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ТАБЛЕТОЧНЫЕ ПРЕССЫ FLEXSTREAM

Технические характеристики



For more than 50 years, GEA has supplied advanced fluid bed processing plants for blending, granulating, drying, pelletizing and coating to the pharmaceutical industry. This includes small capacity systems designed for R&D as well as industrial size plants for the batch production of pharmaceutical compounds under cGMP conditions.

Using proven standard components, GEA makes plant design both simple and flexible. User-selected process modules, filters, control systems and air preparation units can be combined in a system that meets your process requirements exactly. This modular approach ensures that qualification and validation procedures are kept to a minimum.

Process Technologies

For maximum process flexibility, GEA can supply a single fluid bed unit or the patented FlexStream™ fluid bed processor that combines multiple processes in a single process container. GEA has a series of fluid bed processors that are suitable for formulation, process development, the production of clinical material through to full-scale production; the philosophy behind the design is that a combination of standardised modules can be built together to meet specific requirements. As such, dryers of equal capacity may be completely different with respect to design, configuration and physical size.



FlexStream™ Fluid Bed Processor

Fluid bed operations such as drying, granulation or particle coating are often major process steps in the production of solid dosage forms. And, even though fluid beds have been in use by pharmaceutical companies for more than 50 years, GEA continues to enhance the design, introducing new technologies to optimise performance and improve process understanding. In the past, the individual fluid bed processes have required dedicated equipment to achieve the optimum performance, leading to additional capital expense. Furthermore, the scale-up of fluid bed processes has never been addressed.

From a performance standpoint, granules produced by fluid bed granulation often show excellent compression behaviour but can be weak and flow poorly (compared with high shear granulation). Some formulations can't be granulated in a fluid bed at all, and coating applications based on conventional Wurster columns are subject to a number of drawbacks, such as scale-up issues, loss of coating material and agglomeration losses.

Using proven GEA fluid bed technology to achieve fluid bed granulation, drying and pellet coating (or tablet coating) in a single module, FlexStream™ is a new multipurpose processor that addresses the current shortfalls of traditional fluid bed processing, including linear scale-up, fully contained loading and unloading, and superior product homogeneity for both LOD and PSD. Requiring only one product container for all unit operations, the FlexStream™ reduces your build envelope (both height and footprint) and provides PAT-compatible inline particle growth measurement.

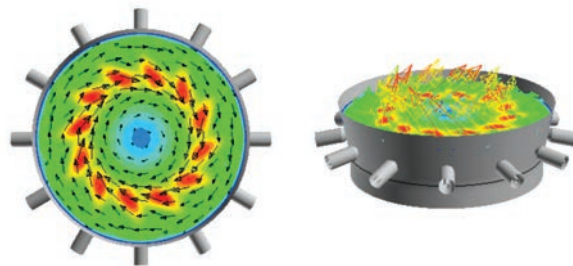
The FlexStream™ concept has the additional advantage that no mechanical adjustment is necessary to switch between using the equipment as a dryer, a granulator or a coater. And, impressive test data prove that, in addition to these commercial benefits, FlexStream™ gives superior product quality when compared with conventional top-spray granulation or Wurster coating.

Production capacities									
Flexstream™ size		500	1000	1500	3000	4500	6000	9000	12000
Typical Operating Capacity	Litres	25–50	60–115	120–225	240–450	320–600	480–900	720–1355	960–1800
Typical Batch Weight (@0.5 g/mL) kg	kg	25	60	115	225	300	450	680	900

Flexstream™

The ultimate in fluid bed flexibility, offering granulation, drying and coating in a single processor with built in linear scale-up, the FlexStream™ requires no mechanical adjustment when switching between drying, granulating and coating modes.

5.9
4.4
3.0
1.5
0.0



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