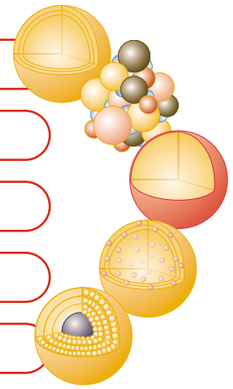
Functional powders, granules and pellets

Particle design and plant engineering - from the idea to production

- Laboratory trials for product and process development
- Pilot trials for scale-up to production scale
- Contract manufacturing under FSSC 22000 certification
- Plant portfolio for laboratory, pilot and production scale
- Engineering and construction of complete production sites



Dry liquids into flowable granules: **Plant-based Instant Beverages**

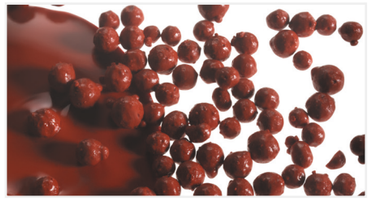
Controlled release of active releases: **Probiotics, Bacteria**

Stabilizing oxidation-sensitive or volatile substances by microencapsulation: **Flavors, Vitamins, Fats**

Instant products, Food supplements and Cosmetics with perfectly adjusted solubility: **Collagen, Animal Proteins**

Drying and stabilization: **Probiotics, Bacteria**

Stabilizing + dust-free + easy dosing + protection of environment against allergens: **Enzymes, Probiotics, Bacteria**



Powder to tabletable agglomerates: **Lactose**

Improving storage stability by coating of **Enzymes, Probiotics, Bacteria**

Functional granules and pellets made from solid and liquid raw materials by using **fluidized bed and spouted bed technology**

Animal Proteins, Peptides

- Unique Selling Point by combining processes
- Gentle processes for improving animal raw materials
- Perfect solubility and high functionality
- Small plant footprint at the same throughput

Plant-based Instant Beverages

- Gentle processes for improving-plant-based raw materials
- Optimally porous and loose agglomerates
- Perfect wetting and dispersing properties
- High microbiological stability

Lactose

- Perfect tableting properties
- Continuous drying and spray agglomeration
- Ideal agglomerates for direct compression
- Tailored bulk density, granule size, etc.

Enzymes, Microorganisms, etc.

- Particle design through gentle processing
- Protection against allergens
- Compact, dosable and abrasion-resistant granules
- Preservation of functionality and activity

Energy Saving

- Reduced process temperatures
- Combination of process steps
- Drying by using superheated steam
- Hot-melt process instead of dewatering

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