



Press release

Glatt Ingenieurtechnik GmbH

Glatt offers new fluid bed options for solvent-based processes and products requiring Kosher and Halal conditions

Glatt has expanded its range of services and capacities at the company's Technology Centre in Weimar for trials and sample development

**Contact with the company:
Glatt Ingenieurtechnik GmbH**

Mona Berger
+ 49 3643 47-1502
mona.berger@glatt.com
Nordstrasse 12
99427 Weimar
Germany

**Contact for the press:
akp public relations**

Anne-Katrin Pflästerer
pflaesterer@akp-pr.de
Birkenauer Talstr. 9
69469 Weinheim
Germany

01 September 2021

Weimar, Germany, September 2021: When developing and launching new products, speed is a critical factor. However, sensitive ingredients and solvent-based processes often present manufacturers with technological challenges. In process expert and plant manufacturer Glatt's upgraded technology centre, support from initial idea and scale-up to industrial production is readily available.

At the company's Technology Centre in Weimar, Glatt operates a unique fluid bed system that processes solvent-based products in a vacuum or using nitrogen as the process gas. As such, demand is high for scale-up tests, product sample production or short-term contract manufacturing services until the client's own production plant has been commissioned.

However, a new fluid bed granulator and coater for innovative solvent-based processes has recently become available. The batch-mode apparatus is ideal for small and medium campaigns that include frequent cleaning cycles. Special explosion protection measures, a 12 bar pressure shock-resistant design and a scrubber to separate the solvents ensure a high level of safety for both employees and the environment. The superior hygienic conditions also allow the production of Kosher and Halal food products. Not only does the facility's production capacity now reach into the three-digit tonne range, a new laboratory also allows feasibility tests on fluidised bed and spouted bed systems to be done under GMP conditions.

Customers benefit from optimal conditions when it comes to optimising product properties. These include better bioavailability, flowability and the absence of dust, improved solubility, tabletable agglomerates, pellet formulations with functional coatings, controlled release spraying of active ingredients, extracts with solvents, drying of solvent-based products and the microencapsulation of volatile and sensitive substances.

Products requiring improved bioavailability are emulsified and coated in a liquid phase by micro- or nano-encapsulation. However, granules or pellets that are dust-free, easily compressible and have a longer storage life are preferred when formulating final products. Spray granulation in



the fluidised bed for drying and granulate formation in one step is the first choice for this. In addition to the capacity expansion, the existing plant can also now accommodate continuous spray granulation processes.

About Glatt Ingenieurtechnik:

For more than 30 years, Glatt Ingenieurtechnik GmbH plans and carries out international projects from the enlargement or modernization of existing production facilities to the construction of whole new factories. The plant engineering and process expert combines professional engineering with sound technical know-how derived from patented process technologies, such as Glatt powder synthesis and fluidized and spouted bed methods for granulation and coating processes. The focus of the projects is on processes in the field of particle design and particle engineering for the development, optimization, functionalization and production of powder and bulk goods such as granulates and pellets. These are used in the food, feed, chemicals and fine chemicals industries. Glatt is also a leading partner in the engineering of pharmaceutical and biotechnological facilities for the manufacture of solid, semisolid, liquid and sterile dosage forms. The company's headquarters are in Weimar, Germany, and affiliates are located in Germany, Europe, Russia, India and the USA. As an integral part of the international Glatt Group, Glatt Ingenieurtechnik can draw on a global network of some 3000 employees. Numerous agencies exist worldwide as contacts for the full range of goods and services.

For more information, please visit: www.glatt.com/ptf



Fig. 1: Left: Fluid bed granulator with continuous product discharge; right: Batch fluid bed granulator and coater. Both systems at the Glatt Technology Center in Weimar process solvent-based products.