



OUR PEOPLE MAKE THE DIFFERENCE

J-TEC MATERIAL HANDLING

Process solutions for the  
food & beverage industries



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**J-TEC MATERIAL HANDLING**

J-Tec Material Handling designs, supplies, builds and maintains processing systems for powders, pellets and liquids. From single process lines to complete turnkey installations, our material handling and process engineering solutions are provided to leading players in the chemical and food industries all over the world.

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**Do you want to strengthen your market position with high-value and tailor-made engineering solutions?**

J-Tec focuses on niche markets so we can really understand our customers, and are able to provide them the most optimal solutions and services throughout the complete process. This strategy provides many benefits, such as a higher level of expertise, improved and tailored **problem solving** capacities and a better understanding of our customers' needs.





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# Food

Product quality is becoming increasingly important to consumers worldwide. Good manufacturing practices and avoiding contamination is essential in the food and beverage industries.

HACCP expertise, mania for track & tracing of ingredients, and close cooperation with EHEDG and 3A: these make J-Tec a reliable partner for companies that are looking to fulfill the wishes of their end consumers.

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



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## Food Ingredients

High quality food ingredients, free of any kind of contamination, determine the quality of final products, such as healthy infant nutrition or the finest cookies, snacks and sweets. For designing and building installations that produce ingredients, J-Tec combines its expertise in building process installations for A-brand producers in the food industry, and its knowhow in handling products such as lactose, starches, yeast, flavors, sugar, spices, flours, oils, and fats. We deliver high-end process installations throughout the entire food chain.



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## Infant Nutrition

Adapted nutrition in the first three years of life is critical for lifelong health. To produce the highest quality of infant nutrition, you need a partner with the right expertise.

Every day, our engineers deal with designing and building validated process solutions for manipulating, dosing, blending, sieving and sampling the different ingredients, while paying attention to cleanability to avoid any kind of contamination.

Thanks to its worldwide references, J-Tec is considered a market leader in building turnkey blending installations for infant nutrition.



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## Snacks & Baked Food

Producing the finest biscuits, cookies, chips, cereals, pizzas or bread starts with the preparation of a perfect dough. The baked dough in combination with a cream, seasoning or a chocolate layer makes a snack unique.

Our engineers are experienced in setting up concepts for the automation of the storage, sieving, dosing and blending of ingredients like flour, starch sugar, salt yeast, oils and fat for producing dough and cream in a lean but hygienic way.





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# Technologies

Techniques can vary according to industry, product characteristics, and so on. Our customers' product expertise combined with J-Tec's knowhow in technology guarantees the leanest and most efficient product handling during every stage of the production process.

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## Reception, Storage & Conditioning

As quality control is becoming even more crucial for production facilities, we include techniques such as sieving, magnet traps, and metal detection along with validation by sampling the inbound and outbound products. Product loss is reduced by:

- Optimizing the way of storage (silos, containers, tanks)
- Avoiding product degradation during storage by controlling the atmospheric conditions around the product (drying, heating, cooling)
- Defining the optimal extraction system

Furthermore, J-Tec develops devices for filling bags, (F)IBC, octabins, or bulk trucks with a high capacity and minimum of dust or waste creation.



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## Cleaning

Both the chemical and food industry are confronted with higher demand for flexibility and shorter change over times. A well-selected cleaning methodology such as dry cleaning, washing in place (WIP) or cleaning in place (CIP) has a huge impact on the total operation costs (OPEX).

Our experience in building installations and analyzing the operational costs allows us to create optimal solutions. Accessibility and cleanability of installations are elements we already take into account during the conceptual design phase.

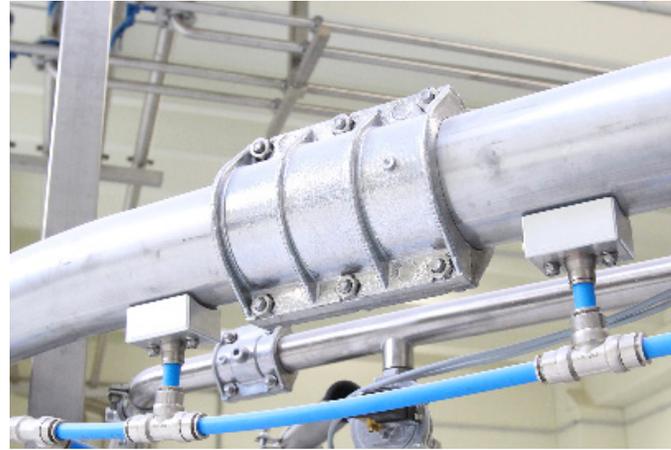


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## Conveying

A production process is made of different steps, most of which are physically separate from each other. Nevertheless, intermediate products need to be transported with minimum degradation. J-Tec has vast experience in common solutions such as mechanical transports (screws, vibratory trays, conveyor belts, AGVs, etc.), pneumatic transport for solids and pumps for liquids.

J-Tec has a well-equipped test center at its headquarters, with capabilities in over- /under pressure systems, both in dense and dilute phase.



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## Dosing & Weighing

Continuous or batch, volumetric or gravimetric, loss-in-weight or gain-in-weight ... Accurate dosing for recipe preparation or control weighing for stock management all require different weighing systems.

J-Tec is able to guarantee optimal design of the weighing and dosing concept, thanks to its specific expertise in dosing and weighing and its test facilities for trials with liquids or solids.



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## Mixing & Blending

Blending powders with powders and mixing liquids with powders, or liquids with liquids is a frequent activity in the solid and liquid business.

Batch size, cleanability of the mixer, energy needed to create a homogeneous mix, continuous or batch are a few parameters to determine which mixer best suits a particular application. We select the right blender or mixer based on your product expertise and our knowhow in the existing technologies, tested in our lab, to guarantee the best solution.





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## Worldwide presence and references

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