

Leading Edge Powder Processing Technology

**Gericke**

# GERICKE BBU BIG BAG UNLOADER<sup>®</sup>

Your Flexible System for Big Bag Discharging



# SYSTEM STRUCTURE

THE DESIGN OF THE BIG BAG DISCHARGE STATION IS GUIDED BY A DUSTFREE AND SAFE OPERATION.

- 1 Infrastructure and loading device
- 2 Reliable product flow
- 3 Dust-proof bag connection
- 4 Interface to the process



## LOADING INFRASTRUCTURE



Integrated hoist



Local hoist



Forklift transport

## FLOWABILITY



Resting table



Vibrating table



Lower paddles



Lateral paddles

## DUST CONTAINMENT



Twin ring docking station



Discharge box

## PROCESS INTERFACE



Discharge frame



Pressure vessel



Air rotary valve

## BBU - BIG BAG UNLOADER

The following design features are available

<b>Material</b>	Frame: Stainless steel 304 Product contact: Stainless steel 316 Ti
	Frame: Mild steel, painted Product contact: Stainless steel 316 Ti
<b>Design</b>	Hygienic execution with open profiles
	Closed rectangular profiles
<b>ATEX</b>	Outside: No zone Inside: No zone
	Outside: ATEX 22 Inside: No zone
	Other options available on request
<b>Options</b>	Security fence, light barriers
	Weighing frame
	Surface finish Ra < 0,8 µm
	Stretching unit
	Automatisation
	Dedusting

## BBU - OUTLET SPOUT FIXATION

Through twin-ring docking station

### Procedure

- Lift Big Bag into the station
- Open cover of docking station
- Pull outlet spout over the inner ring of the docking station
- Close cover of docking station
- Open outlet spout
- Material starts to flow



Docking station opened

### Advantages

- Dust-free docking station ensures optimum process safety
- State-of-the-art working safety
- Maintenance-free

### Features

- Inner ring adjustable to discharge spout
- Contact pressure of cover is adjustable
- Optional dedusting at the back of the station



Docking station closed



## BBU - OUTLET SPOUT FIXATION

### Through discharge box



#### Procedure

- Lift Big Bag into the station
- Open front door of discharge box
- Pull outlet spout through the station and open it
- Close the front door of discharge box
- Material starts to flow

#### Advantages

- Simple mechanical execution ensures high process reliability
- The sealing is done by the Big Bag itself
- Option: Dedusting at the back of the station
- State of the art working safety
- Maintenance-free

## BBU - INTEGRATED HOIST INSTALLATION

#### Characteristics

- Load carrying beam: 2000 kg
- Crane beam: 1500 mm Length
- Lifting cross made of carbon steel or stainless steel
- Crane with 1000 and 2000 kg load capacity
- Option: Hygienic execution
- Option: Reduced installation height
- Option: ATEX execution zone 22
- Minimised investment costs by optimised adaptation to local infrastructure



## BBU - CLOSING DEVICE FOR BIG BAGS

### Closing device for partially empty Big Bags (option)

- 2 pneumatically operated slide gates close the outlet spout while material flows out
- Robust execution
- Hygienic design
- Retrofit kit available
- Minimised installation height
- Optimised adaptation to local recipe mixture
- Fail-safe and maintenance-free

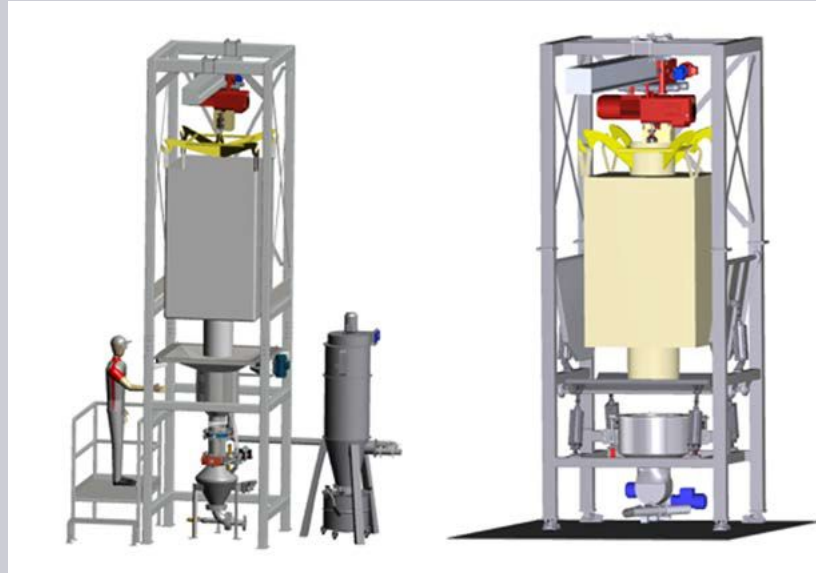


## BBU – PROCESS CONNECTION

Lower frame of the BBU emptying station is adapted to the specific requirements of the plant.

### Connection examples

- Direct discharge into hopper
- Discharge into intermediate container
- Via nibbler and rotary valve into lean-phase pneumatic conveying line
- Into sending vessel and dense-phase conveying
- Via feeder into vacuum conveying line
- Direct discharge into vacuum conveying
- Feeding into hopper or reactor
- Inclined conveying screw



Through sending from vessel into pneumatic conveying

Station on load cells feeding into vacuum conveying

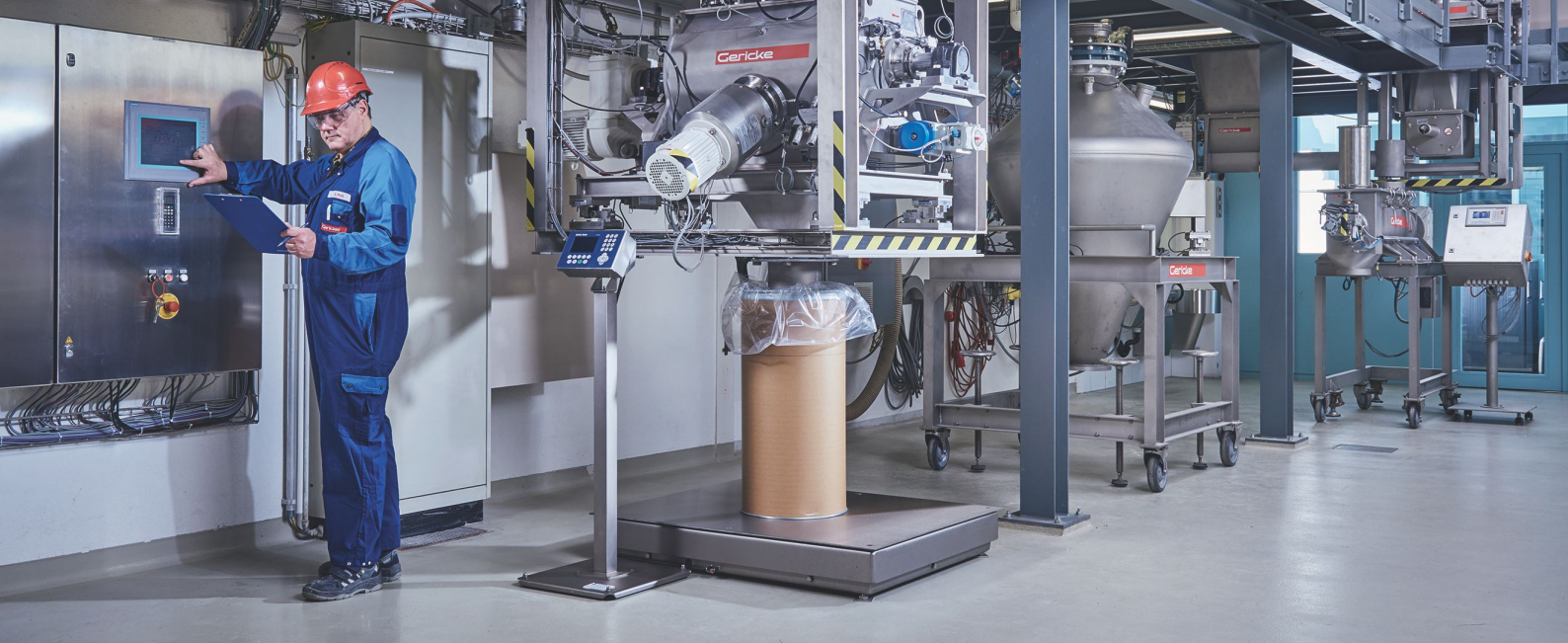
## BBU – SYSTEM ADVANTAGES

- Modular system consisting of standardised components which can be combined to application-specific solutions
- BBU can be adjusted later, should the application change
- Execution for hygienic areas

## WHY A BBU FROM GERICKE?

- Optimised cost of ownership
- Minimum maintenance effort
- State of the art handling
- Up to date safety at work and documentation





## TEST CENTRE

**Tests on an industrial scale reduce planning time and increase process safety!**

Test centres in Switzerland, France, England, Brazil, USA and Singapore are available for customer tests under near-production conditions. The test centres are equipped with original machines. Experienced specialists design the test layout according to your wishes and perform the tests.

- Testing of machines and prototypes with original products
- Checking of performance ranges and accuracies
- Testing of the interaction of multiple machines
- Gaining of experience for product processing
- Sampling for laboratory tests and market response
- Customer training

## SERVICE

**Worldwide support for commissioning, maintenance and service.**

We highly value punctual delivery, reliable assembly and thorough assembly monitoring. With well-planned commissioning and intensive on-site training we create the prerequisites for a smooth production start-up. Our service team and the global spare parts service combine to ensure long service life and high availability of systems with consistent product quality.

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