



VETTERTEC SPRAY DRYERS

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VetterTec offers spray dryers based on 40 years of experience and 180 references world-wide in the food and chemical industries. The special know-how in the design of the atomizers provides high reliability and a sophisticated solution to give the right particle characteristics for the desired application.

The VetterTec spray dryer is individually designed to meet the specific requirements of our customers. From pilot plants to industrial units: We provide a full range of spray drying units and services as

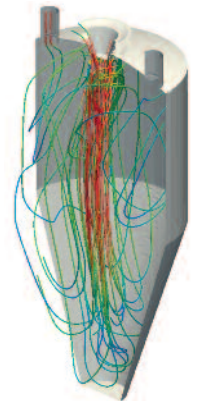
- ✓ precise engineering and manufacturing
- ✓ professional project management from kick-off to commissioning
- ✓ expertise in atomization & particle engineering
- ✓ plant and process optimization
- ✓ test centres for customer trials (particle design)
- ✓ retrofits for efficiency improvement
- ✓ CFD flow simulations (e.g. for troubleshooting)
- ✓ training and seminars

VetterTec's experienced team of spray drying experts is always dedicated to developing the best solution for specific requirements, such as dust-free powder, agglomerated powder etc. Based on our detailed know-how in particle engineering, our customers always get particles of the desired shape, size and density.



ADVANTAGES

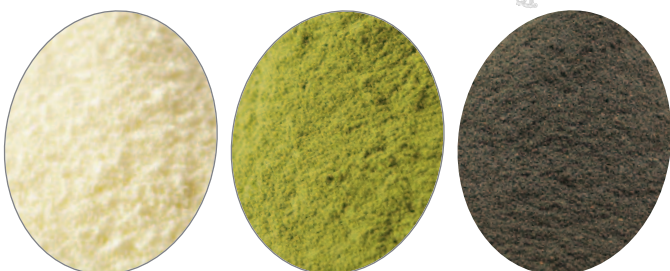
- ✓ Controlled particle size, shape and density
- ✓ Rotary and nozzle atomizers
- ✓ Customized solution for each product
- ✓ Tuned retention time
- ✓ Integrated systems
- ✓ Various different designs



CFD simulation

SPECIAL FEATURES

- ✓ Internal and/or external fluid bed
- ✓ Air brooms
- ✓ Cleaning in place (CIP)
- ✓ Fluid bed agglomeration
- ✓ Product cooling systems
- ✓ Automatic control system
- ✓ ATEX/NFPA requirements

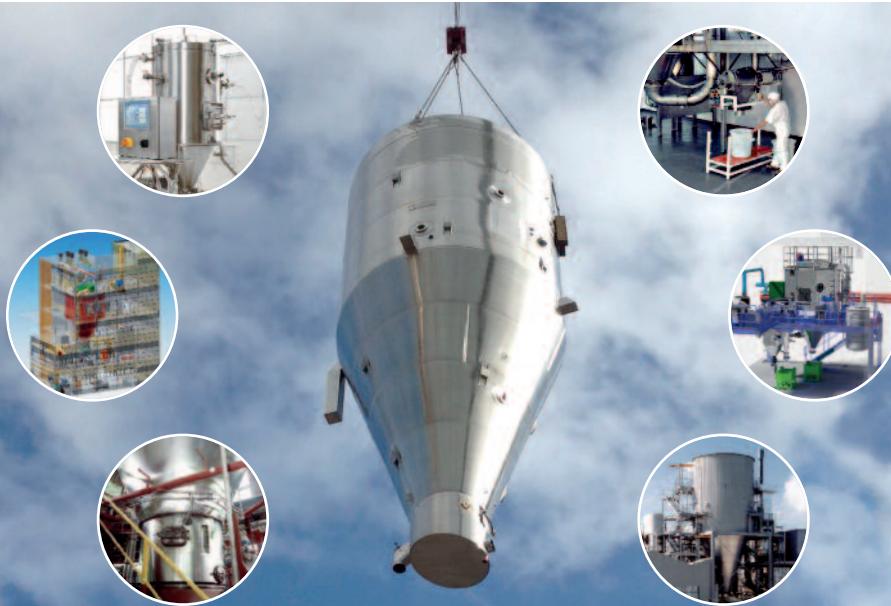


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VetterTec is able to build spray dryers from pilot plant size to industrial units. Downstream the dryer can be equipped with fluid beds, coolers and agglomerators to further condition powder prior to the packaging unit.



VETTERTEC ROTARY ATOMIZERS AND NOZZLES

Fluid atomization is provided by centrifugal wheels, rotary atomizers, pressure nozzles or twin-fluid nozzles. The range of different systems allows specific particle size requirements to be met for each application and product type.



High-speed rotary atomizer, sanitary design



Centrifugal wheels



Rotary atomizer with special high-performance belt



Pressure nozzles

Fields of Application

Chemical Industry:

- ✓ Metal powder
- ✓ Ceramics
- ✓ Dyestuff/Pigments
- ✓ Herbicides
- ✓ Silica
- ✓ Polymers
- ✓ Latex
- ✓ Urea-formaldehyde
- ✓ Tannins (natural/synthetic)

Proteins:

- ✓ Soya protein
- ✓ Fish protein
- ✓ Vegetable protein
- ✓ Biochemical protein
- ✓ Collagen/Gelatine
- ✓ Soluble wheat protein

Food Industry:

- ✓ Flavourings
- ✓ Fruit powder
- ✓ Enzymes
- ✓ Maltodextrin
- ✓ Modified starches
- ✓ Lysine
- ✓ Oligosaccharide
- ✓ Soup mixes
- ✓ Herb extracts
- ✓ Gum arabic
- ✓ Protein hydrolysates
- ✓ Soya products
- ✓ Fats

Alcohol/Ethanol Industry:

- ✓ Fodder yeast

Brewing Industry:

- ✓ Brewer's yeast
- ✓ Yeast extract
- ✓ Yeast cells

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