

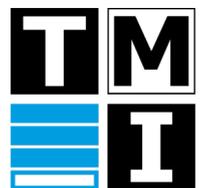
A new generation of FIBC filling



OUR PEOPLE MAKE THE DIFFERENCE

J-TEC MATERIAL HANDLING

Where hygienic design
meets technology



bagging & palletizing



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In an increasingly demanding industry it's important to stay ahead of the pack. Hygiene, quality, safety, capacity, automation, ... all of these topics are more relevant than ever on the work floor. So why aren't these combined in an FIBC filling street yet?

Well, you no longer have to search for a solution. In cooperation with TMI, J-Tec has developed the new generation of FIBC filling, the ILERBIG HC, that will safeguard all of these topics, and more!

J-Tec Material Handling

J-Tec provides **material handling and process engineering solutions** to leading players in the chemical and food industries all over the world. We design, supply, build and maintain processing systems for powders, pellets and liquids. We deliver single process lines as well as complete turnkey installations.

Our strength lies in the personal approach we bring to every single project. J-Tec is **supplier independent**, so we can guarantee a customized solution for every challenge. We don't offer a one-size-fits-all approach; instead we listen to you and use our in-house knowledge and tools to develop a tailored solution for your project.

More than just being your supplier, **J-Tec is your partner during the complete process**: starting from the conceptual design, on through detailed engineering, procurement and manufacturing, up until installation and commissioning, and if required training and maintenance.

TMI Bagging & Palletizing

TMI (Técnicas Mecánicas Ilerdenses, S.L.) is a cutting-edge company in the design, manufacture and supply of **bagging, palletizing and stretch wrapping lines**.

Founded in the year 2000, it has a professional team with over 25 years of experience in the sector.

The fact that TMI is a **manufacturer** gives them a deeper understanding of the product and allows them to deliver turn-key projects with the utmost guarantee of success, applying the most up-to-date manufacturing technologies and the latest advances in industrial automation.



Key features

Hygienic design

Hygienic design in food installations, especially in the infant nutrition and other high-value food applications, is of utmost importance to continuously have an output of high quality products and to reduce product waste and machine downtime. Avoiding product buildup & bacteria growth are key in designing a machine with optimal cleanliness. These hygienic features are found throughout our new FIBC filling street, the ILERBIG HC:

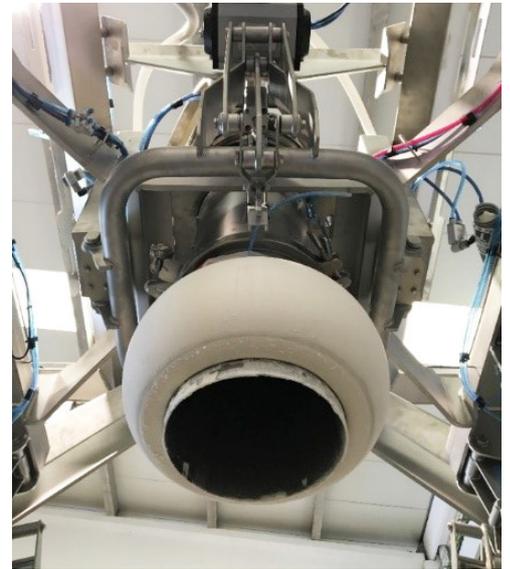
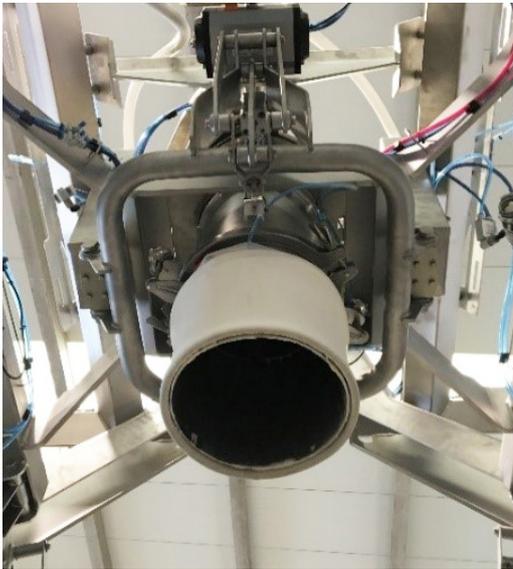


- J-Tec's easy-to-clean-and-dismantle dosing valve via tri-clamps
- Easy-to-clean inflatable seal and kickplates with protection cover (see next sections)
- 4 hygienic hooks to position the FIBC before filling - 2 movable hooks on hygienic guiding rails
- Use of diamond shaped closed profiles with continuous welds for guiding FIBC's from High Care to Medium Care – Structure with a minimum of floor supports for cleanability
- All metal parts are surface-treated – no crevices
- All cabinets: HD stainless steel with inclined roof & wall spacers to prevent dust accumulation.
- Metal-detectable cable ties and spacers between cabling and equipment to prevent dust accumulation
- Anaconda system for hygienic cabling
-





To avoid foreign materials from entering the FIBC, an inflatable seal is foreseen at the filling spout where the FIBC is filled, firmly holding the spout open during filling, yet closed from its surroundings. The inflatable seal also makes the handling of the FIBC dust-tight. At the filling spout there is the possibility to flush the FIBC with air or nitrogen.



Another major benefit is that the automatic sealing of the FIBC occurs at the same spot as the filling. This way the FIBC is already closed before transferring it, avoiding foreign materials from entering. The spout stretching mechanism prepares the spout for sealing. Afterwards, a heavy duty swinging frame with a seal-locking system automatically seals the FIBC with triple seals in just one step. Different settings are possible for optimal sealing (temperature, time, pressure). A second triple seal can be made for quality control.

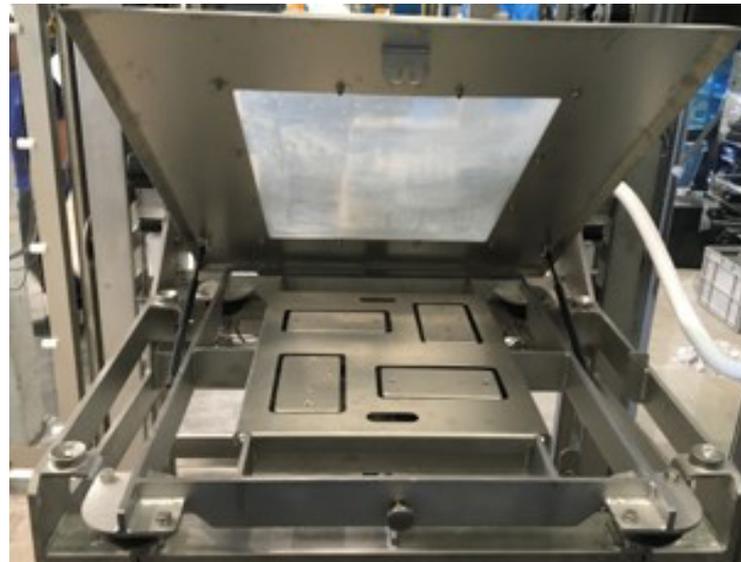


Easy-to-handle FIBC's, with an optimal filling degree

Stable FIBC's are easier to handle, easier to transport and easier to store. Improving the stability will also increase the level of safety during transport and storage. J-Tec improved the stability of the FIBC's significantly by optimizing the filling degree of the FIBC via a kickplate system. Optimizing the filling degree of your FIBC also saves you time and money as more product can be transported towards customers in the same FIBC. The ILERBIG HC gives you the most stable and profitable FIBC on the market today.



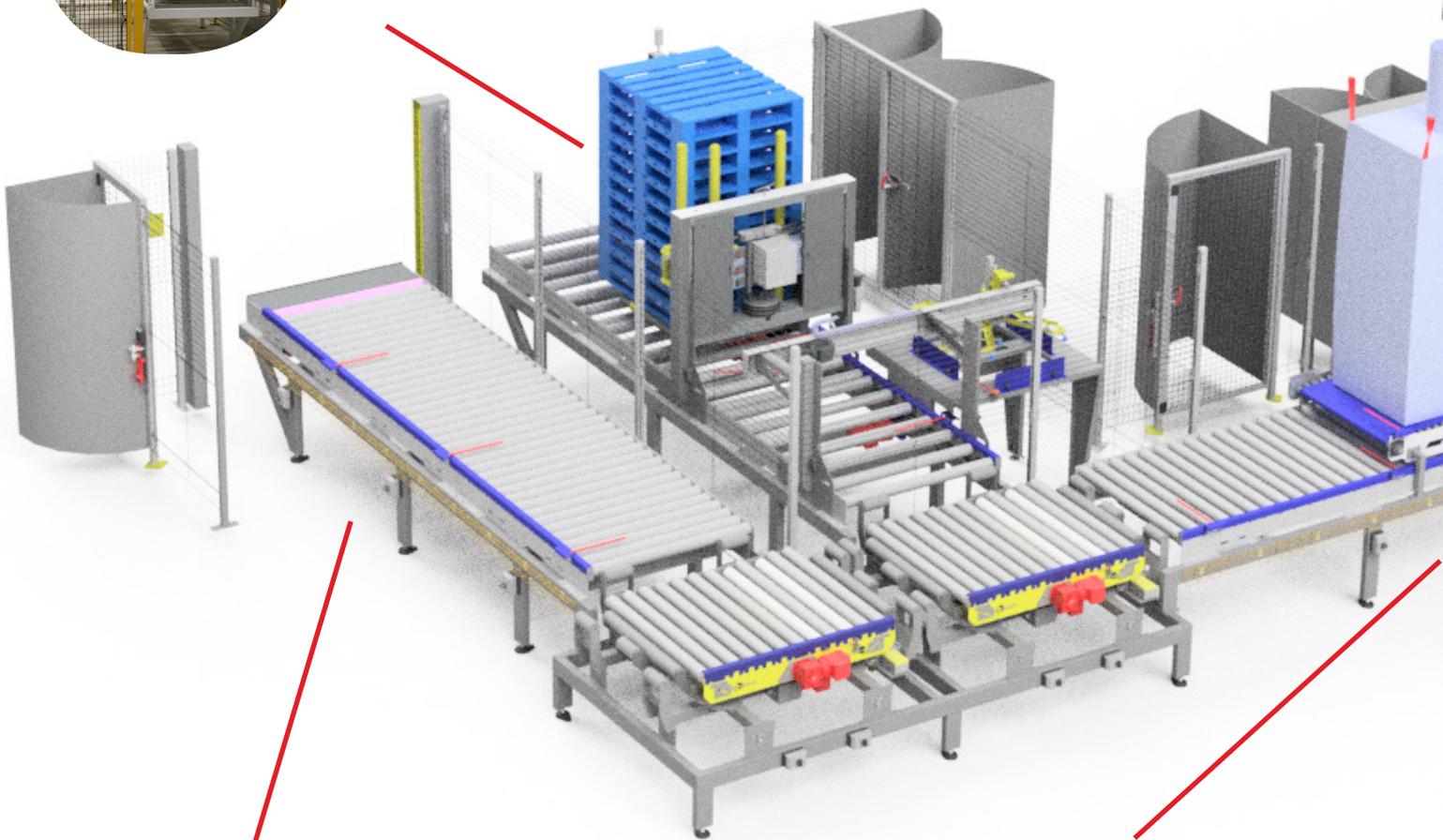
A kickplate system is in place underneath the FIBC when being filled, consisting of four separately controlled pneumatic plates to stabilize the FIBC. All sorts of kick-combinations are possible to optimize the filling degree (sequence of kicking, time, frequency & pressure). This way, the filling degree is optimized, making the FIBC more stable and easier to transport while maintaining an optimal filling degree. The kickplate system is adjustable in height, allowing the consumer to use different sizes of FIBC's if necessary.





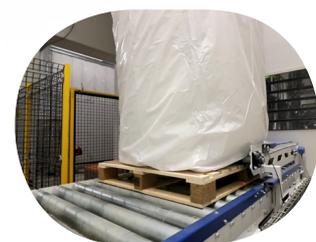
Automatic sheet & pallet dispenser

- Automatic sheet positioning on empty pallet
- Automatic pallet feeding with sheet towards marriage station
- Turntable for inline feeding of empty pallet



Storage position

- Up to 5 FIBC's

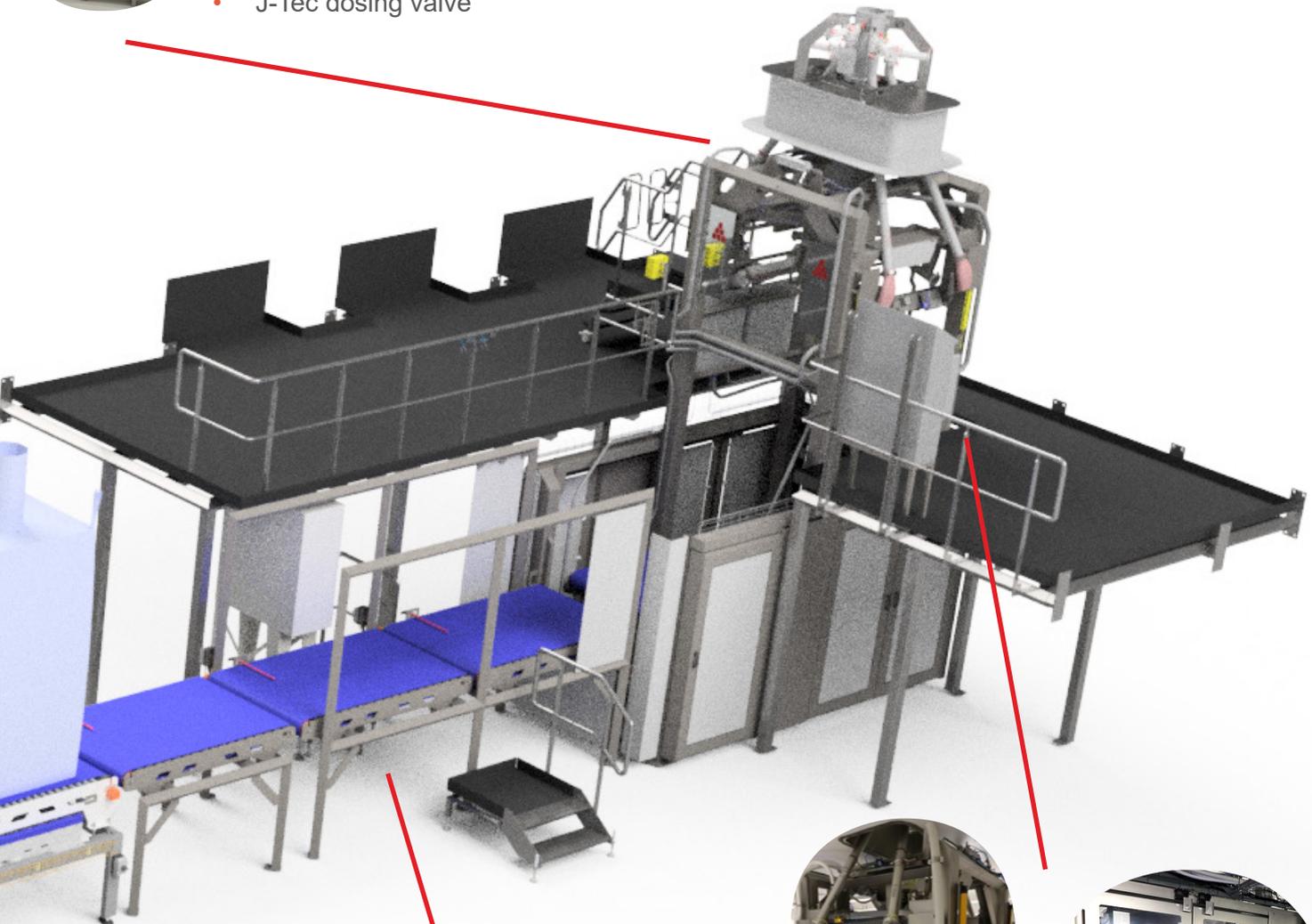


Marriage station in Low Care

- Simultaneous and precise marriage of a pallet (incl. cardboard sheet) with the FIBC
- Height-adjustable upper belt conveyor for different pallet heights

Filling area

- Inflatable seal to prevent foreign bodies from entering
- Automatic sealing bars: second triple seal possible for quality control
- Kickplate system for optimal filling & stabilization
- Automatic product sampling
- J-Tec dosing valve



FIBC transfer in High Care

- Diamond shape closed profiles with continuous welds
- Belt material in PU, FDA approved
- Each motor is equipped with individual motor switch
- Minimum of floor supports
- Safety barrier for operator protection
- Surface treatment for all metal surfaces



Safe Operator Handling

- Safety light barriers on 3 sides; safe access of the FIBC filling position
- Fold-down platform that allows the operator to safely & ergonomically position a new FIBC
- Large doors for easy access
- Secured doors during operation



Options

Increasing the shelf life of the product via post-gassing

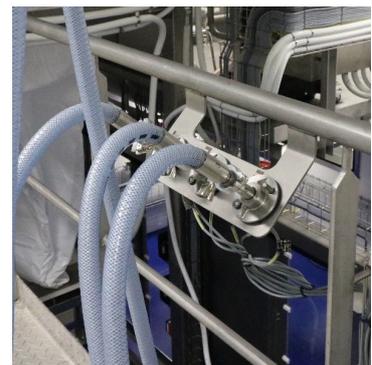
Replacing oxygen with nitrogen gives the manufacturer many benefits, such as: increased shelf life, reduced waste product and product returns, better product distribution, etc.

There are 3 gassing positions on the FIBC conveyor street in High Care. Each gassing position has a flexible hose which can be connected to the FIBC. This way 3 FIBC's can be filled with nitrogen simultaneously. Gassing occurs in 2 steps. In the first step, air is extracted out of the FIBC via a flexible hose in order to compact it. In the second step the same flexible hose will fill the FIBC with nitrogen, improving the shelf life drastically.



This option includes following features:

- Skid for 3 FIBC's, simultaneous gassing
- Stainless steel FIBC double belt conveyor
- Stainless steel FIBC single belt conveyor
- FIBC gassing couplings incl. flexible hoses



Automatic labeling of FIBC

Labeling is essential to identify products. Via labels extra information can be provided to the customer about the product. Via automatic labeling you gain operator time.

This option includes following features:

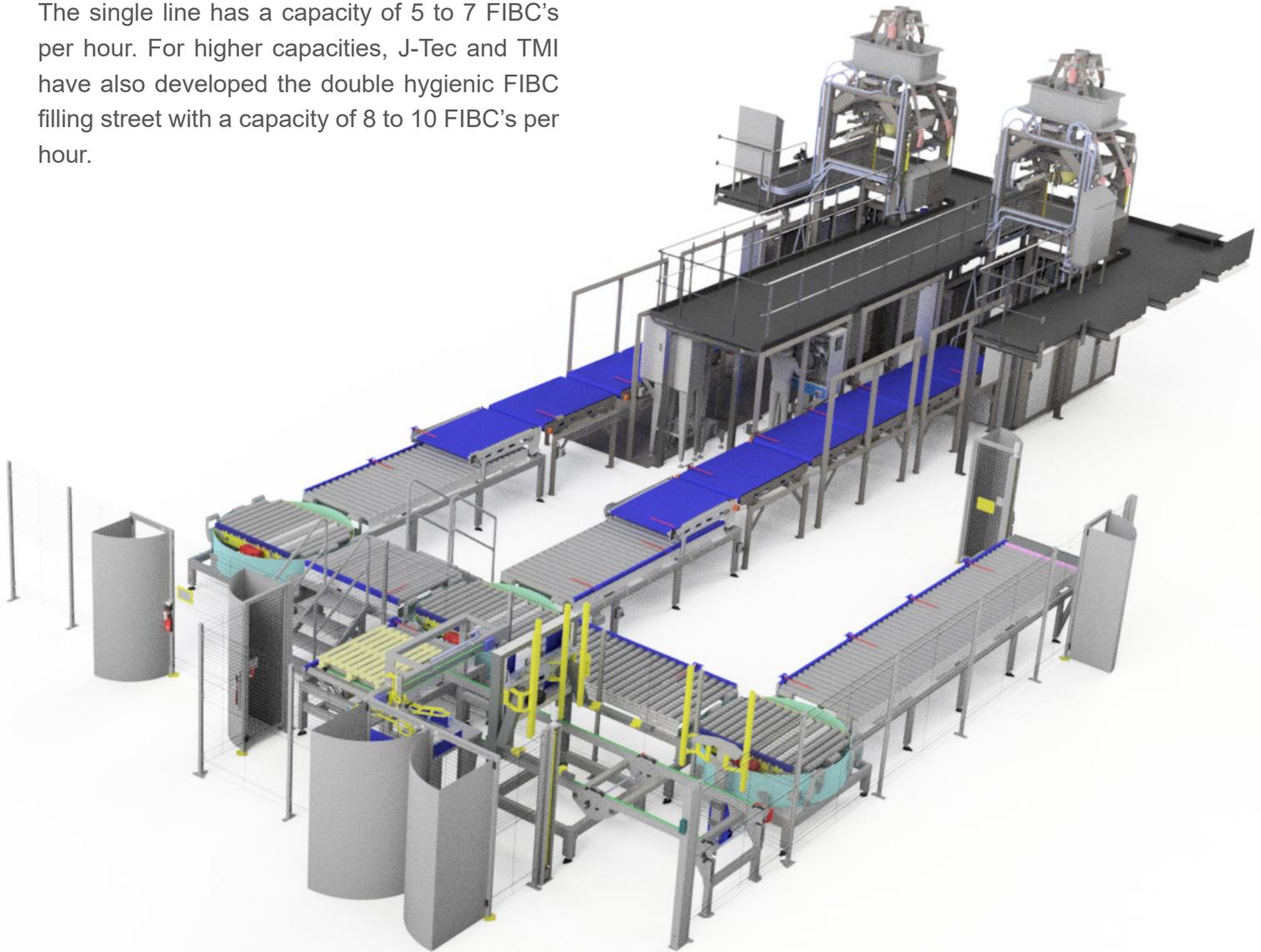
- Automatic A5 label printer Domino
- Stainless steel operator platform
- Stainless steel FIBC belt conveyor





Increase your capacity

The single line has a capacity of 5 to 7 FIBC's per hour. For higher capacities, J-Tec and TMI have also developed the double hygienic FIBC filling street with a capacity of 8 to 10 FIBC's per hour.



Single Line

5 - 7 FIBC's per hour

Different FIBC sizes possible

Footprint installation:
6.2m x 17.9m x 9.9m

Double Line

8 - 10 FIBC's per hour

Different FIBC sizes possible

Footprint installation:
6.2m x 22.7m x 11.65m



EHEDG & 3A

Consumers worldwide are increasingly sensitive to the quality of the products on the market. Good manufacturing practices and avoiding cross contamination, foreign body contamination and microbiological contamination – is essential in the food and beverage industries.

Our HACCP know-how, our mania for tracking & tracing of ingredients and our close cooperation with EHEDG and 3A: all these make J-Tec a reliable partner for companies that want to fulfill the wishes of demanding consumers.

Our engineers build creative solutions with a high standard of hygiene, operator safety and OPEX/CAPEX balance, but also fulfilling and guaranteeing the expected process performance.



HSEQ

J-Tec has an integrated and certified HSEQ management system. Internal audits are held on a regular basis to ensure that the procedures and quality management system are known and applied throughout the company.





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Worldwide presence and references

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