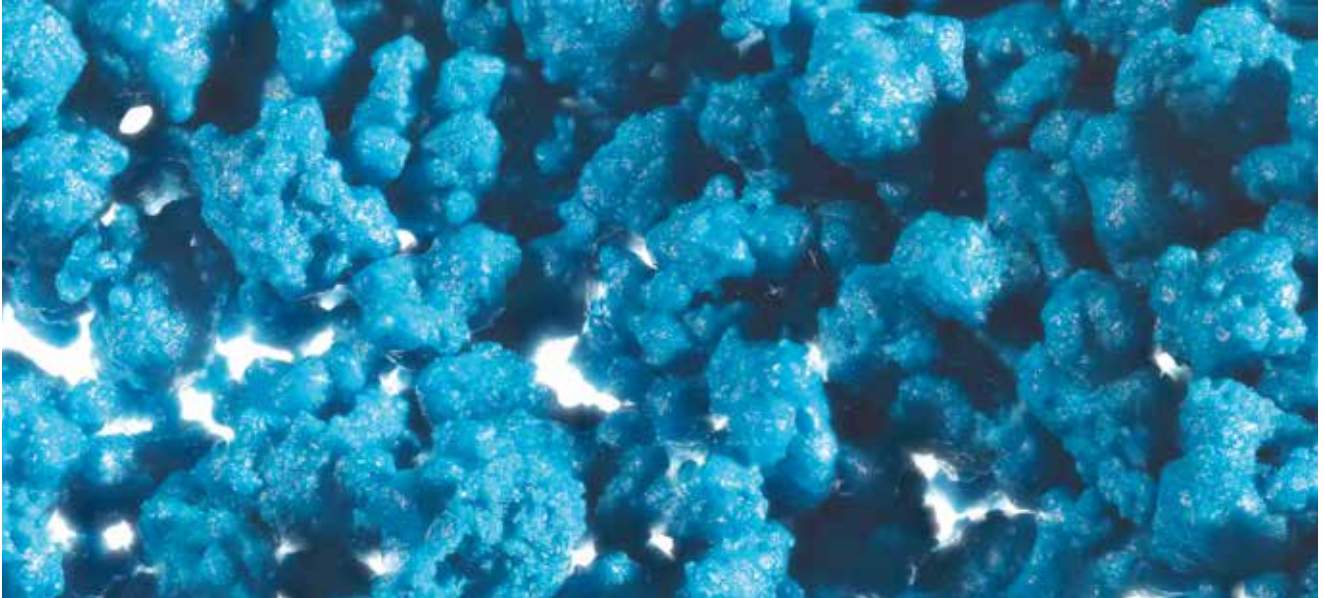


PROCESS & PLANT ENGINEERING + INNOVATIVE PROCESS TECHNOLOGY

FUNCTIONALIZATION OF PESTICIDES

PRODUCT COMPETENCE



More performance for your pesticides.

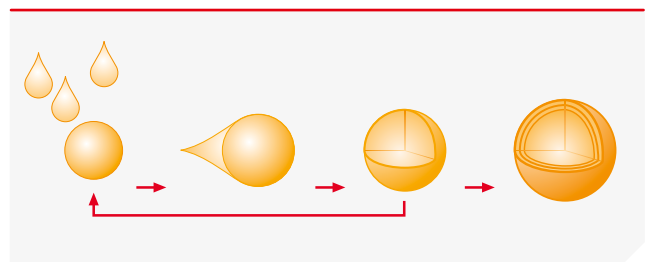
Different chemical-synthetic substances or substance combinations are used as biocides, insecticides, herbicides or fungicides in order to have toxic effect in the respective area of application. You would like to improve the properties and mode of action of your products and comply with the high safety requirements with respect to storage, logistics, handling and dosing?

Compact, dust-free, homogeneous granules.

By spray granulation of pesticides made up of solutions, emulsions and suspensions you manufacture round pellets with a dense surface and high abrasion resistance. Advantages for the application: the health risk and unwanted drift during application are considerably reduced. At the same time, the dispersibility of such granules is far superior to conventional products.

Products with Glatt particle design:

- » Copper oxychloride
- » Copper hydroxide
- » Imidacloprid
- » Neonicotinoids



PROCESS COMPETENCE



Effective and continuous - with guarantee.

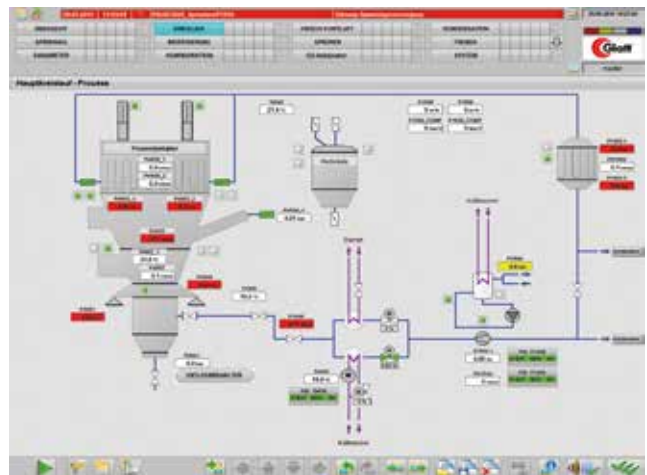
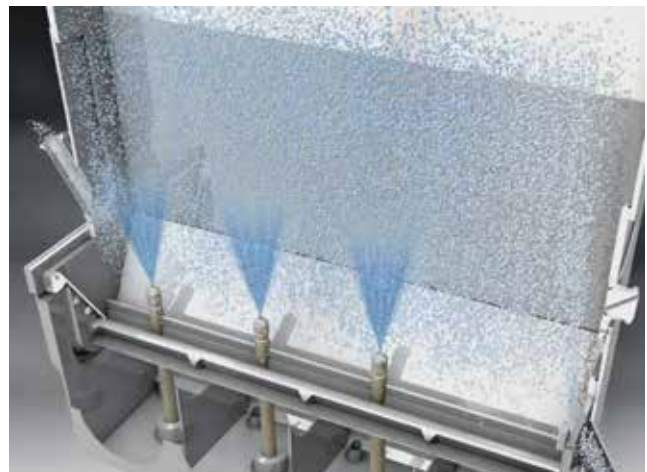
Glatt spray granulation with innovative fluidized bed or spouted bed technology is an optimum process for the manufacture of your pesticide granulates from liquids and powders. Granule formation and subsequent drying can be carried out in a single process step. For the operating efficiency of your plant and reproducible product quality Glatt guarantees process parameters such as capacity, grain size, solubility and product purity.

Continuous fluid bed granulators.

In systems with round bottom screen and central discharge the material is continuously mixed. Glatt fluid bed granulators are divided into several process chambers. In addition to granulation and drying, the cooling of the granulates can also take place in the same system. For all concepts, Glatt ensures reproducible constant capacities and outstanding product qualities.

Product advantages with Glatt spray granulation:

- » Dust-free granules, high bulk density, compact structure
- » Narrow grain size distribution
- » Improved solubility, dosing, flowability



TECHNOLOGY COMPETENCE



Pesticide production with innovation.

Glatt has the entire technical know-how required for the production and handling of your product. We provide you with a finished concept that takes into account not only the requirements for protection against explosions and fire but also the minimization of emissions into air and water. We design our granulation multi-talents in accordance with your preferences. In addition, our experienced project management coordinates assembly and commissioning.



Reference system: paraquat.

Glatt performances: tailored design and layout, project management, delivery of process technology and peripheral systems, commissioning, training of operating personnel. Special features include the special measures for product handling for safety in operation and production. An additional closed loop enables operation of the system that is both energy efficient and environmentally sound.

Information regarding the reference system:

- » Capacity ≥ 1000 kg/h
- » Residual moisture $\leq 3\%$
- » With process guarantee



PLANT ENGINEERING COMPETENCE



Process and plant engineering.

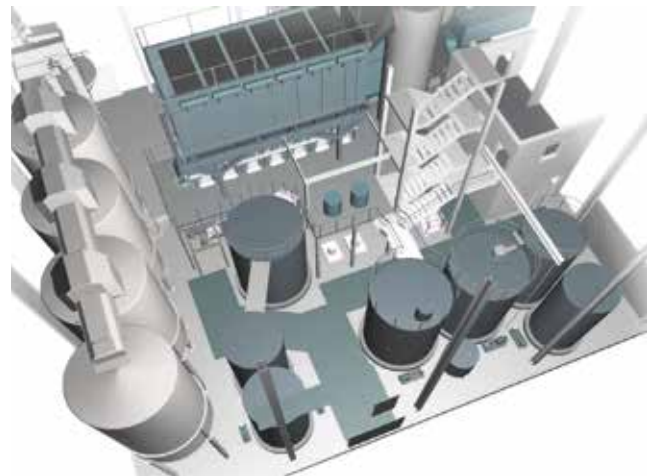
Glatt is your engineering and technology partner with more than 60 years of process expertise. We accompany you from the initial idea through the consulting for process and general planning, all the way to start-up of turn-key production facilities. Whether it be new construction, modernization, expansion or relocation of production site – tailored to your specific tasks, we develop the tailored solution that is optimum for you.

Technologies in focus.

At the center of attention are your products and their manufacturing. We integrate your technologies or pioneering Glatt technologies. Depending on the requirement, we supplement the process know-how through the procurement of licenses of international partners.

Range of engineering services:

- » Consulting and feasibility studies
- » Conception, basic and detailed engineering
- » Project management for planning and execution
- » Authority engineering and financing concepts
- » Planning and supervision for construction, assembly, start-up
- » EPCM projects
- » Support with FAT and SAT





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