

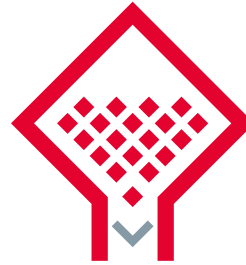
DISCHARGING



HECHT – We care.

As your reliable partner for safe bulk material handling our family business stands for tailor-made and efficient solutions.





Safe Discharging for various applications

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Discharging Stations**
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Powders, granules and many other bulk solids are mostly transported and warehoused in Big Bags, containers or small bins like drums or sacks. Therefore, different discharging stations are needed for further processing. In addition, for planning and design, several important facts must be considered.

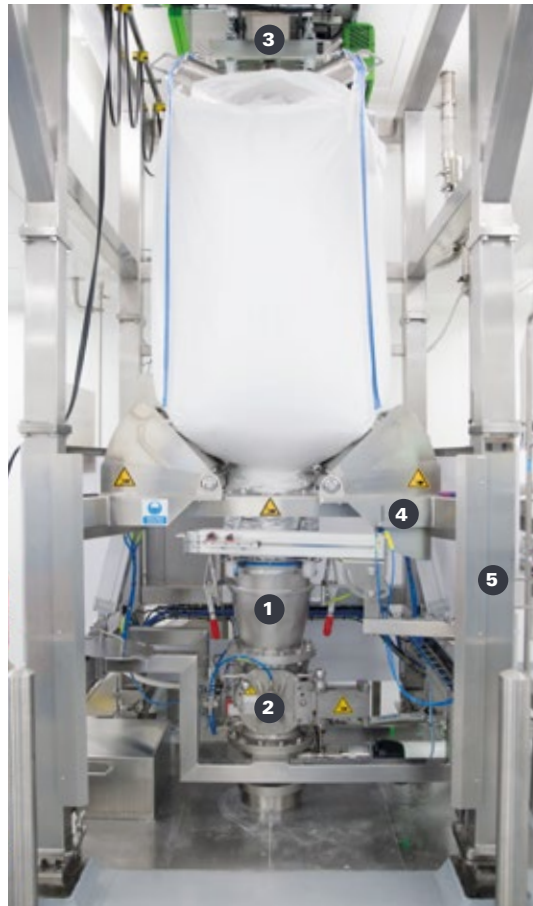
Depending on the necessary filling capacity, the respective Containment level and implementation of an optional weighing- or dosing function, HECHT offers individual modular systems for wide-ranging and flexible applications. Especially in the chemical, food and pharmaceutical industry, when it comes to hygienic design and dust-free handling, the requirements are extremely high. Depending on space conditions, process integration and the needs of our customers, HECHT will be dedicated to answer all questions when it comes to planning a discharging station. Even for complex requirements, we will be able to find a suitable solution and guarantee a high quality for our systems and machinery. Together with our customers we work out individual concepts and for example develop an ideal cleaning or service concept for your discharging station. No matter if you need to discharge Big Bags, containers or small bins: we have the best solution.

Big Bag Discharging

For more than 40 years, HECHT has been providing Big Bag discharging stations for the chemical, food and pharmaceutical industry and have always been key components of our product portfolio. Basically, a Big Bag discharging station consists of the following components:

1: Connection-System as important key component of a discharging station for connection and discharging of the Big Bag

2: Connection to the next process step, for example dosing unit, suction shoe with pneumatic conveying, blender, Silo, buffer storage, sack discharging,...



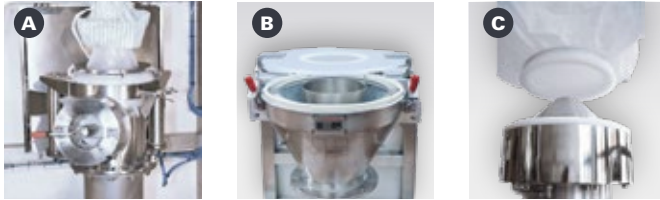
3: Lifting device with holding fixture, chain hoist, lifting column or forklift, in order to lift the Big Bag and bring it into the right discharging position

4: Big Bag support table to protect the operator from suspended loads. Optional feature: discharging aid

5: Frame frame for mounting of the connection system and the Big Bag

Connection Systems

Depending on your requirements regarding dust-free operation and throughput, HECHT offers a large choice of connection systems - from simple, fast and low-dust handling up to high-Containment operations.



- A:** Liner Connection System LAS-EC
B: Outlet Connection System AAS-EF
C: Double-Cone Connection System SoliValve for partial discharging of the Big Bags

Lifting Devices



- ◆ **Holding Fixtures:**
Standard version with chain hoist and running track

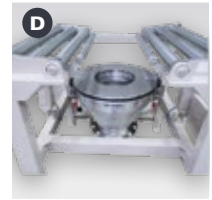


- ◆ **Lifting Columns:**
Stand-alone lifting devices as an alternative to chain hoists

Support Tables

Working under suspended loads without safety measures is generally not permitted, as full Big Bags can weigh up to two tons. Therefore, discharging stations come with special support tables in order to reduce the weight of the Big Bags.

- ◆ Expandable with mechanical discharging aids for poor-flowing products
- ◆ Flexible use: mountable in all kinds of frames
- ◆ Combinable with all HECHT connection systems



- D:** Safety Support Table SAT-W with massaging system

Frames



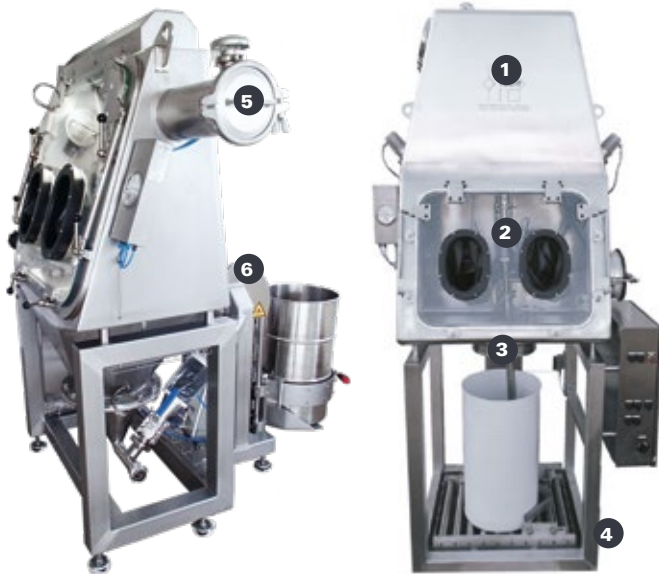
- ◆ **Table Frames:**
Small and space-saving stand-alone units
- ◆ **Gantry Frames:**
Cantilever or gantry frames with integrated runway girder with chain hoist and loading gear



- ◆ **Modular Frames:**
Self-sufficient and flexible stations: individually designed frame units for larger installations

Drum Discharging

Containment Drum Discharging Station with lifting/tipping device type CFE-K and with suction lance type CFE-L



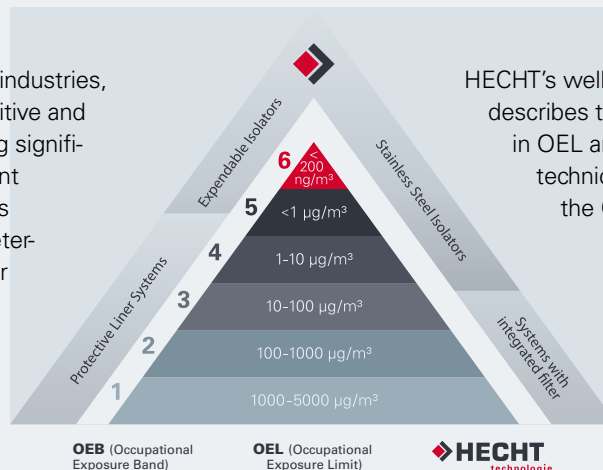
- ◆ For contamination-free discharging of drums with inner liners up to OEB 5
- ◆ Observation of the product flow
- ◆ Product handling by means of gloves for easy operation
- ◆ Exact positioning and docking of the drum

- | | |
|-----------------------------|--|
| 1: Guiding Frame | 4: Roller conveyor with lifting device |
| 2: Isolator box with gloves | 5: Push-through filter |
| 3: Drum port with sealing | 6: Lifting/Tipping device |



Mobile Drum Discharger with suction lance

In the chemical and pharmaceutical industries, the production and handling of sensitive and hazardous substances are increasing significantly. In order to guarantee sufficient protection for the operator as well as the product, manufacturers must determine product specific limit values for the Containment to be reached.



HECHT's well-known Containment Pyramid describes the classification of raw materials in OEL and OEB-levels as well as our technical solution in order to achieve the Containment.

Advantages



A and B: CFE-K

Type CFE-K

- ◆ Tipping device for easy docking of the drum
- ◆ Positioning and docking of the drum with an automatic lifting function
- ◆ Further transportation via downpipe or pneumatic conveying

Winner of the POWTECH Technology Award in the category Pharma/Food:

"HECHT Technologie managed to combine Containment and ergonomics to one convincing solution: With the high-Containment Drum Discharger CFE-L it is possible to discharge drums in various sizes hygienically and operator-friendly by means of a suction-lance."

Source:
PROCESS magazine
(Publisher: Vogel, Germany)



C: CFE-L

Type CFE-L

- ◆ Accurate discharging – optionally with weighing function
- ◆ Simple and ergonomic discharging of the drum with a linear guided and weight-reduced suction lance
- ◆ Suitable for a weight-controlled partial removal of the product

Sack Discharging Stations

Hygienic, compact and cost-effective: HECHT Sack Discharging Stations are the perfect solution when it comes to a low-dust or dust-free sack discharging. Depending on your requirements, the dust can be separated with an integrated filter with product

return, or an external filter in combination with a dedusting system. Fully contained sack discharging stations for dust-free emptying are also available.



- 1: Integrated filter with easy-to-remove filter elements
- 2: Clean gas space
- 3: Big filling lid with pneumatic spring actuation
- 4: Big support table for sacks
- 5: Product buffer with a useable volume of up to 250l (customizable)



A: Sack Discharging Stations with integrated sieve



B: Integrated and exchangeable sieve

Versions



SE-RVS: with integrated protective vibration sieve for dissolving slight lumps and separation of contaminants



SE-H Basic version for on-site dedusting with large hopper (Volume up to 250l – customizable)

From the cost-effective basic version up to the customer-specific high-Containment version for handling hazardous

substances: We offer the ideal solution for your sack discharging process customized to your individual requirements.



- 1: Open lid held in place by pneumatic springs
- 2: Removable sieve for fast and easy cleaning. Sieve replacement within 1 minute due to bayonet locks
- 3: Internal vibration decoupling, thus one-piece casing without transition sleeves



C: Sieving process in the sack discharger

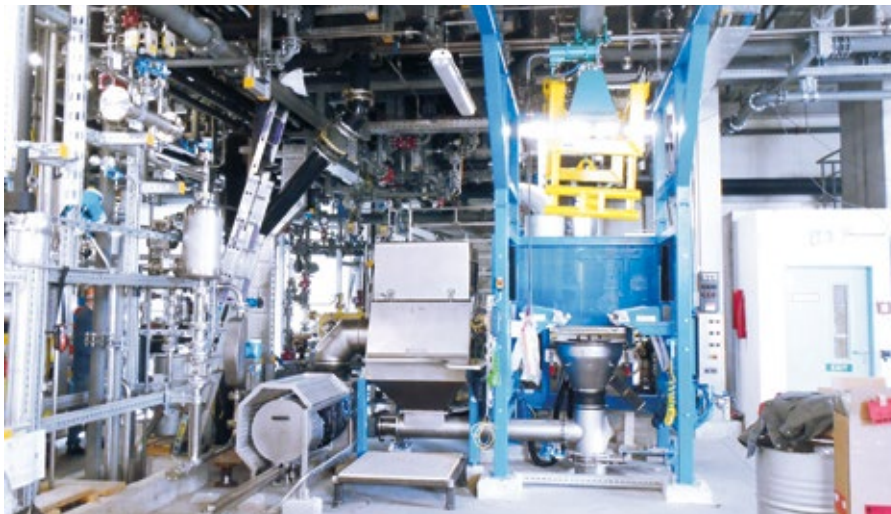


SE H-EF with integrated filter and a large hopper (Volume up to 250l – customizable)



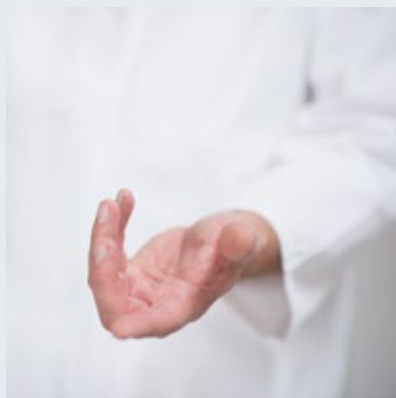
High-Containment Sack Discharger SE-CS for a dust- and contamination free discharging up to OEB 5

Typical Installation – best practice



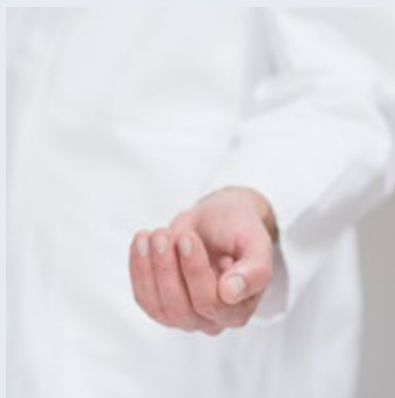
Further HECHT Product Lines

Conveying and Filling



Conveying

HECHT reacted to the increasing challenges when it comes to transportation of powders and granulates: With our innovative pneumatic conveying concept, the ProClean Conveyor PCC. Compared to mechanical conveying methods, pneumatic modules can easily and flexibly be integrated in an existing production process. Only a low assembly height is necessary for this purpose. Combined with the principle of vacuum conveying, all important requirements in terms of Containment are fulfilled.



Filling

HECHT offers various filling stations for almost all purposes when it comes to filling of Big Bags and small bins like drums, sacks or cartons. Depending on the bin sizes, the space conditions given, the quantity of bins to be filled or the respective weighing unit needed, we offer individual solutions. Numerous special applications or customized versions for all requirements of your production can be realized by our innovative solutions.

Discover our large product range
and HECHT systems at
www.hecht.eu





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