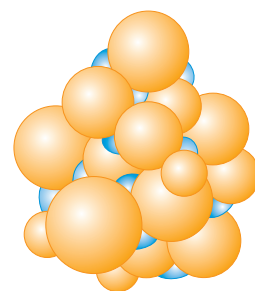


Round affair



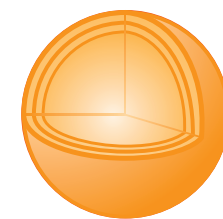
For the trend subject of active substance pellets, the Excellence United partners pool their expertise: Glatt offers a variety of technologies for their production, the dosing systems come from Harro Höfliger.

More and more frequently, pharmacists use pellet-based formulations instead of monolithic tablets or powder capsules. There are many good reasons for this solid oral administration form. Among others, this method is characterized by dust-free processing, stability, good dosing and mixing capability, excellent flow properties as well as the possibility to apply layers. Coating allows taste masking, the delayed and controlled release of active substances, or simply comfortable swallowing.

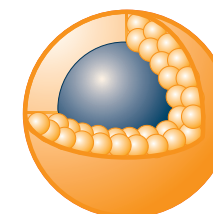
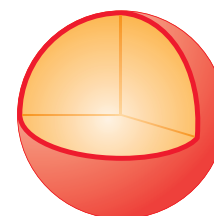
Filled into the XStraw® drinking straw, the drug globules are dispersed and transported when suction is applied while drinking – a method which is especially suited for children and the elderly. The practical single-dose packaging into sachets is also gain-

ing in importance. The four-side sealed pouch machine PPH by Harro Höfliger produces and fills the flat pouches with very small pellet quantities from 10 mg upwards. With the Modu-C series capsule filling machines, dosing of specific quantities of pellets into hard capsules – also in any combination with powder, tablets or micro-tablets – is accomplished using pellet stations on flexible and changeable trolleys.

Depending on the field of application and the requirements for pellet type and size, active substance loading and the quantities to be produced, different manufacturing processes are used for the multifaceted granules. For decades, Glatt has been the market leader in machine engineering for the refining and processing of solids in powder form for the pharmaceutical, fine chemical and food industries. For many years they have been dealing with multi-particulate



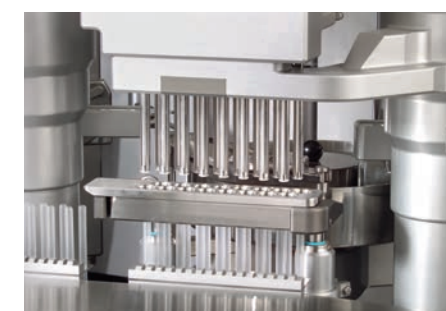
For active ingredients with a bitter or unpleasant taste, pellet coating provides taste-masking properties.



drugs such as granules and their specially shaped pellets and micro-pellets. As a pioneer in fluidized bed technology, the Excellence United partner offers machines for all common production processes, both in batch and in continuous operation.

The extrusion of moist powder mass is one of their traditional technologies. The pellets with an average size of 500 to 2,000 micrometers are then rounded in the subsequent spheronizing process. During layering, liquid or powder active substances are applied to the starter pellets in very even layers, usually followed by functional coating.

Direct pelleting from powdery active ingredients or auxiliary materials enables the production of very evenly shaped pellets. The MikroPx® technology, a continuous fluidized bed agglomeration process, produces highly dosed micro-pellets in a size of 100 to 400 micrometers



Precise dosing of pellets into the XStraw® with technology from Harro Höfliger.

with a narrow particle size distribution and active ingredient contents of up to 95 percent. They are particularly easy to swallow and ideally suited for an oral drug delivery device such as the XStraw® drinking straw – a successful example of the cooperation between the Excellence United partners. ■

About Glatt

For more than 60 years, the Glatt Group with headquarters in the town of Binzen has been specializing in the processing and refining of powdered solids for the pharmaceutical, food/feed and fine chemical industries. Their core technology is the fluidized bed process for granulation and drying, pelletizing and coating of solids. In addition to laboratory, pilot and production machines for batch operation or continuous processes, Glatt also offers product and process development, product handling and contract manufacturing.



A member of Excellence United

"The optimum interaction between product, device and machine expertise – that is what Excellence United's customers benefit from."



Philippe Tschopp,
Head of Business Development
Pharmaceutical Services,
Glatt

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One single system, four processing options: The GPCG 2 LabSystem offers drying, granulating, coating, and pelletizing.

