



J-TEC
FOOD INGREDIENTS



OUR PEOPLE MAKE THE DIFFERENCE

J-TEC MATERIAL HANDLING

ABOUT J-TEC

WHAT WE DO

J-Tec Material Handling offers tailored material handling and process engineering solutions to key players in the chemical and food industries worldwide. Our expertise includes the design, supply, construction, and upkeep of processing systems handling powders, pellets, and liquids. Whether you need a single process line or a complete turnkey installation, we've got you covered.

A PERSONALISED APPROACH

Our unique strength lies in our personalised approach to each project. We don't believe in one-size-fits-all solutions. Instead, we carefully listen to our clients, leveraging our in-house expertise and tools to craft bespoke solutions for each project.

J-Tec is your dedicated partner throughout the entire process, starting from conceptual design to detailed engineering, procurement, manufacturing, installation, commissioning, and even training and maintenance if needed.

SUPPLIER INDEPENDENT

Working with J-Tec comes with the significant advantage of supplier independence. We understand that each project demands a custom approach, so we select vendors based on your specific requirements. This way, we can ensure the best solution for your tailor-made installation.

STRENGTHEN YOUR MARKET POSITION WITH CUSTOMISED ENGINEERING SOLUTIONS

At J-Tec, our unwavering focus on niche markets equips us with an in-depth understanding of our customers. This, in turn, empowers us to deliver highly tailored solutions and services across the entire project lifecycle.

This strategic approach yields numerous advantages, including heightened expertise, enhanced problem-solving capabilities, and a deeper comprehension of our customers' unique requirements.

J-TEC: PART OF KATOEN NATIE

Katoen Natie develops tailor-made logistic and engineering solutions for its customers' products. The combination of engineering, technology, logistics and semi-industrial activities result in strong concepts each time. J-Tec Material Handling is one of Katoen Natie's independent business units.

TURN-KEY PROJECT ENGINEERING EXPERTISE

With Katoen Natie's extensive experience and dedicated team, we offer comprehensive concepts that stand out. Collaborating with the Supply Chain Engineering business unit, we have the capability to execute complete greenfield projects, resulting in a one-stop-shop for our clients.

FOOD

The significance of product quality is escalating globally for consumers. It's evident that adhering to good manufacturing practices and preventing contamination is imperative in the food and beverage sectors.

J-Tec, a dependable partner, excels in HACCP expertise, diverse ingredient tracking methods, and collaborative efforts with EHEDG and 3A as per industry standards.

Our food engineers ensure the design and construction of customised solutions, upholding a stringent standard of hygiene, prioritising operator safety, and maintaining a balanced approach to OPEX/CAPEX—all while guaranteeing the anticipated process performance for our customers.



FOOD INGREDIENTS

At J-Tec Material Handling, we understand that the quality of your final products hinges upon the superiority of the ingredients used, including their flavour, texture, colour, and nutritional content.

Within our Food Ingredients niche, we prioritise collaborating with B2B manufacturers who share our dedication to meeting consumers' demands for unparalleled quality and functionality. Our commitment extends beyond merely supplying ingredients; we strive to be your trusted partner in culinary excellence.

Leveraging our extensive expertise in designing and constructing process installations for leading A-brand producers in the food industry, J-Tec integrates advanced knowledge in handling an extensive array of products. From starches and sweeteners to milk powders, cocoa, yeast, flavours, sugar, spices, flours, oils, and fats, our proficiency ensures that each ingredient is handled with precision and care.

We take pride in delivering high-end process installations that redefine industry standards across the entire food chain. With our comprehensive solutions, you can trust that every aspect of your production process is optimised for superior quality and efficiency.





MASTERING PREMIX PRECISION WITH J-TEC

In today's ever-evolving food industry, the production of premixes has become crucial for companies seeking agility and responsiveness. Whether it's for bakery products, spices, herbs, or pet food, precision in dosing and homogenisation is essential for delivering a diverse product range. At J-Tec, we offer state-of-the-art systems that ensure accurate dosing, thorough blending, and seamless processing to meet the demands of various products.

We understand the significance of maintaining the highest purity and hygiene standards. That's why our installations are designed to minimise cross-contamination and adhere to EHEDG standards rigorously. With rapid changeover capabilities and Clean-in-Place (CIP) technology, our solutions are optimised for efficiency and ease of cleaning, ensuring minimal downtime and maximum productivity.

At J-Tec Material Handling, we offer innovative solutions tailored to meet the unique demands of diverse products.

UNLOCKING THE POWER OF STARCH & SWEETENERS

Starch, a versatile carbohydrate derived from plants, is a fundamental component found in numerous everyday food and non-food items. Whether you seek industrial starch solutions or wish to develop clean label modified starches, J-Tec stands ready to provide tailored assistance, offering specific process solutions and turnkey installations.

Lactose and sweeteners constitute a product group marked by its diverse range of products and associated requirements. This spectrum spans from high-volume, lower-value items to low-volume, high-value specialty products, with considerations ranging from basic hygiene standards to pharmaceutical-grade conditions necessitating meticulous washing via WIP/CIP protocols.

Effective integration of processes such as drying, milling, or dissolving is crucial, and adept management of interfaces between these stages is necessary for success. Our expertise positions us as your reliable partner in delivering turnkey solutions tailored to your specific needs. Whether you operate within high-volume production or specialise in low-volume, high-value products, count on us to provide optimal solutions that perfectly align with your distinct requirements.



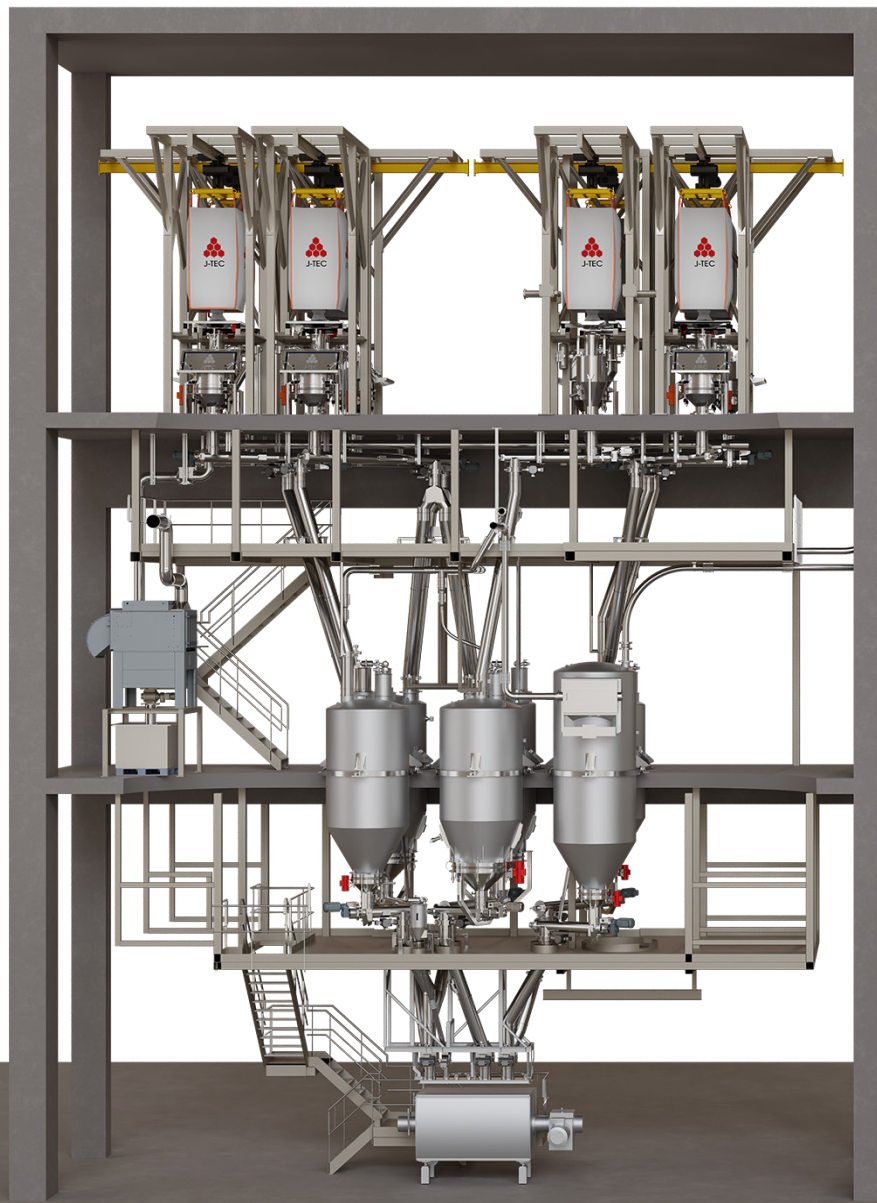


INDULGE IN CHOCOLATE EXCELLENCE

At our Belgian company, we cherish our heritage, channeling our expertise to serve the finest chocolate producers worldwide. Producing high-quality chocolate requires finesse, especially when handling complex ingredients like sugar, cocoa, milk powders, and fats. This is where J-Tec excels, drawing on years of experience to engineer bespoke solutions tailored to your needs.

When envisioning the ultimate chocolate or biscuit manufacturing machine, our team of skilled engineers carefully considers every aspect of your chocolate production process. From ingredient selection and precise dosages to meticulous blending and sieving techniques, our approach is comprehensive, aimed at optimising your production line's efficiency.

Hygiene, an integral component of all chocolate and food manufacturing, is given utmost priority in our design process. Our highly trained and experienced engineers are committed to meeting your exacting standards for quality, hygiene, and safety in the creation of your tailor-made, efficient machines. Experience a seamless chocolate production journey with our assurance of optimal product handling at every stage.





UNLOCKING PROTEIN POTENTIAL

The ever-evolving protein market, where shifting consumer demands and a burgeoning population drive exploration into novel protein sources. From plant-based alternatives to upcycled waste streams and unconventional options like insects or algae, the quest for sustainable protein solutions knows no bounds. At J-Tec, we specialise in navigating this intricate landscape, offering expertise in material handling and turnkey installations to facilitate seamless transitions and unlock the full potential of protein innovation.

Our experience extends to handling a variety of materials and facilitating seamless transitions within your production processes. From concept to completion, we offer tailored solutions to optimise your protein shifting production.

From conceptualisation to execution, we empower you to harness the full potential of protein processing, including extrusion and beyond. With our adaptable approach, we ensure your operations remain agile, poised to embrace new opportunities and propel your business forward, promising a future of endless possibilities.

STORAGE SILOS & RECEPTION TANKS

Raw materials (powders or liquids) may be intended for immediate use, but can also be stored in silos or other intermediate facilities before being used for production. Depending on your product's needs, these facilities can be equipped with additional features such as insulation or dry air blanketing for the conditioning of the stored products like drying, cooling, heating and more.



EXPERT DISCHARGING SOLUTIONS

Discharging materials is a crucial step in various process handling scenarios. At J-Tec, we understand the significance of this process and offer tailored solutions to meet your specific needs. Our expertise covers a range of material delivery methods, including Big Bags®, bags, drums, bulk trucks, containers, and octabins. With years of experience under our belt, we ensure efficient and effective handling of your raw materials.

Discover our specialised solutions designed for handling even the most challenging products, such as our BigBag unloading station with pushers.

The unloading station easily adapts to different product types with its movable design, ensuring seamless operation. It integrates effortlessly into existing setups and can be combined with multiple pushers per station for enhanced productivity. Powered by compressed air, guaranteeing optimal performance and reliable operation. The unloading station is food-safe, meeting the highest industry standards. Equipped with a 2-hand control system, the station prioritises operator safety and provides a secure working environment.





TURNKEY GREENFIELD PROJECT EXECUTIONS

DESIGN & BUILD PLANT LAYOUT

J-Tec's dedicated in-house design department has an array of specialised skills and state-of-the-art facilities to design and build entire process plants. In collaboration with Katoen Natie's business unit 'Supply Chain Engineering', we have the capability to tackle ambitious greenfield projects from inception to completion.

Our use of cutting-edge 3D technology revolutionises the way we approach plant layout and construction. This tool allows us to visualise and assess the ever-evolving dynamics of personnel, product flow, and waste management well before the physical plant construction begins.

Moreover, our 3D technology plays a crucial role in facilitating the qualification and validation phases, including Installation Qualification (IQ), Operational Qualification (OQ), and Performance Qualification (PQ).

J-TEC TEST LAB

J-Tec's test facilities offer a multitude of research possibilities for your products. The main goal of these facilities is to offer you the opportunity to simulate real-life situations in order to ensure new installations and processes will function as planned.

Our R&D facilities, located at our headquarters in Kapellen, Belgium, are at your disposal in order to find the most appropriate solutions for your requirements. We make sure that your product is handled in the best way possible and that your investment will pay off!

INSTALLING

An installation has to be build exactly according to plan. J-Tec has Lloyd's SHE (Safety, Health & Environment) certification, which guarantees the highest level of quality and safety.

We also meet the requirements of the Safety Checklist for Contractors (SCC), ISO 9001 and ISO 45001 in order to support the business in working effectively, efficiently and safely. Our SCC certificate has registration number 650830.





COMMISSIONING & START-UP

Over the course of several years, our team of highly experienced commissioning engineers has built up a wealth of invaluable hands-on expertise of a wide spectrum of key equipment types and brands within your industry. Our primary objective is to ensure the seamless commissioning of your process line, testing each component's performance in strict adherence to the initial design specifications before officially handing over the completed installation.

Our commitment extends beyond the mere commissioning process itself; we meticulously manage our timeframes, ensuring that all equipment is commissioned accurately and promptly, aligning with your project schedules.

Additionally, as we recognise the importance of specialised training to maximise the effectiveness of your staff in operating and maintaining the equipment, we also offer training where needed.

In our pursuit of excellence, we go the extra mile by proactively preparing for potential installation and process optimisations. Our proactive approach ensures that any opportunities for enhancing system efficiency and performance are identified and addressed.

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