

The Best Solutions In Material Handling



J-Tec Material Handling creates solutions for storing, handling, dosing and processing dry and liquid ingredients.

Solutions can extend from optimizing components, to plant upgrades... to turnkey processing lines.



OUR PEOPLE MAKE THE DIFFERENCE

J-TEC MATERIAL HANDLING

J-Tec in your production flow

RECEPTION AND STORAGE



Bag dumping unit



Container handling



Big Bag® discharge station



Liquid tanks

RECEPTION

Raw materials can be delivered in different ways: in bags, Big Bags®, drums, bulk trucks, containers or octabins. J-Tec has the necessary equipment and expertise to handle all of these. Various unloading aids may be used, such as vibrating bottoms, fluidization or special discharge cones.

STORAGE

Sometimes the materials may be intended for immediate use, but on other occasions they may have to be stored in bulk until called for production. In this case they may be stored in silos or other intermediate facilities, complete with any special equipment required such as insulation, heating or cooling.

Once called for production, the materials are transported to the place of handling in the appropriate manner.

CONVEYING



Mechanical conveying



High pressure dense phase conveying

CONVEYING

Frequently the production processes are spread over a large area, resulting in the need for conveying systems, both horizontal and vertical.

Mechanical conveying

- Screw conveyors
- Vibratory feeders
- Elevators (disk and cup)
- Chain conveyors

PROCESSING



Liquids conveying



Loss-in-weight feeders



Sieving



Vacuum conveying with integrated weighing



Gain-in-weight



Milling

Pneumatic conveying

- Pressure and vacuum conveying, in a continuous or discontinuous system
- Vacuum conveying with integrated weighing
- Blowers, high-pressure blowers, vacuum pumps and compressors
- Pressure vessels
- Rotary valves
- Bunkers, separators
- Switch valves, etc.

DOSING & WEIGHING

If accuracy, consistent recipe and repeatability are important, we can offer a range of solutions for continuous and discontinuous processes. If required, data can be recorded to comply with ISO specifications.

Gravimetric

- Batch weighing
- Continuous weighing
- Flow meters
- Belt feeders, loss-in-weight feeders

Volumetric

- Single screw and twin screw feeders
- Vibratory feeders
- Belt feeders

SIEVING

Sieving is becoming more and more important in process installations. Continuous quality control during the process flow requires extra control points. J-Tec offers various sieving technologies: rotary sieves, vibratory sieves, plan sifters and wind sifters.

GRINDING & MILLING

In some installations, particle size reduction is a required part of the process flow.

J-Tec offers solutions ranging from heavy duty crushing to micronizing.

PACKAGING



Paddle mixer



Extruder in the compounding industry



Big Bag® filling installation



Dissolving



Central dedusting installation



Palletizing installation

BLENDING & MIXING

The requirement for homogeneous, uniform products demands intensive mixing, with or without heating or cooling. J-Tec offers:

- Vertical and horizontal mixers
- Warm/cold mixers
- Cone-shaped mixers
- Mixing silos: static or mechanical
- Container and drum mixers

Dispersing and dissolving

For dissolving solids into liquids, or dispersing particles throughout another medium, J-Tec can help you with the appropriate equipment.

EXTRUSION

Whether you are interested in revamping existing extrusion compounding processes or want to invest in new production, J-Tec can call on years of experience.

ENVIRONMENTAL PROTECTION

J-Tec offers a variety of solutions for maintaining a clean environment and preventing the release of pollutants:

- Filters
- Scrubbers
- Odor extraction

The materials are delivered to you in the form and in the quantities required, depending on your reception facilities. Possibilities include bags, drums, Big Bags®, containers and bulk trucks.

J-Tec has the necessary equipment to fill these recipients with an exactly dosed amount of product, free of dust and in an economical way.

Each of these services is only a starting point. In a rapidly changing environment, our technical experts continually solve new problems and adapt to new challenges. To find a solution that truly fits your particular situation, we invite you to **talk to our people. They make the difference!**

J-Tec competence center



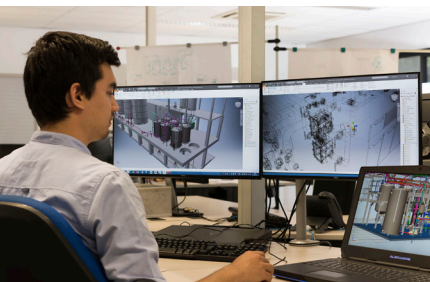
PRODUCT & PROCESS DETERMINATION

We take care of the processing of your product. Conveying, blending, dosing... You name it, we do it. If any special equipment is needed, we can design it, test it and install it for you.



CONCEPTUAL DESIGN

We have all the necessary skills and facilities in-house to design complete material handling plants and distribution platforms, including the mechanical, civil and electrical engineering.



TEST ROOM

Any new equipment is first tested in our own test room, to make sure it is compliant. Similarly, we also use our pilot plant to simulate real-life situations before a complete plant is built or a new production line installed.



PLANT LAYOUT

Based on the agreed concept and measurements, a layout plan is drawn up and submitted for approval. The detailed engineering work can then start, taking into account all the relevant norms and standards.

PROCESS AUTOMATION

For automation and control of processes J-TEC calls on its team of highly qualified engineers. Process control hardware is used to monitor and control, while highways and gateways connect all control or recording points. Traceability and stock management are ensured, enabling tight cost control.

INSTALLATION, COMMISSIONING AND STARTUP

You need to ensure that everything is built exactly according to plan. As a company we have obtained Lloyd's SHE (Safety, Health & Environment) certification, guaranteeing the highest level of quality and safety. We also meet the requirements of the Safety Checklist for Contractors (SCC). Our SCC certificate has registration number 650830.



OUR PEOPLE MAKE THE DIFFERENCE

J-TEC MATERIAL HANDLING



FULL SERVICE

J-Tec designs, supplies, installs and maintains systems for handling dry substances and liquids. We deliver components as well as complete turnkey installations. Our main fields of activity are the food industry, pharmaceuticals, (petro)chemicals and plastics. We are able to handle entire projects, from greenfield site to turnkey plant. Alternatively, the scope can be limited to extending or automating existing installations at your site, or delivering a single process (feeding, blending, sieving, etc.) or process components.

MAINTENANCE

Preventive maintenance as well as proper operation by your personnel can help to avoid costly downtime. We therefore offer professional training for your staff, together with maintenance services. Repairs can also be carried out in our workshop. Each technical failure is one too many. Our service team is equipped to deal with virtually all problems immediately.

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