



Together – from lab to production

Holistic process partnership
for faster time-to-market



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 lifecycle 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 lifecycle – and a partnership that delivers real value.



Quality by Design and Qualified Experts-Database

The foundation for efficient production of solids

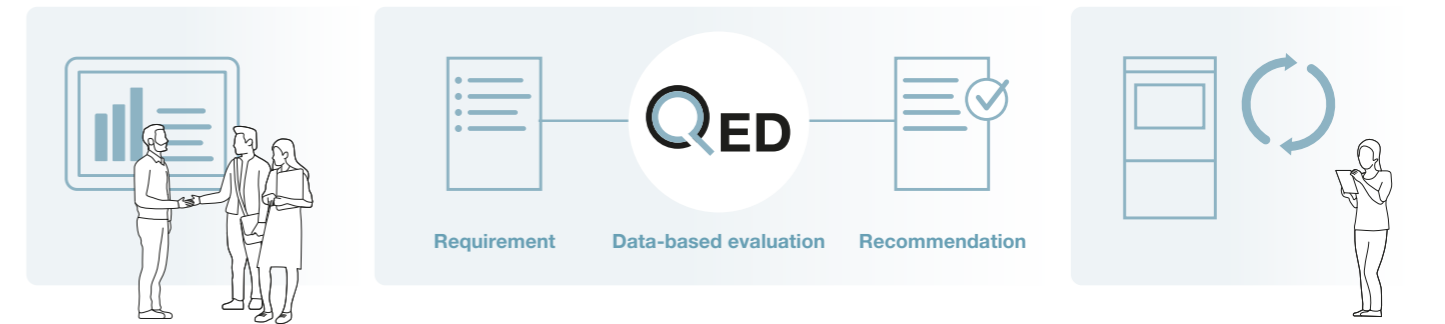
Quality is not a coincidence – it is built into the design

Excellent tablets are the result of systematic planning, which is why we embrace Quality by Design (QbD). By understanding all key production elements and material properties, we ensure that quality is not just checked at the end of production, but is embedded in the product from the very beginning.

For robust processes, we examine the interactions between Critical Material Attributes (CMAs), Critical Process Parameters (CPPs), and Critical Quality Attributes (CQAs). By understanding how material and machine interact and how they influence quality, we work with you to define the proven process space where your production runs consistently, reproducibly, and at flawless quality.



Optimized formulation and process development with QED



QTPP	CQAs	CMAs	CPPs	CPPs
Customer provides materials and requirements		Material characterization and analysis	Prediction of process parameters	Verification and optimization of predicted process parameters ✓

QTPP = Quality Target Product Profile
 CQAs = Critical Quality Attributes
 CMAs = Critical Material Attributes
 CPPs = Critical Process Parameters

The optimal solution with minimal investment of time and material

A knowledge edge at every stage of development

Quality by Design delivers the plan; QED delivers the answers. With the Qualified Experts-Database (QED), Fette Compacting has built an extensive data platform that draws on more than 75 years of tableting experience. It links formulation and process expertise and serves as a solid decision-making basis throughout development and production. AI-driven analyses, based on a patented method, enable early predictions for optimal process development. Our experts verify these predictions and advise you based on the QED with maximum efficiency. This saves you valuable time on the path to market readiness.

The strengths of the QED:

- + Links multivariate material data with real production and quality data
- + Covers an outstanding range of machines, format parts, and process variants
- + Uses AI to reliably analyze and predict complex interactions
- + Significantly reduces development effort, trial runs, and material consumption
- + Delivers concrete, practice-oriented recommendations for robust and efficient processes

From Concept to Series Production

How we support you throughout the entire production lifecycle

Research & Development

Production



Extended range of services along the process chain:



- › 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

R&D Services

Our formula for your efficient research

With Fette Compacting's R&D Services, you expand your capabilities in pharmaceutical development. Whether you face a specific challenge or want to optimize your entire development process: Our experts support you with in-depth know-how and cutting-edge infrastructure.

We flexibly support you wherever you need it: from the first material analysis through the development and optimization of formulations to reliable transfer into production. You benefit from fast results, proven strategies, and a collaborative partnership that frees up your resources and keeps your projects on track.



R&D Services

Further information about our services and training offerings for R&D can be found in our "R&D Solutions" brochure.



Brochure: R&D Solutions

Formulation Development

Theoretical Formulation Development

Assessment of your tablet formulation, including recommendations for excipients and process design.

Material Characterization

Analysis of raw material properties as the foundation for scalable manufacturing processes.

Feasibility Studies

Early evaluation of formulations and processes to minimize risk.

Tablet Characterization

Testing of quality-relevant tablet properties in line with Ph. Eur. methods.

Powder Compaction Analysis

Analysis of compaction behavior to optimize formulation and process.

Feeder Characterization

Analysis of how your powders behave during dosing – identifying stability limits.

HPLC

Analytical services for research, method development, validation, and quality control.

Process Development

Process Design Space

Defining the safe parameter range for stable and quality-compliant production processes.

ePAT Development

Implementation of data-driven in-line process controls using near-infrared spectroscopy (NIR).

Process Dynamics & State of Control

Development of models for process control and complete batch traceability.

Control Strategy

Defining optimal control parameters to ensure long-term production stability.

Technology Transfer

Process Transfer

Safe, validated transfer of your processes from the lab to the GMP production environment.

Clinical Batch

Comprehensive support for GMP-compliant manufacturing and release of clinical trial batches.

Stability Studies

GMP-compliant manufacturing, documentation, storage, and operational execution of stability studies for your tablets.

Services for Production

Close to your machine – just like you

Our Production Services provide holistic support for your tablet presses and production lines – from seamless commissioning through ongoing maintenance to data-driven process optimization. Complex products and stringent regulatory requirements place the highest demands on operations, so you need a partner who understands your machines down to every detail. With world-wide support, fast spare parts supply, and predictive maintenance, we ensure that your machines operate at peak efficiency, in full regulatory compliance, and with maximum cost-effectiveness. We make your production future-proof.



Production Services

Further information about our services and training offerings for production can be found in our “Production Services” brochure.



Brochure: Production Services

Production

Ramp-up Support

We support you directly after the qualification phase at the machine to minimize start-up risks and ensure a fast, regulation-compliant production start.

Technical Customer Support

Our global expert network ensures maximum machine availability through fast remote support, on-site assistance, and scheduled maintenance.

Spare Parts Management

With our digital spare parts catalog (eCAT) and worldwide logistics network, we supply you quickly and accurately with original parts (OEM).

Process Optimization

FMECA Service

We proactively identify and assess potential risks to minimize downtime through optimized spare parts inventory.

Process Support Production

By systematically gathering and evaluating your production data, we uncover untapped potential and lay the groundwork for efficiency gains.

Fleetmanagement

We take a holistic view of your machine fleet and develop tailored strategies to optimize utilization and maximize your return on investment (ROI).

General Refurbishment

We offer professionally refurbished, individually configured used machines as a cost-efficient and high-performance alternative to new purchases – and on request, we also modernize and overhaul your existing machines.

Machine Modernization

With targeted performance upgrades and modernizations, we bring your proven machines up to the latest standards in technology and safety.

FE CPS

Continuously better

The FE CPS transforms Continuous Direct Compression. As a compact, safe, and cost-efficient solution, the FE CPS is attractive for both small and large production runs. In combination with a tablet press, it supports the entire product lifecycle from early-stage development to series production.

The process design of the FE CPS drives efficiency and product quality. This makes Continuous Manufacturing viable and accessible – enabling faster market launches and more sustainable production.

What sets the FE CPS apart:

- + Modular: Operates standalone or in a line with a tablet press
- + Compact: Fits into existing production rooms thanks to its small footprint
- + Simple: Intuitive operating concept (TRI.EASY)
- + Flexible: Universal design for throughputs from 5 to 400 kg/h
- + Safe: Strict separation of process and technical area for optimal Containment
- + Fast: Minimal setup times – cleaning and changeover in under one shift
- + Controllable: Integrated embedded Process Analytical Technology (ePAT) for end-to-end quality



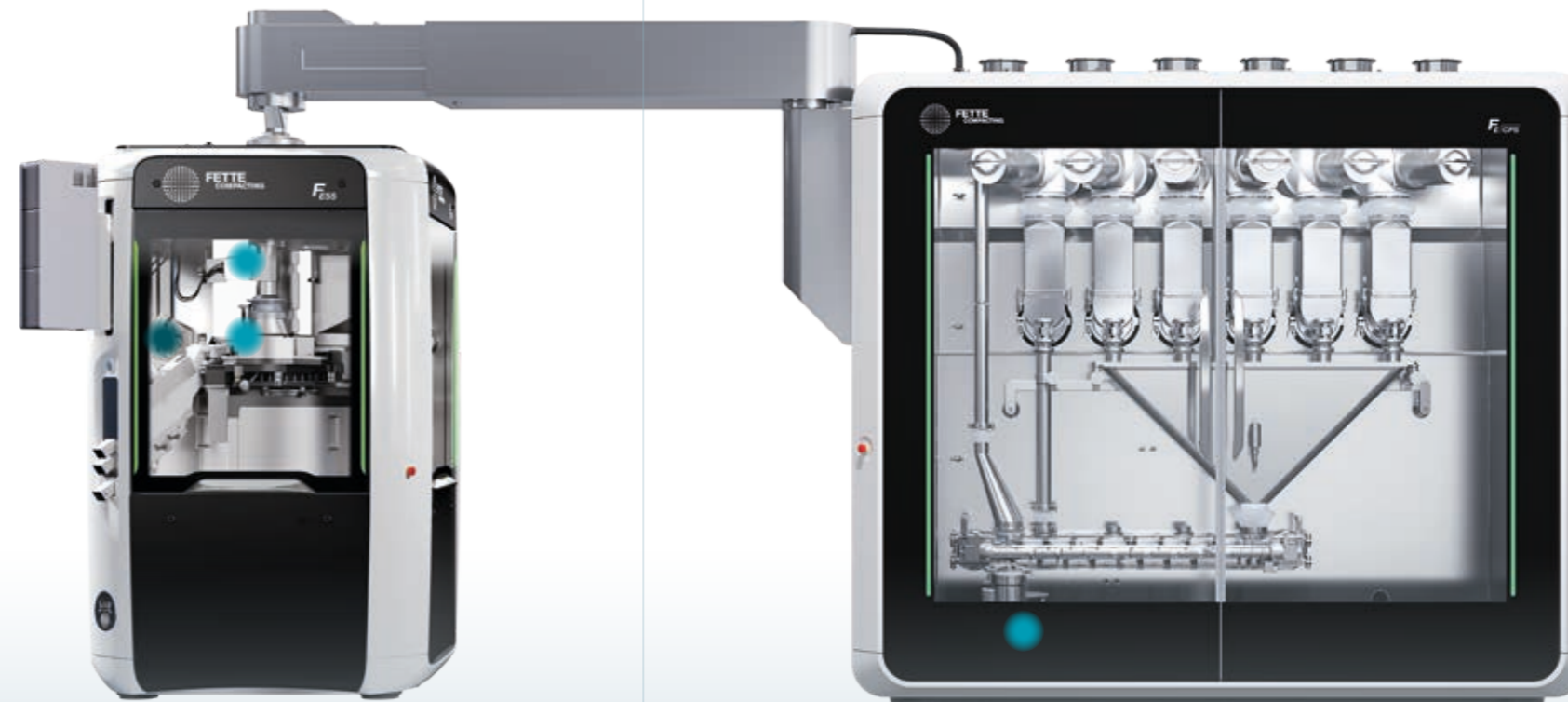
TU-Sensor



BU-Sensor

ePAT

ePAT, embedded Process Analytical Technology



FE/CPS



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

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



Global Training Program

With our global training program, we bridge the gap between theory and practice and help you unlock the full potential of your tableting processes. We offer tailored modules for every phase of your process – from development to maintenance.

- + Standard modules and customized training programs
- + Certification according to 21 CFR
- + Flexible delivery at your site or at our Competence Centers
- + Global training program in six languages



Brochure: Global Training Program

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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