

## **From Lab to Production: Fette Compacting at ACHEMA 2024**

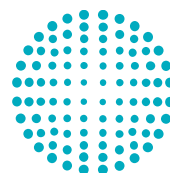
**Schwarzenbek/Frankfurt am Main, June 10, 2024. At ACHEMA 2024, Fette Compacting will be presenting new ways to shape the future of tablet production together with users: from in-depth process understanding and formulation development in the laboratory to continuous manufacturing.**

In the pharmaceutical and nutraceutical industry, mechanical engineering traditionally focuses on the commercial production phase. However, changing product portfolios, shorter times-to-market, and high pressure on costs often require earlier and more intensive collaboration in the product life cycle. This is why Fette Compacting supports users right from the research and development stage.

*“As a tableting specialist, we have embarked on a journey to become a process partner for our customers for the entire powder formulation and tablet production process,”* explains CEO Joachim Dittrich. *“We support manufacturers in all processes from research and development through to production. To this end, we will be presenting a comprehensive range of services and consulting on the first floor of our stand, ranging from process development and laboratory analysis to continuous direct compression.”*

### **Bundled expertise with QED**

With its process development and laboratory analysis services, Fette Compacting aims to deliver the ideal process and the most efficient machine configuration for specific products. This covers the entire product life cycle and includes all processes, from continuous manufacturing to batch-to-batch. To this end, extensive knowledge has been accumulated in a database (Qualified Expert Database, QED), which is constantly being enriched with



new data. Visitors to the Fette Compacting stand will be able to gain an insight into the database for the first time.

### **Emulating processes close to production**

The QED knowledge base allows processes to be developed close to production. Accordingly, experts from Fette Compacting will be presenting new solutions at AACHEMA that enable users to simulate processes and analyze critical quality characteristics of formulations. This interplay of material analysis, process knowledge (QED), and test equipment (emulators) paves the way for developing optimal, material-friendly processes together with customers.

### **Laboratory services via Quality by Design**

The process emulations are followed by numerous laboratory services and devices for material and tablet characterization with Lab Solutions, which provide a deep understanding of the product and process. Only with this knowledge is a quality-by-design approach possible from the development phase through to ongoing production. The focus is on critical material attributes (CMAs), which have a significant influence on product quality. By linking the CMAs with the critical process parameters (CPPs), Lab Solutions enables users to develop more robust processes and ensure consistently high quality. The associated system with powder compression analysis units from the F Lab series and other components will be presented in more detail by Fette Compacting at AACHEMA.

### **Turnkey system for continuous tableting**

In terms of production technologies, the continuous manufacturing process is a particular highlight of the trade fair. Fette Compacting has reinterpreted continuous direct compression from the ground up and developed the FE CPS (Continuous Processing System) to market maturity. Compared to granulation-based production, several steps are now eliminated, which reduces space requirements and energy consumption while making the



process leaner overall. The sensors for quality control have been fully integrated into the system and its controls. In this embedded process analysis technology (ePAT), sophisticated sensors continuously monitor the most important quality features. With FE CPS and ePAT, visitors to ACHEMA will experience a complete turnkey solution for tablet production.

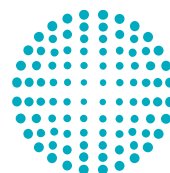
### **Next-generation tableting**

Visitors to the trade fair will also gain comprehensive and in-depth insights into the areas of tablet presses and tableting tools. At ACHEMA, for example, all three models of the new i Series will be brought together at one trade fair location: the F10i, F20i and F30i are based on a common technology platform, are system-compatible across generations, and are suitable for state-of-the-art digital production environments. Fette Compacting will also be presenting its complete solutions for tool and spare parts management at its own stand. These include, in particular, the modular EasyCare handling and maintenance system for tableting tools.

*“At ACHEMA 2024, we are positioning ourselves as a system partner to our customers for comprehensive and sustainable solutions in OSD production,”* emphasizes Joachim Dittrich, adding: *“True to our company purpose ‘Together for Quality of Life,’ the main aim is to make a joint contribution to better health and quality of life for people all over the world. With this in mind, we are ready for a new dimension of cooperation and look forward to some inspiring discussions.”*

### **About Fette Compacting**

With more than 6,000 installed machines, Fette Compacting is the world technology leader in integrated solutions for industrial tablet production. The company has specialized in high-performance machines for the pharmaceutical, nutrition, and chemical sectors for more than 75 years.



The company has its headquarters in Schwarzenbek near Hamburg. A second technology and production site is located in Nanjing (China) and another development location is in Mechelen (Belgium). Fette Compacting is represented in more than 50 countries around the world and is a member of the LMT Group, a medium-sized, family-owned group of companies. Around 1,800 people are employed at more than 20 locations worldwide. The Group achieved sales of around 380 million euros in fiscal 2023. [www.fette-compacting.de](http://www.fette-compacting.de)

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