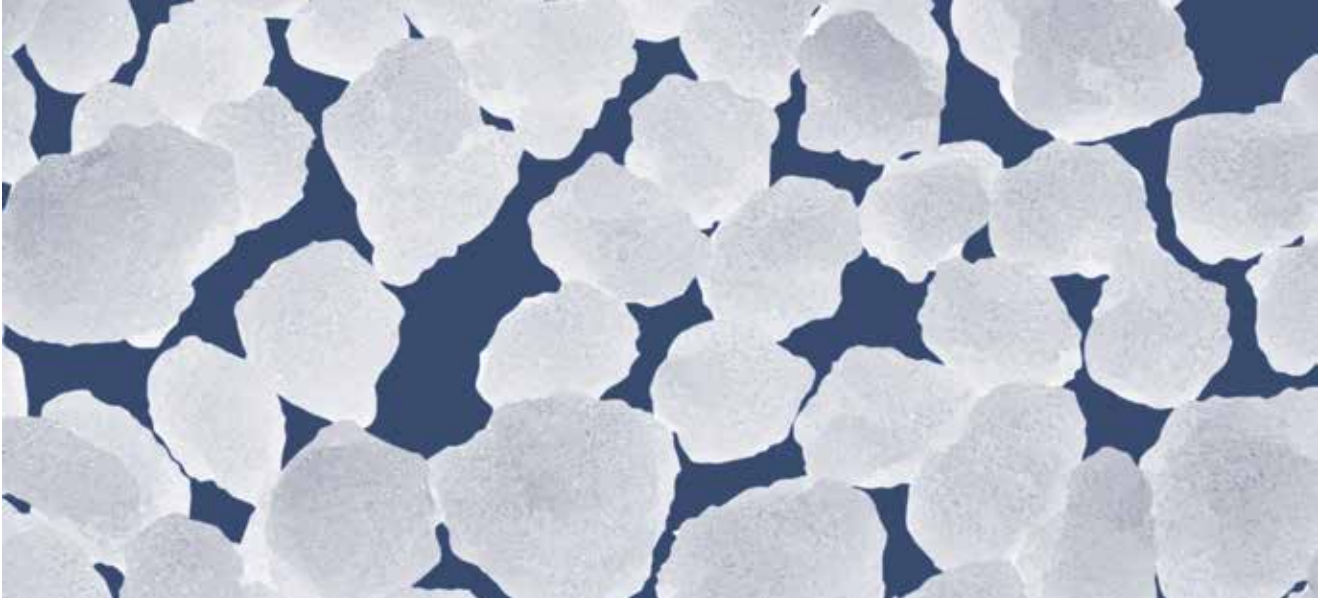


PROCESS & PLANT ENGINEERING + INNOVATIVE PROCESS TECHNOLOGY

FUNCTIONALIZATION OF SPECIAL FERTILIZERS

PRODUCT COMPETENCE



More performance for your fertilizers.

The functionalization of fertilizers enables their broad utilization in agriculture. Would you also like to have products with a pronounced depot effect or a directed supply of nutrient array?

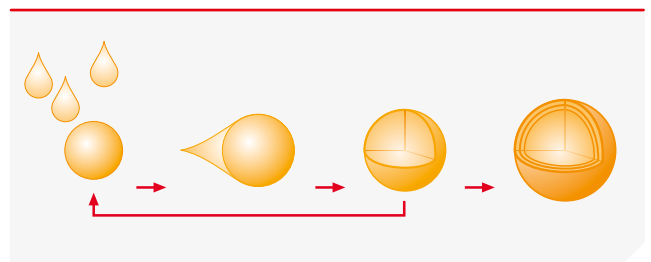
By means of a suitable functionalization, the granulate shape and the quantity of the fertilizer released to the soil are available for optimum adjustment and considerably higher product qualities can be achieved.

Compact, dust-free, water-soluble granules.

By spray granulation with optional subsequent coating various combinations of active ingredients can be set up. The fertilizer granules have a dense surface with high abrasion resistance. Advantages for practical applications are improved product properties and the reduction of unwanted drift during application. Furthermore, the solubility of these kind of granules is readily adjustable to the application.

Products with Glatt particle design:

- » Methylene urea
- » Mixed fertilizer
- » NPK fertilizer



PROCESS COMPETENCE



Effective and continuous - with guarantee.

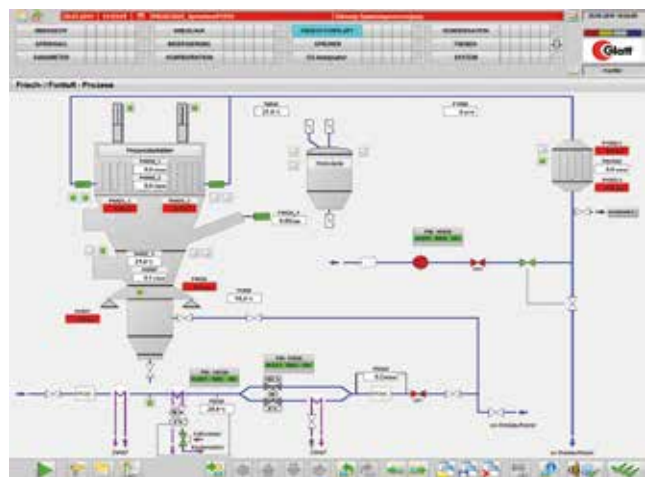
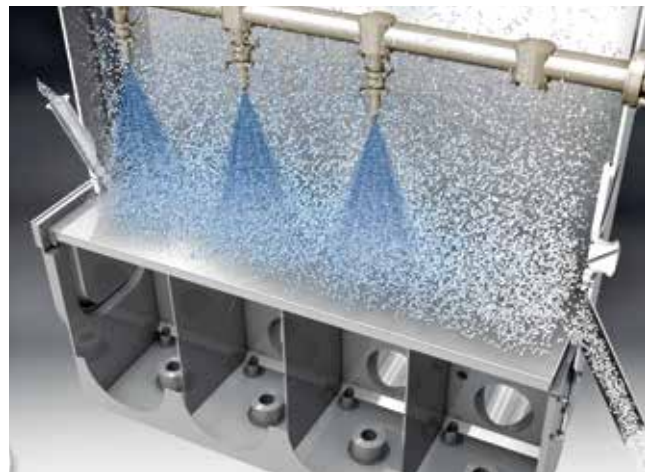
Glatt spray granulation with innovative fluidized bed or spouted bed technology is an optimum process for the manufacturing of your fertilizer granules from liquids and powders. Granule formation and subsequent drying can be carried out in a single process step. For the operating efficiency of your plant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

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



Fertilizer 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 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, commissioning and training of your operating personnel.

Reference system: special urea.

Glatt performances: tailored design and layout, project management, delivery of process technology and peripheral systems, commissioning, training of operating personnel.

Filters built into the granulator minimize dust emissions and maximize the product yield. The process gas is distributed among four process gas chambers. Flaps enable the separate setting of the process gas speed for each chamber.

Information regarding the reference system:

- » Capacity \geq 1000 kg/h
- » With process guarantee



PLANT ENGINEERING COMPETENCE



Process and plant engineering.

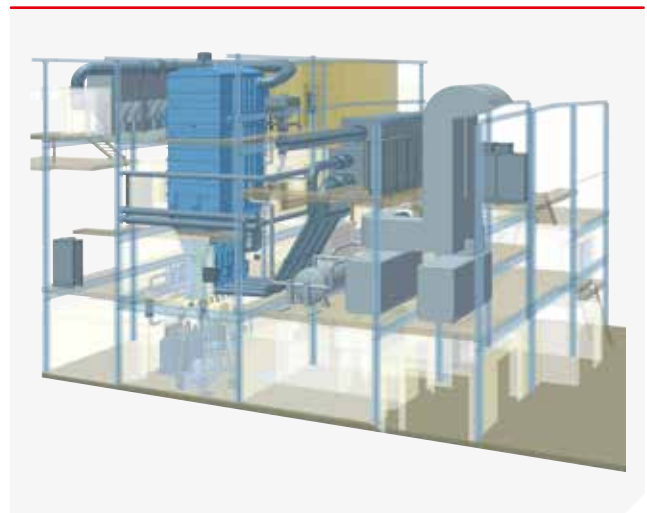
Glatt is your engineering and technology partner with more than 60 years of process expertise. We accompany you from the initial idea through the consulting for process and general planning, all the way to start-up of turn-key production facilities. Whether it be new construction, modernization, expansion 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





Glatt Ingenieurtechnik GmbH

Nordstrasse 12
99427 Weimar, Germany
Phone +49 3643 47-0
Fax +49 3643 47-1231
info@glatt-weimar.de
www.glatt.com

Glatt GmbH

Werner-Glatt-Strasse 1
79589 Binzen, Germany
Phone +49 7621 664-0
Fax +49 7621 64-723
info@glatt.com
www.glatt.com

Glatt Ingenieurtechnik GmbH

ul. Obrucheva, 23, korp. 3
117630 Moscow, Russia
Phone +7 495 787 4289
Fax +7 495 787 4291
info@glatt-moskau.com
www.glatt.com

Glatt (India) Engineering Pvt. Ltd.

Plot No. 251
Okhla Industrial Estate Phase III
New Delhi – 110020, India
Phone +91 11 40 85 85 85
info@glatt-india.com
www.glatt.com

Glatt Air Techniques Inc.

20 Spear Road
Ramsey, NJ 07446 USA
Phone +1 201 825 8700
Fax +1 201 825 0389
info@glattair.com
www.glatt.com