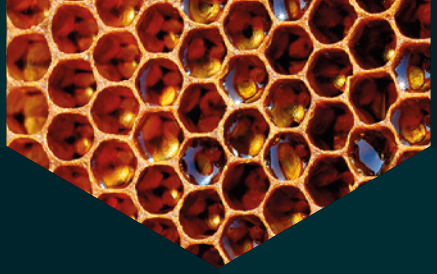
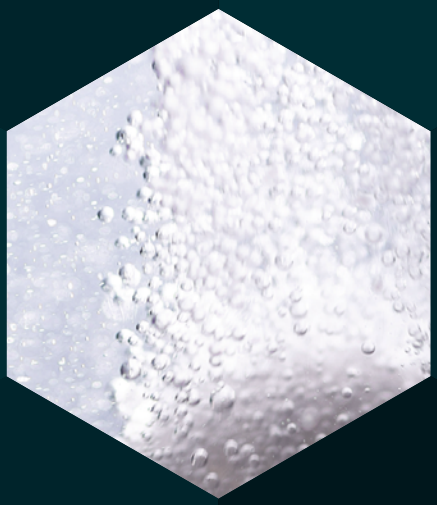
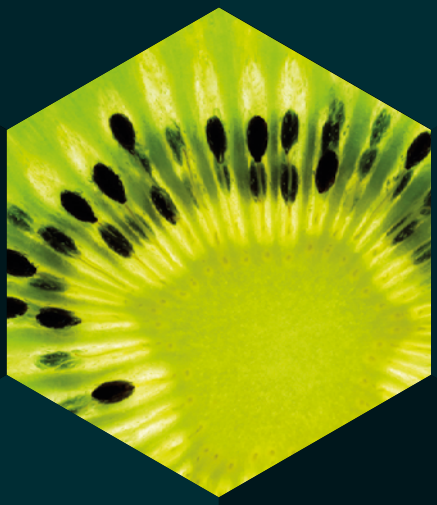






Next Level Nutrition

Tableting solutions for food
and supplements

FETTE
COMPACTING

together from lab to production

Better together – from lab to production

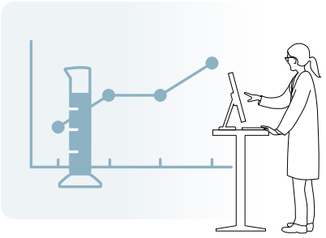
For more than 75 years, Fette Compacting has been redefining precision in industrial tablet production. As the world market leader in integrated solutions for OSD (Oral Solid Dosage) manufacturing, we deliver decisive competitive advantages. Our portfolio ranges from high-performance tablet presses to specialized Containment solutions and process equipment.

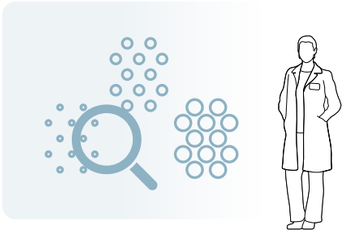
But technology is only one part of our DNA. Guided by our principle “Together – from lab to production”, we support you throughout the entire life cycle of your products: from initial formulation in the lab through technology transfer to commercial production.

That way, you find the right solution for every product and get it to market faster. With our global network of five Competence Centers in Germany, China, the USA, India, and Brazil, along with 13 subsidiaries and representatives in 50 countries, we are always right where you need us.

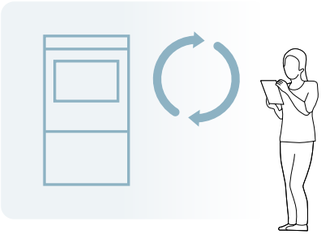
As your holistic process partner, we provide complete solutions. Whether pharma, nutrition, or chemical: We combine tailored consulting with deep technological know-how. The result: customized, efficient solutions for every phase of your product life cycle – and a partnership that delivers real value.

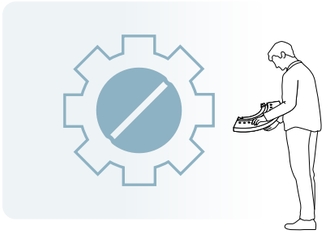
Research & Development





Production





API Development | **Formulation Development** | **Process Development** | **Technology Transfer** | **Production** | **Process Optimization**

Analytical Services

- Concentrated expertise: Access to more than 75 years of tableting experience
- Decide with confidence: A digital foundation for sound process planning

- Formulation consulting: Expert support backed by pharmaceutical expertise
- Understand your materials: Precise characterization of your active ingredients and excipients

- Test without risk: Emulator-based trials
- Stay in control: Development of tailored control strategies
- Leverage your data: Seamless integration of Process Analytical Technology (PAT)

- Scale with ease: Reliable transition from development to production
- Navigate regulatory requirements: Support in overcoming regulatory hurdles
- Validate your processes: Efficient transfer and safeguarding of your processes

- Produce flexibly: Tablet presses for batch operations and Continuous Manufacturing
- Protect people and the environment: Purpose-built containment solutions
- All from a single source: Process equipment and tableting tools

- Boost performance: Ongoing production support
- Minimize risks: Identify and address weak points early
- Improve processes: Development of customized optimization strategies

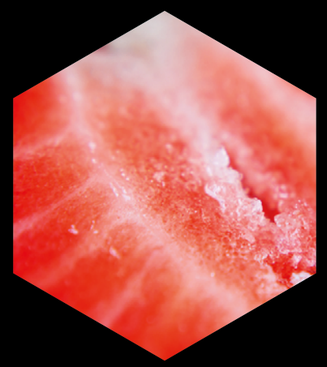
Extended range of services along the process chain: QED

Ready for Variety

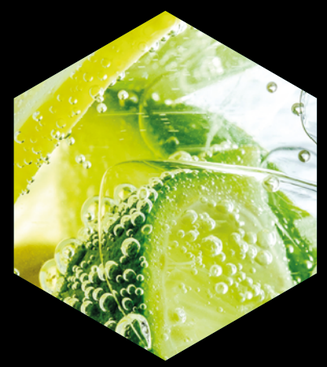
Tableting solutions for every application in nutrition production

No two nutrition formulations are alike. Whether dietary supplements, moisture-sensitive effervescent tablets, or functional confectionery: each product has its own demands on raw materials, process control, and production technology.

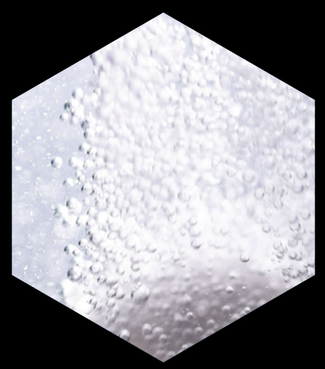
To meet this variety, we offer the right tableting solutions – from development to cost-effective series production.



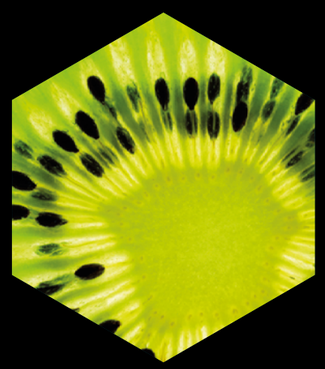
Vitamins and minerals
Dose precisely, compress reliably, and produce economically at scale.



Combination products
Master complex formulations and deliver reproducible results.

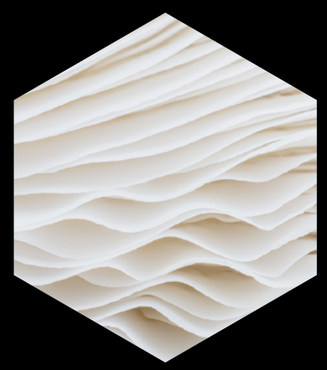


Effervescent tablets
Process moisture-sensitive formulations reliably and create fast-dissolving products.

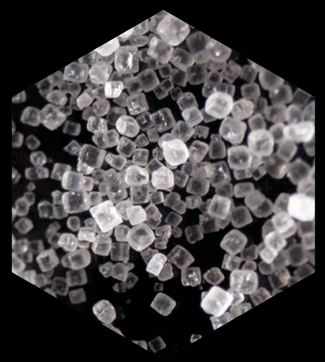


Botanicals and plant-based formulations
Reliably convert naturally fluctuating raw material qualities into robust processes.

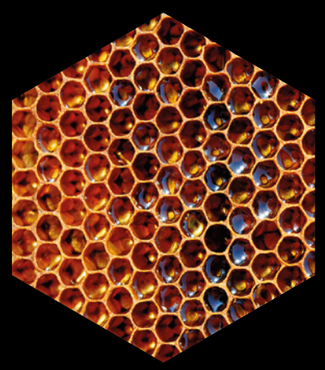
Chewable tablets and lozenges
Producing demanding textures, flavor profiles, and geometries with reliable process control.



Multi-layer tablets
More function, more design, more differentiation – in just one product.



Functional confectionery and pastilles
Handle even sticky or challenging mixtures at high throughput.



Special shapes and design products
Custom tablet geometries for a strong market presence.

Quality and Efficiency
Optimally prepared for complex requirements

Nutrition manufacturers face the challenge of producing a wide variety of products quickly, safely, and above all cost-effectively. With a deep understanding of materials, processes, and their individual requirements, we support you with the right technology and comprehensive services.

Process fluctuating raw materials with confidence
We help you identify Critical Material Attributes (CMAs) early and manage them effectively.

Get to stable formulations faster
With R&D services, our decades of expertise, and our digital knowledge database QED, we work with you to cut development times and accelerate your time-to-market.

Handle frequent product changes efficiently
Our cleaning-friendly designs and flexible machines reduce setup and downtime along with the associated effort.

Master challenging substances
Systematically optimize sticky, moisture-sensitive, or poorly flowing mixtures.

Maintain high output with constant quality
Process reliability and reproducible results are central to all our solutions.

Combine flexibility and cost-effectiveness
From small batches to large runs, we work with you to define the ideal production strategy.

From Formulation to Production Solution

Making the right decisions from the start

Given the wide range of raw materials and their varying properties, understanding materials and formulations early is critical for nutrition products – as is designing robust processes and selecting the right production strategy.

With our comprehensive R&D Solutions, we support you in making the right decisions from the start to implement robust processes and cost-effective manufacturing solutions.

Understanding your materials
We support you in raw material analysis, identify critical properties, and evaluate interactions that are key to successful production.

Defining processes
We determine the optimal machine settings and process parameters for your formulation. Emulators and dedicated development technologies help you reduce risks early on.

Developing and testing formulations
Based on material characterization, we advise you on selecting the optimal formulation. Through product trials, we establish a solid basis for tablet design, stability, and processability of your powders.

Streamlining scale-up
We translate test results seamlessly into proven production concepts, laying the foundation for smooth, cost-effective series production.

Brochure: R&D Solutions

Batch Production or Continuous Manufacturing?

The right strategy for your product

Just as nutrition products vary widely, so does the optimal manufacturing process. What matters most is which strategy fits your individual formulation, batch size, flexibility requirements, and efficiency goals best.

Fette Compacting supports you in this decision and offers the right solution for both classic batch production and Continuous Manufacturing.

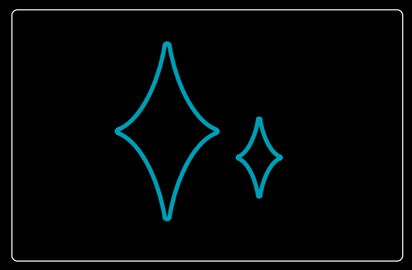
Batch production
Ideal for flexible applications, frequent product changes, and specialized products. It delivers high adaptability and remains the right choice for many nutrition processes.

Continuous Manufacturing
The best choice when robust formulations, end-to-end processes, and high efficiency are the priority. Fewer process steps can save time, energy, and materials.

Brochure: Production Services

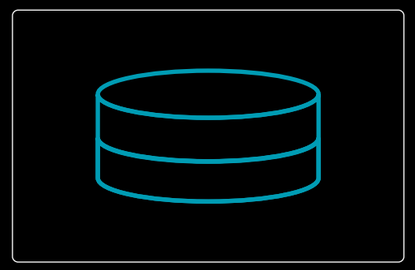
Our Production Solutions
Technology from the world market leader

Whether small batches, series production, or Continuous Processes: Fette Compacting offers you technically superior tableting solutions perfectly matched to the requirements of nutrition production.



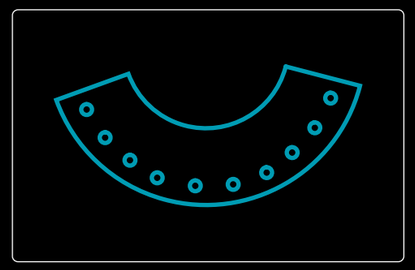
Refurbished machines

The cost-effective way into nutrition production.



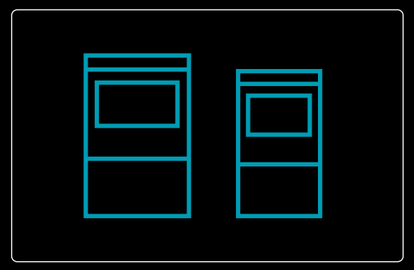
Tableting tools and process equipment

Matched to your product, powder behavior, and process objective.



Special solutions

For multi-layer tablets, special geometries, and demanding formulations.



Machine series

Tablet presses for every production need – from efficient stand-alone solutions to Continuous Processing Systems.

i Series – Versatile options, no compromises
p Series – Simply efficient production
FE Series – Flexibility at the highest level
FE CPS – The new standard in Continuous Direct Compression

Brochure: Process Equipment

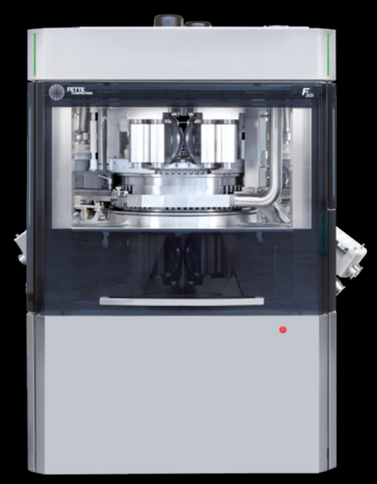
Brochure: Tableting Tools

Our Production Solutions
Technology from the world market leader

i Series

F10i The powerful, quickly adaptable single rotary tablet press for smaller batches.

F20i The all-rounder for a broad spectrum of products and batch sizes.



F30i The high-performance double rotary tablet press for maximum efficient production of large batches.

Versatile options, no compromises
Varying formulations, different batch sizes, high demands on output: The i Series is built for exactly this kind of variety. The Pmax® turret significantly boosts output, while cross-generation system compatibility ensures smooth operation. Convenient operation is ensured by the intuitive HMI operating software and the SmartInterface, which connects the tablet press to the company network and provides production and process data in real time.

The F20i and the F30i are ready for future use in Continuous Direct Compression with the FE CPS and embedded Process Analytical Technology (ePAT). This gives you the foundation to monitor product quality in real time whenever needed.

p Series

F10p Compact specialist for small batches and clinical samples.

F20p The all-rounder for maximum flexibility across variable batch sizes.

F30p The powerhouse for high-speed large-scale production.

Simply efficient production
Productive, universal, robust, and efficient: Following the PURE principle, the p Series focuses on the essentials. A gearless torque-drive reduces energy consumption, the cleaning-friendly design speeds up product changeovers, and the integrated control cabinet saves floor space.

Thanks to uniform assemblies, formulations can be transferred seamlessly between models. This makes it easy to move from the compact F10p for small batches to the F30p powerhouse for large-scale production – without revalidation and with consistently low operating costs. The F20p serves as the mid-sized model in the p Series, offering maximum flexibility with variable batch sizes.

Our Production Solutions
Technology from the world market leader

FE Series

FE35 The specialist for small batches – with the fastest product change-over time in its class.

FE55 The all-rounder that tackles your tableting challenges: Productive, efficient, and flexible.

FE75 The double rotary tablet press delivers peak performance for high-volume production of demanding products.

Flexibility at the highest level
Frequent product changes and demanding powders are everyday realities in nutrition production. The FE Series rises to these challenges. The TRI.EASY Design enables tool-free disassembly and rapid cleaning. The proven three-chamber filling system Fill-O-Matic ensures precise dosing even with hard-to-flow mixtures.

The FE Series spans from the FE35 for small batches to the double rotary tablet press FE75 for maximum output. The FE55 – the all-rounder of the range – and the FE75, in combination with the FE CPS, also form a proven solution for Continuous Production.

FE CPS

FE CPS The new standard in Continuous Direct Compression

Produce continuously, produce better
Compact, flexible, and cost-effective: The FE CPS takes Continuous Direct Compression to the next level. Within a small footprint and a standardized system, it combines linearly arranged feeding, an innovative dosing-blending-conveying module, and an ultrasonic transport system for uniform powder flow. With throughput ranging from 5 to 400 kg/h, it is suitable for both developing new formulations and running series production.

Cleaning and product changeovers take less than one shift thanks to the TRI.EASY Operating Concept. Fully embedded Process Analytical Technology (ePAT) ensures gap-free quality control across the entire production flow.

References
Practical insights

Our tableting solutions prove themselves worldwide in day-to-day production among nutrition industry customers. To learn more about our selected case studies and additional references, please get in touch with us.

Cost-efficient growth
By-Health has experienced strong growth amid Chinese health reforms and today produces over five billion tablets annually in Zhuhai. To reliably meet the high demand, the company relies on tableting solutions from Fette Compacting that combine cost efficiency, precision, quality, and safety. As a result, output has increased to over 99 percent while the number of reject tablets has been reduced to nearly zero.

100 percent natural
Processing the delicate Chinese caterpillar fungus was long considered virtually impossible – especially without additives. Only with support from Fette Compacting did it become possible to gently compress the natural product into tablets with consistent quality. Today, Macao Fu Yi Tang successfully produces several batches per year from it.

The perfect mix
waterdrop® develops effervescent tablets from natural fruit and plant extracts that must be stable yet dissolve quickly in water. Working with Fette Compacting, the formulation was optimized through numerous trials and a custom special shape was developed for the characteristic cube design. As a result, the product was reliably brought to market in tablet form.

For every powder blend
sanotact produces functional confectionery and dietary supplements in wide variety, with high demands on flexibility and output. In collaboration with Fette Compacting, the company has found solutions to reduce setup and cleaning times even with challenging powder blends. The result is high-performance production at consistently high product quality.

Explore More Products and Services

Complete brochure overview:
www.fette-compacting.com/en/downloads

p Series

The p Series provides tablet presses for all batch sizes – from R&D to large-scale production. Following the PURE principle, they deliver high performance, standardized technology, and low operating costs. Their compact, easy-to-clean design ensures safe and smooth operation.

+ F10p: Compact specialist for small batches and clinical samples
+ F20p: Flexible all-rounder with exceptionally fast changeover times
+ F30p: High-performance tablet press for high-volume production

Brochure: p Series

FE CPS

Continuous Manufacturing delivers efficiency and quality benefits. The FE CPS is a compact solution that is easy to install. It offers the flexibility needed for product changeovers and for process-driven formulation development. The FE CPS paves the way from lab to serial production.

+ Operation, maintenance, and changeover – easy, safe, and fast
+ Processing of numerous formulations from 5 to 400 kg/h
+ Cleaning and product changeover in less than one shift

Brochure: FE CPS

FE Series

The FE Series stands for high performance, flexible applications, and process-reliable production. It ensures quality and efficiency in tableting and, combined with the FE CPS, enables reliable continuous production. The FE Series unites innovation and user-friendliness.

+ FE35: Specialist for small batches and fast product changeovers
+ FE55: The all-rounder – productive, efficient, and flexible
+ FE75: Double rotary tablet press for maximum output

Brochure: FE Series

R&D Solutions

Our R&D Solutions guide you from the first powder analysis all the way to validated serial production. Based on the Quality by Design (QbD) principle and cutting-edge technology, we minimize scale-up risks and shorten your time-to-market – for robust, scalable, and reliable tableting processes.

+ Efficient formulation development
+ Production-like process development
+ Seamless scale-up and secure technology transfer
+ Global training program

Brochure: R&D Solutions

i Series

The i Series delivers solutions for higher performance and easy handling – even in demanding productions. With cross-generation system compatibility and intuitive controls, the i Series simplifies manufacturing and boosts productivity – from start-ups to major pharmaceutical companies.

+ F10i: Easy to adapt and ideal for smaller batches
+ F20i: High-performance across a broad range of applications
+ F30i: Double rotary tablet press for large batches

Brochure: i Series

Production Services

Our Production Services provide comprehensive support for your tablet production – from initial commissioning to process optimization in day-to-day operation. Our experts ensure maximum machine availability, minimal downtimes, and future-proof systems.

+ Technical support and fast spare parts management
+ Data-driven process optimization and fleetmanagement
+ Machine modernization and refurbished pre-owned machines
+ Global training program

Brochure: Production Services

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