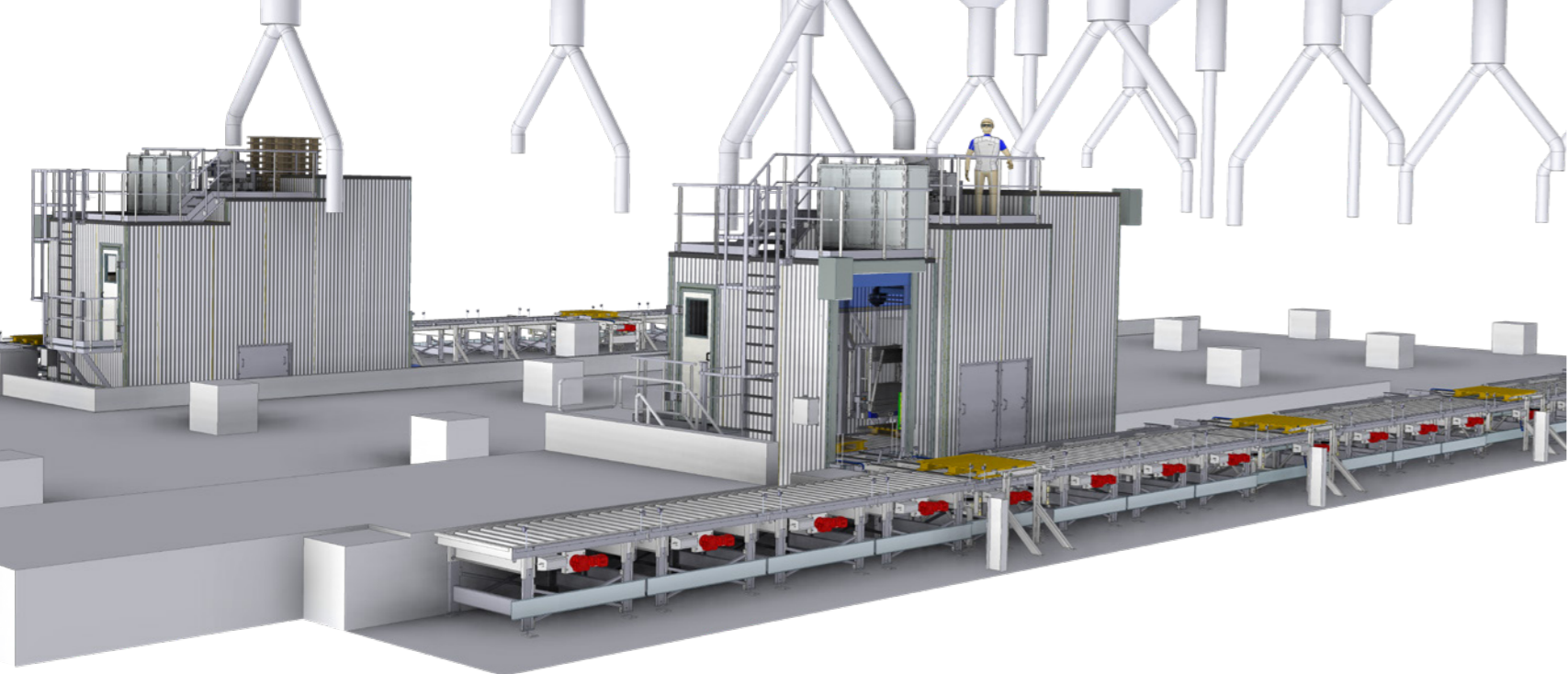




Turnkey solutions for FIBC and octabin handling

PATTYN
A DURAVANT COMPANY



FIBC and Octabin Filling and handling

Since 1851

Pattyn Bulk Packaging was originally founded as Delaere in 1851, beginning as a **manufacturer of static weighing systems**. Over the years we earned a strong reputation due to our know-how, quality and a strong customer focus.

In the 1980's, the company expanded into **dosing and dynamic weighing** and began engineering **automatic filling equipment for FIBCs**. After successfully supplying our equipment to major industrial customers, we grew internationally, following our European partners as they opened new locations.

In 2024, we became part of Pattyn and started operating under the name Pattyn Bulk Packaging. Today, we **hold a leading position in the production of customized weighing and filling applications** for customers in the chemical, petrochemical and food processing industries.

Our aim is to offer a comprehensive range of **high quality solutions** with a **deep industry specialization**, ensuring **best practices, maximum output, and strong return on investment**. Our goal is to remain the top-of-mind, preferred supplier across all industries we serve.



In-house engineering, made in Belgium

Engineering

- Mechanical engineering
- Electrical design
- Software design
- Project management

In-house production

- Steel and stainless steel constructions
- Painting facilities
- E-panel building
- In-house assembly of machines in preparation for FAT

Installation and service

- Installation teams
- Commission engineers
- Maintenance services
- Worldwide installation

Industries and products

Our filling stations can be used by every company that wants to fill their dry bulk products into large packaging like FIBC's, octabins or drums. Our main focus is the food processing industries as well as the (petro)chemical industries.

Food industries

- Starch
- Milk powder
- Sugar
- ...



(Petro)chemical industries

- Carbon black
- S-PVC
- PA-6
- PP
- HDPE
- LDPE
- PET
- ...



Weighing and dosing systems

Pattyn offers **high quality weighing systems** for FIBC and octabin filling & discharging lines.

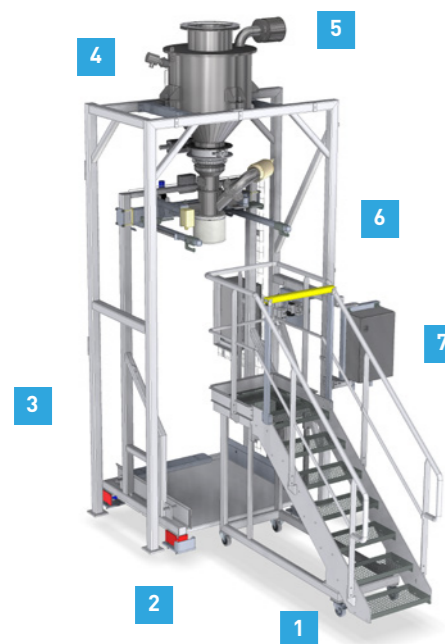
- Gross weighing systems
- Net weighing systems

Integration of **various dosing systems** such as:

- Screw conveyors
- Vibratory feeders
- Different types of dosing valves (vibrating valve, Casque valve, 3-position valve)
- Rotary valves
- ...

Pattyn Bulk Packaging is a **certified party** to perform commercial calibrations within the EU which implies we can offer **turnkey solutions** up to the first FIBC's & octabins to be commercially sold.

Stand-alone filling station

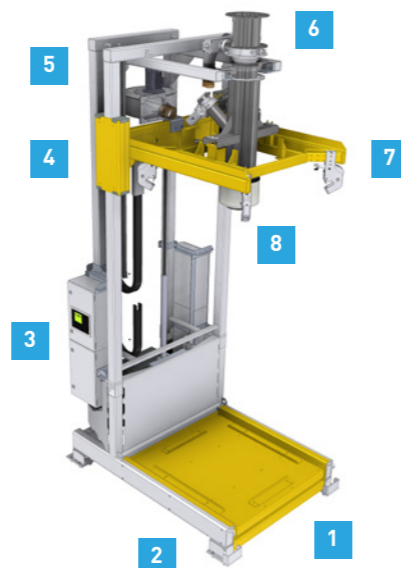


MACHINE EQUIPPED WITH:

- 1 Movable working platform
- 2 Heavy duty loadcells
- 3 Supporting frame for hopper
- 4 Stainless steel hopper including high level switch
- 5 Hopper top de-aeration filter
- 6 Filling frame including manual hooks and inflatable membrane
- 7 Weighing terminal and control cabinet

Main options:

- Full stainless steel execution
- Atex components
- Vibrating table



MACHINE EQUIPPED WITH:

- 1 Pallet lay down level including a vibrating table
- 2 Heavy duty loadcells
- 3 Weighing terminal and control cabinet
- 4 Hydraulic up and down movement of the filling head
- 5 Ventilator for inflation of the FIBC
- 6 Dosing valve
- 7 Automatic hooks
- 8 Inflatable membrane for fixation filling spout

Main options:

- Full stainless steel execution
- Atex components

FIBC Unloading station

Main options:

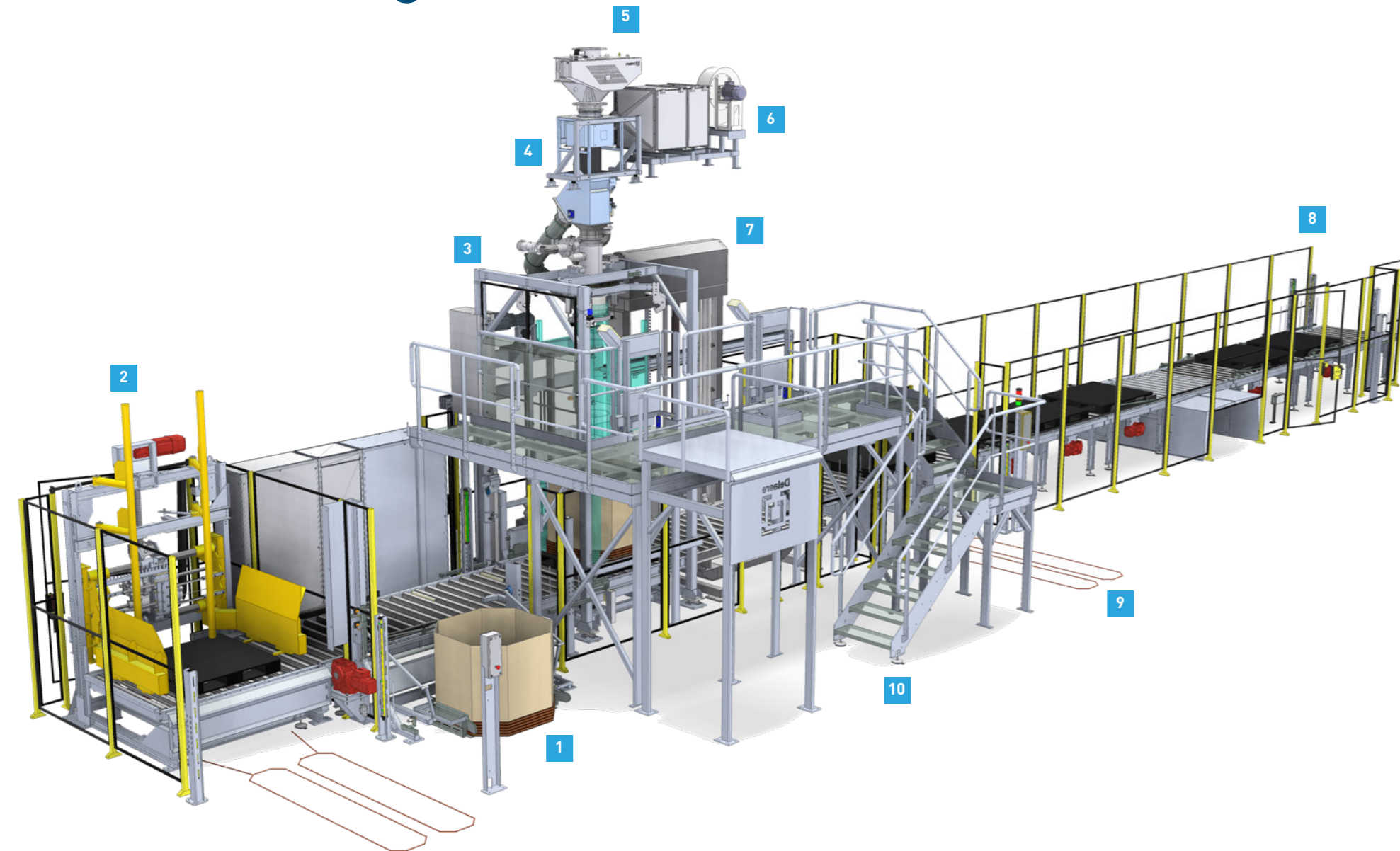
- Butterfly wings to increase product flow toward outlet
- Atex components

MACHINE EQUIPPED WITH:

- 1 Screw conveyor toward next process
- 2 Heavy duty loadcells for measurement of the amount of unloaded product
- 3 Reception funnel in stainless steel
- 4 Reception table including vibrating motors
- 5 Electrical hoist with certified lifting cross
- 6 Supporting frame, adaptable in height for different type of FIBCs
- 7 Pneumatic shut off valve

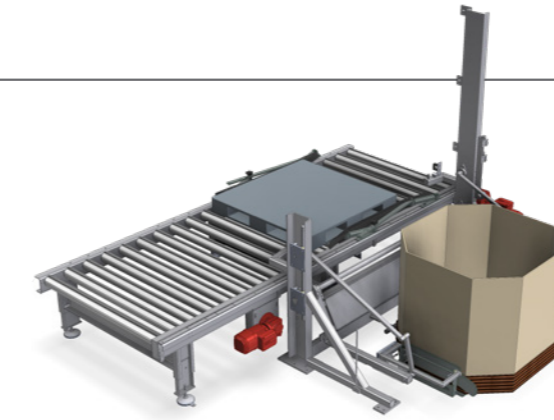


Semi-automatic FIBC and octabin filling line



LINE EQUIPPED WITH:

1 Octabin infeed system



2 Pallet dispenser with light barrier & induction loops

3 Filling station for FIBCs and octabins

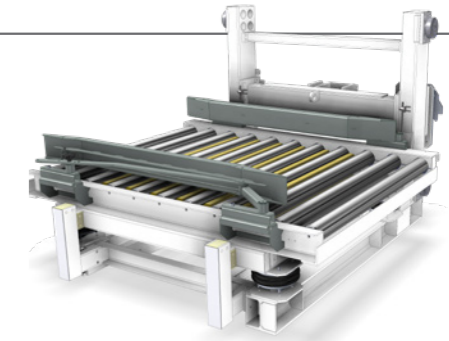


4 Metal detector including product rejection

5 Dosing system

6 FIBC inflating system, equipped with a H13 air filter

7 Hydraulic or electrical lift for filling station and closing position



8 Connection position with downstream process

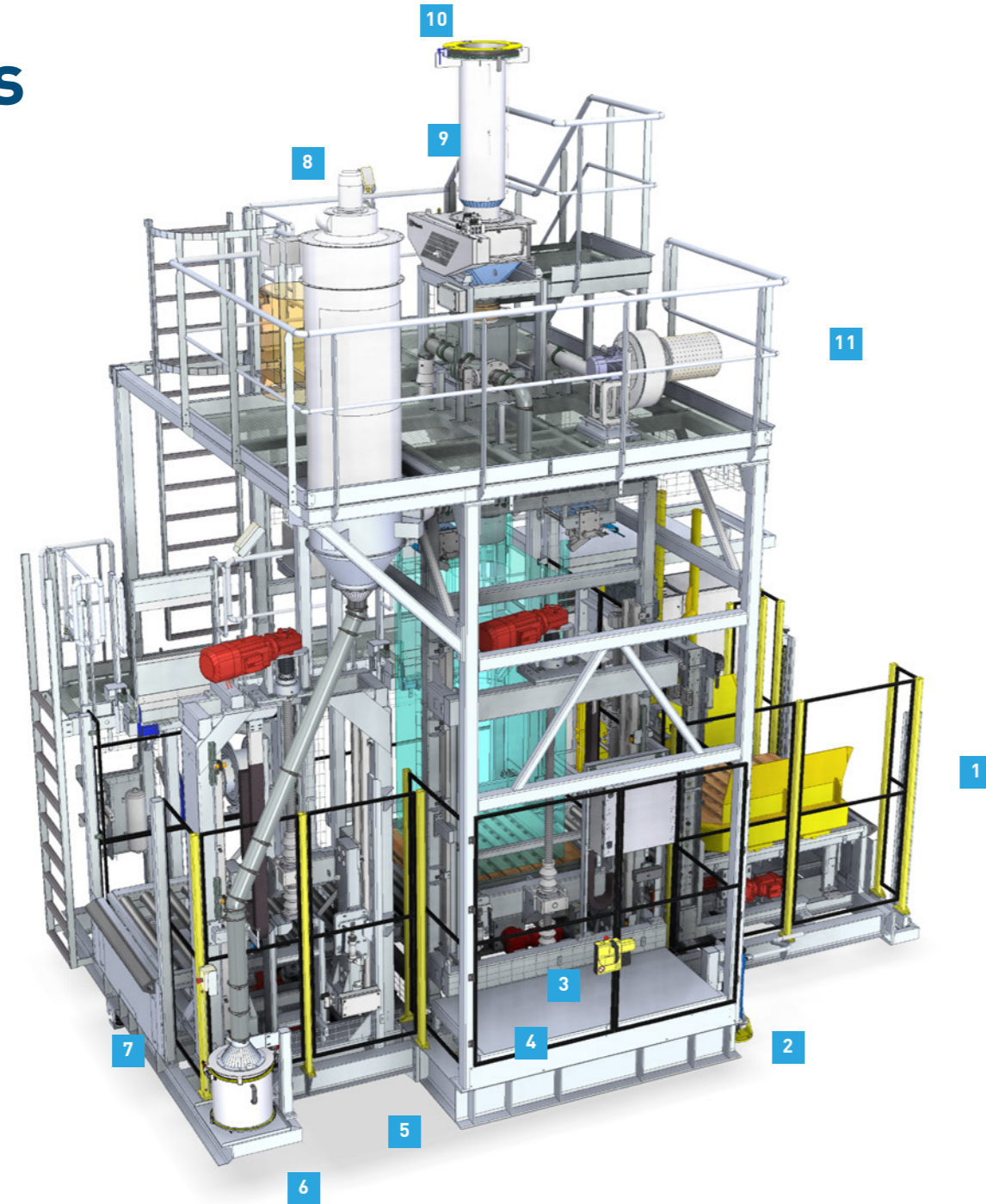
9 Intermediate infeed/outfeed position with light barrier & induction loops

10 Heavy duty working platform for access filling station and closing position

Main options:

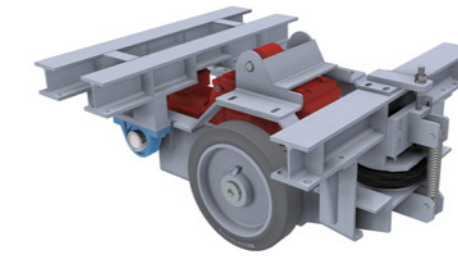
- Atex components
- Different type of dosing systems (Casque valve, Multi-position butterfly valve, etc.)
- Integration of product feeding system (screw conveyor, vibratory feeder, etc)
- Local dedusting system
- Buffer hopper
- Heat sealing system for PE and Alu liners
- Integration of stretch wrap/hood machine
- Product sampler

Mobile filling stations



LINE EQUIPPED WITH:

- 1 Pallet dispenser
- 2 Manual jack for fixation mobile frame
- 3 FIBC & octabin filling station
- 4 Motor driven mobile frame
- 5 Lift on closing position for easy closing of smaller FIBCs & octabins
- 6 Reception bin for residual product
- 7 Take-off position
- 8 Separate dedusting system
- 9 Dosing system and metal detector
- 10 Automatic docking system - pneumatically actuated
- 11 Inflating system for FIBC or octabin liner



Main options:

- Battery pack for autonomous moving of the mobile installation
- Atex components
- Mobile frame on air cushions (hover craft type)
- Non-driven mobile frame – Movable by means of towbar
- Mobile machine movable on rail(s)
- Closed mobile machine for outdoor usage

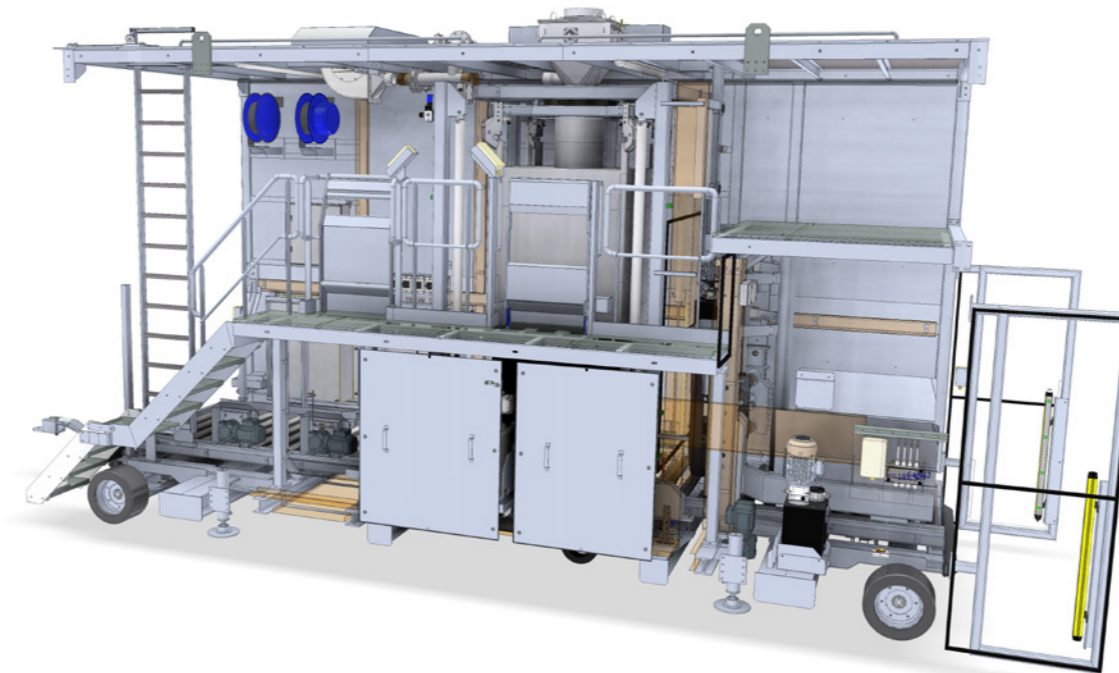


Closed mobile filling station for outdoor use



LINE EQUIPPED WITH:

- 1 Tow bar
- 2 Electrical cabinet including climate control
- 3 Hydraulic levelling feet, used in operation
- 4 Automatic docking system
- 5 Foldable guard rails
- 6 High speed roller door



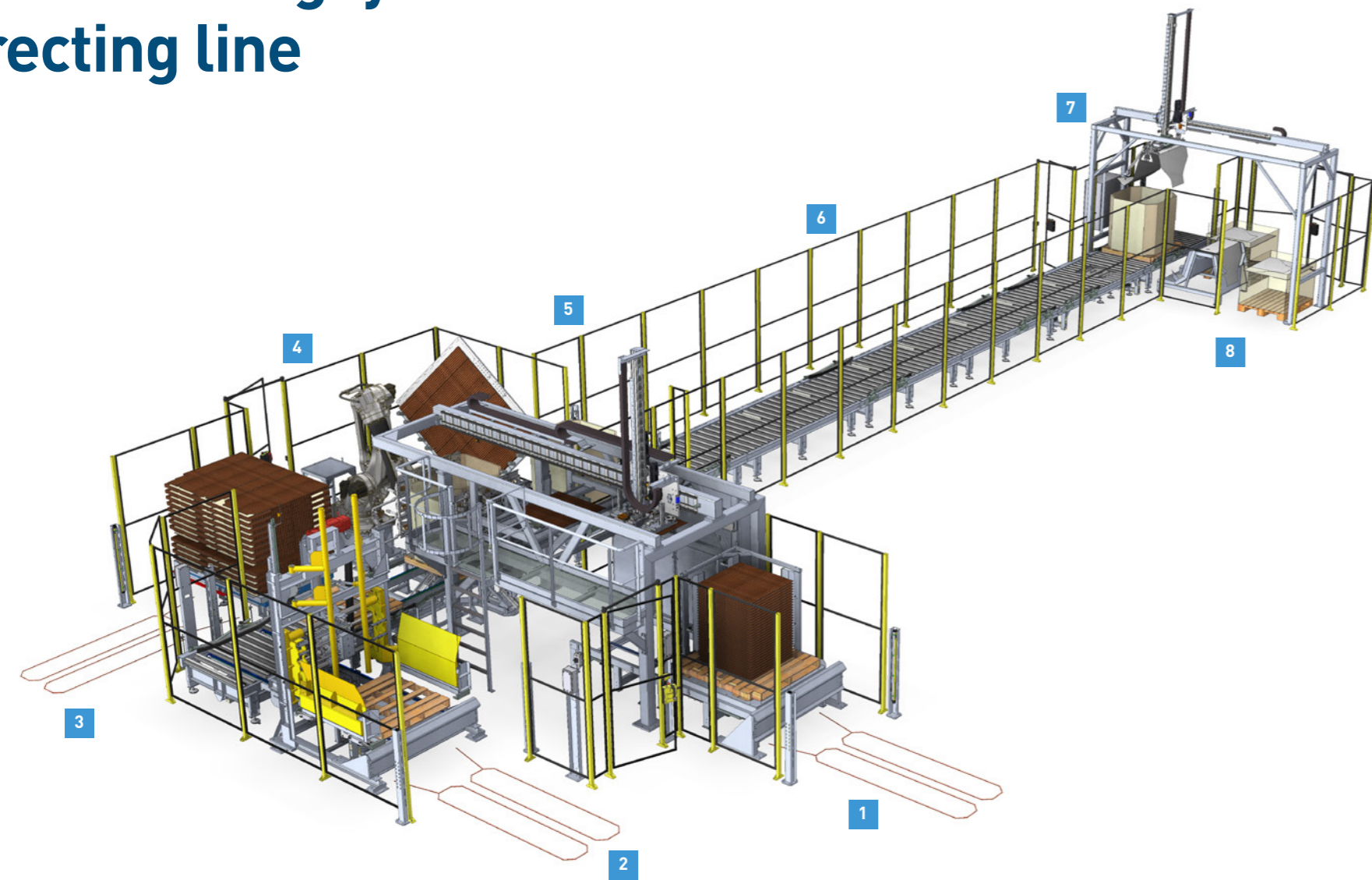
Main features:

- Compact design guaranteeing limited dimensions
- Complete line equipped with pallet dispenser, empty bigbag lay-down position, filling station, closing position, working platform, etc.
- Designed for outdoor usage
- Often used in harsh environments such as the carbon black industry

Main options:

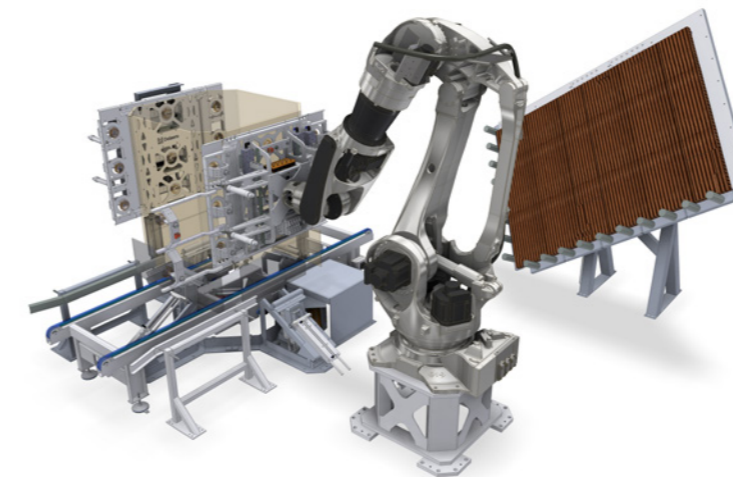
- Heating and ventilation for ergonomic operator conditions
- Manual roller door
- Motor driven movement of the filling station
- Heating of hydraulic equipment
- High efficient dedusting system for optimal operating conditions
- Additional mobile conveyor frames

Octabin and gaylord erecting line



LINE EQUIPPED WITH:

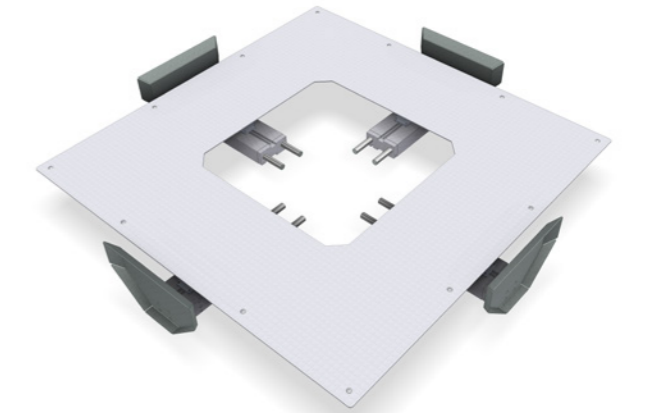
- 1 Bottom sheet infeed position
- 2 Empty pallet infeed position
- 3 Infeed position flat octabins or gaylords
- 4 Octabin or Gaylord unfolding robot



Main options:

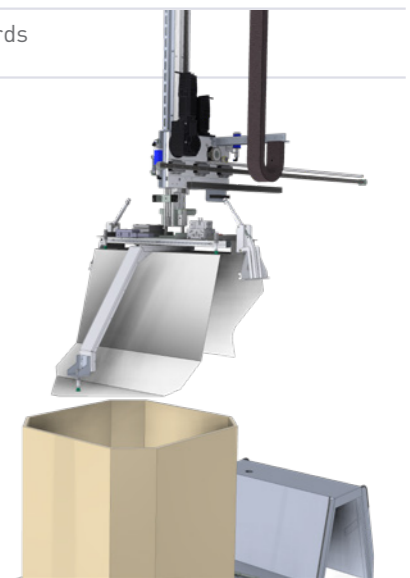
- Tailor-made system based on octabin or gaylord specs
- Stapler or glue dispenser
- Octabin or Gaylord cover folding system

- 5 Bottom sheet robot with centring system



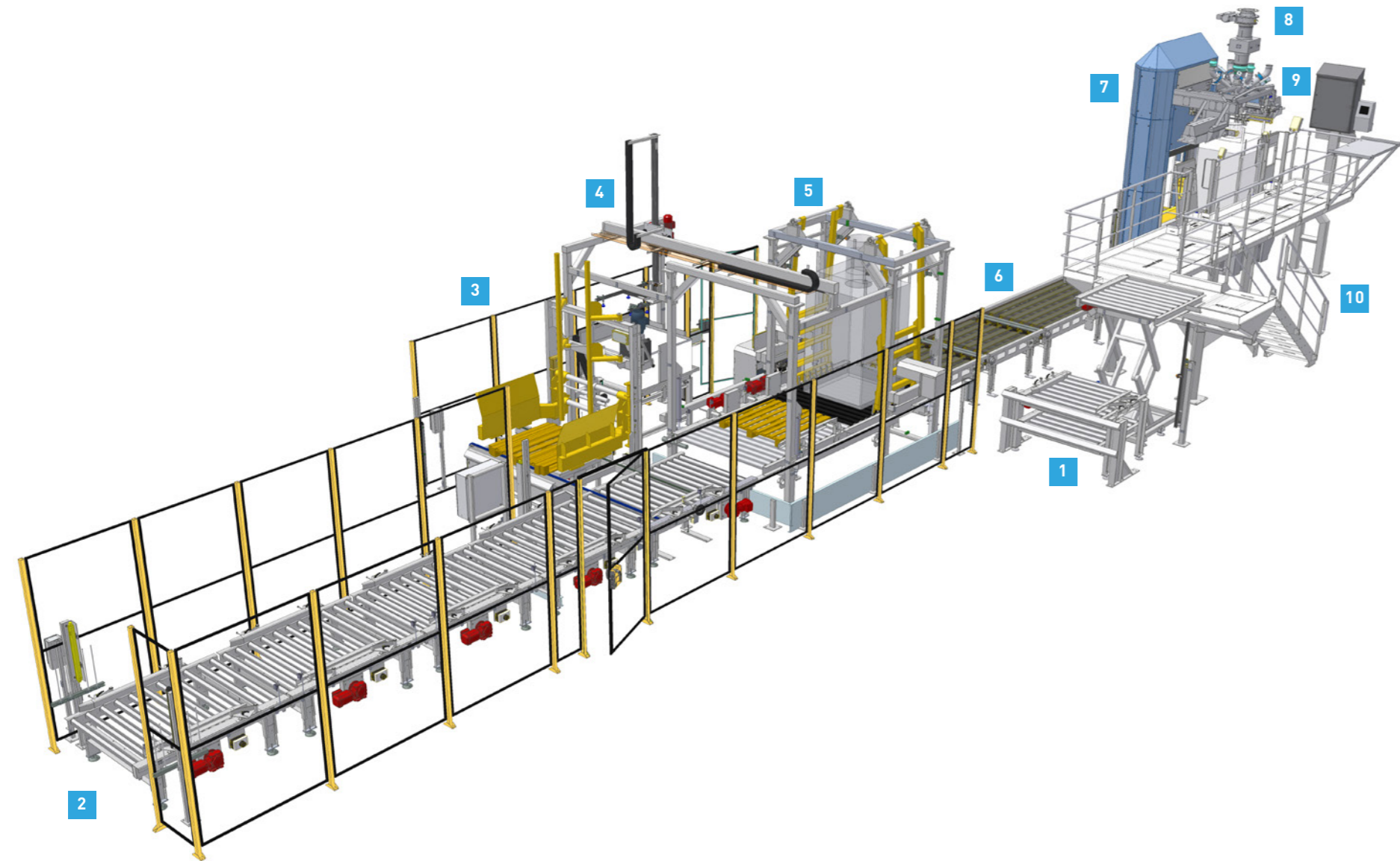
- 6 Buffer conveyors for erected octabins or gaylords

- 7 Liner insert robot



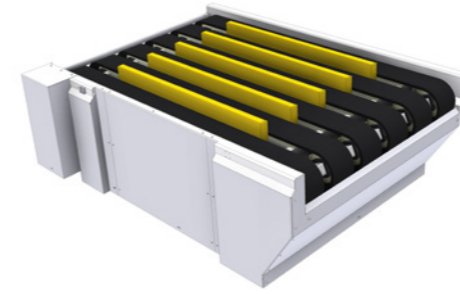
- 8 Liner infeed position

High care filling line

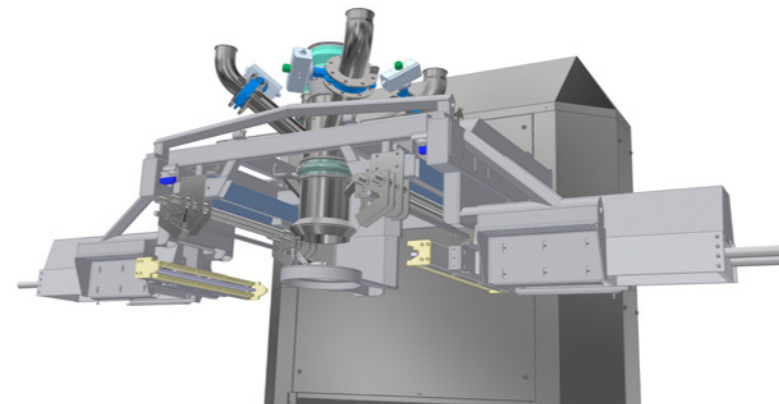


LINE EQUIPPED WITH:

- 1 Empty FIBC infeed position + empty pallet outfeed
- 2 Outfeed position of filled FIBC's
- 3 Pallet dispenser
- 4 Cardboard sheet dispenser
- 5 Bag on pallet system Gen 1 (pallet is transported toward filled FIBC)
- 6 Modular belt conveyor (including vibrating system on the filling position)



- 7 High care filling station
- 8 Dosing system and metal detector
- 9 Heat sealing system integrated in filling station for PE liner of FIBC



Main options:

- Integration of stretch wrap or stretch hood machine
- Bag on pallet system Gen 2 (filled and lifted FIBC is transported towards pallet)
- Stretch wrapping system
- Label printing system
- Electrolytic polishing of filling tube
- Product sampler

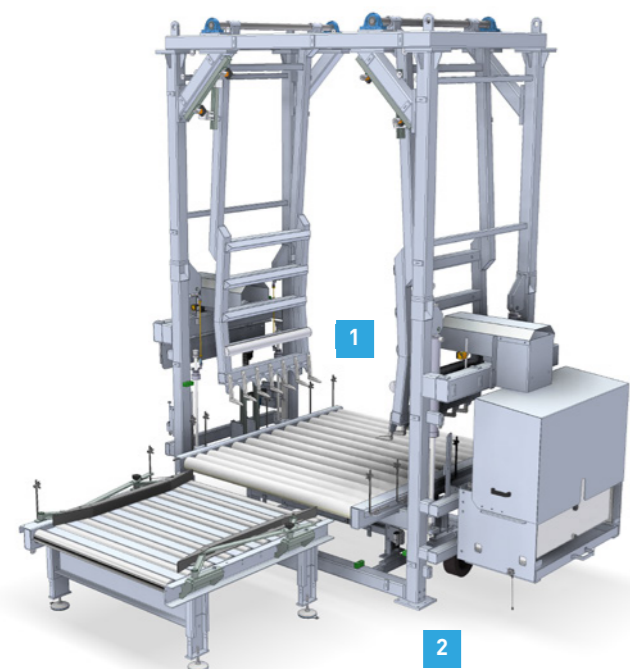
- 10 Hygienic working platform



FIBC handling and disinfection lines

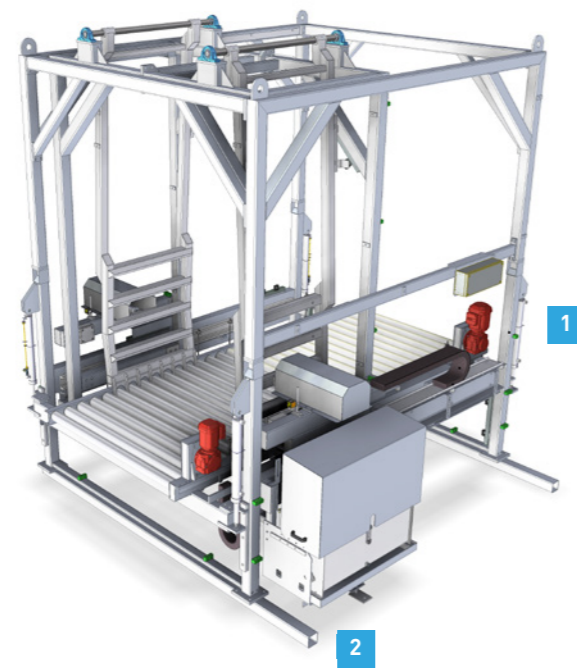
BAG ON PALLET SYSTEM GENERATION 1

The pallet moves towards the FIBC



BAG ON PALLET SYSTEM GENERATION 2

The FIBC moves towards the pallet:
no contamination



INSTALLATION EQUIPPED WITH:

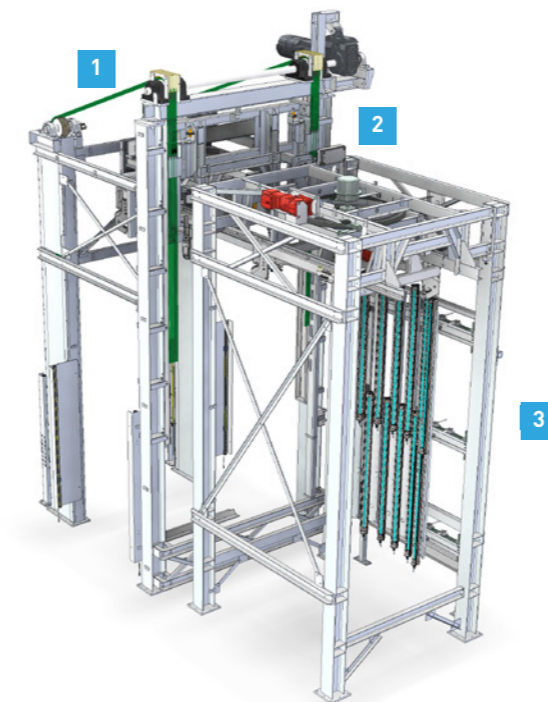
- 1 Rubberized rolls
- 2 Height adjustable roller conveyor for in- and outfeed pallet/FIBC

Main options:

- Pallet centring unit
- Distance measuring
- Gripping arms in stainless steel

FIBC DISINFECTION LINE

- 1 Lifting of FIBC towards transfer position
- 2 Transfer cart towards air lock
- 3 Disinfection station – 12 UV-lights, ensures a reduction of 1log on the bacteria's Escherichia Coli and Cronobacter Sakazakii.

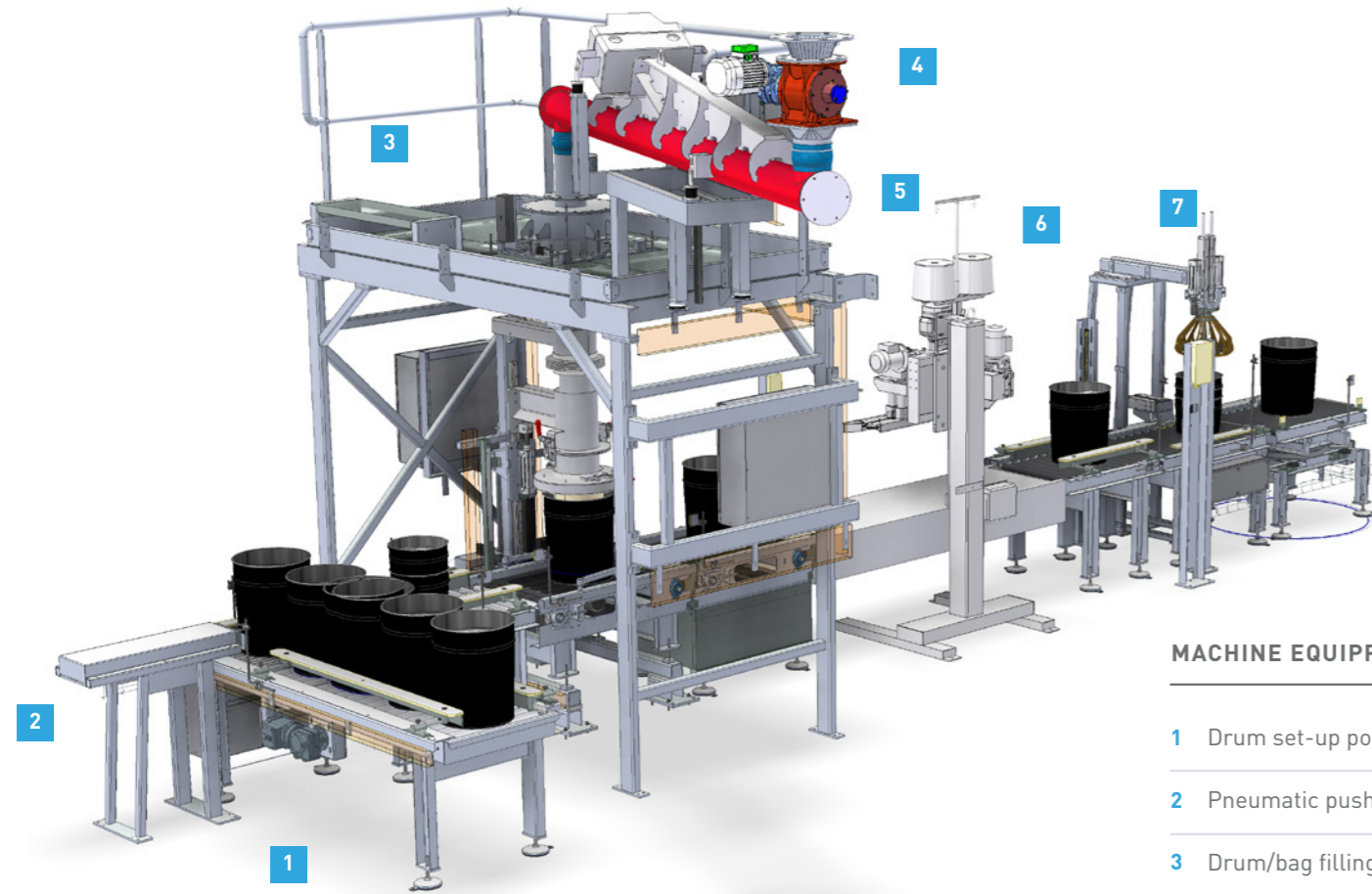


MODULAR BELT CONVEYOR

For palletless conveying of FIBCs



Drum filling line



MACHINE EQUIPPED WITH:

- 1 Drum set-up position
- 2 Pneumatic pusher for changing direction of transport
- 3 Drum/bag filling station
- 4 Rotary valve for dosed supply to the vibratory feeder
- 5 Vibratory feeder
- 6 Bag sewing installation
- 7 Drum lid clipper

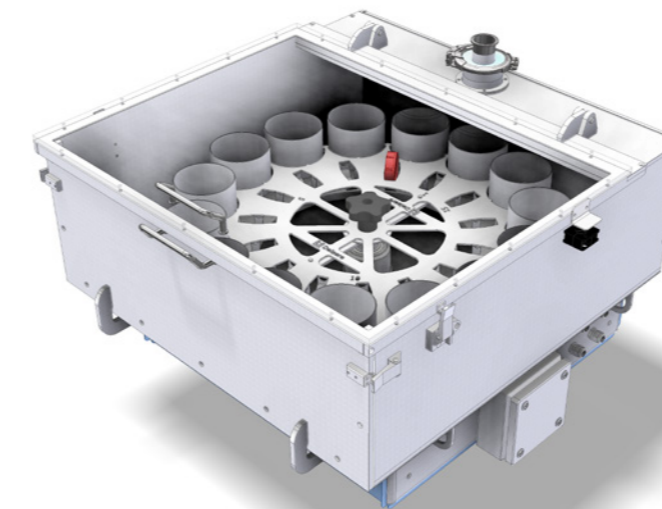
Sampling systems and carrousel



DIABOLO SAMPLER

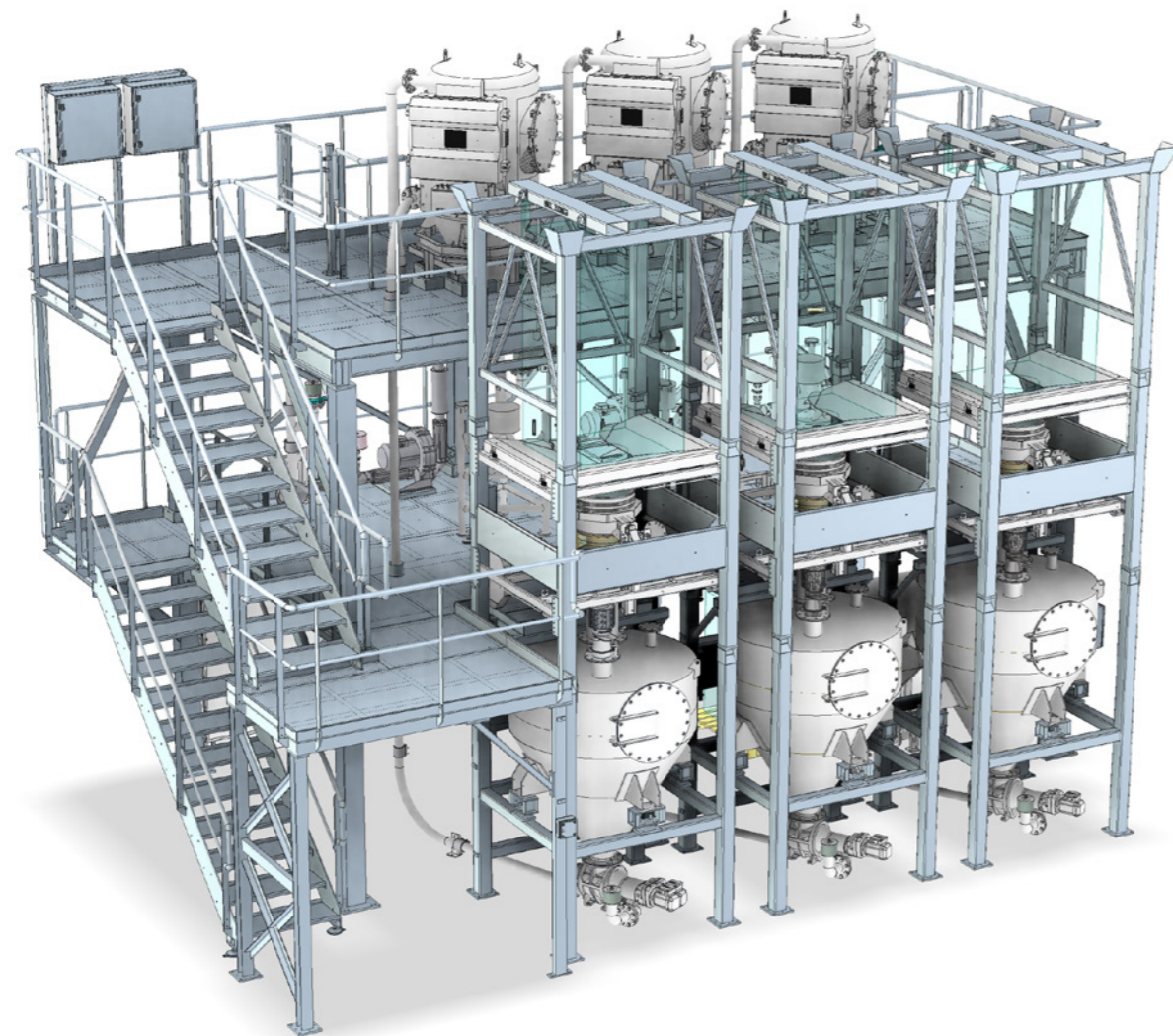
VACUÛM SAMPLER

SCREW SAMPLER



The Pattyn carrousel system allows the operator to automate the sampling system by automatically changing the receiving bottle. Up to 30 samples can be taken before any human interaction is needed.

Project integration: mixing and feeding project with pneumatic transport



Main features:

Main features and product flow sequence of the integrated components:

- FIBC unloading station
- Intermediate storage hopper
- Pneumatic conveying system from ground floor to second floor
- Storage hopper including filtering system
- Rotary valve for dosing purposes
- Loss in weight dosing system
- Mixing screw and control sieve
- Big Bag filling station
- Heavy duty steel structure with three operator levels
- Overall engineering and automation done by Delaere
- Selection and procurement of specific equipment done by Pattyn

Pattyn Bulk Packaging serves as single source partner with the customer for overall project execution

Satisfied customers



... and many more

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