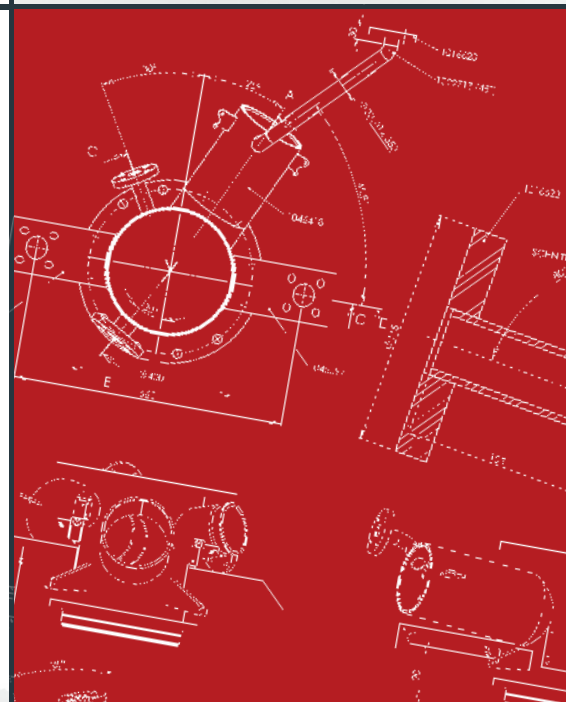
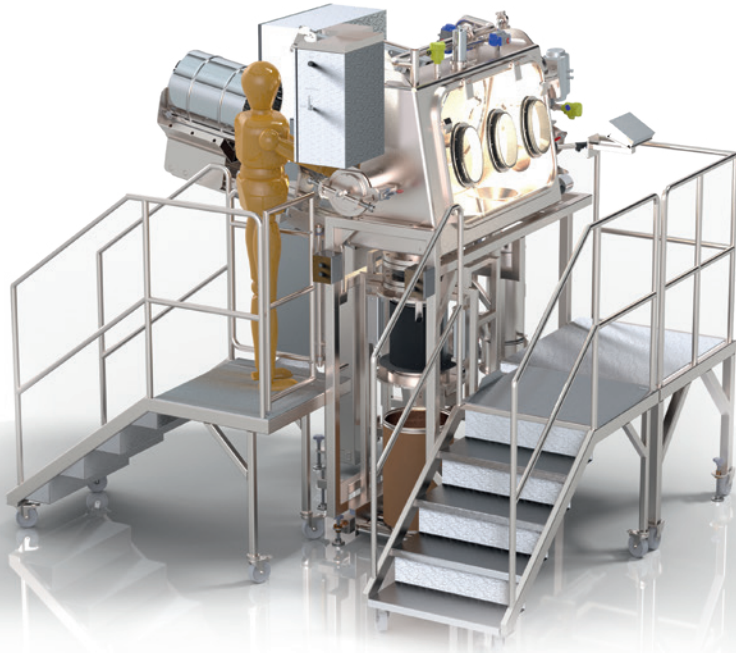


rubitec ag

chemical-pharmaceutical-equipment



**SWISS MADE CHEMICAL &
PHARMACEUTICAL QUALITY EQUIPMENT**
Specialised in containment systems



Managing directors Basil, Aaron and Jonas Rubitschung with business founder Christoph Rubitschung

SUCCESS THROUGH TRADITION AND INNOVATION

rubitec ag was founded in 1988 by Christoph Rubitschung. In 1995, the development, design and manufacture of sophisticated products for the chemical-pharmaceutical industry was started, which are still used to the satisfaction of our customers worldwide. Since 2020, his three sons Basil, Aaron and Jonas Rubitschung successfully manage the company, which is supported by a dynamic and highly experienced team, in the second generation.

rubitec ag is thus a solid, well-positioned family business that focuses on its customers and knows how to position and assert itself excellently in the market with high-quality products. In particular, the SmartDock developed and patented

by us, which is very suitable for containment systems such as BigBag and drum filling and emptying systems. It meets the strictest guidelines and makes us the market leader in this field.

The requirements for our products are just as complex as the areas in which they are used. Our motivated team of around 30 employees bundles generations of experience and implements customer-specific orders on a daily basis with commitment, innovative spirit and expert know-how. In combination with optimal production conditions and a strong partner network, we can respond quickly, flexibly and reliably to changing customer needs.

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SUPPORTING YOUR SUCCESS

Our portfolio at a glance:

Customised Systems

- Lifting, tilting and swivelling columns
- Filling and emptying stations for IBCs and FIBCs (BigBags)
- Containment systems for:
 - BigBag filling and emptying stations
 - Drum filling and emptying stations
 - Bag emptying stations
 - Drum emptying stations for liquids
 - R-PTS
- Sieve mills VaruMill
- Drum and container mixers
- Drum and BigBag squeezer

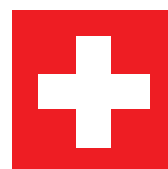


Innovative design concepts

Customer-specific in the field of powder

Technical expertise and many years of experience enable us to manufacture turnkey solutions that are tailored to every requirement down to the last detail.

Specialised in the development, design and manufacture of sophisticated products for the international pharmaceutical and chemical industry, our work focuses on our customers and their company-specific requirements. We are also committed to the realisation of the most unusual requirements. It is this full-service package from a single source and our comprehensive advice from the start of the planning phase through development to delivery, installation, IQ, OQ, SAT and staff training that our customers appreciate. That is why our products are used all over the world and not only convince with their outstanding “Made in Swiss” quality, but also ensure our competitiveness.



SWISS MADE

CUSTOMISED CONTAINMENT SOLUTIONS FROM OEB 1 TO OEB 6

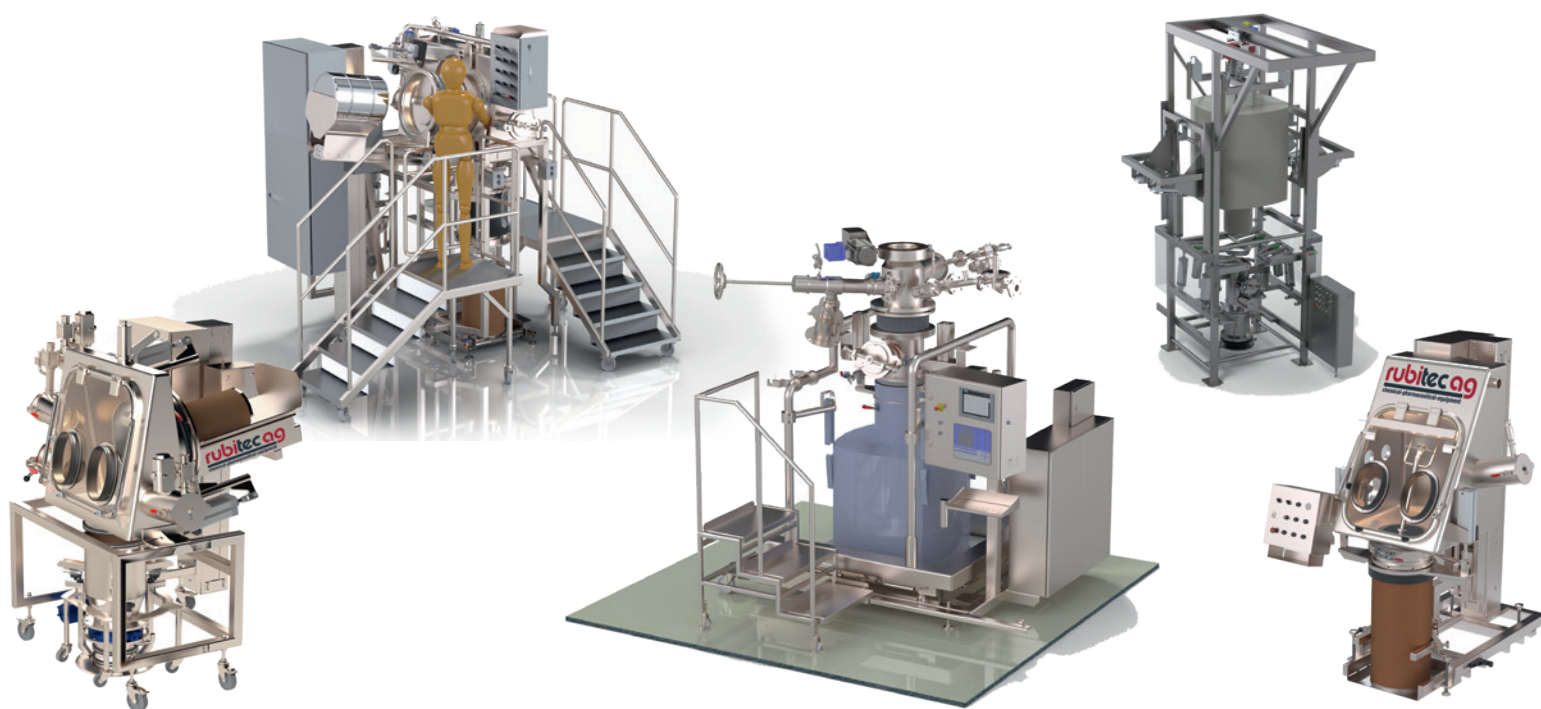
Versatile and complex customer requirements demand intelligent design concepts. We specialise in the design and manufacture of customised containment systems for the pharmaceutical and chemical industries and realise applications from OEB 3 (10-100µg) to OEB 6 (<0.1 µg). Are you looking for an optimal containment solution? Our answer is: Reliability, customised functionality and innovative operability. Since 2013, we have made a name for ourselves with our containment solutions. The patented SmartDock system developed by us, which is suitable for containment installations, meets the strictest guidelines. This makes us the market leader in this area.

Containment solutions

- BigBag filling and emptying stations (SmartDock)
- Drum filling stations (endless liner/single bag)
- Drum and bag emptying stations (SmartDock GloveBox)
- Drum emptying stations for liquids (R-DC Fluid)
- R-PTS (Pneumatic Transfer System)

Your advantages at a glance

1. Simplest one-person operation!
2. Docking and undocking in less than 5 min.
3. Meets OEB Level 5
4. Also works perfectly with aluminium-coated liners
5. No parts that could fall into the product
6. No wearing parts that could reduce the tightness
7. No inclosed disposable parts (lost parts)
8. Very robust construction
9. Almost maintenance-free!
10. Options:
 - Leak tests
 - Inertisation
 - Oxygen measurements
- 11 Integrated exhaust air filter H13/ H14 for contamination-free filter change (Push filter)
12. WIP/CIP nozzles
13. WIP/CIP cleaning without containment interruption



FILLING AND EMPTYING STATIONS WITH OUR SUCCESSFUL SMARTDOCK ADVANCED

For a long time, the low-dust filling and emptying of BigBags and drums was only possible with major compromises, such as complicated docking and undocking procedures, some of which could hardly be carried out by a single person.

Containment docking system SmartDock Advanced from rubitec ag

The company specialises in the design and manufacture of customised systems for applications in pharmaceutical and chemical production. The low-dust containment solution for

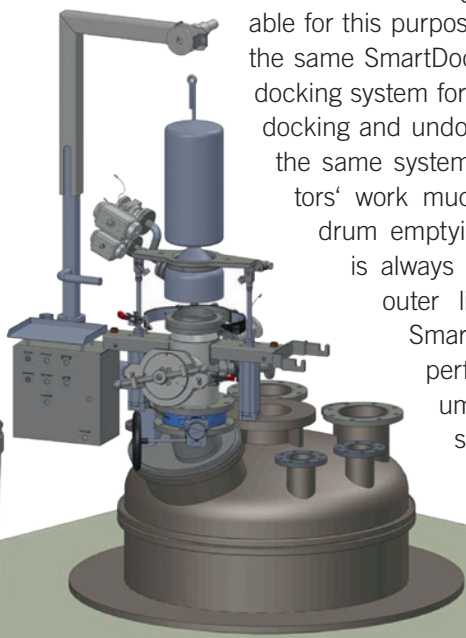
BigBag and drum filling and emptying systems from rubitec ag is particularly suitable for this purpose. Rubitec AG uses the same SmartDock docking and undocking system for BigBags and drum docking and undocking: always using the same system makes the operators' work much easier. With the drum emptying station, docking is always carried out via the outer liner in the drum. SmartDock also works perfectly with aluminium-coated foils. The system is also avail-

able in smaller diameters, e.g. for transfer bags or MiniBags. Cleaning of the entire system is easily possible without breaking the containment, even in BigBag filling, where the film cap is the lowest-lying part during operation.

Technical expertise and many years of experience enable us to manufacture turnkey solutions that are tailored to every requirement down to the last detail.

Based on our know-how, we have a wide range of systems that are equipped with simple pneumatic controls or systems that are equipped with integrated PLCs with signal exchange and communication to the customer's DCS. We use the patented SmartDock containment system for BigBag filling and emptying systems as well as for drum filling and emptying systems and also for combined systems for drums and BigBags. We manufacture filling systems with integrated scales and dosing flaps. Here, the exhaust air is filtered via a Push-Push filter in H13 or H14 quality.

In cooperation with the customer, the optimal system to be used is created. This can include a leak test, inertisation with oxygen measurement, evacuation of the empty container, an integration of our sieve mill, chopper, squeezer, WIP/CIP and many other options. All our systems are also available in ATEX.



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Wir sind weltweit führend in Sicherheit und Schutz in Explosions-/Gefahrenzonen und wir streben in all unseren Aktivitäten nach Exzellenz. Wir wissen, was unsere Kunden brauchen und wir liefern kontinuierlich leistungsorientierten Service. Neben fortschrittlichster Technologien bieten wir eine große Vielfalt an Produkten und Lösungen in allerbesten Qualität an.

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BIGBAG (FIBC) FILLING

In the case of BigBag filling or also loading, a distinction is made as to whether or not dosing and scales are required. The rubitec ag dosing head is decoupled from the BigBag frame and the docking head (SmartDock) so that weighing can be as accurate as possible.

This means that a purely pneumatic control system can also be used for BigBag filling. As soon as a dosage is needed, we use a PLC. The weighing system can be used depending on the customer's requirements. It is also possible to combine BigBag filling with drum filling.

The following options are available for BigBag filling:

- Leak test
- Inertisation (pressure change)
- Dosing by means of Siemens Siwarex, Mettler or Bizerba
- Vibrator
- Push-Push filter
- WIP/CIP
- Integrated sieve mill
- Communication to the customer's DCS
- Police filter H14
- Sampling manual or semi-automatic
- ATEX up to zone 1/21
- OEB 1-6

Combined BigBag / drum filling with sieve mill (grater) dosing flap and scale



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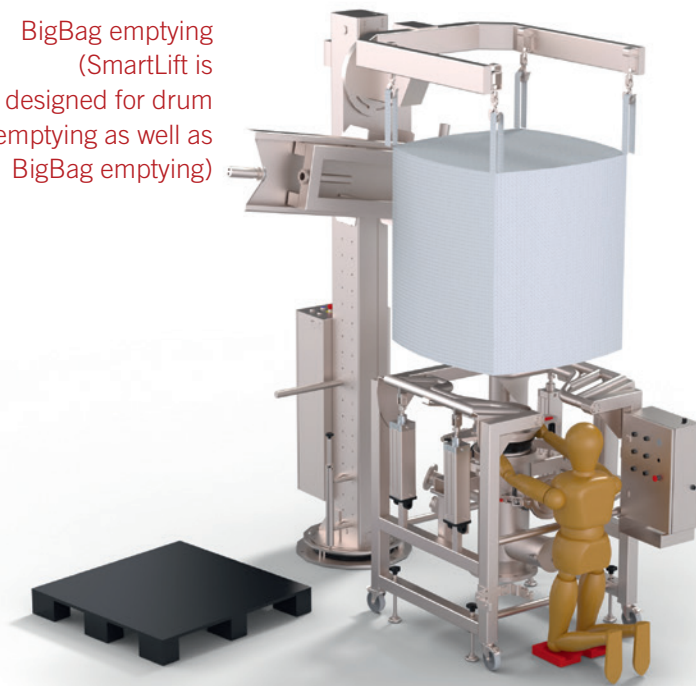
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BigBag emptying
(SmartLift is
designed for drum
emptying as well as
BigBag emptying)



BigBag emptying
station



BIGBAG EMPTYING

Like all other systems, the BigBag emptying systems are also customised, so this can vary depending on the room height and the equipment already available. If there is sufficient room height (approx. 6 m or more), the crane rail can be integrated in the BigBag frame if it is not available on site. If the room height is lower, a mobile or stationary SmartLift from rubitec ag is often used, which has a BigBag lifting fork. In this way, the lost height of a crane can be compensated. There is also the possibility of attaching a second set of straps to the Big-Bag, so it can be suspended in the middle to save further height. For very low rooms, the SmartDock can also be adapted so that the operator kneels on the floor: As the docking and undocking sequence only takes 3 min., this is also a justifiable solution.

The BigBag emptying systems are often equipped with a roller table, as working under load is not permitted for safety reasons. In addition, the BigBag can be massaged by means of a walk table and optionally vibrated by vibrators so that the powder flows better out of the BigBag. If it is discharged directly into the container via a downpipe, but the product is lumpy or the BigBag is a block, it can be squeezed by a separate BigBag squeezer or a BigBag squeezer that is integrated in the emptying station. If the product is transferred by means of R-PTS (rubitec pneumatic transfer system), we recommend the use of a rubitec ag sieve mill to ensure that the product flows well.

Various options are available for BigBag emptying:

- Electric or pneumatic crane
- Electric or pneumatic control
- Walk tables with or without additional pusher, vibrators
- BigBag squeezer integrated in the frame
- Weigh cells
- VaruMill sieve mill or lump breaker
- Lifting column via a mobile or stationary SmartLift
- WIP/CIP
- Push-Push Filter H13 or H14
- Police filter H14
- Evacuation of the empty BigBags (disposal)
- Inertisation
- Communication to the customer's DCS
- ATEX up to zone 1/21
- OEB 1-6

CONTAINMENT DRUM EMPTYING FOR SOLIDS WITH R-DC-BOX AND/OR WITH R-PTS

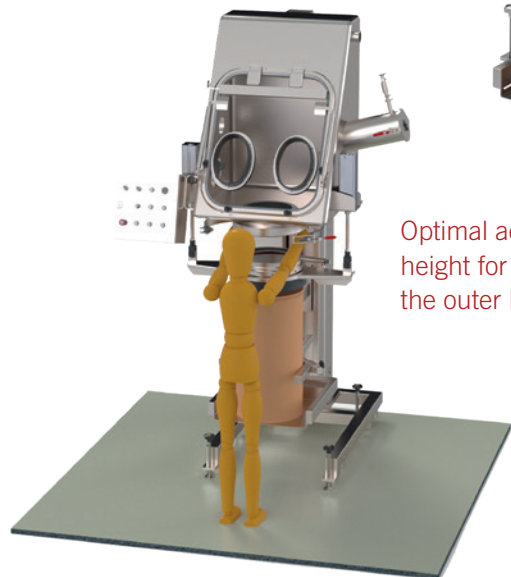
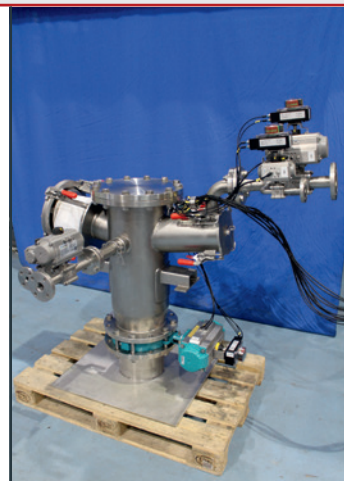
The R-DC Box is a drum emptying system for docking and undocking drums under containment: the drums are sucked empty via an R-PTS (Rubitec-Powder Transfer System) with the aid of a suction lance.

The advantages of the R-DC box:

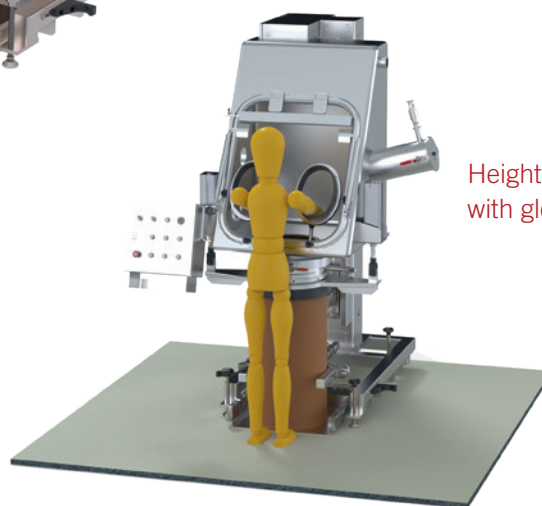
- Improved ergonomics due to height adjustability together with the drum
- Completely CIP-capable, as there is no hose around the suction lance
- Simple replacement of the exhaust air filters without containment interruption
- Easiest replacement of the (optional) police filter without containment interruption
- With the patented "SmartDock-Advanced" docking system
- With CIP, the product hose incl. suction lance is connected in the CIP circuit with a pressure of up to 2 bar

The advantages of the R-PTS are:

- Large filter area with Push-Push filter
- Filter change without breaking the containment
- Filter placement on top or on the side, depending on the space available



Optimal adjustable height for docking the outer bag



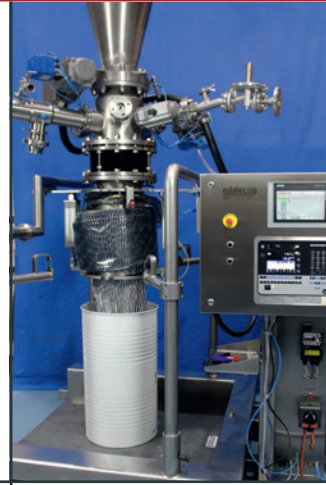
Height for working with gloves

DRUM FILLING BY PROFESSIONALS FOR PROFESSIONALS

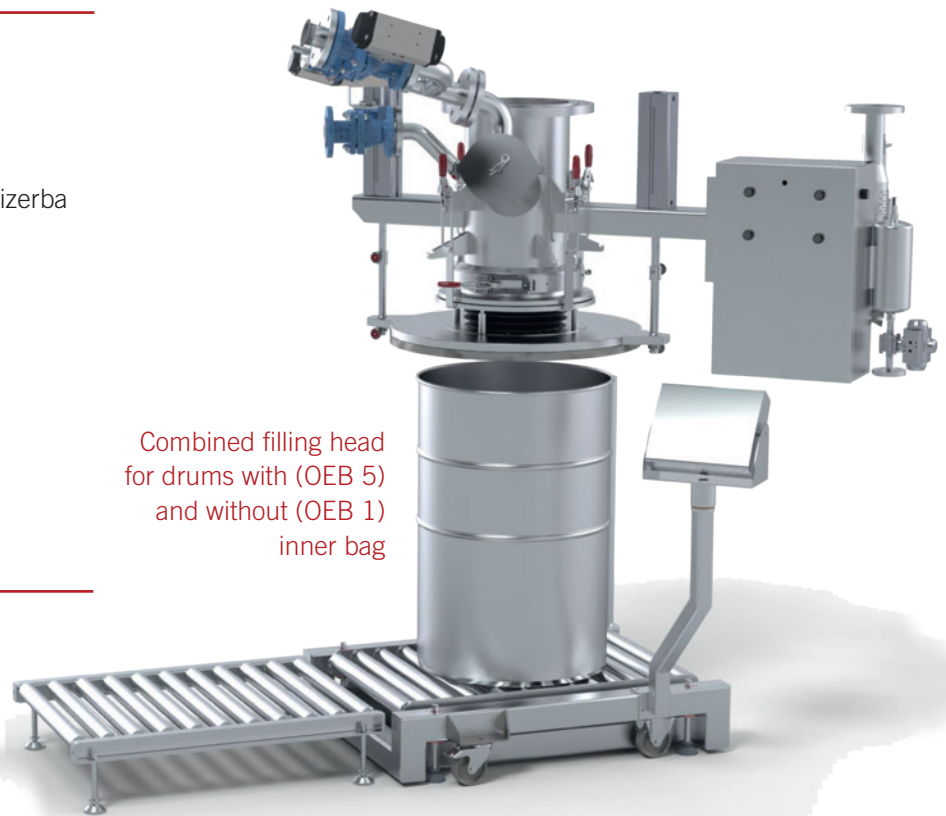
We produce drum fillings in different versions for you. Whether this should be solved via an endless liner, single bag filling or even without an inner bag: Every solution is available with us. Another great advantage is that we can use electrically conductive Büscherhof films and aluminium single bags with our systems. Whether you want to integrate a scale system from Mettler or Siemens that controls the dosing flap or whether you want to optically dose by hand: we are completely flexible and offer both solutions.

The following options are available for drum filling:

- Leak test
- Inertisation (pressure change of flow)
- Dosing by means of Siemens Siwarex, Mettler or Bizerba
- Vibrator
- Push-Push filter
- WIP/CIP
- Integrated sieve mill
- Communication to the customer's DCS
- Police filter H14
- Sampling manual or semi-automatic
- Single liner / Endless liner
- ATEX up to zone 1/21
- OEB 1-16



Combined filling head
for drums with (OEB 5)
and without (OEB 1)
inner bag



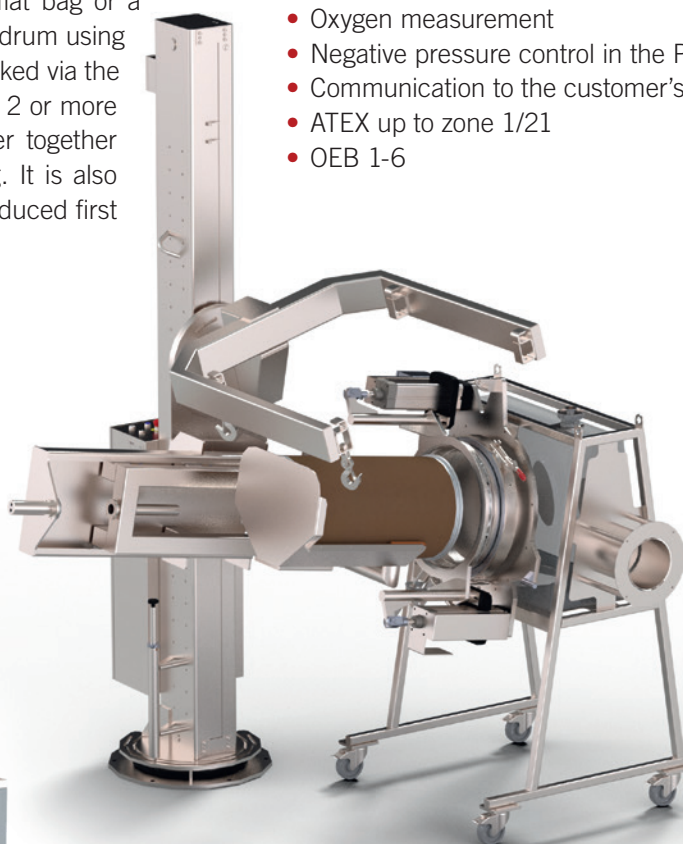
DRUM EMPTYING

Containment drum emptying systems are available from rubitec ag in various designs, depending on whether the customer wants to drive the drum into the GloveBox in order to remove the drum lid under containment in the GloveBox or whether this can already be removed outside the GloveBox and a second liner is located in the drum, which is then docked to the drum emptying station. We do not seal via the drum, but via the liner (flat bag), so the drum could also be processed by a drum squeezer before emptying in case the product is lumpy. If the lid is only removed in the GloveBox, either the drum must be placed in a flat bag or a piece of film tubing is glued around the drum using special adhesive tape, which is then docked via the SmartDock. Whether the Glove Box has 2 or more glove ports is decided by the customer together with rubitec ag during project planning. It is also possible to have a working mock-up produced first to test the handling.

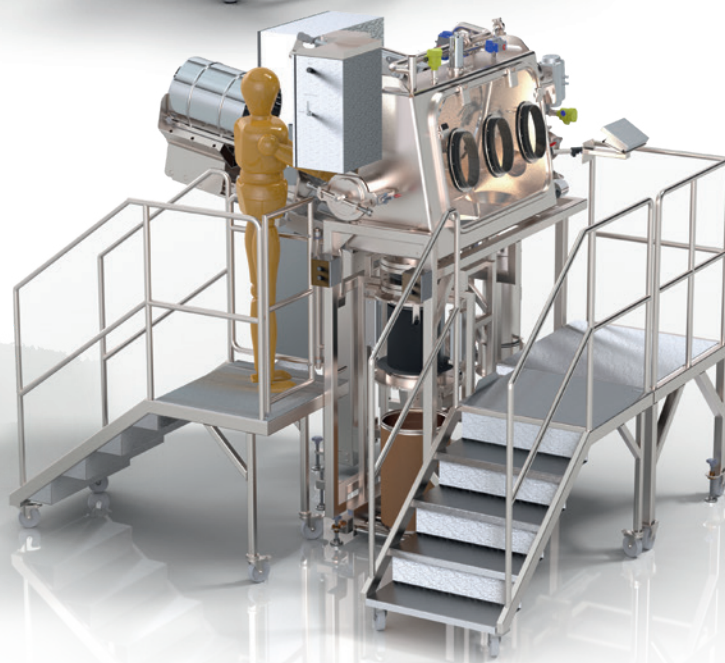
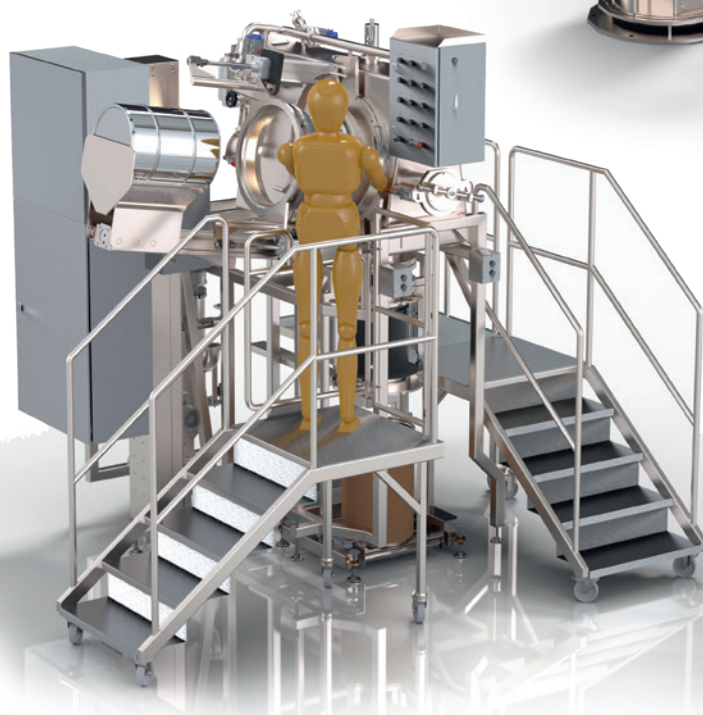
Various options are available for drum emptying:

- Electric or pneumatic control
- Different drum sizes can be docked with one unit
- Transfer with dosing and weigh cells
- Sieve mill VaruMill
- Lifting column via a mobile or stationary SmartLift
- WIP/CIP
- Push-Push filter H13 or H14
- Police filter H14
- Inertisation
- Oxygen measurement
- Negative pressure control in the Pa range
- Communication to the customer's DCS
- ATEX up to zone 1/21
- OEB 1-6

Drum emptying station (refilling in small containers in the GloveBox or into smaller drums via endless liner head)



SmartLift combined for drum and BigBag handling



Drum emptying station
with R-PTS via suction
shoe



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- CIP-capable even with built-in sieve
- GMP-compliant construction
- GMP-compliant energy supply from the technical room
- Encapsulated and cooled drive for use in clean rooms
- Freely selectable inlet and outlet connections
- No screws in the product area
- Use in EX-areas



Advantages rubitec sieves:

- The only ones with flanges, therefore very stable, higher torques possible
- Optionally with closed PT100 led to the outside
- Sealing with open GMP O-rings
- Interchangeable with cylindrical sieve inserts
- Suitable for CIP
- No tools required for installation and removal of rotor and sieve

Advantages VaruMill:

- No cables and hoses in the production room, everything is routed internally
- Shaft seal not in contact with the product
- Shaft seal ventilated with N2 or pharmaceutical air to minimise wear
- Drive tightly encapsulated, externally cooled
- Laboratory unit (100) expandable with adapter for pilot size (125)
- Specialised in customisation
- Different sizes available as standard: 100 (125) / 200 / 300

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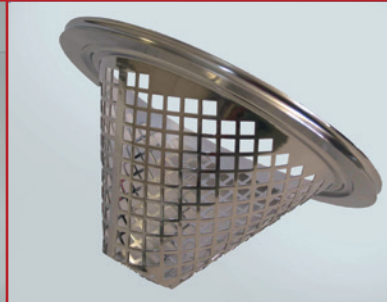
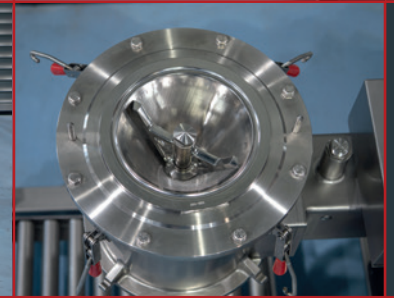
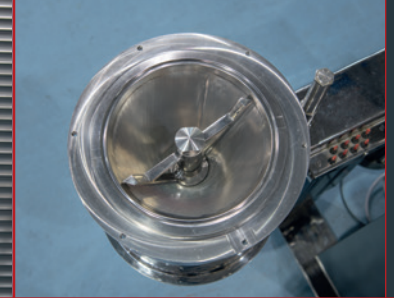
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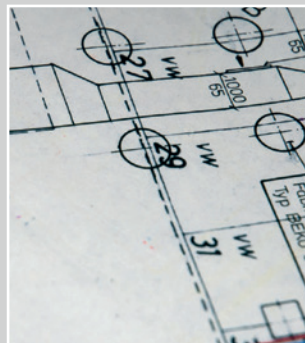
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Innovation mit Automation



THEY GET THINGS DONE! OUR SMARTLIFTS ...

Whether mobile or stationary, we design our SmartLifts according to customer requirements: we can equip them pneumatically, electrically, hydraulically or with hand cranks. No matter which container you want to lift or dump, we develop the right gripper for you.

Mobile with drum gripper
Lifting and dumping are hydraulic

Mobile with lifting fork
with electric drive and hydraulic lift drive

Stationary with drum gripper
Lifting is electric, drum dumper is pneumatic

Stationary SmartLift (26 m high)
with container lifting fork
Lifting and turning are electric



SmartLifts

Your advantages at a glance:

- ATEX up to zone 1/21
- Drive type according to customer specification
- Lifting forks according to customer specification
- Drum gripper according to customer specification
- GMP-compliant

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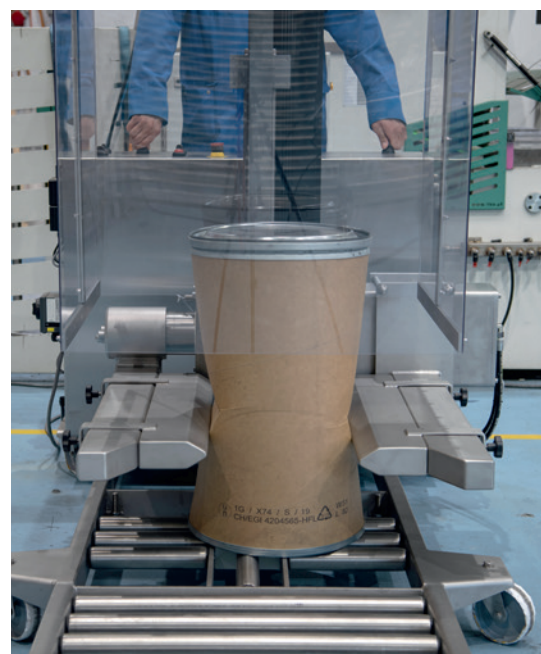
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DRUM AND BIGBAG SQUEEZERS

The product in BigBags and drums often hardens into a block after transport or after prolonged storage. In order to be able to empty these containers at all, the respective container must be processed accordingly. This can be done with our squeezers. We offer drum and BigBag squeezers for loosening up your products in a wide variety of designs.



Your advantages at a glance:

- ATEX up to zone 1/21
- GMP-compliant
- Very robust design
- Mobile or stationary
- Low maintenance



TEAM EDELSTAHL

Ihr Partner für Edelstahl und Sonderwerkstoffe



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UBS

CONTAINMENT DRUM EMPTYING FOR BUNGHOLE DRUMS WITH LIQUIDS

Drums with liquids that cause hazardous vapours can be safely emptied using our R-DC Fluid: the liquid is sucked out with a suction lance via e.g. an R-PTS. The vapours are filtered and drawn into the customer's exhaust air system via a Push-Push filter.

Your advantages at a glance:

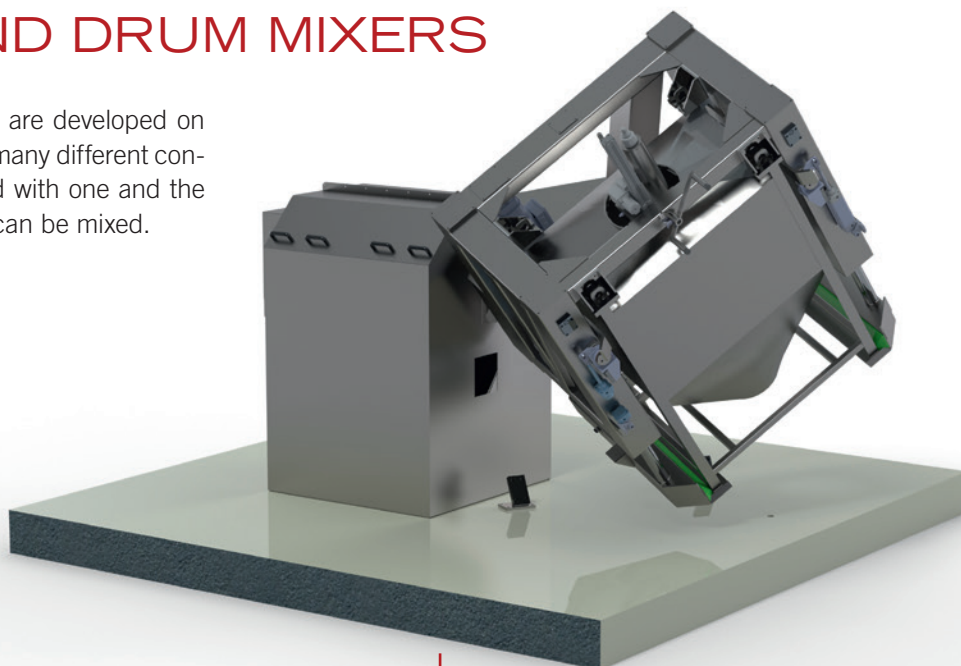
- Improved ergonomics due to height adjustability together with the drum
- Simple replacement of the exhaust air filters without containment interruption
- ATEX up to zone 1/21
- GMP-compliant

Drum emptying for bunghole drums with liquids



CONTAINER AND DRUM MIXERS

Our drum mixers and container mixers are developed on the basis of our customers' containers: many different container sizes can be clamped and mixed with one and the same mixer. Weights of up to 2000 kg can be mixed.



Your advantages at a glance:

- GMP, pharmaceutical design
- PLC control
- Lifts up drums from pallet
- ATEX up to zone 1/21
- Lifting forks according to customer specification
- Drum gripper according to customer specification



Ihr Partner für Industrie- und Prozessautomation

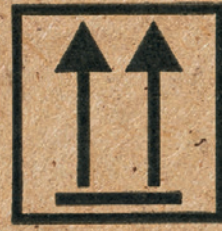
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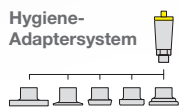
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