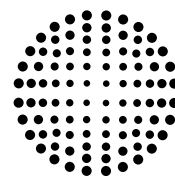




Together – from lab to production

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.

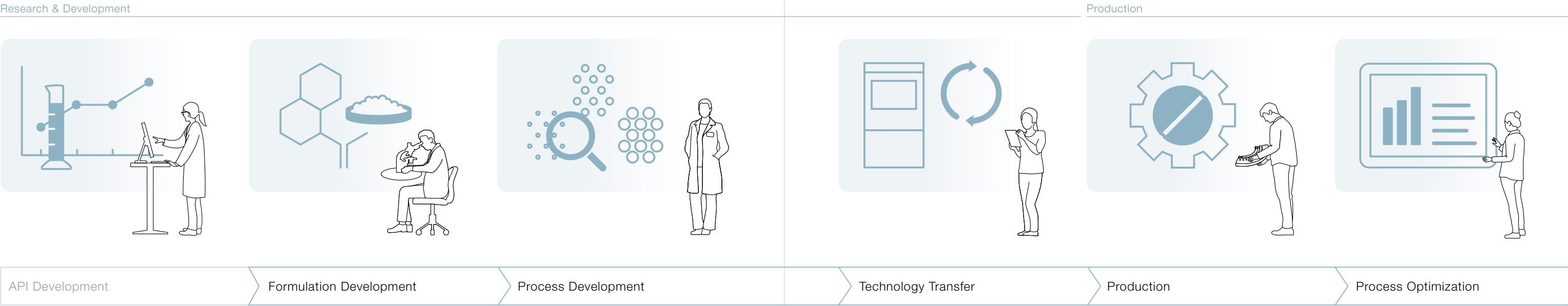
That way, you find the right solution for every product and get it to market faster. With our global network of five Competence Centers in Germany, China, the USA, India, and Brazil, along with 13 subsidiaries and representatives in 50 countries, we are always right where you need us.

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.



From Concept to Series Production

How we support you throughout the entire production lifecycle



Analytical Services

Extended range of services along the process chain:



Formulation Development	Process Development	Regulatory Support	Production Support
Material Characterization	Control Strategy	Process Transfer and Validation	Performance Consulting

- › 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

Quality by Design and Qualified Experts-Database

The foundation for efficient production of solids

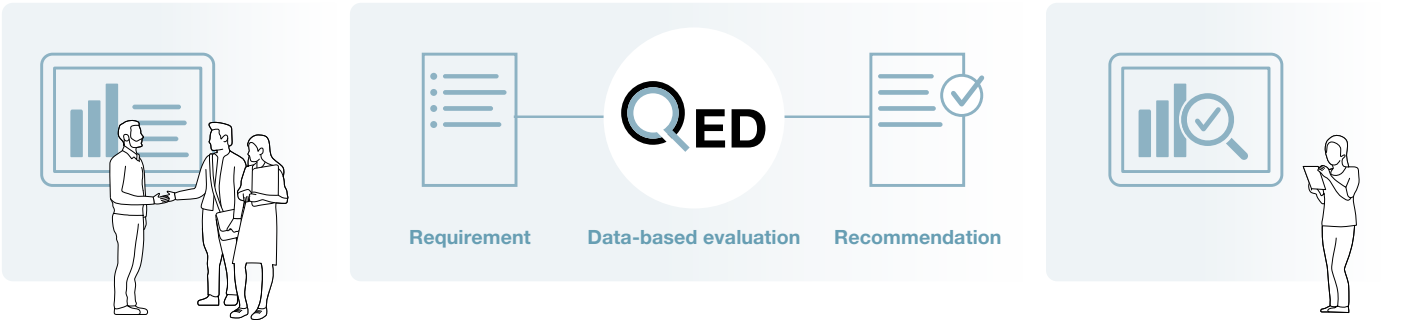
Quality is not a coincidence – it is built into the design

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

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

Analysis

Material Characterization

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

Tablet Characterization

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

HPLC

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

Formulation Development

Theoretical Formulation Development

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

F Lab 10

Understand powders before production begins.

Powder Compaction Analysis

Analysis of compaction behavior to optimize formulation and process.

Feasibility Studies

Early evaluation of formulations and processes to minimize risk.

Process Development

FE CPS Process Emulator

Precision in continuous dosing.

Feeder Characterization

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

ePAT Emulator

The basis for reliable in-line measurements of tablet uniformity.

ePAT BU Emulator

Understanding powder dynamics in the filling system.

ePAT Development

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

Galenic-Tablet Press 102i

Production-ready formulation for direct scale-up.

Process Design Space

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

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.

Training Program

Practical training for safe operation, reliable data interpretation and successful scale-up into production.

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

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.

Training Program

Practice-oriented, certified training gives your team the expertise needed to operate your equipment safely and efficiently – worldwide and in six languages.

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).



Modernization and Preservation of Value

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.

Production Services

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



Brochure: Production Services

FE CPS

Continuously better

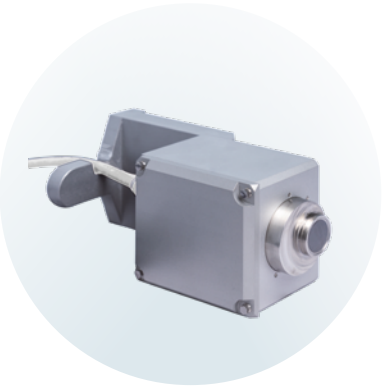
The FE CPS transforms Continuous Direct Compression. As a compact, safe, and cost-efficient solution, the FE CPS is attractive for both small and large production runs. In combination with a tablet press, it supports the entire product lifecycle from early-stage development to series production.

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



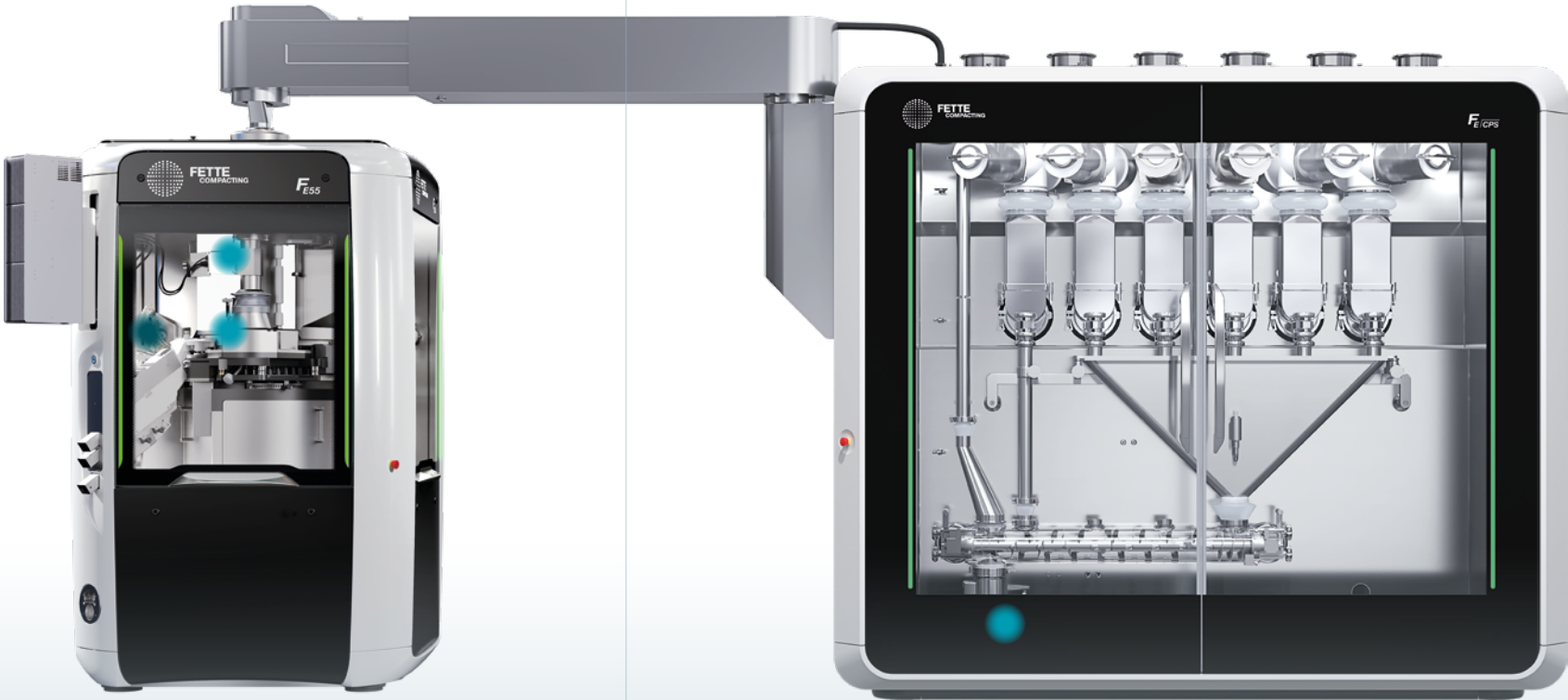
TU-Sensor



BU-Sensor

ePAT

ePAT, embedded Process Analytical Technology



FE CPS



Brochure: 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

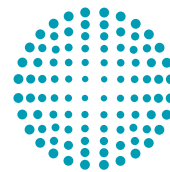
Our Production Services provide comprehensive support for your tablet production – from initial commissioning to process optimization in day-to-day operation. Our experts ensure maximum machine availability, minimal downtimes, and future-proof systems.

- + 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




FETTE
COMPACTING

Europe

Fette Compacting GmbH

Grabauer Strasse 24
 21493 Schwarzenbek, Germany
 Phone +49 4151 12-0
tablet@fette-compacting.com

Fette Compacting Ibérica SL

Avenida Labradores, 1
 2ª Planta, Oficina 3
 28760 Tres Cantos, Spain
 Phone +34 91 8039689
fcib@fette-compacting.com

Fette Compacting France

10 Allée Bienvenue
 93160 Noisy-le-Grand, France
 Phone +33 155 812121
fcf@fette-compacting.com

Fette Compacting Italia Srl

Via Bruno Tosarelli, 155
 40055 Bologna, Italy
 Phone +39 340 5603976
fcit@fette-compacting.com

Fette Compacting Belgium BV

Schaliënhoeverdreef 1b
 2800 Mechelen, Belgium
 Phone +32 15 684260
fcbe@fette-compacting.com

EuroPharma Machinery Ltd

Unit 12 Highview
 Bordon, Hampshire, GU35 0AX
 United Kingdom
 Phone +44 1420 473344
admin@europharma.co.uk

Asia

Fette Compacting (China) Co., Ltd.

No. 9 Shengtong Road,
 Moling Sub-District,
 Jiangning Development Zone,
 211111 Nanjing
 Jiangsu Province, P.R.C., China
 Phone +86 25 52121818
fcn@fette-compacting.com

Fette Compacting Machinery India Private Limited

Plot No. S 115, Phase III B
 Verna Industrial Estate
 Verna, Goa 403 722, India
 Phone +91 90498 54568
marketing-in@fette-compacting.com

Fette Compacting Asia Pacific Pte Ltd.

2 Bukit Merah Central #18-01
 Singapore 159835, Singapore
 Phone +65 6371 1556
infoasiapacific@fette-compacting.com

Fette Compacting Middle East FZE

Jebel Ali Free Zone, Jafza
 Lobby 14, Office 308, Dubai
 United Arab Emirates
 Phone +971 4 8808226
dubai@fette-compacting.com

North America

Fette Compacting America, Inc.

400 Forge Way
 Rockaway, NJ 07866, USA
 Phone +1 973 5868722
sales@fetteamerica.com

Latin America

Fette Compacting America Latina Ltda.

Av. Cambacica, 610 módulo 10
 Parque Imperador
 CEP 13097-160
 Campinas / SP, Brazil
 Phone +55 19 37969910
fcsl-info@fette-compacting.com

Fette Compacting Mexico, SA de CV

Adolfo Prieto No. 1638
 Colonia Del Valle Sur
 03100 CDMX, Mexico
 Phone +52 55 40000653
tablet@fette-compacting.com

Africa

Fette Compacting North-West Africa

Résidence les Jardins, Bt B, Chéraga
 16000 Algiers, Algeria
 Phone +213 770 117 007
fcnwa@fette-compacting.com

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