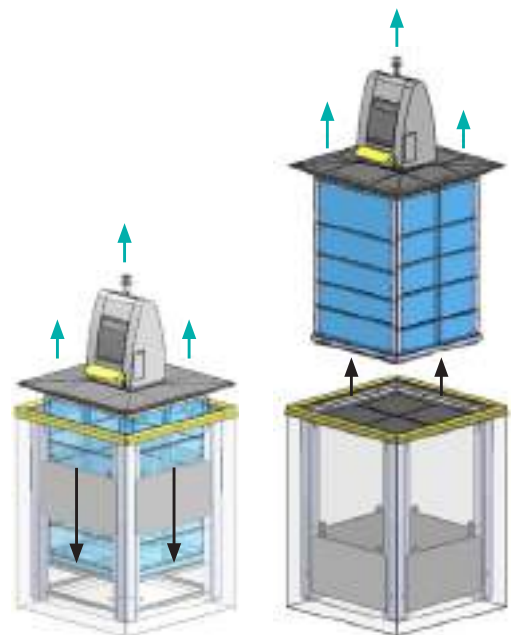
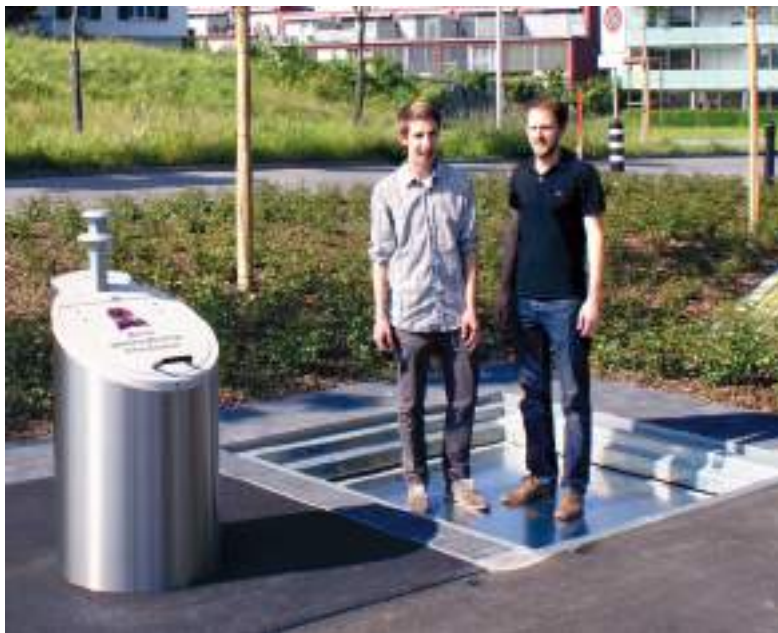
Securomat safety platform and Safety-Mat railing

As soon as the container is removed from the concrete element, this creates a pit with a depth of up to 2.60 m. We offer safety equipment to eliminate any risk when emptying the container.

Securomat CU 200 Type 15

Safety platform manufactured to EN 13071-2 standard

Safety platforms of the Securomat type protect the pit while the container is being emptied. The lift base rises automatically as the container is being removed, sealing the concrete pit.

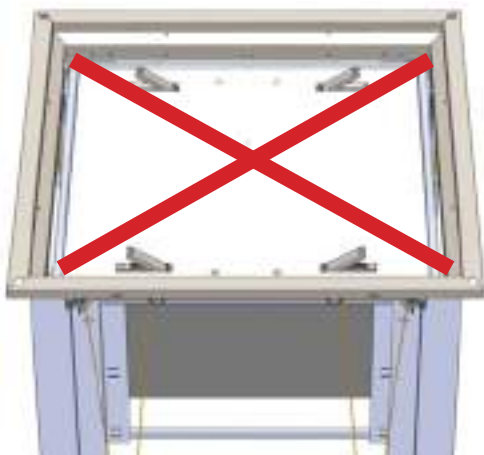


Securomat CU 200 - 4 S with locking pins

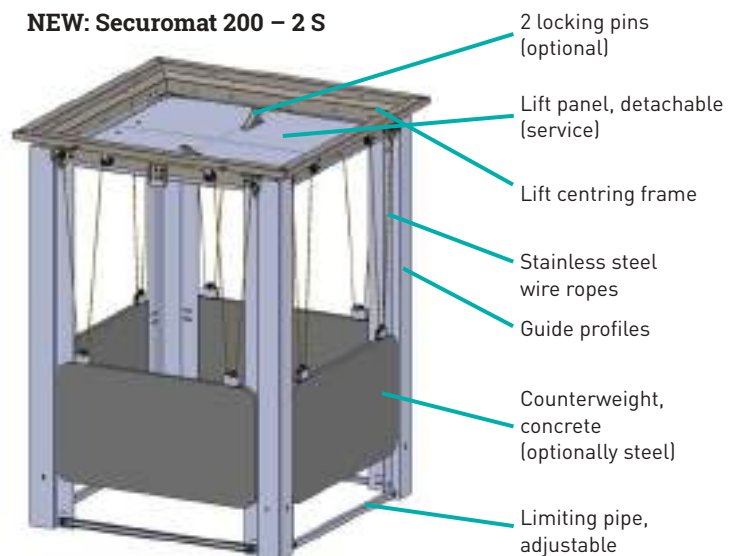
Who invented it?

More than 15 years ago Villiger was the first company to develop and market a safety platform with four additional locking pins. Unfortunately this solution was unsatisfactory, and many faults led to it being suspended after two years. Competitors have since taken over our idea anyway – with greater or lesser success.

Securomat 200 – 4 S



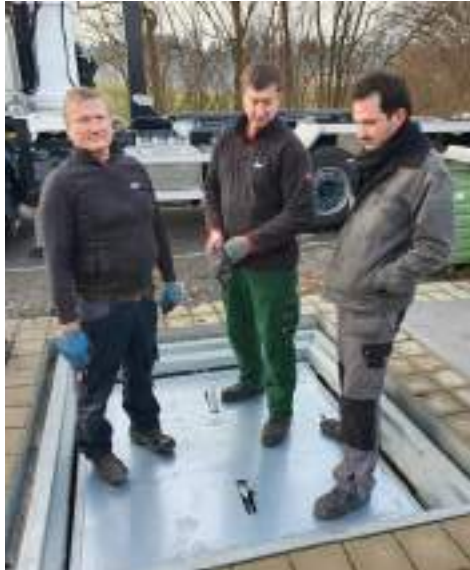
NEW: Securomat 200 – 2 S



Even greater safety

An innovation from Villiger: **Securomat CU 200 - 2 S** with locking pins

Our safety platform with four concrete counterweights is already sufficient to meet the requirements of the standard. As an option, we offer the 2 S version with two locking pins instead of the four counterweights. The advantage of having two locking pins in the middle of the lift panel is that they can be engaged and disengaged in any situation.



Load capacity up to 300 kg



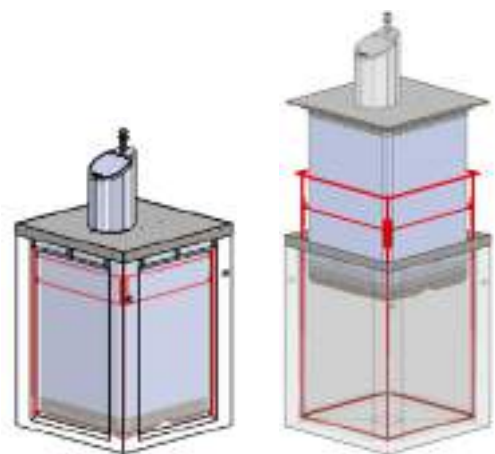
2 S locking pins

Patent pending

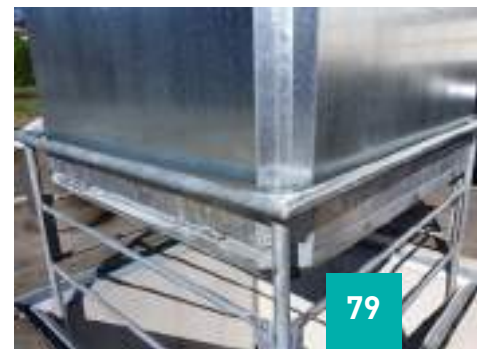
Safetymat 200

Safety railing

The safety railing is automatically moved into the safe position by means of gas pressure cylinders when the collection container is being removed from the concrete element for emptying, cleaning and maintenance. The railing meets the requirements of EN 13071-2 for underground waste collection containers and prevents anyone accidentally falling into the concrete container.



Bottom group fitted with insertion aids



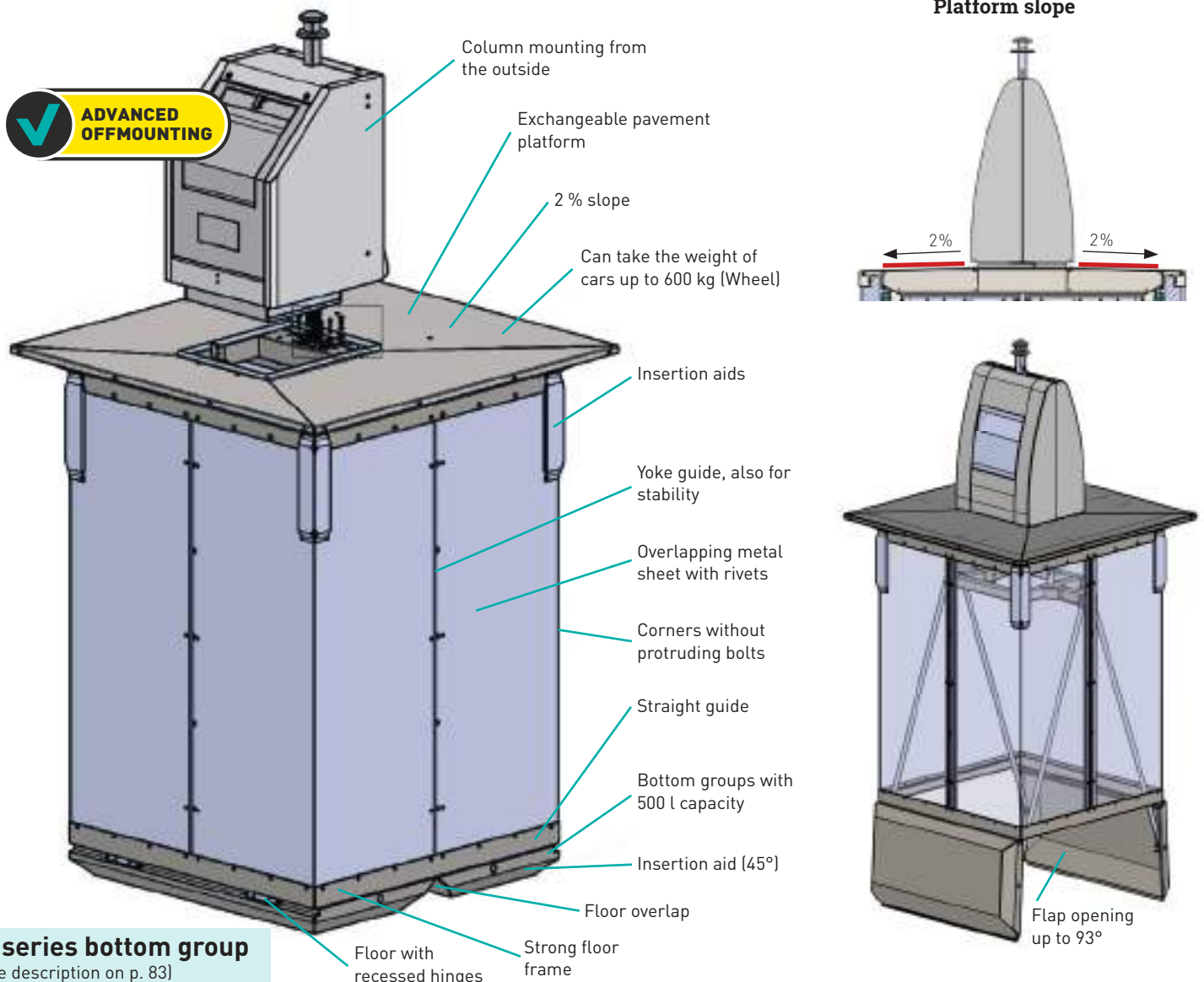
Better than ever before – 35 % more volume!

Our new collecting containers offer a further improvement in performance: the collection volume is 35 % greater than ever before from the CU 200 range.

When we developed the new generation of collecting containers in 2019, we took all that was good and made it even better. The new design put the wishes of our customers in the foreground.

- Greater collection volume with the same size of concrete element
- Faster return of the containers: bottom group and platform fitted with centring aid
- No protruding bolts on the corners projecting inwards
- Floor flaps that open wide and beyond 90°
- Half-floor flaps with overlap to prevent anything falling out in the middle
- Bottom group with liquid collection capacity of 500 l
- Outside is straight, without projecting edges
- All columns can be mounted and removed from the outside in next to no time
- Flexible platform covering (= can be fitted with different coverings), screwed on
- Platform with 2 % slope from inside to outside, preventing any accumulation of water
- Yoke linkage integrated into the platform to give more volume

The innovations are also based on these values:



Improve quality, lower costs

Developed for greater volume in compliance with EN 13071

The new generation of containers is about offering greater productivity and lower costs per container emptying operation. To achieve this, we added more volume to the collecting containers while keeping the same size of concrete element.

The safety of waste containers and their use is of paramount importance. The products meet the requirements of the EN 13071 standards for stationary waste collection containers top lifted and bottom emptied. This ensures that all safety-related aspects are considered. Various type tests have also been performed.

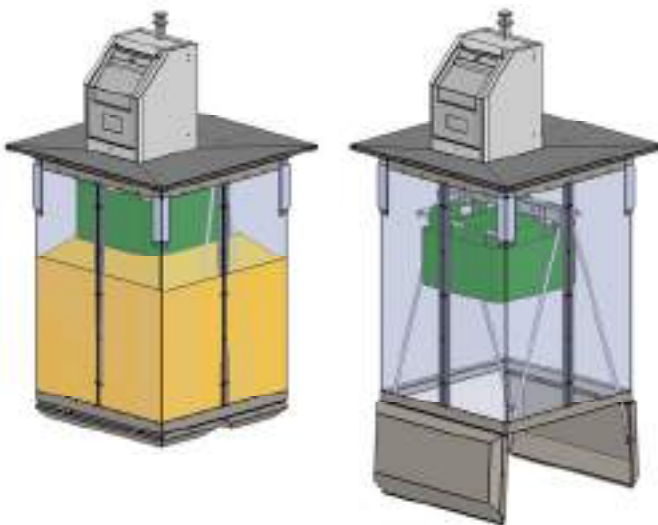
Built for more

Sophisticated solutions for greater efficiency and sustainability with significant CO₂ savings

Different volumes in one

Do you want to install the largest possible collecting container for future requirements, but need a smaller volume for the moment? We've got the right solution for you – installing a volume-limiting flap to suit your preferred volume. That means you have plenty of options for changing the volume in the future.

Volume reduction



It consists of a carrier frame and a robust tarpaulin.

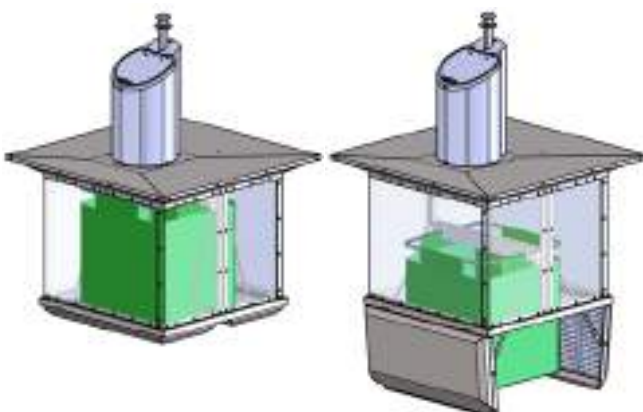
Available in sizes between 2 and 5 m³, depending on the size of container.

The benefits to you:

- You just need one size of container
- This reduces the cost of installation, purchasing, spare parts and maintenance
- Collection run optimisation: all containers are the same size, which is particularly important with automated management

Organic waste underground

Since the quantities of waste are usually small, a capacity of 1.5 m³ is sufficient. This is where a volume-limiting flap is particularly useful, because it means the organic waste does not come into contact with the zinc panel.



Organic waste:

- Small volumes possible
- Organic waste does not touch the galvanized panel.
- Galvanized steel bottom group with special paint EP 02, black, lacquered
- Bottom tray with filter screen, stainless steel
- Bottom group with collection tray

Organic waste funnel

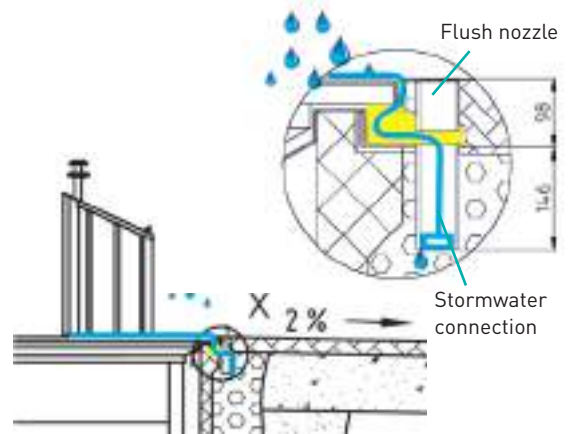


Closing frame

The closing frame separates the container platform and concrete element from the soil / road. All water on the platform runs into the closing frame. The frame is manufactured as a strong, galvanized steel structure and comes in 3 different stormwater drainage versions.

Sewer connection AS2

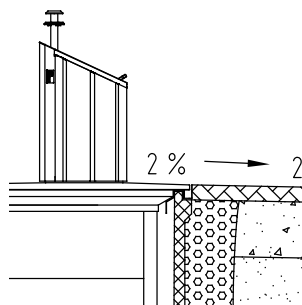
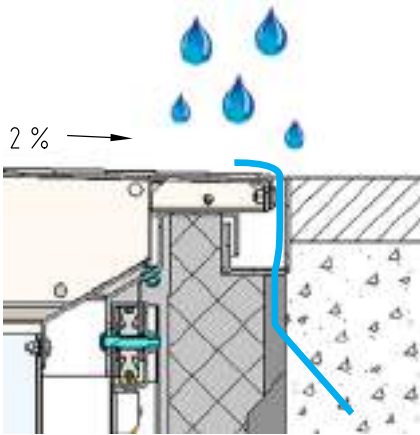
Closing frame with sewer connection can be screwed together with a flush nozzle frame.



Standard seepage water drainage

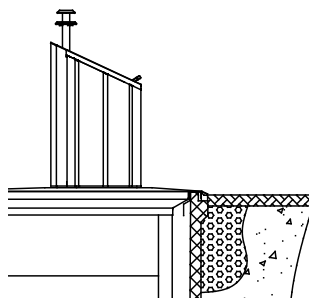
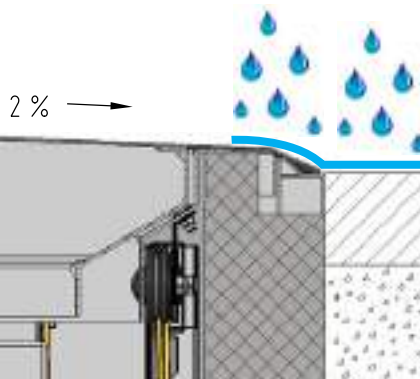
Closing frame with 12 recesses at the bottom allowing storm water to flow into the gravel base.

Frames can be screwed together.



"Village" surface drainage

All storm water on the platform flows off the surface onto the road.





Semi-sub with trapezoidal sheet metal cladding.

Semi-underground Semi-Sub

Versatile applications

The new Semi-Sub is a further development of the modular Sub-Vil system. Several identical components, for example concrete elements and containers, can be used in both programs.

Due to the raised installation, no safety platform is required. The specially designed roof, together with the side cladding made of trapezoidal sheet metal, gives a modern appearance.



Semi-sub with big bag.



Semi-sub with steel container.

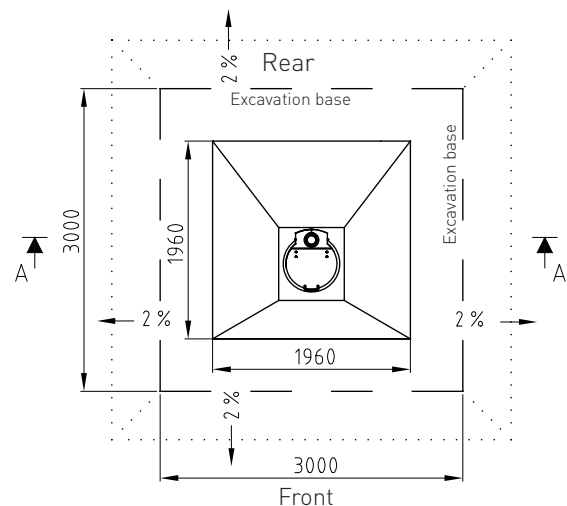
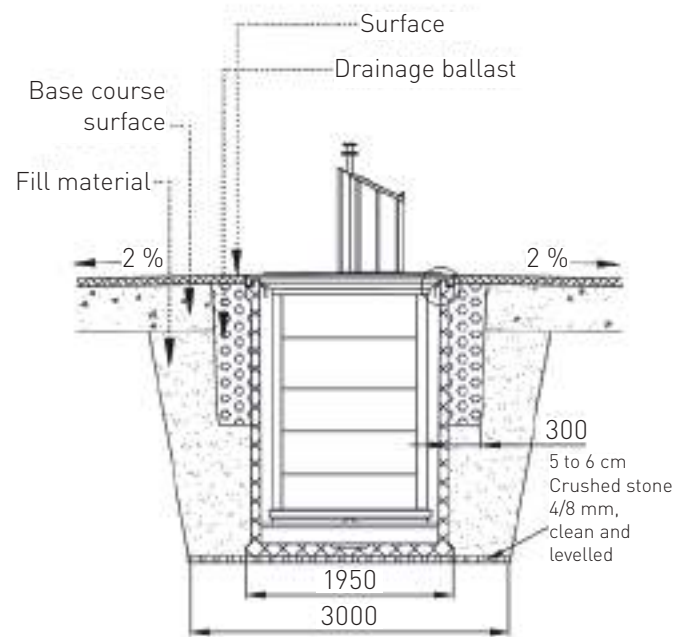
3D model of a collection point with different sizes of concrete elements and containers.



Basics of underground system installation

Civil engineering

The following installation variant is provided as an example and must be adapted to the circumstances prevailing locally. Before an underground system can be installed, a pit must be dug in accordance with the applicable safety regulations and a sufficient working space must be created. The size of the pit depends on the number of systems to be installed.



Surface

The complete underground system is located approx. 600 mm in front of a wall or building. The access route for users of the system must be at least 1000 mm wide and should not have a slope of more than 2 to 6 %.

These examples are subject to change.

More details available on request.



Site requirement for the waste collection truck

The requirements on the site of underground systems are as follows:

The site requirements must be agreed and coordinated with the landowner, local citizens, building authorities, suppliers and the contracted transporters to ensure ease of access. Unfortunately, in the past many locations had suboptimal sites giving restricted access for the waste collection truck. In many places, though, the collection points are also far away, so that only very large loading cranes can get there. These situations cause long emptying times and overhead costs.

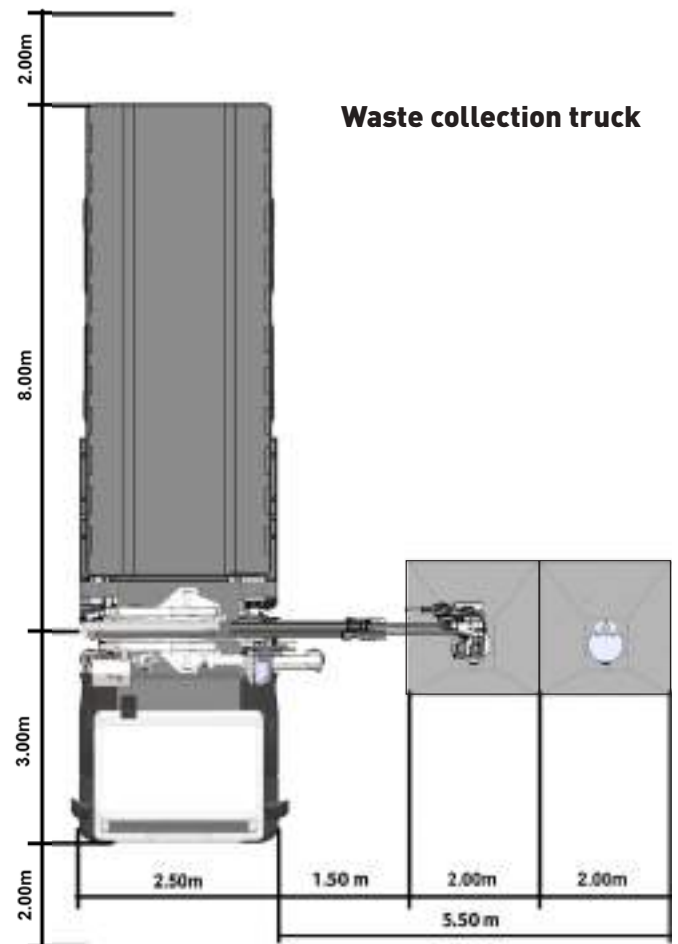
What is needed now is professional emptying with significantly lower CO₂ emissions and fuel costs.

These days, the site must be more suitable for the waste collection truck. In the age of automation and for economic reasons, more efficient emptying is essential.

As a technology leader for waste management systems, Villiger is familiar with the trends and requirements.

Villiger has for years been using automated waste collection trucks that require no more than 120 seconds for an emptying operation. For that reason the systems should be no more than 3 to 5 metres apart.

More information can be found at: www.villiger.com



The example shows an automated vehicle.



Installation – Project planning



Always near to you

No matter where you are, Villiger's trained technicians are always nearby. The best trained service technicians will take care of the installation of the disposal systems. As the manufacturer, we perfectly know our products and therefore guarantee a professional installation and commissioning.

We are the professionals

With passion, we build waste management systems of the highest quality. The same standard also applies to the delivery of our systems. Our trained technicians are equipped with the most modern tools and vehicles.





Always nearby.

A highly sophisticated concept

Speed-Waste-Lifter

Large container
volumes
(content up to 6 m³)



Think holistically

You determine how you work! We show you the decisive advantages of the Speed-Waste-Lifters concept. The heart of the Speed-Waste-Lifter is its fully automated functions and optimized processes.

There is no doubt that front container emptying has enormous advantages. All movements are shorter, faster and safer.

Today, the new underground containers have a capacity of over 6 m³ and emptying takes only a few seconds. In order to collect the waste optimally and efficiently, compactors with large capacities and fast pressing are required. Front balers, which work from front to back and not vice versa, are particularly suitable for this. This results in a better weight distribution of the vehicle. In addition, the heavy and low rear section is no longer required, which makes driving much more pleasant.



**Technology
and
innovation.**
Our ideas prevail.

Our solution for professional emptying



Revolutionary is when you can save fuel in addition to your scarce time and greatly reduce CO₂ emissions.

Villiger ICOM meets these challenges:

- A lifter system that has been developed and optimised solely for emptying containers. Unique in function, with an automation of all processes.
- An intelligent control system steers all functions precisely and automatically, either from the cab or optionally with a remote control next to the cab.
- A lifter that offers everything to assist the driver and ensures a relaxed environment.
- A mushroom pickup device for containers, which is fast and ensures maximum safety. It is gentle on the containers, as the lifting - emptying - resetting is carried out precisely, smoothly and without slamming.
- A fully automated parking of the Lifter in the shortest possible time, on both sides and without having to fold the complete system.
- A big CO₂ saving as well as a massive fuel saving due to efficient and fast emptying.
- An automatic extension and retraction of the support legs for high and safe stability.
- A parallel telescopic tower so that the underground containers can be lifted exactly vertically and without wedging out of the concrete element.
- A frontal, fast and safe container emptying without any contact with the tower.
- A limited hazard zone, as the container is emptied at the front with the boom retracted.
- A substantial cost saving on the pressing device, standard compactors can be used.
- An automatic closing of the compactors roof and immediately starting of the pressing process.
- A small overhang of the body without a deep pressing area, for a safe ride.

The system solution



This is Villiger ICOM, Intelligent Container Management

As a technology leader in waste container systems, Villiger knows the requirements and trends of the market. Based on this experience, Villiger started years ago to develop extremely efficient lift systems, which are 100 % tailored to the needs of the waste disposal industry. Today, Villiger with its full range of products is your key partner for all your waste management needs. From container to fully equipped collection vehicles.

But ICOM is more than that! It is a philosophy that takes a holistic approach:

- Speed = economic efficiency
- Safety and ease of use
- Versatility
- Ecology



Increased performance guaranteed

We have the perfect package for every need, depending on your individual requirements! The unique Speed-Waste-Lifter-System has clear advantages over conventional crane systems in container management.

Speed = economic efficiency + productivity

- The container is emptied within a very short time - resulting in an enormous cost reduction.
- Our new performance concept ensures significantly higher productivity.

Safety and ease of use

- The high level of automation and assistance systems enable convenient and safe operation.
- Safety: Greatly increased, both for the operating personnel and for other road users (pedestrians).

Versatility

- Containers from almost all manufacturers with the mushroom system are suitable for Villiger equipment.
- The carrier vehicle is versatilely applicable for different open troughs, compactor containers or the washing module.
- The high modularity allows a high vehicle utilisation.

Ecological arguments

- Much less driving is required for the same performance. The reduced CO₂ emissions are a contribution to achieving the UN climate goals.



1. Front emptying
2. Vertical stroke of tower 2,700 mm
3. Articulated arm 4.5 / 7 or 8.8 m
4. Emptying device Speed-Gripper
5. Up to 6 m³ container filling volume
6. Twin-screw compactor
7. Large 7 m³ hopper
8. Collecting compactor, 23 m³
9. Hydraulic tailgate
10. Hydraulic sliding roof
11. Hooklift (option)
12. Payload up to 10,500 kg
13. More height than others
14. More clearance / space



Various applications



Positions above the open trough can be programmed



Emptying the compactor container



The SPEED-WASHER in use

We live service!

Repair service with manufacturer competence – safe and precise

Ensure added value for your containers when you repair and overhaul the system.

Below: An underground container is washed in the mobile cleaning system.

**Service in new
dimensions.**





All residual soiling is removed with high-pressure and pre-spray cleaners.

All-round Villiger service

Our passion for waste management systems goes far beyond their construction. As a complete service provider and committed partner, we guarantee safety, availability and operation - for maximum customer satisfaction.

To the service offer

- External and internal cleaning of underground containers
- Pumping off any waste water in concrete element
- Cleaning of concrete elements and end frames
- Exterior cleaning of pavement platform
- Internal and external cleaning of throw-in column
- Function control of the entire system
- Eliminating wear-related malfunctions
- Inventory and archiving
- Function check and testing of load-bearing parts

Your benefits:

- Expertise from over 20 years of Villiger experience
- Value retention of your collection point
- Professional maintenance and cleaning thanks to trained personnel
- Waste water and removal of residual waste in the container
- Removes even aggressive waste residues thanks to our «container cleaners»
- Spare parts available from stock due to in-house production facility in Oberrüti
- Competent service team with on-call service outside opening hours

Rent Service Buy

You can rent or buy our mobile cleaning system or simply order our cleaning service.



Suctioning residual dirt such as water and leaves.



Interior cleaning of concrete with high-pressure cleaner.



Cleaning made easy:
Villiger Container Cleaner

Always up to date A second life



Before conversion (third-party product)



After conversion with a Villiger system

Retrofit of underground systems

We have many years of successful experience in retrofitting of collection points from all manufacturers to Villiger products and can professionally rebuild all systems that are no longer satisfy or operate properly due to various reasons or no service and spare parts suppliers are any more existing.

Repair? Modernise? Replace? Waste management systems have to be kept in good condition. And sometimes it makes sense to install new components. When requirements change, for instance. We replace both complete systems and individual components – quickly and promptly.

Because Villiger has its own construction department, we can modify our systems to meet the requirements of our customers. Over the last few years, for instance, we have undertaken an increasing number of conversions, where third-party systems have been removed right down to the concrete element. The Villiger system was then, where necessary, adapted to and built onto the existing concrete element.

Procedure

- The existing system is removed
- The concrete element remains (no construction work required)
- Cleaning
- The new Villiger system is installed
- Commissioning

Efficiency

meets retrofit

Before: 2-hook top (third-party product)



After, with mushroom lifting connection screwed on



Everything is possible

As versatile as the container handling equipment is. 1-hook, 2-hooks, 3-hooks, etc., they have been around for years. But we could increase your container emptying efficiency massively.

We guarantee a higher efficiency

Don't hesitate – we will convert your containers to the mushroom pickup system for better performance. Additionally, use the strengths of the Speed-Waste-Lifters to further increase efficiency.

Very simple

For Villiger products we have thought about this since the very beginning – the conversion is thus a straightforward matter. Hook out, mushroom bracket in. There is however a difference for third-party products, where the effort is somewhat larger. Nonetheless, Villiger also has a cost-effective solution for this.

We have significant experience in successful retrofitting.

Before conversion (third-party product)



After conversion with a Villiger system



Swingomat SW 200

The product breadth - tiltable platform

When it came to developing the Swingomat, the focus was put on economy as well as making use of the same components from the Sub-Vil product range, such as the CU 200 C concrete element and individual throw-in columns and containers. Just as important, however, was the breadth of possible applications and, ultimately, having a platform that can be easily opened and closed manually without the need for any electronic or hydraulic assistance.



System solution – the modular system

There from the start

In rural areas where waste is still disposed of in the traditional way by (rear-loading) garbage trucks using sacks or small wheeled containers, but where underground collection points have since been installed, the question of purchasing a suitable mushroom crane arises. It should have little in the way of equipment, but still be economically viable. That is why additional lightweight hydraulic loading cranes have been and are being installed on rear-loading garbage trucks. These are by necessity limited in terms of height, width and weight.

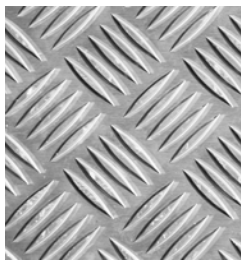
We have the solution to this problem: With the Swingomat, a Big Bag of capacity 5 m³, which is much lighter and smaller, is installed instead of a container. This means you can empty both systems on the same trip. Should the number of underground containers take on a larger scale and the collection be replaced by a special emptying vehicle, there is the possibility of all Swingomat SW 200s being converted by steel containers with a mushroom lifting connection which lifts the containers professionally.



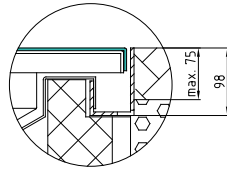


Swingomatic SW 200 C collection point with power connection for operation of the throw-in columns.

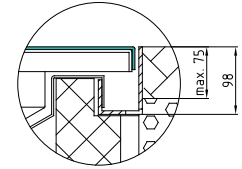
Available platform coverings



Aluminium bulb plate (5 / 7 mm)

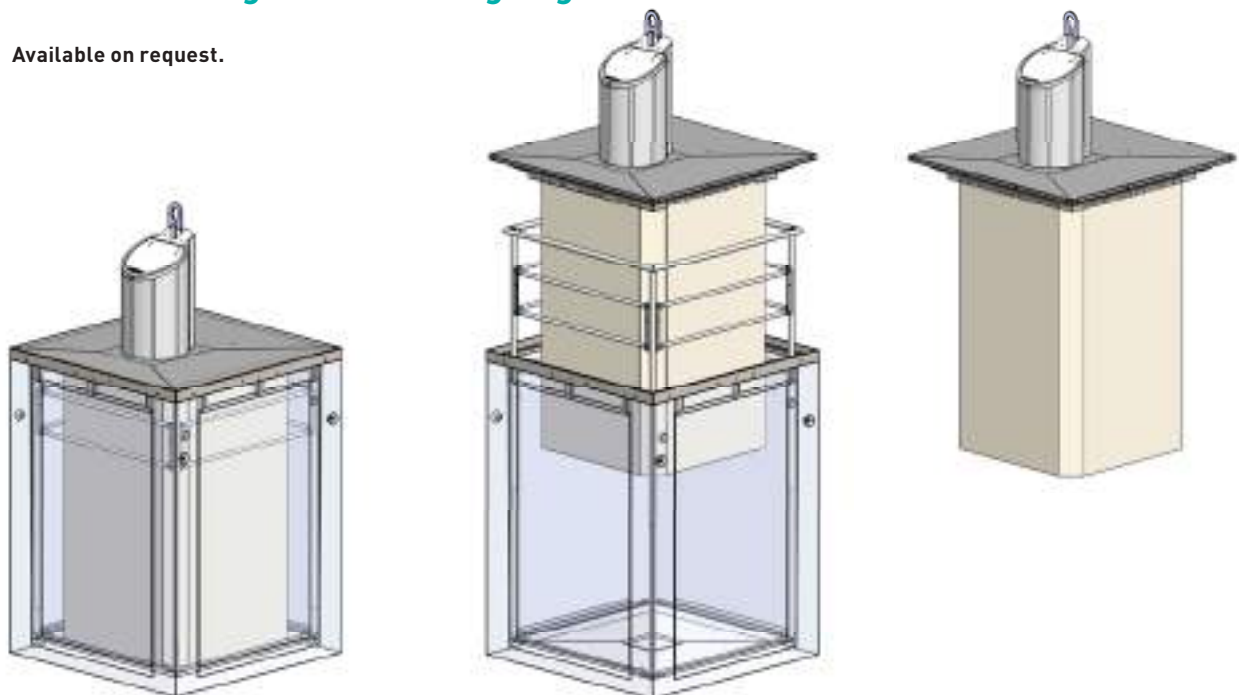


Hard covering (4 mm)

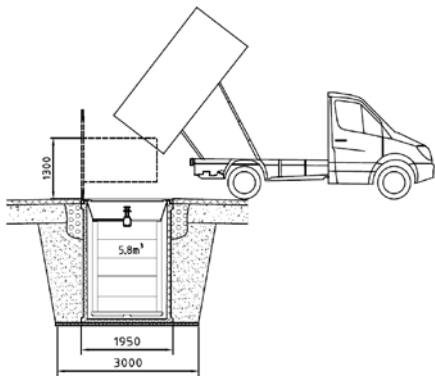


Sub-Vil underground with Big Bag

Available on request.

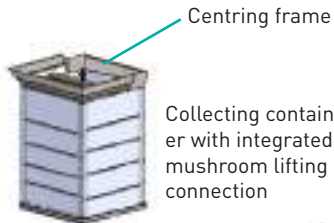


The varied product range – SW 200



Always nearby

Large quantities of waste from parks can be easily disposed of in small tipper trucks and emptied simultaneously with the underground collection run.

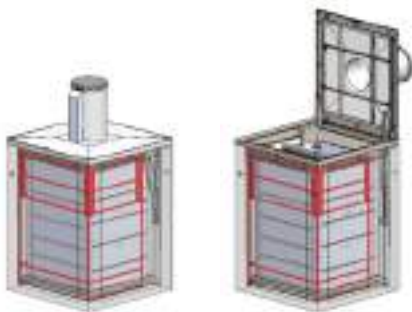


Centring frame

Collecting container with integrated mushroom lifting connection



Safetyomat with container pulled out



Safetyomat, available with steel container



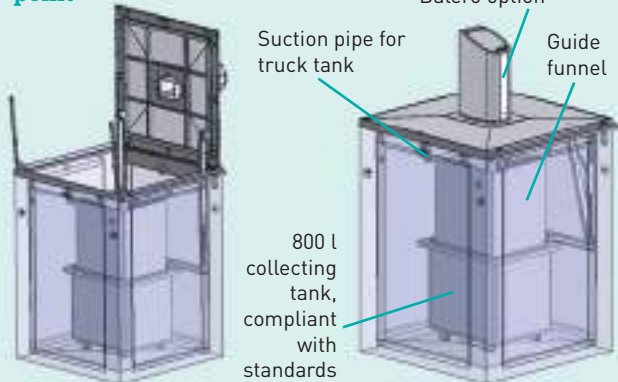
Safety railing



Lateral wind guard for unloading



Underground used oil collection point



Terrano throw-in column, Baléro option

Suction pipe for truck tank

Guide funnel

800 l collecting tank, compliant with standards

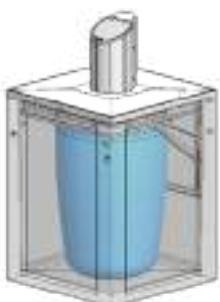
Outstanding suitability

Local authorities in some regions collect cooking and used oil at public collection points. This is where the Swingomat SW 200 really comes into its own.



Model overview of available columns

Baléro 120



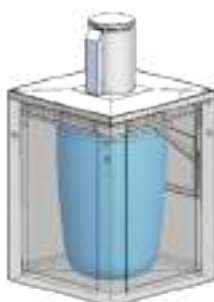
Big bag 5 m³

Baléro 180



Collecting container 5 m³

Caslano



Tilting the platform





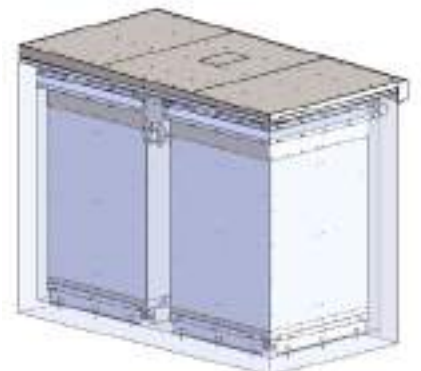
Platform with hydraulic opening and closing mechanism.

Container filled with waste.



SW 400, can take the weight of trucks (40 tons).

SW 400, with electro-hydraulics and safety railing.



Underground combination Swingomat SW 400

Always in productive use

Often the large quantities of waste that local authorities collect from parks and roads and load onto small, manoeuvrable vehicles have to be taken long distances to the disposal point. This comes at a considerable cost.

We've got a new solution to this problem.

It's the underground Swingomat system. You can install and unload the system where the waste arises, saving you both time and money.



The steel container of capacity 6 m³ is emptied by the Speed-Waste-Lifter.



Optionally also available with throw-in columns.

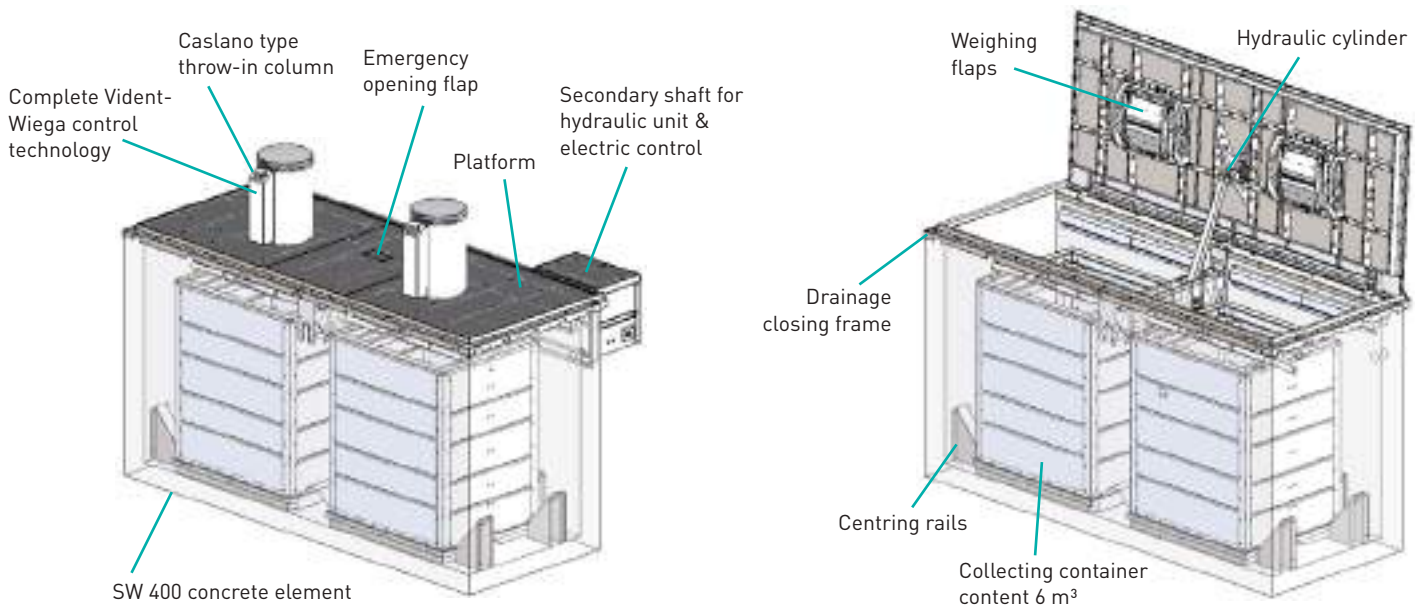


Swingomat combination collection point with Caslano weighing column for residual waste and Caslano access system for glass / PET / paper.

Networked throw-in columns

If the collection points are being used daily, you need technology that works:

- We are familiar with the requirements relating to networked collection systems
- Take advantage of the intelligent networking of Villiger products and our data management.





Vident weighing system: Caslano model

Swingomat SW 400

Vident-Wiega / Electronic access system with weighing

In some regions the "polluter pays" principle is increasingly becoming the norm when it comes to disposing of residual waste. Recording the weight also offers the polluter advantages over charging by volume.

For more than 15 years Villiger has offered a comprehensive range of throw-in columns with an access system and integrated single-sack weighing.

The Swingomat SW 400 assembly was developed specially for large collection point volumes with throw-in column weighing and power connection.

Expect more than calculating the precise weight

- Caslano throw-in column able to weigh individual bags up 130 litres in volume
- Simple, tried and tested technology
- Energy supplied via power connection / Swingomat



The throw-in can only be opened using an access card.





We invest in new,
**more
efficient
products.**

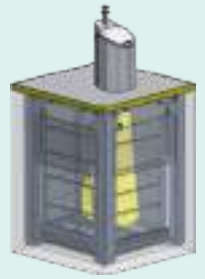
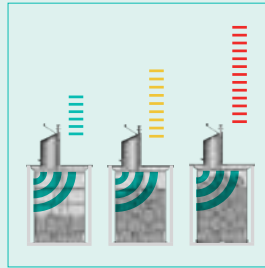
Networked devices: Our product range

We think that you can get more than ever before from your waste management systems. Intelligence is the main key to greater efficiency. Villiger offers a variety of modules that you can combine whichever way best suits your needs.

Vident-Fill: Fill-level sensors

Always well informed

Wireless fill-level sensors constantly and reliably transmit the fill level of the container and a lot of additional data to the internet-based web platform. The collection runs are created automatically on the basis of the forecasts. The web-based solution offers interfaces for the easy integration of your data into the existing IT infrastructure, allowing you to save considerable running costs.



Vident-Wiega: Electronic access system with weighing

Every gram counts!

Use the intelligent Vident weighing technology on the throw-in columns and its reliability by only being charged for the waste you put in. The weighing column has everything needed for weighing single sacks.

1 Vilaro weighing column with card scanner and solar cells with integrated mushr. connection for UG applications (CU 258 series).

2 Caslano weighing column with card scanner and a fixed power connection. Mounted on Swingomat and Quadromat.



1



2

Vident-Basic: Electronic access system

The Vident-Basic access system offers a solution for controlling access and recording the data from collecting containers. A sophisticated battery concept and low energy enable us to identify users and manage data over the long term. Users can optionally be informed via a display.

1 Installed electronics for above-ground container, SMART-Line

2 Electric access system for underground containers



1



2

Vident-Colour: Sack detection system

The Vident-Colour throw-in column is a refuse sack detection column linked to an access system and a colour-detection camera with integrated solar cell.

- a) It detects the size of the sacks (30 / 60 / 110 litres) and calculates the corresponding cost.
- b) Invalid chargeable sacks thrown in incorrectly are recorded and reported to an allocated point.

Data management: Data management gives you fast, optimum benefits for further accounting and for additional organisational and technical waste disposal measures.

[Ask for our detailed information.](#)







Cupola semi-underground system

Well rounded

With our Cupola system, you can respond optimally to seasonal variations in waste volumes thanks to the variable sizes of the collection containers. The great flexibility of the system also allows you to change from steel containers to Big Bags and vice versa at any time.

Its robust construction and timeless design mean the Cupola system can be used in any location. Our customers from mountain and winter sports regions in particular value the fact that the system can be used even when there is a lot of snow and that the modular container volumes can be adjusted to the extreme fluctuations in utilisation.



Cupola

Efficient and economical

System overview: Cupola

For the cupola system are from 4 m³ to 5 m³ steel container or from 3 m³ to 5 m³ Big-Bags available. For the glass collection is an extra strong Big-Bag available.



Concrete element

- 4 m³, 5 m³ or 6 m³
- 100 % watertight
- Monolith cast
- Reinforced concrete
- End washed concrete or wood shell

+



Container/Big Bag

- With cupola lid
- Emptying systems
- 1 hook
- 2 hooks
- Mushroom

=



Cupola

Standard system

System overview: Cupola Swing

Because of the container of a Cupola Swing System is significant lighter as a standard cupola system, the container or Big-Bag can be easily emptied by a crane or a rear end loader. The pivoting range of the crane is unaffected.

After unlocking the lid, the lid can be easily opened with a spring pile. The locking of the lid is also possible without any great effort. The closing of the lid is also possible without great effort.



Concrete element
4 m³, 5 m³ or 6 m³

+



Container / Big Bag
1 hook or mushroom

=



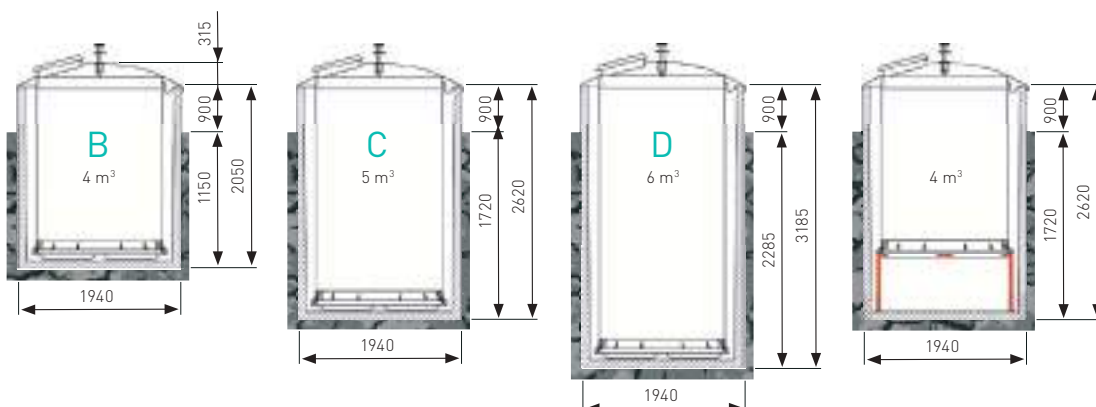
Cupola Swing System

Concrete element and digging

The concrete element is manufactured by Villiger. It is produced with a high quality standard and waterproof.

Concrete elements:

Model B	2050 mm height	Ø 1940 mm	for 4 m ³ container	3.5 t weight
Model C	2620 mm height	Ø 1940 mm	for 5 m ³ container	4.2 t weight
Model D	3185 mm height	Ø 1940 mm	for 6 m ³ container	5.2 t weight

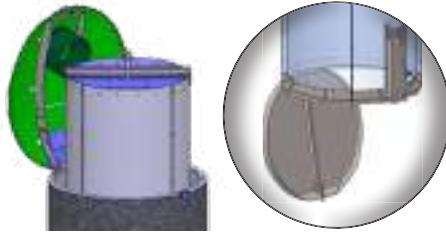


Available on request.

Modular system

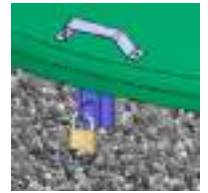
Round steel container

1-Hook or Mushroom, 4 m³, 5 m³ or 6 m³, shell bottom



Lid lock

Can be locked with a commercial pad-lock.



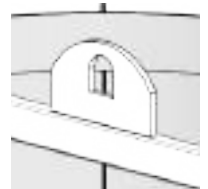
Big Bag

1-hook lifting, 3 m³ or 5 m³ polypropylene



1 hook

Simple system for tray bottom emptying (manual).

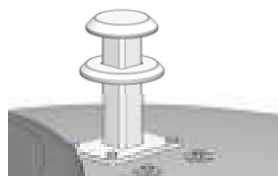


Emptying

The sack is opened with a rip cord.

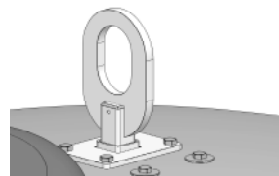
Emptying system

We can offer you two different solutions for mushroom systems. The standard product is a fixe mushroom rod or we can provide you a telescope mushroom rod, which protrude less deeply into the container, solves the conflict between the container and the garbage content.



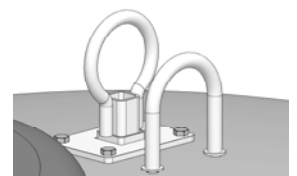
Mushroom

System for mechanical halfshell bottom emptying



1-Hook

Simple system for shell bottom emptying (manually)



2-Hook

System for mechanical halfshell bottom emptying

Container and Big-Bag with steel roof

Steel container halfshell bottom

- Mushroom or 2-hook emptying system
- 4 m³ or 5 m³



Steel container shell bottom

- 1-hook emptying system
- Shell bottom
- 4 m³ or 5 m³



Lid with double and drum throw-in



Cupola lid with two throw-ins



Drum throw-in closed



Drum throw-in open





Maintenance contracts



Training for all levels of knowledge

Villiger maintenance contracts and technical training protect your investment. A user manual ensures that your team is able to take full advantage of all the features and benefits of your equipment.

If your needs change, Villiger can supply retrofit and conversion equipment to bring your station back to life.



We are the professionals.



Tailored to your needs

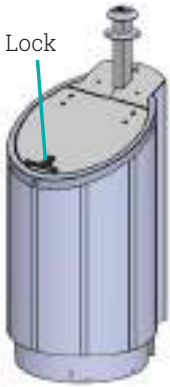
Qualified staff can be integrated in a variety of service packages in order to maximize the benefits for your business. You can obtain a quote tailored to your needs from your sales partner or directly from us.



DIN 13071 standards

Throw-in columns with direct throw-in, \varnothing greater than 200 mm and fill height deeper than 900 mm. This conforms to standards.

Locking systems



Glass throw-in
 \varnothing 200 mm



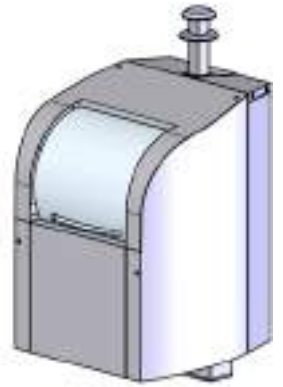
Glass throw-in
 \varnothing 200 mm panel



Lugano
double drum

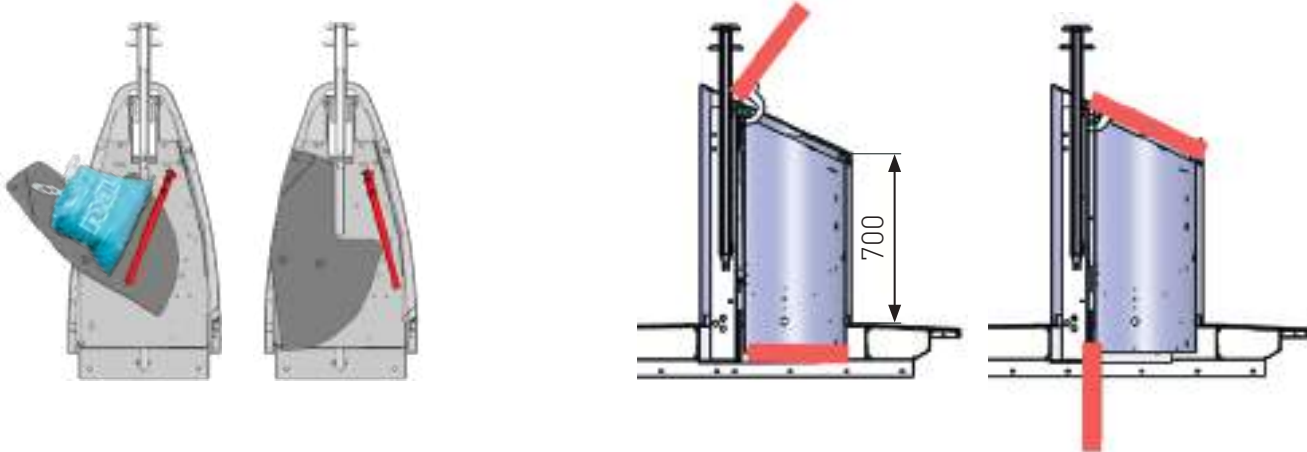


Marino
double drum

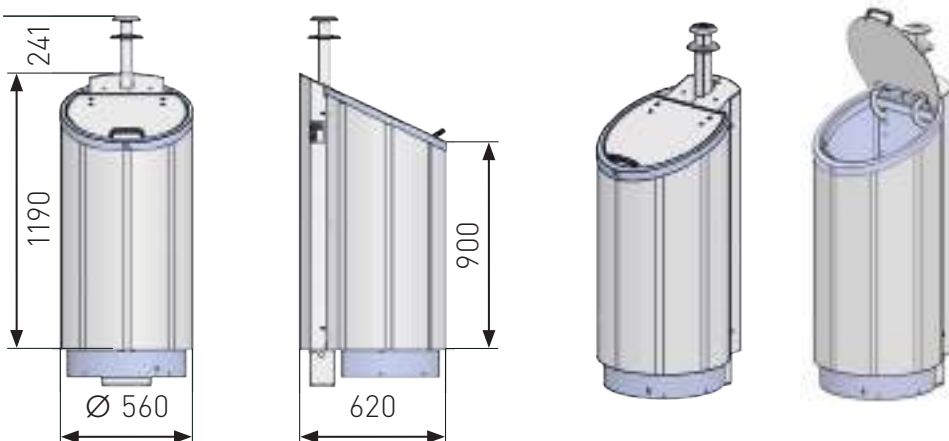


Throw-in column with flaps and volume limiting:

When the access flap is opened, a sight limiting flap closes to prevent sight of the containers. Easy function.



Throw-in column with direct throw-in and a throw-in height from 900 mm in compliance with DIN standards.



Details subject to change.

The time is ripe for efficient emptying

There is a wide range of lifting options.

Below is a list of the most common variants of the lifting connections:

- a) Mushroom b) 1 hook c) 2 hooks d) 3 hooks e) Grumbach

Since all our products, particularly the throw-in columns, have been manufactured in the modular system, we are able to easily integrate all the lifting connections listed above. Current trends and standardisations suggest that the mushroom lifting connection will become the norm. Reasons for this is the wish for faster, cheaper and automated emptying.

Not every device is the same

There are a few hydraulic lifting devices for standard loading cranes offering a wide range of load capacities. However, these days universal solutions are wanted.

Reap the benefits of high cost effectiveness!



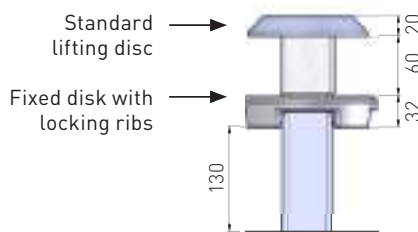
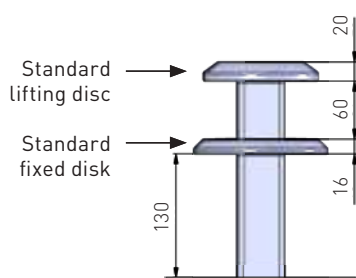
Speed-Gripper

Safe and efficient gripping of containers with mushroom lifting connections

The Speed-Gripper emptying device allows a mushroom lifting connection on all standard recycling materials containers with a total weight of up to 3 t to be gripped. Controlled gripping ensures optimal power transmission and makes it possible to orient the container, giving you the ideal combination of safety and efficiency.

The emptying device is configured with a hydraulic rotary feedthrough block and a rotary motor. A patented clamping device for safe and precise manoeuvring of the container is also integrated. The container floor is opened and closed by means of a hydraulic lever mechanism, guaranteeing a rapid response.

The mushroom emptying system





Sustainability

FOR PEOPLE & THE ENVIRONMENT



Hands-free waste disposal

Following the coronavirus outbreak, society has become more aware than ever before of the importance of ensuring hygiene. Villiger has responded by refining its products with the introduction of foot pedals so that it is no longer necessary to touch systems with the hands in order to dispose of waste.

Recyclable input material
> 95%



Containers from sustainable manufacturing

All Villiger products are made from recyclable materials, the majority just from steel. The modular design ensures that resources are used responsibly, paving the way for significant reductions in transport.

↓ CO₂

The **Quadromat disposal system** allows up to 20 m³ of compacted waste - equivalent to more than 100 traditional wheeled containers - to be collected in a single system. Waste collection trips can be reduced by over 25% per Quadromat system.

Zinc recovery

Villiger's modular, screw-on systems enable the recovery of zinc. It is obtained from the galvanized steel used for individual parts, increasing the value of the scrap metal.

> 25%

fewer transports thanks to sustainable waste development solutions

Waste disposal for all

Everyone should have access to waste disposal facilities. That's why all Villiger products are wheelchair-friendly, ensuring access even to people with limited mobility. But Villiger also gives thought to other physical impairments such as limited vision, which is why its products can be inscribed with Braille on request.



Sustainable products & services

When bringing out new product innovations, Villiger pursues the aim of delivering sustainable solutions. That is why Villiger makes sure it uses recyclable raw materials in the production process and protects the environment by designing its products to be long-lasting.



Staff development

The wellbeing of our employees is very close to our hearts and forms the basis for the innovative and sustainable future of the Villiger Group. We attach great importance to providing a rich learning environment for young talent and to the development of our employees. Just as each and every one of us is unique, so we polish every rough diamond.

Apprenticeships completed each year since

1991

Rough diamonds

We are proud that many of our long-serving staff were former apprentices of ours. In every single one of them we see a rough diamond who can unleash their full potential through individual support and encouragement. That's why Villiger welcomes continuous professional development and employs many part-time staff.

But Villiger values experience, too: as an employer, we certainly appreciate the experience of our staff in the "50 plus" age group. Employees with many years of know-how and the corresponding networks, particularly skilled workers and managerial staff, are increasingly being seen as an important target group. They are disciplined and exhibit enormous dedication and commitment to their work.

We also encourage young talent, provide training with a practical focus and prepare them optimally for their future in the industry. Villiger offers up to six new apprenticeships a year in the following trades:

- Merchant (Federal VET Diploma)
- Designer (Federal VET Diploma)
- Plant and apparatus engineer (Federal VET Diploma)
- Production mechanic (Federal VET Diploma)



Ideas management

The opinions of our staff are very important to us. Villiger considers the ideas and suggestions for improvement brought by all our rough diamonds and values their initiative.

Responsible supply chain

Villiger urges all suppliers to produce in the most sustainable way possible. Manufacturers of the precast concrete parts, for instance, obtain sand and gravel from certified gravel pits or from properly managed quarries in the surrounding region.



Source: SZS Stahlbau Zentrum Schweiz (online)

Responsibility

Eco-steel is a sustainable raw material. It is made by recycling the scrap produced by our consumer society, requires 70% less energy for its manufacture and emits 85% less CO₂ than primary steel.



Safety comes first!

The Villiger Group complies with the protective provisions for the workforce set out in the ISO 45001 standard. However, this also applies for the use of our products, so we give the utmost consideration to safety aspects in our development processes.



Ecology

Villiger has set itself the goal of delivering massive reductions in CO₂ emissions, whether by avoiding non-recyclable materials in production and in transport or in the use of our solutions by the customer.



Social commitment

The Villiger Group also sees a responsibility towards society. That's why the fundamental values of ethical behaviour are anchored in the Code of Conduct. Furthermore, we are committed to social integration projects.

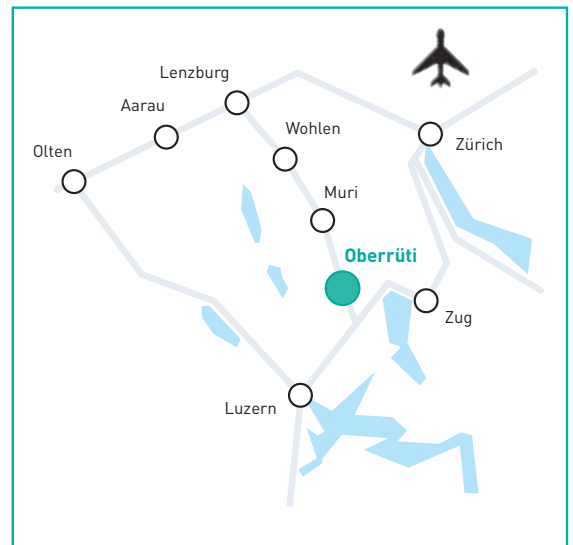
Why Villiger?

Because we offer waste management systems with a customer perspective in mind. Villiger develops and produces optimal systems, not only for our customers but alongside them. For us, every order is a personal matter.

Because, via our comprehensive service and with Swiss values, we are advancing the waste management industry. Villiger stands for reliability, flexibility and a great innovative power.

Because we pride ourselves on a commitment to support the youth. After all, a well educated and trained youth is our future! For many years now, classes of trainees have been an important part of our company. To enhance their learning, we strive to make Villiger an interesting, challenging and supportive employer. We truly believe in motivating the next generation to be top performers.

Because we have a large network of experienced and competent distribution partner, which are present in many different countries. This creates a win-win situation for everyone involved.



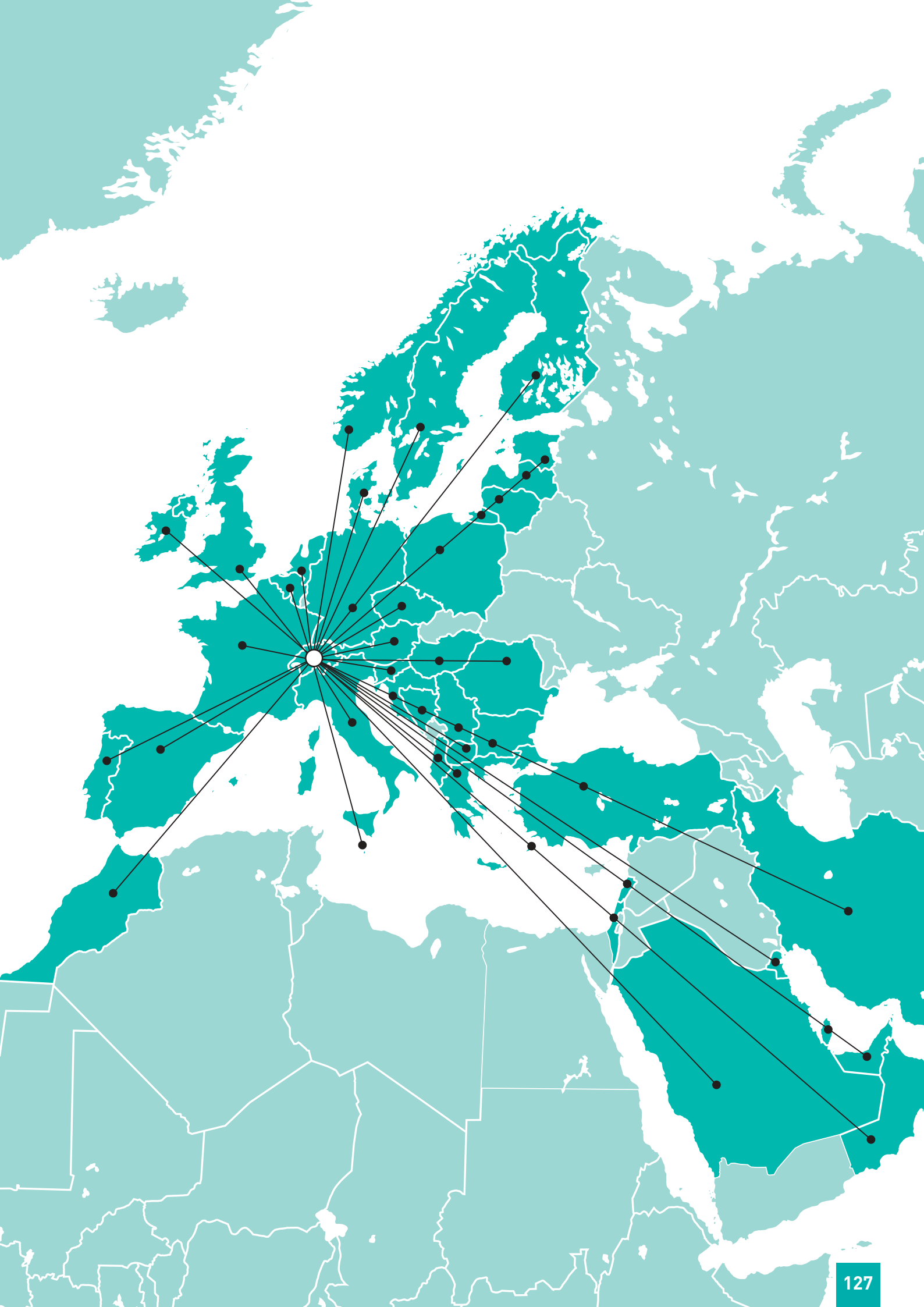
ISO 9001:2015 Quality Management System



ISO 14001:2015 Environmental Management System



ISO 45001:2018 Occupational Health and Safety Management System





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