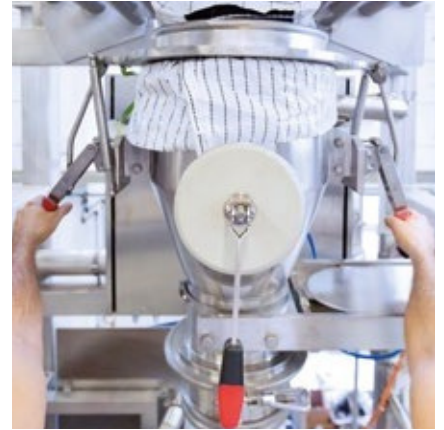


# CHEMISTRY



# HECHT – We care.

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





# Chemical industry

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In the chemical sector, the requirements for process equipment have considerably increased in the last years. On the one hand, the substances used may be very valuable in their high concentration, but on the other hand, they may also endanger the user. Here, clever containment equipment is required to protect the product and/or the user. The special requirements of the chemical industry include high system availability as well as ensuring higher throughputs than, for example, in the pharmaceutical industry. All of this is implemented in our machines and systems. We have been in close contact with our customers in the chemical sector for many years and are glad to consult you to define your specific tasks, work with you on your process demands and realize your projects. Our experienced engineers and bulk material experts advise you individually and provide support for the whole process from conception to construction up to installation and commissioning. **We care.**

# Containment: REACH Requirements under Containment

## What is REACH?

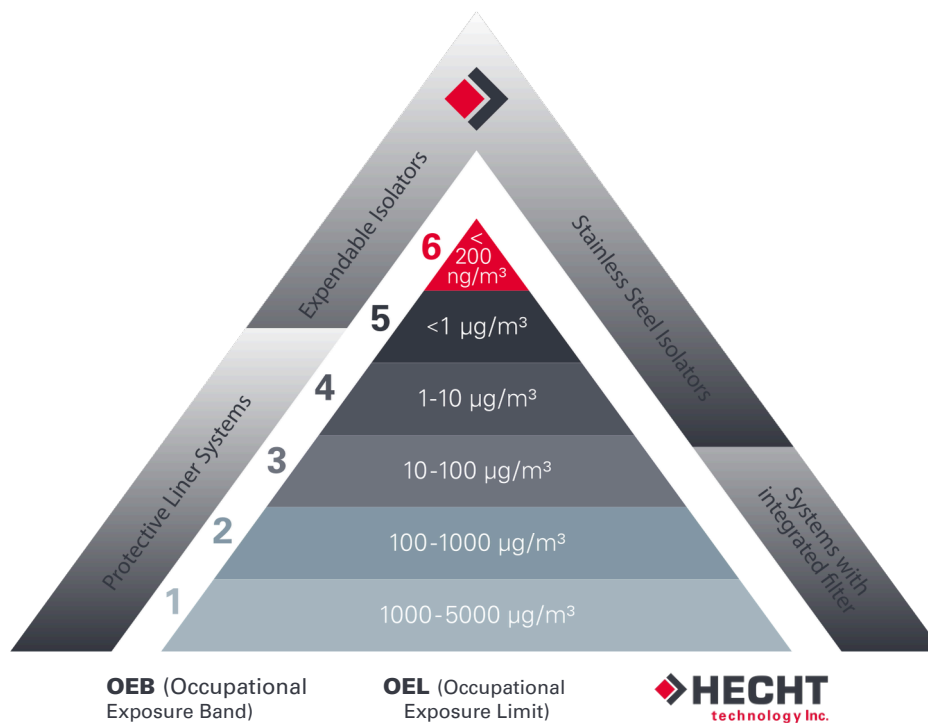
REACH (**R**egistration, **E**valuation, **A**uthorization and Restriction of **C**hemicals) regulation (EG No. 1907/2006) entered into force in 2007. It requires the registration of EU imported and produced chemical substances >1 t/a. The extended registration deadline ended on 31 May 2018. From that day on the production or the import to the European Union is only possible, if you have a valid registration number for the substance. To overcome a costly and holistic registration, there is the possibility for chemical processed substances to register as **"intermediate under strictly controlled conditions" (SCC)**.

**Containment solutions** minimize the exposition towards operator and environment. Thus, onsite as well as transported isolated intermediate substances can be registered under reduced information request. The consequent usage of containment systems for handling of bulk materials allows the confirmation of strictly controlled conditions.

The compliance of guidelines regarding strictly controlled conditions can also reduce requirements when it comes to applications in which substances are not chemically converted.

We will gladly support you in the implementation of REACH requirements. Concerning further questions regarding REACH registration, we refer you to our specialized partner who offers a comprehensive range of services.





Containment systems are applied in order to avoid contamination of the environment by dust and other critical substances. The systems requirements depend on the products and have to be repeatedly defined for each new project. Containment levels can be classified with our HECHT pyramid. It shows several classification levels: OEB (Occupational Exposure Band) and OEL (Occupational Exposure Limit). The classification refers to the toxicity of the products defined by the operating company. The maximum number of particles/amount of air results

from this classification. Having classified your product, HECHT offers the appropriate solution (depending on your requirements). Cleanliness, safety and avoidance of crosscontamination play a major role. Therefore, it is crucial to consider the whole process and not merely isolated solutions. **Holistic containment includes user- and product-protection.** User protection stands for protection of the operator against hazardous substances. Product protection prevents contamination and crosscontamination.



**USER-PROTECTION**



**PRODUCT-PROTECTION**

# Challenges

## of the chemical industry



Especially in the chemical production process, further factors such as automation and environment protection play an enormously important role in addition to product safety.

In order to achieve high throughputs and ensure reproducibility, a complete concept must be conceived from the outset.

Our HECHT systems offer protection and security for the chemical industry.

# Protection and security for the chemical industry



## Cleaning

Validated cleaning through efficient WIP, CIP or SIP systems is included in the engineering process.



## Documentation

Gapless quality monitoring due to documentation during all process steps.



## Product safety

Prevention of crosscontamination and contamination by impurities.



## Accuracy of fit

Connection of crossprocess steps by individual adaptations that fit your requirements.



## Ergonomics

The system allows an ergonomic operation.



## Approved

The quality and functionality of our systems is confirmed by numerous customerspecific audits.



## User and environment protection

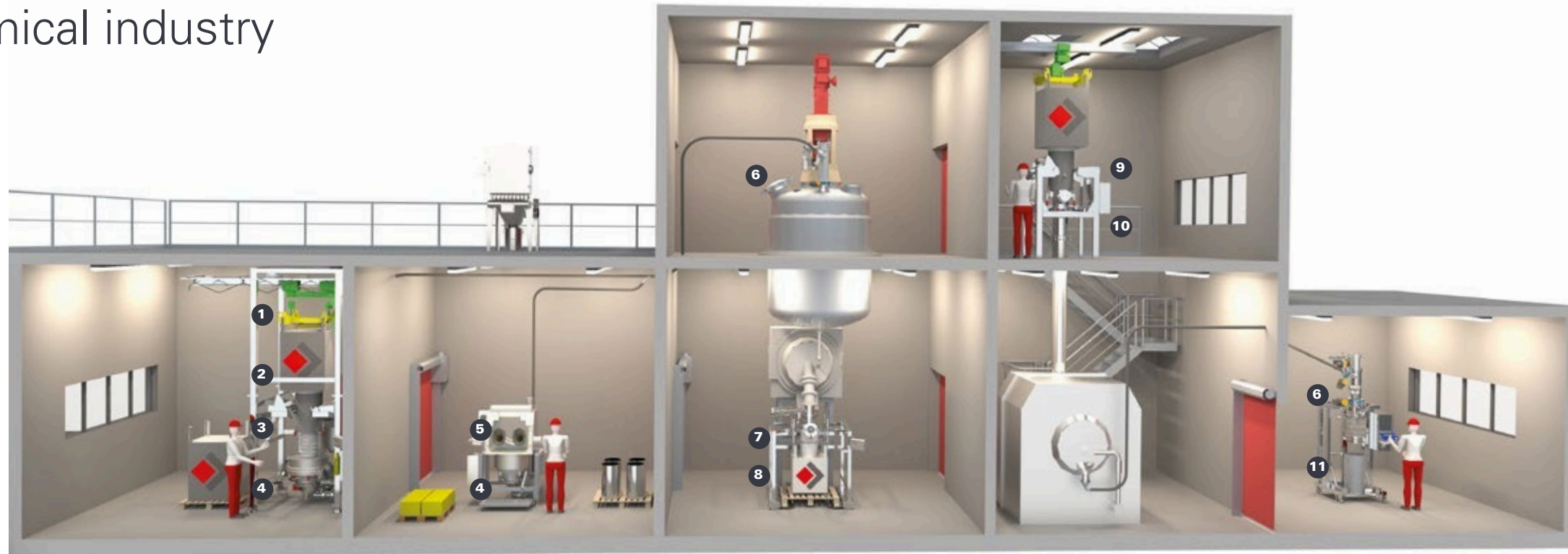
Hazardous substances cannot leak. Protection of user and environment.



## Individualisation

The whole process can be adjusted to your product and production characteristics.

# Individual containment solutions for the chemical industry



Convince yourself of many advantages HECHT offers for your production process!

Systems protect user and product at the same time and prevent the exit of critical substances or the access of impurities. Depending on the requirements, single process steps or holistic solutions for the production process can be delivered. Optimal containment is guaranteed. The shown process illustrates an exemplary process chain and its benefits.

### 1: Lifting Devices

A holding fixture with chain hoist is the standard lifting device for handling big bags.

### 2: Frames

Frames can be designed as table, portal or modular frames.

### 3: Connection Systems

Connection systems are the core component for a reliable discharge of big bags. They can be obtained from low-dust to high-containment versions.

### 4: Suction Shoe

Suction shoes act as loading stations for a pneumatic conveyor.

### 5: Containment Drum Discharger CFE-K

Low-contamination discharging of drums with inner liner up to OEB 5. By means of the tipping device drums can be easily connected to the station.

### 6: ProClean Conveyor PCC

The pneumatic device is the ideal connection of different machinery.

### 7: Liner Filling Head LBK

Dust-free High Containment Filling of any kinds of bins with liners.

### 8: Filling Station BG Basic

Space-saving and cost-efficient filling station. Can be easily integrated into any production environment.

### 9: Safety Support Table with

#### massaging paddle SAT-W

Big bag support for assisting the discharge process. Particularly suitable for poor-flowing products

### 10: Liner Connection System LAS

Containment discharge of any bins with liner.

### 11: Bin Filling Station

Depending on the application, a filling head for single sack or liner filling or a filling head with endless liner package can be integrated.



# Typical Installation – best practice



# Further HECHT Industries

## Food and Pharma



### Food

Designing machinery in Hygienic Design combined with helpful ergonomics for the operator have become a matter of fact for us. Retraceability, varietal purity, ATEX-compliance, system availability and quality management are further topics that manufacturers of food and nutritionals have to take care of 24 hours/7 days a week. HECHT-Systems ensure protection and safety for the food industry.



### Pharma

In the pharmaceutical industry, the requirements to the process equipment are for sure the most challenging. On the one hand, the substances in use are partly very valuable in their high concentration but on the other hand, they are endangering the operator. In order to ensure an adequate and long-term operator protection, most of these substances need to adhere to an OEB 5 threshold. HECHT-Systems ensure protection and safety for the pharmaceutical industry.

Discover our large product range  
and HECHT systems at  
[www.hecht.eu](http://www.hecht.eu)



# WE CARE.



**NORTH AMERICAN PARTNER FOR  
LEADING EUROPEAN SUPPLIERS**



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