

Chemistry and Pharmacy



Mixing:

For continuous mixing of solids with liquids or for moistening of granular/powdery substances. Mealy, granular, fibrous or flaky carrier substances are mixed with liquids free of lumps according to the whirling principle.

Pelleting:

Processing and compaction of the most diverse products with regard to their structure, bulk density, moisture, binding strength, and particle size.

Processing of powdery, fibrous, lumpy and pasty products to uniform pellets of different size.

Drying/cooling:

Individual technical design for the respective product and determination of the drying and/or cooling properties.

Examples of products:

- Vulcanization accelerators, catalysts, CMC
- Plant extracts, instant products, premixes for tablets
- Polymer additives, plastics powder, stabilizers
- Lime, talc, chalk, clay, kaolin, bentonite, graphite
- Activated carbon
- Detergent additives
- Pigments
- Stearates
- Pharmaceutical active ingredients and fillers

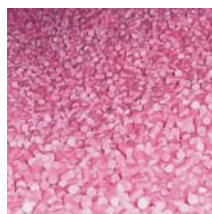
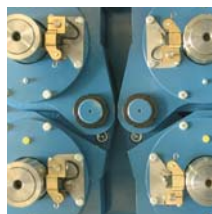
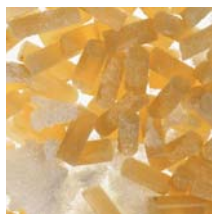
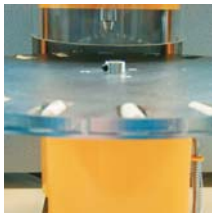


Crushing:

Different grinding degrees are achieved rapidly and exactly. A wide selection of rollers and a multi-stage, flexibly exchangeable roller system.

Examples of products:

- Activated carbon
- Bentonite, lime
- Calcium chloride
- Glass
- Calcium carbonate
- Calcium propionate
- Cat litter
- Sodium percarbonate
- Sodium carbonate (soda)
- Sodium chloride
- Sodium diacetate
- Pharmaceutical salts
- Phosphates
- Salts
- Silica, silica gel
- Superabsorbent polymers (SAP)
- Tantalum
- Urea
- Detergents
- Citric acid anhydrate





Agglomeration:

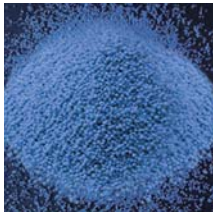
Formation of particles from powders. Coarsening of powdery substances with the objective of dustlessness, flowability, adjustment of the bulk and tapped density, improvement of the instant properties and pelletability.



Spray granulation:

Build-up/formation of granulates from liquid raw materials (solutions, suspensions). Round, dust-free granulates are usually produced.

In spray granulation (type of encapsulation), the solute is embedded in a solid structure.



Drying/cooling/heating:

Thermal treatment of bulk materials, adjustment of a desired residual moisture content, interesting for high quality products and in case of special hygiene requirements.

Coating:

Application of a defined, closed coating layer on a solid, granular base substance.

Examples of products:

Chemical industry:

- Fertilizers
- Herbicides
- Surfactants
- TPU
- PTFE
- Phosphates

Pharmaceutical/fine chemical/cosmetics industry:

- Vitamins
- Paracetamol
- Sorbitol
- Calcium
- Pancreatin
- Antibiotics

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