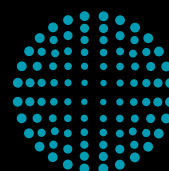




Solutions for the Production of Solids

One Partner. Maximum Efficiency.



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.

Our Strategic Approach

- 4 together – from lab to production**
Holistic process partnership for faster time-to-market
- 6 Quality by Design and Qualified Experts-Database**
The foundation for efficient production of solids

Research and Development

- 8 R&D Solutions: The Reliable Path to Market Readiness**
Data-driven. Scalable. Safe.
- 9 Powder Compaction Analyzing Unit F Lab 10**
Understanding powders before production begins
- 10 Emulators**
Process development close to production
- 12 Galenics-Tablet Press 102i**
Production-related galenics for direct scale-up
- 14 R&D Services**
Our formula for your efficient research

Production

- 16 Services for Production**
Close to your machine – just like you
- 18 FE CPS**
The new standard in Continuous Direct Compression
- 20 ePAT**
Integrated process analytics for Continuous Manufacturing and batch production
- 22 FE Series**
Flexibility at the highest level
 - 23 FE35
 - 24 FE55
 - 25 FE75
- 26 i Series**
Versatile options, no compromises
 - 27 F10i
 - 28 F20i
 - 29 F30i
- 30 p Series**
Simply efficient production
 - 31 F10p
 - 32 F20p
 - 33 F30p

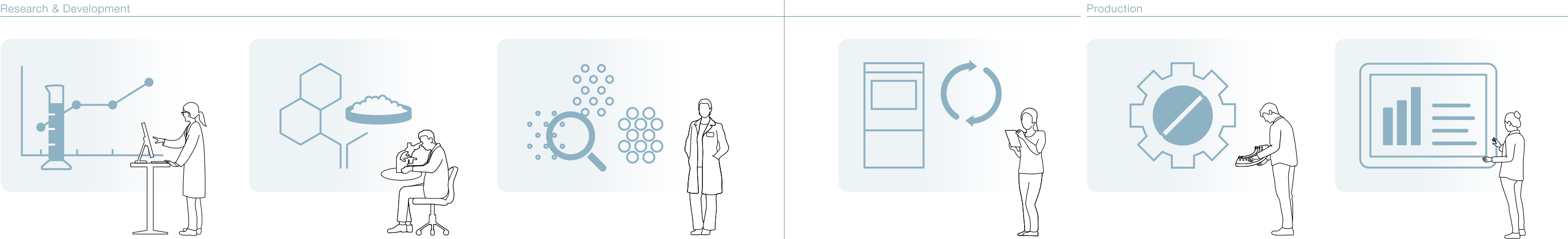
- 34 Containment Guard**
Processing active ingredients safely
 - 35 FE55 with Containment Package
 - 36 FE75 with Containment Package
 - 37 F10i Containment Guard
 - 38 F20i Containment Guard
 - 39 F30i Containment Guard
- 40 Wash in Place**
Clean safely, produce faster
 - 41 1090i WiP
 - 42 2090i WiP
 - 43 3090i WiP
- 44 Tableting Tools**
Always in top form
- 46 Process Equipment**
Seamless processes in production and active ingredient analysis
- 48 Handling Systems & More**
Fast changeovers – keep things moving
- 49 EasyCare**
Safe and efficient handling of tableting tools
- 50 SmartInterface**
Real-time data, anytime and anywhere

General

- 51 Global Training Program**
Knowledge that works. From lab to production.
- 52 Next Level Nutrition**
Tableting solutions for food and supplements

Together – from lab to production

Holistic process partnership for faster time-to-market



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



Brochure: Together – from lab to production

Quality by Design and Qualified Experts-Database

The foundation for efficient production of solids

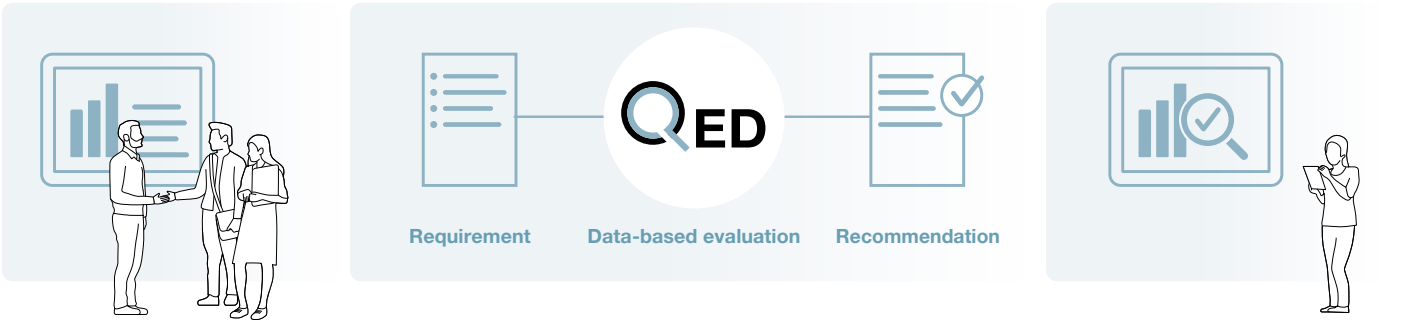
Quality is not a coincidence — it is built into the design

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 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 exceptional 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 Solutions: The Reliable Path to Market Readiness

Data-driven. Scalable. Safe.

The path from the first formulation idea to industrial production is complex and often fraught with risk. Critical questions arise: Will the powder behave on the high-performance machine the same way as in the lab? Are the processes stable and economically scalable?

With Fette Compacting's R&D Solutions, you significantly accelerate this process. We offer a seamless system of laboratory equipment, process expertise, and services to eliminate uncertainties early on.

Instead of catching deviations during ongoing production, we identify them in the development phase. Whether through precise lab analyses, emulator trials, or test runs on the galenics-tablet press: We provide the physical and data-driven foundation for informed decisions. The result: robust processes and a significantly shorter time-to-market.

Powder Compaction Analyzing Unit F Lab 10

Understanding powders before
production begins

To avoid costly errors in tableting, full transparency into material properties is essential. The F Lab 10 characterizes the compaction behavior of powders with minimal material usage.

The system comprehensively analyzes active ingredients and excipients and delivers precise data for the entire product life cycle. It enables early identification of critical material attributes and the development of robust formulations before production starts on large-scale machines.



F_{Lab 10}

Maximum load	1,000 kg
Punch size range (diameter)	3–15 mm
Compaction speed	0.01–3 mm / s
Data capture rate	200 Hz
Load cell travel	40 mm
Load cell resolution	1:5,000
Calibration	Dead weights or proving ring
Power requirement	90–240 VAC 3.15 A
Dimensions	320 × 285 × 388 mm
Weight	24 kg



Brochure: R&D Solutions

Emulators

Process development close to production

The scale-up from lab to production is a critical phase. Simulators reach their limits here because they can only replicate complex physical effects to a limited extent. Our emulators, by contrast, faithfully reproduce the physics and mechanics of production-scale machines – without tying up valuable capacity on your high-performance equipment.

The advantages: You reliably validate critical parameters and analytical methods, save expensive active ingredients, minimize scale-up risks, and transfer the data directly to the production line.



FE CPS
Process Emulator

Precision in Continuous Dosing
The FE CPS Process Emulator physically replicates the dosing process of the production machine (FE CPS) at a 1:1 scale. It uses identical Loss-in-weight feeders and refill systems. This allows dosing parameters, screw types, and refill strategies to be systematically tested.

- + Direct scale-up: Recipe transfer via “plug-and-play” without conversion factors
- + Independence: Test refill strategies and flow behavior without tying up ongoing production
- + Material efficiency: Process optimization with minimal raw material usage

Electrical supply parameters	Operating voltage 400–480 V, Frequency 50–60 Hz
Power supply	3 phase + PE
Dimensions L × W × H	1,642 × 822 × 2,047 mm
Weight	650 kg
Supply air volume flow	50 m³ / h
Compressed air supply	6 bar, 300 l / min
Exhaust air volume flow	50 m³ / h
Connection to exhaust air system	33.7 mm
Network connection	RJ45
Display	19" touch display
Number of dosing stations	1
Throughput capacity	0.7–340.1 kg / h *

* depends on configuration



ePAT
Emulator

The Foundation for Reliable In-line Measurements
This emulator establishes the foundation for controlling tablet uniformity within the embedded Process Analytical Technology (ePAT). The system precisely emulates the dynamics of the tablet press: Tablets pass the sensor at the same speed and trajectory as in the actual process.

- + Process reliability: Validation of analytical models before production starts
- + Precise analytics: Optimization of spectrometer settings under real dynamic conditions
- + Resource efficiency: Representative tests and calibrations with a minimal number of tablets

Electrical supply parameters	Operating voltage 230 V, Frequency 50 Hz
Dimensions L × W × H	1,656 × 592 × 1,027 mm
Weight	298–337 kg *
Main air inlet/outlet	98 m³ / h
Air inlet/outlet	19 m³ / h
Network connection	RJ45
WLAN	Current and older WiFi standards
Display	19" touch display

* depends on configuration



ePAT
BU Emulator

Understanding Powder Dynamics in the Feeding System
The system physically replicates the feeding device and powder supply. An integrated BU sensor measures powder homogeneity directly in the feeding device. This enables powder behavior analysis without starting a compression cycle.

- + Deep process understanding: Development of spectroscopic methods under realistic filling conditions
- + Material efficiency: Resource-conserving reuse of uncompressed powder
- + Clear focus: Dedicated analysis of the filling process without tying up tablet press capacity

Electrical supply parameters	Operating voltage 400–480 V, Frequency 50–60 Hz
Power supply	3 phase + PE
Dimensions L × W × H	1,235 × 675 × 2,010 mm
Weight	325 kg
Supply air volume flow	150–200 m³ / h
Exhaust air volume flow	150–200 m³ / h
Connection to exhaust air system	47.5 mm
Network connection	RJ45
Display	19" touch display

 ePAT sensor position

Galenics-Tablet Press 102i

Production-related galenics for direct scale-up

The 102i tablet press is the ideal solution for lab operation and galenical development. All parameters determined in the lab can be directly transferred to production-scale machines.



Tablet

Number of layers 1-, 2-, 3-layer
max. tablet output 230,400 units/h
max. tablet output Pmax® 324,000 units/h
max. tablet diameter 25 mm



Dies (D)/ Segments (S)		D	D	D	D	D	D	D	D	S	S	S	S	
Number of punch stations		6	6	16 (8+8)	16 (8+8)	20	32	30	24	21	24	30	45	
Punch type		FS19® EU19 TSM19 B	EU1" TSM1"	FS19® EU19 TSM19 B	EU1" TSM1"	EU1" EU1"-441 TSM1" D	FS19® EU19 TSM19 BBS	FS19® EU19 TSM19 BB	FS19® EU19 TSM19 B	EU1"-441 EU1" TSM1"	EU1" TSM1"	FS19® EU19 TSM19	FS12®	
Tablet output units/h		min.	9,000	9,000	24,000 (12,000)	24,000 (12,000)	30,000	48,000	45,000	36,000	31,500	36,000	45,000	67,500
		max.	43,200	36,000	96,000 (48,000)	96,000 (48,000)	120,000	230,400	216,000	172,800	126,000	144,000	216,000	324,000
Max. compression force 1*		kN	80	80	80	80	80	80	80	80	80	80	80	34
Max. compression force 2*		kN	80	80	80	80	80	80	80	80	80	80	80	34
Max. tablet diameter		mm	16	25	18	25	25	11	13	18	25	25	18	11
Max. filling depth 1st layer**		mm	18	18	18	18	18	18	18	18	20	20	20	20
Pitch circle diameter		mm	280	280	280	280	280	280	280	280	280	280	280	280
Turret rotation speed min.		min ⁻¹	25	25	25	25	25	25	25	25	25	25	25	25
max. (laboratory operation)		min ⁻¹	120 (150)	100 (100)	100 (100)	100 (100)	100 (100)	120 (150)	120 (150)	120 (150)	100 (150)	100 (150)	120 (150)	120 (150)
Die diameter		mm	30.16	38.1	30.16	38.1	38.1	22	24	30.16	–	–	–	–
Die- /segment height		mm	22.225	23.8	22.225	23.8	23.8	22.225	22.225	22.225	25	25	25	25
Punch shaft diameter		mm	19	25.35	19	25.35	25.35	19	19	19	25.35	25.35	19	12
Punch length Upper / lower punch		mm	133.6 (133.35)	133.6 (133.35)	133.6 (133.35)	133.6 (133.35)	133.6 (133.35)	133.6 (133.35)	133.6 (133.35)	133.6 (133.35)	133.6 (133.35)	133.6 (133.35)	133.6 (133.35)	133.6
Upper punch insertion depth		mm	1–4 (8***)	1–4 (8***)	1–4 (8***)	1–4 (8***)	1–4 (8***)	1–4 (8***)	1–4 (8***)	1–4 (8***)	1–4 (8***)	1–4 (8***)	1–4 (8***)	1–4 (8***)
Dimensions L × W × H		mm	920 × 1,136 × 1,875											
Weight		Tablet press 1,700–2,500 kg, operating terminal 100 kg												
Electrical supply parameters		Operating voltage 400–480 V, 50/60 Hz, power consumption 8.4 kW												

Theoretical values and technical limits: These may vary in practice depending on the product and application.
Tablet thickness is a product-dependent variable and can vary significantly.
* limited by punch properties
** special filling depth available on request
*** multi-layer operation

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.

Fleet Management

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



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

The new standard in Continuous Direct Compression



Pharmaceutical solid dosage production is undergoing a paradigm shift: The transition from classic batch processing to Continuous Manufacturing delivers considerable efficiency and quality gains. Until now, complex systems with large footprints have been a barrier to adoption. This is precisely where Fette Compacting steps in, rethinking Continuous Direct Compression from the ground up.

With the FE CPS, we introduce a groundbreaking solution based on a rigorous Quality by Design approach. Instead of large mixing tanks and complex transfer systems, the FE CPS integrates all process steps – from precise dosing through homogeneous mixing to reliable powder transport – into a single, standardized machine concept. Material flows continuously in a single stream and is synchronized and monitored in real time.

FPTS by DEC

The last mile makes the difference: The Fette Compacting Powder Transfer System (FPTS) gently conveys homogeneous powder blends without segregation in a fully closed system to the tablet press or other downstream equipment.

Your Advantages at a Glance:

- + Compact and modular: The system fits into standard pharmaceutical production rooms without costly modifications and can be flexibly deployed as a stand-alone solution or integrated into existing lines.
- + Simple and fast: The proven TRI.EASY operating concept from Fette Compacting and tool-free disassembly enable product changeovers and cleaning in less than one shift.
- + Maximum safety: Dust-tight units and a strict separation of process and technical areas guarantee effective Containment.
- + Fully controllable: The fully integrated embedded Process Analytical Technology (ePAT) monitors blend homogeneity and tablet uniformity continuously in real time.



Brochure: FE CPS



FE/CPS

Throughput capacity	5 to 400 kg / h with a single rotary tablet press 5 to 800 kg / h with a double rotary tablet press (Depending on the product, process, and setup)
Number of dosing stations	1 to 6
Number of blender mixing zones	2
Feeder-blender funnel configuration	Various configurations – formulation dependent
Ingredient characteristics	Powder density: 0.2 ~ 1.0 kg / l *
Ingredient inlets	DN150 tri-clamp connection (DIN32676A)
Electrical supply parameters	Operating voltage 400–480 V, frequency 50 / 60 Hz ±5%
Power supply	3 phase + PE
Power	9 kW
Compressed air supply	6 bar / 300 l / min peak volume flow
Air extraction rate	50 m³ / h
Air extraction negative pressure	–10 hPa
Air extraction unit connection	70 mm
Dimensions	Machine height: 2,300 mm, Ingredient inlet: 2,355 mm Total height including blend conveyor arm: 3,000 mm
Weight	approx. 4,900–5,200 kg **

Subject to technical changes.
* Assumption of typical values; others on request
** Depending on the exact configuration

ePAT

Integrated process analytics for Continuous Manufacturing and batch production

With embedded Process Analytical Technology (ePAT), Fette Compacting adds a powerful solution for in-line quality control to its portfolio. The fully integrated system monitors critical quality attributes directly during tableting without interrupting the production process. This enables users to detect deviations early, optimize processes precisely and ensure consistently high product quality. Integration into the machine control system reduces validation effort and supports safe, efficient and data-driven production.

Precise analysis during production
ePAT is based on near-infrared (NIR) spectroscopy. This non-contact measurement technology monitors powder blend uniformity (BU) and tablet uniformity (TU) directly in the process stream. Critical quality attributes are monitored continuously in real time. This makes it possible to detect process deviations immediately and prevent production downtime. At the same time, continuous in-line analysis conserves resources, shortens release cycles and supports cGMP-compliant production.

ePAT

ePAT, embedded Process Analytical Technology



- TU sensor**
- + Measures tablet uniformity
 - + Inspects every single tablet
 - + Measures up to 120 tablets per second
 - + Rapid rejection of individual tablets
 - + Internal white reference calibration
 - + In-line cleaning concept
 - + Robust construction
 - + Easy handling and installation



- BU sensor**
- + Measures powder blend uniformity
 - + Up to 10 independent measurements per second
 - + Flexible positioning options
 - + Internal white reference calibration
 - + Robust construction
 - + Replaceable halogen lamps
 - + Easy handling and installation



Possible positions of the ePAT sensors in an FE55 with FE CPS. Real-time data on blend uniformity and tablet uniformity are sent directly to the HMI operator terminal.



Brochure: FE CPS

FE Series

Flexibility at the highest level

The tablet presses in the FE Series deliver high performance, flexible applications, and process-reliable production. They ensure quality and efficiency in tableting while combining innovation with user-friendliness. The FE55 and the FE75 can be combined with the FE CPS for continuous production and enhanced with embedded Process Analytical Technology (ePAT).



HMI

The Human Machine Interface (HMI) enables intuitive operation thanks to intelligent software support.

FE35

The specialist for small batches – with the fastest product changeover 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.

FE35

The FE35 combines the advantages of the FE Series with the shortest product changeover time in its class. Users benefit from maximum machine availability and investment security.



	Tablet	
	Number of layers	1-layer
	max. tablet output	252,000 units / h
	max. tablet output Pmax®	367,200 units / h
	max. tablet diameter	25 mm

Technical specifications

Pitch circle diameter	mm	325	325	325	325	325	325	325
Compression force pre- and main compression 1*	kN	0–80	0–80	0–80	0–80	0–80	0–80	0–80
Turret rotation speed 2**	min ⁻¹	5–120	5–120	5–120	5–120	5–120	5–120	5–120
Dimensions L x W x H	mm	1,026 x 1,042 x 2,043 without integrated switch cabinet 1,336 x 1,042 x 2,043 with integrated switch cabinet						
Weight		Tablet press approx. 2,800–3,000 kg, operating terminal 100 kg, switch cabinet 350 kg						
Electrical supply parameters		Operating voltage 400–480 V, 50 / 60 Hz, power consumption 14 kW						

Turret specifications

Dies (D) / Segments (S)		D	D	D	S	S	S	S
Number of punch stations		35	28	23	51	33	27	24
Punch type		FS19® EU19 TSM19 BB	FS19® EU19 TSM19 B	EU1" EU1"-441 TSM1" D	FS12®	FS19® EU19 TSM19	EU1" TSM1"	EU1"-441
Tablet output units / h	min.	31,500	25,200	20,700	45,900	29,700	24,300	21,600
	max.	252,000	201,600	124,200	367,200	237,600	145,800	129,600
Max. compression force 1***	kN	80	80	80	34	80	80	80
Max. compression force 2***	kN	80	80	80	34	80	80	80
Max. tablet diameter	mm	13	18	25	11	18	25	25
Max. filling depth****	mm	18	18	18	20	20	20	20
Recommended turret rotation speed	min.	min ⁻¹	15	15	15	15	15	15
	max.	min ⁻¹	120	120	90	120	120	90
Die- / segment height	mm	22.225	22.225	23.8	25	25	25	25
Die diameter	mm	24	30.16	38.1	–	–	–	–
Punch shaft diameter	mm	19	19	25.35	12	19	25.35	25.35
Punch length	mm	133.6	133.6	133.6	133.6	133.6	133.6	133.6
Upper / lower punch		(133.35)	(133.35)	(133.35)		(133.35)	(133.35)	
Upper punch insertion depth	mm	1–5	1–5	1–5	1–5	1–5	1–5	1–5

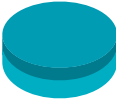
Theoretical values or technical limits: These may vary in practice depending on the product and application. Tablet thickness is a product-dependent variable and can vary significantly. * The minimum pressing force must exceed a certain value for the punch to rotate the pressure roller. The maximum pressing force depends on the installed tableting tools. ** The minimum and maximum possible rotational speed depends on the specific application. *** Limited by punch properties. **** Special filling depth available on request



Brochure: FE Series

FE55

The FE55 sets benchmarks in three key factors for tableting efficiency: productivity, flexibility, and availability. As standard, it can produce more than 90 percent of all products without additional investments or complex changeovers – including bi-layer tablets.

	Tablet	
	Number of layers	1-, 2-layer
	max. tablet output	417,600 units / h
	max. tablet output Pmax®	626,400 units / h
	max. tablet diameter	27 mm



Technical specifications

Pitch circle diameter	mm	550	550	550	550	550	550	550
Compression force pre- and main compression 1*	kN	0–100	0–100	0–100	0–100	0–100	0–100	0–100
Turret rotation speed 2**	min ⁻¹	5–120	5–120	5–120	5–120	5–120	5–120	5–120
Dimensions L × W × H	mm	1,306 × 1,306 × 2,048 without integrated switch cabinet 1,306 × 1,626 × 2,048 with integrated switch cabinet						
Weight		Tablet press approx. 3,700–3,900 kg, operating terminal 100 kg, switch cabinet 350 kg						
Electrical supply parameters		Operating voltage 400–480 V, 50 / 60 Hz, power consumption 16 kW						

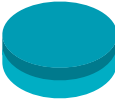
Turret specifications

Dies (D) / Segments (S)		D	D	D	S	S	S	S
Number of punch stations		58	47	39	87	60	45	39
Punch type		FS19® EU19 TSM19 BB	FS19® EU19 TSM19 B	EU1" EU1"-441 TSM1" D	FS12®	FS19® EU19 TSM19	EU1" EU1"-441 TSM1"	EU28
Tablet output units/h	min.	52,200	42,300	35,100	78,300	54,000	40,500	35,100
	max.	417,600	338,400	210,600	626,400	432,000	243,000	243,000
Max. compression force 1***	kN	100	100	100	34	100	100	80
Max. compression force 2***	kN	100	100	100	34	100	100	80
Max. compression force 3***	kN	100	100	100	34	100	100	100
Max. tablet diameter	mm	13	18	25	11	18	25	27
Max. filling depth	1st layer****	mm	13	18	18	20	20	20
	2nd layer	mm	8	8	8	8	8	8
Recommended turret rotation speed	min.	min ⁻¹	15	15	15	15	15	15
	max.	min ⁻¹	120	120	90	120	90	90
Die- / segment height	mm	22.225	22.225	23.8	25	25	25	25
Die diameter	mm	22	30.16	38.1	–	–	–	–
Punch shaft diameter	mm	19	19	25.35	12	19	25.35	28
Punch length	mm	133.6	133.6	133.6	133.6	133.6	133.6	133.6
Upper / lower punch		(133.35)	(133.35)	(133.35)		(133.35)	(133.35)	
Upper punch insertion depth	mm	1–5 (8*****)	1–5 (8*****)	1–5 (8*****)	1–5 (8*****)	1–5 (8*****)	1–5 (8*****)	1–5 (8*****)

Theoretical values or technical limits: These may vary in practice depending on the product and application. Tablet thickness is a product-dependent variable and can vary significantly. * The minimum pressing force must exceed a certain value for the punch to rotate the pressure roller. The maximum pressing force depends on the installed tableting tools. ** The minimum and maximum possible rotational speed depends on the specific application. *** Limited by punch properties. **** Special filling depth available on request. ***** 2-layer-operation

FE75

The FE75 delivers peak performance for high-volume production of up to 1,656,000 tablets per hour. Key advantages include the torque-drive and innovative turret solutions.

	Tablet	
	Number of layers	1-, 2-layer
	max. tablet output	1,080,000 units / h
	max. tablet output Pmax®	1,656,000 units / h
	max. tablet diameter	27 mm



Technical specifications

Pitch circle diameter	mm	710	710	710	710	710	710	710
Compression force pre- and main compression 1*	kN	0–100	0–100	0–100	0–100	0–100	0–100	0–100
Turret rotation speed 2**	min ⁻¹	5–120	5–120	5–120	5–120	5–120	5–120	5–120
Dimensions L × W × H	mm	1,463 × 1,463 × 2,046 without integrated switch cabinet 1,463 × 1,778 × 2,046 with integrated switch cabinet						
Weight		Tablet press approx. 5,300–5,500 kg, operating terminal 100 kg, switch cabinet 350 kg						
Electrical supply parameters		Operating voltage 400–480 V, 50 / 60 Hz, power consumption 16 kW						

Turret specifications

Dies (D) / Segments (S)		D	D	D	S	S	S	S
Number of punch stations		75	63	51	115	75	55	55
Punch type		FS19® EU19 TSM19 BB	FS19® EU19 TSM19 B	EU1" EU1"-441 TSM1" D	FS12®	FS19® EU19 TSM19	EU1" EU1"-441 TSM1"	EU28
Tablet output units/h	min.	135,000	113,400	91,800	207,000	135,000	99,000	99,000
	max.	1,080,000	907,200	550,800	1,656,000	1,080,000	594,000	594,000
Max. compression force 1***	kN	100	100	100	34	100	100	80
Max. compression force 2***	kN	100	100	100	34	100	100	80
Max. compression force 3***	kN	100	100	100	34	100	100	100
Max. compression force 4***	kN	100	100	100	34	100	100	100
Max. tablet diameter	mm	13	18	25	11	18	25	27
Max. filling depth	1st layer****	mm	18	18	18	20	20	20
	2nd layer	mm	8	8	8	8	8	8
Recommended turret rotation speed	min.	min ⁻¹	15	15	15	15	15	15
	max.	min ⁻¹	120	120	90	120	120	90
Die- / segment height	mm	22.225	30.16	23.8	25	25	25	25
Die diameter	mm	22	30.16	38.1	–	–	–	–
Punch shaft diameter	mm	19	19	25.35	12	19	25.35	28
Punch length	mm	133.6	133.6	133.6	133.6	133.6	133.6	133.6
Upper / lower punch		(133.35)	(133.35)	(133.35)		(133.35)	(133.35)	
Upper punch insertion depth	mm	1–5 (8*****)	1–5 (8*****)	1–5 (8*****)	1–5 (8*****)	1–5 (8*****)	1–5 (8*****)	1–5 (8*****)

Theoretical values or technical limits: These may vary in practice depending on the product and application. Tablet thickness is a product-dependent variable and can vary significantly. * The minimum pressing force must exceed a certain value for the punch to rotate the pressure roller. The maximum pressing force depends on the installed tableting tools. ** The minimum and maximum possible rotational speed depends on the specific application. *** Limited by punch properties. **** Special filling depth available on request. ***** 2-layer-operation

i Series

Versatile options, no compromises

The i Series from Fette Compacting carries on the tradition of proven, top-quality tablet presses. It offers solutions for higher performance and easy handling – even in challenging productions. Thanks to cross-generation system compatibility and intuitive operation, the i Series simplifies manufacturing and boosts productivity – from start-ups to large pharmaceutical companies.



HMI

The Human Machine Interface (HMI) enables intuitive operation thanks to intelligent software support.

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.

F10i

The F10i is a high-performance single rotary tablet press for smaller batches with an output of up to 324,000 tablets per hour. Among other features, a mechanical-manual turret clamping system ensures flexibility and versatility. This makes the F10i ideally suited to the demands of dynamic production.

	Tablet	
	Number of layers	1-layer
	max. tablet output	230,400 units/h
	max. tablet output Pmax®	324,000 units/h
	max. tablet diameter	27 mm



Technical specifications

Pitch circle diameter	mm	280	280	280	280	280	280	280	280	280
Compression force pre- and main compression 1*	kN	0–80	0–80	0–80	0–80	0–80	0–80	0–80	0–80	0–80
Turret rotation speed 2**	min ⁻¹	5–120	5–120	5–120	5–120	5–120	5–120	5–120	5–120	5–120
Dimensions L × W × H	mm	925 × 1,112 × 1,875 ***								
Weight		Tablet press approx. 2,100 kg ****, operating terminal 90 kg								
Electrical supply parameters		Operating voltage 400–480 V, 50/60 Hz, power consumption 9 kW								

Turret specifications

Dies (D)/Segments (S)		D	D	D	D	S	S	S	S	S
Number of punch stations		32	30	24	20	45	30	24	21	21
Punch type		EU19 TSM19 BBS	FS19® EU19 TSM19 BB	FS19® EU19 TSM19 B	EU1" EU1"-441 TSM1" D	FS12®	FS19® EU19 TSM19	EU1" TSM1"	EU1"-441	EU28
Tablet output units/h	min.	48,000	45,000	36,000	30,000	67,500	45,000	36,000	31,500	31,500
	max.	230,400	216,000	172,800	120,000	324,000	216,000	144,000	126,000	126,000
Max. compression force 1*****	kN	80	80	80	80	34	80	80	80	80
Max. compression force 2*****	kN	80	80	80	80	34	80	80	80	80
Max. tablet diameter	mm	11	13	18	25	11	18	25	25	27
Max. filling depth*****	mm	18	18	18	18	20	20	20	20	20
Recommended turret rotation speed	min.	min ⁻¹	25	25	25	25	25	25	25	15
	max.	min ⁻¹	120	120	120	100	120	120	100	100
Die-/segment height	mm	22.225	22.225	22.225	23.8	25	25	25	25	25
Die diameter	mm	22	24	30.16	38.1	–	–	–	–	–
Punch shaft diameter	mm	19	19	19	25.35	12	19	25.35	25.35	28
Punch length	mm	133.6	133.6	133.6	133.6	133.6	133.6	133.6	133.6	133.6
Upper/lower punch		(133.35)	(133.35)	(133.35)	(133.35)		(133.35)	(133.35)		
Upper punch insertion depth	mm	1–5	1–5	1–5	1–5	1–5	1–5	1–5	1–5	1–5

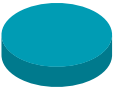
Theoretical values or technical limits: These may vary in practice depending on the product and application. Tablet thickness is a product-dependent variable and can vary significantly. * The minimum pressing force must exceed a certain value for the punch to rotate the pressure roller. The maximum pressing force depends on the installed tableting tools. ** The minimum and maximum possible rotational speed depends on the specific application. *** Dimensions may vary depending on option. **** Weight may vary depending on option. ***** Limited by punch properties. ***** Special filling depth available on request



Brochure: i Series

F20i

With an output of up to 475,200 tablets per hour and the optional Pmax® turret technology, the F20i is the all-rounder of the i Series. It handles a broad spectrum of products and batch sizes, delivering maximum flexibility in manufacturing.

	Tablet	
	Number of layers	1-layer
	max. tablet output	338,400 units/h
	max. tablet output Pmax®	475,200 units/h
	max. tablet diameter	27 mm



Technical specifications

Pitch circle diameter	mm	410	410	410	410	410	410	410	410	410
Compression force pre- and main compression 1*	kN	0–100	0–100	0–100	0–100	0–100	0–100	0–100	0–100	0–100
Turret rotation speed 2**	min ⁻¹	5–120	5–120	5–120	5–120	5–120	5–120	5–120	5–120	5–120
Dimensions L × W × H	mm	1,220 × 1,220 × 2,022								
Weight		Tablet press approx. 3,300–3,500 kg, operating terminal 90 kg, switch cabinet 270 kg								
Electrical supply parameters		Operating voltage 400–480 V, 50/60 Hz, power consumption 13.2 kW								

Turret specifications

Dies (D)/ Segments (S)		D	D	D	D	S	S	S	S	S
Number of punch stations		47	43	36	30	66	45	36	33	33
Punch type		EU19 EU19FS TSM19 BBS	FS19® EU19 TSM19 BB	FS19® EU19 TSM19 B	EU1" EU1"-441 TSM1" D	FS12®	FS19® EU19 TSM19	EU1" TSM1"	EU1"-441	EU28
Tablet output units/h	min.	42,300	38,700	32,400	27,000	59,400	40,500	32,400	29,700	29,700
	max.	338,400	309,600	259,200	180,000	475,200	324,000	216,000	198,000	198,000
Max. compression force 1***	kN	100	100	100	100	34	100	100	100	80
Max. compression force 2***	kN	100	100	100	100	34	100	100	100	80
Max. tablet diameter	mm	11	13	18	25	11	18	25	25	27
Max. filling depth**	mm	18	18	18	22	20	20	20	20	20
Recommended turret rotation speed	min.	min ⁻¹	15	15	15	15	15	15	15	15
	max.	min ⁻¹	120	120	120	100	120	120	100	100
Die- /segment height	mm	22.225	22.225	22.225	23.8	25	25	25	25	25
Die diameter	mm	22	24	30.16	38.1	–	–	–	–	–
Punch shaft diameter	mm	19	19	19	25.35	12	19	25.35	25.35	28
Punch length Upper / lower punch	mm	133.6 (133.35)	133.6 (133.35)	133.6 (133.35)	133.6 (133.35)	133.6	133.6 (133.35)	133.6 (133.35)	133.6	133.6
Upper punch insertion depth	mm	1–5	1–5	1–5	1–5	1–5	1–5	1–5	1–5	1–5

Theoretical values or technical limits: These may vary in practice depending on the product and application. Tablet thickness is a product-dependent variable and can vary significantly. * The minimum pressing force must exceed a certain value for the punch to rotate the pressure roller. The maximum pressing force depends on the installed tableting tools. ** The minimum and maximum possible rotational speed depends on the specific application. *** Limited by punch properties

F30i

The F30i is a high-performance double rotary tablet press with ultra-fast first-layer sampling. Operators can quickly adapt the tablet press to varying requirements. Designed for large-batch production, the F30i delivers a maximum output of up to 1.6 million tablets per hour.

	Tablet	
	Number of layers	1-, 2-layer
	max. tablet output	1,137,600 units/h
	max. tablet output Pmax®	1,584,000 units/h
	max. tablet diameter	27 mm



Technical specifications

Pitch circle diameter	mm	680	680	680	680	680	680	680	680
Compression force pre- and main compression 1*	kN	0–100	0–100	0–100	0–100	0–100	0–100	0–100	0–100
Turret rotation speed 2**	min ⁻¹	5–120	5–120	5–120	5–120	5–120	5–120	5–120	5–120
Dimensions L × W × H	mm	1,394 × 1,394 × 2,030							
Weight		Tablet press approx. 4,600 kg, operating terminal 90 kg, switch cabinet 350 kg							
Electrical supply parameters		Operating voltage 400–480 V, frequency 50/60 Hz, power consumption 17 kW							

Turret specifications

Dies (D)/ Segments (S)		D	D	D	D	S	S	S	S
Number of punch stations		79	73	61	49	110	75	55	55
Punch type		FS19® EU19 BBS	FS19® EU19 TSM19 BB	FS19® EU19 TSM19 B	EU1" EU1"-441 TSM1" D	FS12®	FS19® EU19 TSM19	EU1" EU1"-441 TSM1"	EU28
Tablet output units/h	min.	142,200	131,400	109,800	88,200	396,000	135,000	99,000	99,000
	max.	1,137,600	1,051,200	878,400	470,400	1,584,000	1,080,000	528,000	528,000
Max. compression force 1***	kN	100	100	100	100	34	100	100	80
Max. compression force 2***	kN	100	100	100	100	34	100	100	80
Max. compression force 3***	kN	100	100	100	100	34	100	100	80
Max. compression force 4***	kN	100	100	100	100	34	100	100	80
Max. tablet diameter	mm	11	13	18	25	11	18	25	27
Max. filling depth****	mm	18	18	18	18	20	20	20	20
Recommended turret rotation speed	min.	min ⁻¹	15	15	15	15	15	15	15
	max.	min ⁻¹	120	120	120	100	120	100	80
Die- /segment height	mm	22.225	22.225	22.225	23.8	25	25	25	25
Die diameter	mm	22	24	30.16	38.1	–	–	–	–
Punch shaft diameter	mm	19	19	19	25.35	12	19	25.35	28
Punch length Upper / lower punch	mm	133.6	133.6 (133.35)	133.6 (133.35)	133.6 (133.35)	133.6	133.6 (133.35)	133.6 (133.35)	133.6
Upper punch insertion depth	mm	1–5 (8*****)	1–5 (8*****)	1–5 (8*****)	1–5 (8*****)	1–5 (8*****)	1–5 (8*****)	1–5 (8*****)	1–5 (8*****)

Theoretical values or technical limits: These may vary in practice depending on the product and application. Tablet thickness is a product-dependent variable and can vary significantly. * The minimum pressing force must exceed a certain value for the punch to rotate the pressure roller. The maximum pressing force depends on the installed tableting tools. ** The minimum and maximum possible rotational speed depends on the specific application. *** Limited by punch properties. **** Special filling depth available on request. ***** 2-layer-operation

p Series

Simply efficient production

Whether small batches or high-speed production: The p Series has the right solution for every requirement. You benefit from a uniform technical standard that simplifies your tablet production.



HMI

Human Machine Interface (HMI): Full control through intuitive touchscreen operation on all models.

F10p

The specialist for precision and fast changeovers with small batches.

F20p

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

F30p

The powerhouse for high-speed large-scale production.

F10p

The F10p brings large-scale production efficiency down to small-batch scale. As a single rotary tablet press, it is the ideal choice for development, clinical samples, or niche products. Thanks to identical process technology, scale-up within the p Series is reliable and easy.

	Tablet	
	Number of layers	1-layer
	max. tablet output	230,400 units / h
	max. tablet diameter	27 mm



Technical specifications

Pitch circle diameter	mm	280	280	280	280	280	280	280	280
Compression force pre- and main compression 1*	kN	0–80	0–80	0–80	0–80	0–80	0–80	0–80	0–80
Turret rotation speed 2**	min ⁻¹	5–120	5–120	5–120	5–120	5–120	5–120	5–120	5–120
Dimensions L x W x H	mm	900 x 1,205 x 1,970							
Weight		Tablet press approx. 2,000 kg, operating terminal 100 kg							
Electrical supply parameters		Operating voltage 380–480 V, 50/60 Hz, power consumption 9 kW ***							

Turret specifications

Dies (D) / Segments (S)		D	D	D	D	S	S	S	S
Number of punch stations		32	30	24	20	30	24	21	21
Punch type		EU19 TSM19 BBS	FS19® EU19 TSM19 BB	FS19® EU19 TSM19 B	EU1" EU1"-441 TSM1" D	FS19® EU19 TSM19	EU1" TSM1"	EU1"-441	EU28
Tablet output units/h	min.	48,000	45,000	36,000	30,000	45,000	36,000	31,500	–
	max.	230,400	216,000	172,800	120,000	216,000	144,000	126,000	100,800
Max. compression force 1****	kN	80	80	80	80	80	80	80	80
Max. compression force 2****	kN	80	80	80	80	80	80	80	80
Max. tablet diameter	mm	11	13	18	25	18	25	25	27
Max. filling depth*****	mm	18	18	18	18	20	20	20	20
Recommended turret rotation speed	min	min ⁻¹	25	25	25	25	25	25	20
	max.	min ⁻¹	120	120	120	100	120	100	80
Die- / segment height	mm	22.225	22.225	22.225	23.8	25	25	25	25
Die diameter	mm	22	24	30.16	38.1	–	–	–	–
Punch shaft diameter	mm	19	19	19	25.35	19	25.35	25.35	28
Punch length	mm	133.6	133.6	133.6	133.6	133.6	133.6	133.6	133.6
Upper / lower punch		(133.35)	(133.35)	(133.35)	(133.35)	(133.35)	(133.35)	(133.35)	
Upper punch insertion depth	mm	1–5	1–5	1–5	1–5	1–5	1–5	1–5	1–5

Theoretical values or technical limits: These may vary in practice depending on the product and application. Tablet thickness is a product-dependent variable and can vary significantly. * The minimum pressing force must exceed a certain value for the punch to rotate the pressure roller. The maximum pressing force depends on the installed tableting tools. ** The minimum and maximum possible rotational speed depends on the specific application. *** 14.7 kW maximum power with integrated process equipment. **** Limited by punch properties. ***** Special filling depth available on request



Brochure: p Series

F20p

The F20p is the most versatile model of the p Series. As a single rotary tablet press, it covers the broadest spectrum of products and batch sizes. It combines high output with technical sophistication for particularly flexible production – even with demanding formulations.



Tablet

Number of layers

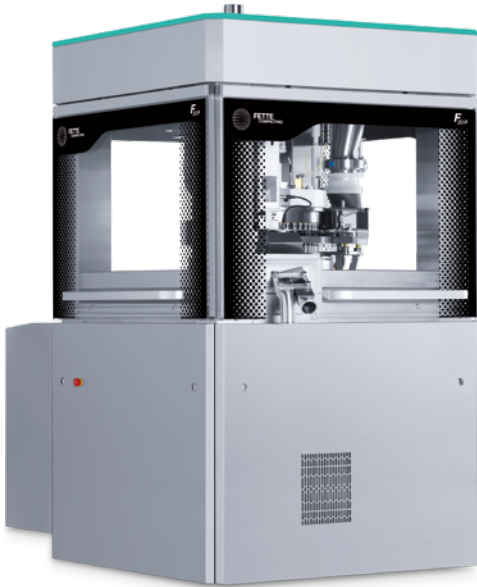
max. tablet output

max. tablet diameter

1-layer

338,400 units / h

27 mm



Technical specifications

Pitch circle diameter	mm	410	410	410	410	410	410	410	410
Compression force pre- and main compression 1*	kN	0–100	0–100	0–100	0–100	0–100	0–100	0–100	0–100
Turret rotation speed 2**	min ⁻¹	5–120	5–120	5–120	5–120	5–120	5–120	5–120	5–120
Dimensions L × W × H	mm	1,200 × 1,545 × 2,080							
Weight		Tablet press approx. 3,300 kg, operating terminal 100 kg							
Electrical supply parameters		Operating voltage 380–480 V, 50 / 60 Hz, power consumption 12.5 kW***							

Turret specifications

Dies (D) / Segments (S)		D	D	D	D	S	S	S	S
Number of punch stations		47	43	36	30	45	36	33	33
Punch type		EU19 TSM19 BBS	FS19® EU19 TSM19 BB	FS19® EU19 TSM19 B	EU1" EU1"-441 TSM1" D	FS19® EU19 TSM19	EU1" TSM1"	EU1"-441	EU28
Tablet output units/h	min.	42,300	38,700	32,400	27,000	40,500	32,400	29,700	–
	max.	338,400	309,600	259,200	180,000	324,000	216,000	198,000	158,400
Max. compression force 1****	kN	100	100	100	100	100	100	100	80
Max. compression force 2****	kN	100	100	100	100	100	100	100	80
Max. tablet diameter	mm	11	13	18	25	18	25	25	27
Max. filling depth*****	mm	18	18	18	22	20	20	20	20
Recommended turret rotation speed	min.	min ⁻¹	15	15	15	15	15	15	20
	max.	min ⁻¹	120	120	120	100	120	100	80
Die- / segment height	mm	22.225	22.225	22.225	23.8	25	25	25	25
Die diameter	mm	22	24	30.16	38.1	–	–	–	–
Punch shaft diameter	mm	19	19	19	25.35	19	25.35	25.35	28
Punch length Upper / lower punch	mm	133.6	133.6 (133.35)	133.6 (133.35)	133.6 (133.35)	133.6 (133.35)	133.6 (133.35)	133.6	133.6
Upper punch insertion depth	mm	1–5	1–5	1–5	1–5	1–5	1–5	1–5	1–5

Theoretical values or technical limits: These may vary in practice depending on the product and application. Tablet thickness is a product-dependent variable and can vary significantly. * The minimum pressing force must exceed a certain value for the punch to rotate the pressure roller. The maximum pressing force depends on the installed tableting tools. ** The minimum and maximum possible rotational speed depends on the specific application. *** 17 kW maximum power with integrated process equipment. **** Limited by punch properties. ***** Special filling depth available on request

F30p

The F30p is the double rotary tablet press of the p Series, purpose-built for large-batch production. It delivers maximum volumes at top speed and offers specialized capabilities for double-layer tablet manufacturing.



Tablet

Number of layers

max. tablet output

max. tablet diameter

1-, 2-layer

1,137,600 units / h

27 mm



Technical specifications

Pitch circle diameter	mm	680	680	680	680	680	680	680
Compression force pre- and main compression 1*	kN	0–100	0–100	0–100	0–100	0–100	0–100	0–100
Turret rotation speed 2**	min ⁻¹	5–120	5–120	5–120	5–120	5–120	5–120	5–120
Dimensions L × W × H	mm	1,394 × 1,394 × 2,030						
Weight		Tablet press approx. 4,600 kg, operating terminal 90 kg, switch cabinet 350 kg						
Electrical supply parameters		Operating voltage 400–480 V, frequency 50 / 60 Hz, power consumption 17 kW						

Turret specifications

Dies (D) / Segments (S)		D	D	D	D	S	S	S
Number of punch stations		79	73	61	49	75	55	55
Punch type		FS19® EU19 BBS	FS19® EU19 TSM19 BB	FS19® EU19 TSM19 B	EU1" EU1"-441 TSM1" D	FS19® EU19 TSM19	EU1" EU1"-441 TSM1"	EU28
Tablet output units/h	min.	142,200	131,400	109,800	88,200	135,000	99,000	–
	max.	1,137,600	1,051,200	878,400	470,400	1,080,000	528,000	528,000
Max. compression force 1***	kN	100	100	100	100	100	100	80
Max. compression force 2***	kN	100	100	100	100	100	100	80
Max. compression force 3***	kN	100	100	100	100	100	100	–
Max. compression force 4***	kN	100	100	100	100	100	100	–
Max. tablet diameter	mm	11	13	18	25	18	25	27
Max. filling depth****	mm	18	18	18	18	20	20	20
Recommended turret rotation speed	min.	min ⁻¹	15	15	15	15	15	20
	max.	min ⁻¹	120	120	120	80	120	80
Die- / segment height	mm	22.225	22.225	22.225	23.8	25	25	25
Die diameter	mm	22	24	30.16	38.1	–	–	–
Punch shaft diameter	mm	19	19	19	25.35	19	25.35	28
Punch length Upper / lower punch	mm	133.6	133.6 (133.35)	133.6 (133.35)	133.6 (133.35)	133.6 (133.35)	133.6 (133.35)	133.6
Upper punch insertion depth	mm	1–5 (8*****)	1–5 (8*****)	1–5 (8*****)	1–5 (8*****)	1–5 (8*****)	1–5 (8*****)	1–5 (8*****)

Theoretical values or technical limits: These may vary in practice depending on the product and application. Tablet thickness is a product-dependent variable and can vary significantly. * The minimum pressing force must exceed a certain value for the punch to rotate the pressure roller. The maximum pressing force depends on the installed tableting tools. ** The minimum and maximum possible rotational speed depends on the specific application. *** Limited by punch properties. **** Special filling depth available on request. ***** 2-layer-operation

Containment Guard

Processing active ingredients safely

When processing active and highly active ingredients in tablet production, reliable containment is essential to protect operators, the environment, and products. The Containment Guard (CG) from Fette Compacting provides a structured approach to selecting the right Containment solution for your process. Six levels systematically

classify Containment Performance – from low-dust standard production to fully encapsulated high-containment systems. Performance is tested, certified, and documented using a standardized multi-stage exposure measurement procedure. This provides you with a solid foundation even before the final risk assessment.



CG Level 1–2: Basic Containment

For moderate exposure protection requirements. Closed process chambers and controlled product flow limit particle release. Cleaning and maintenance are performed primarily manually or with simple assisted procedures.



CG Level 3–4: Enhanced Containment

For elevated protection requirements when handling active ingredients. Improved sealing, secure interfaces, and integrated transfer systems significantly reduce dust emissions. Cleaning is semi-automated or uses prepared systems.



CG Level 5–6: High Containment

For highly active ingredients with very low exposure limits. Fully encapsulated process chambers, isolator technology, and the patented air management system minimize emissions. Automated wash-in-place systems ensure safe cleaning without manual intervention.



Brochure: Containment Guard

FE55

with Containment Package



Tablet
Number of layers 1-, 2-layer
max. tablet output 417,600 units/h
max. tablet output Pmax® 626,400 units/h
max. tablet diameter 27 mm



Technical specifications

Pitch circle diameter	mm	550	550	550	550	550	550	550
Compression force pre- and main compression 1*	kN	0–100	0–100	0–100	0–100	0–100	0–100	0–100
Turret rotation speed 2**	min ⁻¹	5–120	5–120	5–120	5–120	5–120	5–120	5–120
Dimensions L × W × H	mm	1,306 × 1,306 × 2,048 without integrated switch cabinet 1,306 × 1,626 × 2,048 with integrated switch cabinet						
Weight		Tablet press approx. 3,700–3,900 kg, operating terminal 100 kg, switch cabinet 350 kg						
Electrical supply parameters		Operating voltage 400–480 V, 50 / 60 Hz, power consumption 16 kW						

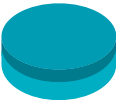
Turret specifications

Dies (D) / Segments (S)		D	D	D	S	S	S	S
Number of punch stations		58	47	39	87	60	45	39
Punch type		FS19® EU19 TSM19 BB	FS19® EU19 TSM19 B	EU1" EU1"-441 TSM1" D	FS12®	FS19® EU19 TSM19	EU1" EU1"-441 TSM1"	EU28
Tablet output units / h	min.	52,200	42,300	35,100	78,300	54,000	40,500	35,100
	max.	417,600	338,400	210,600	626,400	432,000	243,000	243,000
Max. compression force 1***	kN	100	100	100	34	100	100	80
Max. compression force 2***	kN	100	100	100	34	100	100	80
Max. compression force 3***	kN	100	100	100	34	100	100	100
Max. tablet diameter	mm	13	18	25	11	18	25	27
Max. filling depth	1st layer****	mm	13	18	18	20	20	20
	2nd layer	mm	8	8	8	8	8	8
Recommended turret rotation speed	min.	min ⁻¹	15	15	15	15	15	15
	max.	min ⁻¹	120	120	90	120	120	90
Die- / segment height	mm	22.225	22.225	23.8	25	25	25	25
Die diameter	mm	22	30.16	38.1	–	–	–	–
Punch shaft diameter	mm	19	19	25.35	12	19	25.35	28
Punch length	mm	133.6	133.6	133.6	133.6	133.6	133.6	133.6
Upper / lower punch		(133.35)	(133.35)	(133.35)		(133.35)	(133.35)	
Upper punch insertion depth	mm	1–5 (8*****)	1–5 (8*****)	1–5 (8*****)	1–5 (8*****)	1–5 (8*****)	1–5 (8*****)	1–5 (8*****)

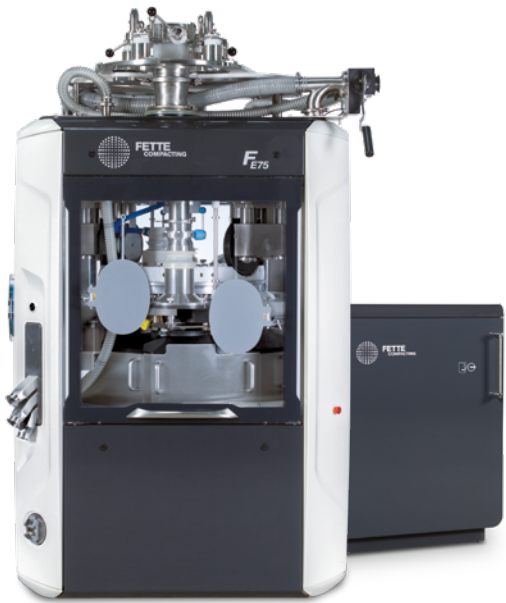
Theoretical values or technical limits: These may vary in practice depending on the product and application. Tablet thickness is a product-dependent variable and can vary significantly. * The minimum pressing force must exceed a certain value for the punch to rotate the pressure roller. The maximum pressing force depends on the installed tableting tools. ** The minimum and maximum possible rotational speed depends on the specific application. *** Limited by punch properties. **** Special filling depth available on request. ***** 2-layer-operation

FE75

with Containment Package



Tablet	
Number of layers	1-, 2-layer
max. tablet output	1,080,000 units/h
max. tablet output Pmax®	1,656,000 units/h
max. tablet diameter	27 mm



Technical specifications

Pitch circle diameter	mm	710	710	710	710	710	710	710
Compression force pre- and main compression 1*	kN	0–100	0–100	0–100	0–100	0–100	0–100	0–100
Turret rotation speed 2**	min ⁻¹	5–120	5–120	5–120	5–120	5–120	5–120	5–120
Dimensions L × W × H	mm	1,463 × 1,463 × 2,046 without integrated switch cabinet 1,463 × 1,778 × 2,046 with integrated switch cabinet						
Weight		Tablet press approx. 5,300–5,500 kg, operating terminal 100 kg, switch cabinet 350 kg						
Electrical supply parameters		Operating voltage 400–480 V, 50/60 Hz, power consumption 16 kW						

Turret specifications

Dies (D)/Segments (S)		D	D	D	S	S	S	S
Number of punch stations		75	63	51	115	75	55	55
Punch type		FS19® EU19 TSM19 BB	FS19® EU19 B	EU1" EU1"-441 TSM1" D	FS12®	FS19® EU19 TSM19	EU1" EU1"-441 TSM1"	EU28
Tablet output units/h	min.	135,000	113,400	91,800	207,000	135,000	99,000	99,000
	max.	1,080,000	907,200	550,800	1,656,000	1,080,000	594,000	594,000
Max. compression force 1***	kN	100	100	100	34	100	100	80
Max. compression force 2***	kN	100	100	100	34	100	100	80
Max. compression force 3***	kN	100	100	100	34	100	100	100
Max. compression force 4***	kN	100	100	100	34	100	100	100
Max. tablet diameter	mm	13	18	25	11	18	25	27
Max. filling depth	1st layer****	mm	18	18	18	20	20	20
	2nd layer	mm	8	8	8	8	8	8
Recommended turret rotation speed	min.	min ⁻¹	15	15	15	15	15	15
	max.	min ⁻¹	120	120	90	120	120	90
Die-/segment height	mm	22.225	30.16	23.8	25	25	25	25
Die diameter	mm	22	30.16	38.1	–	–	–	–
Punch shaft diameter	mm	19	19	25.35	12	19	25.35	28
Punch length Upper / lower punch	mm	133.35	133.6 (133.35)	133.6	133.6	133.6 (133.35)	133.6 (133.35)	133.6
Upper punch insertion depth	mm	1–5 (8*****)	1–5 (8*****)	1–5 (8*****)	1–5 (8*****)	1–5 (8*****)	1–5 (8*****)	1–5 (8*****)

Theoretical values or technical limits: These may vary in practice depending on the product and application. Tablet thickness is a product-dependent variable and can vary significantly. * The minimum pressing force must exceed a certain value for the punch to rotate the pressure roller. The maximum pressing force depends on the installed tableting tools. ** The minimum and maximum possible rotational speed depends on the specific application. *** Limited by punch properties. **** Special filling depth available on request. ***** 2-layer-operation

F10i

Containment Guard



Tablet	
Number of layers	1-layer
max. tablet output	230,400 units/h
max. tablet output Pmax®	324,000 units/h
max. tablet diameter	27 mm



Technical specifications

Pitch circle diameter	mm	280	280	280	280	280	280	280	280	280
Compression force pre- and main compression 1*	kN	0–80	0–80	0–80	0–80	0–80	0–80	0–80	0–80	0–80
Turret rotation speed 2**	min ⁻¹	5–120	5–120	5–120	5–120	5–120	5–120	5–120	5–120	5–120
Dimensions L × W × H	mm	925 × 1,112 × 1,875 ***								
Weight		Tablet press approx. 2,100 kg ****, operating terminal 90 kg								
Electrical supply parameters		Operating voltage 400–480 V, 50/60 Hz, power consumption 9 kW								

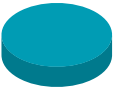
Turret specifications

Dies (D)/Segments (S)		D	D	D	D	S	S	S	S	S
Number of punch stations		32	30	24	20	45	30	24	21	21
Punch type		EU19 TSM19 BBS	FS19® EU19 TSM19 BB	FS19® EU19 TSM19 B	EU1" EU1"-441 TSM1" D	FS12®	FS19® EU19 TSM19	EU1" TSM1"	EU1"-441	EU28
Tablet output units/h	min.	48,000	45,000	36,000	30,000	67,500	45,000	36,000	31,500	31,500
	max.	230,400	216,000	172,800	120,000	324,000	216,000	144,000	126,000	126,000
Max. compression force 1*****	kN	80	80	80	80	34	80	80	80	80
Max. compression force 2*****	kN	80	80	80	80	34	80	80	80	80
Max. tablet diameter	mm	11	13	18	25	11	18	25	25	27
Max. filling depth*****	mm	18	18	18	18	20	20	20	20	20
Recommended turret rotation speed	min.	min ⁻¹	25	25	25	25	25	25	25	15
	max.	min ⁻¹	120	120	120	100	120	120	100	100
Die-/segment height	mm	22.225	22.225	22.225	23.8	25	25	25	25	25
Die diameter	mm	22	24	30.16	38.1	–	–	–	–	–
Punch shaft diameter	mm	19	19	19	25.35	12	19	25.35	25.35	28
Punch length Upper / lower punch	mm	133.6 (133.35)	133.6 (133.35)	133.6 (133.35)	133.6 (133.35)	133.6 (133.35)	133.6 (133.35)	133.6 (133.35)	133.6 (133.35)	133.6
Upper punch insertion depth	mm	1–5	1–5	1–5	1–5	1–5	1–5	1–5	1–5	1–5

Theoretical values or technical limits: These may vary in practice depending on the product and application. Tablet thickness is a product-dependent variable and can vary significantly. * The minimum pressing force must exceed a certain value for the punch to rotate the pressure roller. The maximum pressing force depends on the installed tableting tools. ** The minimum and maximum possible rotational speed depends on the specific application. *** Dimensions may vary depending on option. **** Weight may vary depending on option. ***** Limited by punch properties. ***** Special filling depth available on request

F20i

Containment Guard



Tablet	
Number of layers	1-layer
max. tablet output	338,400 units/h
max. tablet output Pmax®	475,200 units/h
max. tablet diameter	27 mm



Technical specifications

Pitch circle diameter	mm	410	410	410	410	410	410	410	410	410
Compression force pre- and main compression 1*	kN	0–100	0–100	0–100	0–100	0–100	0–100	0–100	0–100	0–100
Turret rotation speed 2**	min ⁻¹	5–120	5–120	5–120	5–120	5–120	5–120	5–120	5–120	5–120
Dimensions L × W × H	mm	1,220 × 1,220 × 2,022								
Weight		Tablet press approx. 3,300–3,500 kg, operating terminal 90 kg, switch cabinet 270 kg								
Electrical supply parameters		Operating voltage 400–480 V, 50/60 Hz, power consumption 13.2 kW								

Turret specifications

Dies (D)/ Segments (S)		D	D	D	D	S	S	S	S	S
Number of punch stations		47	43	36	30	66	45	36	33	33
Punch type		EU19 EU19FS TSM19 BBS	FS19® EU19 TSM19 BB	FS19® EU19 TSM19 B	EU1" EU1"-441 TSM1" D	FS12®	FS19® EU19 TSM19	EU1" TSM1"	EU1"-441	EU28
Tablet output units/h	min.	42,300	38,700	32,400	27,000	59,400	40,500	32,400	29,700	29,700
	max.	338,400	309,600	259,200	180,000	475,200	324,000	216,000	198,000	198,000
Max. compression force 1***	kN	100	100	100	100	34	100	100	100	80
Max. compression force 2***	kN	100	100	100	100	34	100	100	100	80
Max. tablet diameter	mm	11	13	18	25	11	18	25	25	27
Max. filling depth**	mm	18	18	18	22	20	20	20	20	20
Recommended turret rotation speed	min.	min ⁻¹	15	15	15	15	15	15	15	15
	max.	min ⁻¹	120	120	120	100	120	120	100	100
Die-/ segment height	mm	22.225	22.225	22.225	23.8	25	25	25	25	25
Die diameter	mm	22	24	30.16	38.1	–	–	–	–	–
Punch shaft diameter	mm	19	19	19	25.35	12	19	25.35	25.35	28
Punch length	mm	133.6	133.6	133.6	133.6	133.6	133.6	133.6	133.6	133.6
Upper / lower punch		(133.35)	(133.35)	(133.35)	(133.35)		(133.35)	(133.35)		
Upper punch insertion depth	mm	1–5	1–5	1–5	1–5	1–5	1–5	1–5	1–5	1–5

Theoretical values or technical limits: These may vary in practice depending on the product and application. Tablet thickness is a product-dependent variable and can vary significantly. * The minimum pressing force must exceed a certain value for the punch to rotate the pressure roller. The maximum pressing force depends on the installed tableting tools. ** The minimum and maximum possible rotational speed depends on the specific application. *** Limited by punch properties

F30i

Containment Guard



Tablet	
Number of layers	1-, 2-layer
max. tablet output	1,137,600 units/h
max. tablet output Pmax®	1,584,000 units/h
max. tablet diameter	27 mm



Technical specifications

Pitch circle diameter	mm	680	680	680	680	680	680	680	680
Compression force pre- and main compression 1*	kN	0–100	0–100	0–100	0–100	0–100	0–100	0–100	0–100
Turret rotation speed 2**	min ⁻¹	5–120	5–120	5–120	5–120	5–120	5–120	5–120	5–120
Dimensions L × W × H	mm	1,394 × 1,394 × 2,030							
Weight		Tablet press approx. 4,600 kg, operating terminal 90 kg, switch cabinet 350 kg							
Electrical supply parameters		Operating voltage 400–480 V, frequency 50/60 Hz, power consumption 17 kW							

Turret specifications

Dies (D)/ Segments (S)		D	D	D	D	S	S	S	S
Number of punch stations		79	73	61	49	110	75	55	55
Punch type		FS19® EU19 BBS	FS19® EU19 TSM19 BB	FS19® EU19 TSM19 B	EU1" EU1"-441 TSM1" D	FS12®	FS19® EU19 TSM19	EU1" EU1"-441 TSM1"	EU28
Tablet output units/h	min.	142,200	131,400	109,800	88,200	396,000	135,000	99,000	99,000
	max.	1,137,600	1,051,200	878,400	470,400	1,584,000	1,080,000	528,000	528,000
Max. compression force 1***	kN	100	100	100	100	34	100	100	80
Max. compression force 2***	kN	100	100	100	100	34	100	100	80
Max. compression force 3***	kN	100	100	100	100	34	100	100	80
Max. compression force 4***	kN	100	100	100	100	34	100	100	80
Max. tablet diameter	mm	11	13	18	20	11	18	25	27
Max. filling depth****	mm	18	18	18	18	20	20	20	20
Recommended turret rotation speed	min.	min ⁻¹	15	15	15	15	15	15	15
	max.	min ⁻¹	120	120	120	100	120	100	80
Die-/ segment height	mm	22.225	22.225	22.225	23.8	25	25	25	25
Die diameter	mm	22	24	30.16	38.1	–	–	–	–
Punch shaft diameter	mm	19	19	19	25.35	12	19	25.35	28
Punch length	mm	133.6	133.6	133.6	133.6	133.6	133.6	133.6	133.6
Upper / lower punch			(133.35)	(133.35)	(133.35)		(133.35)	(133.35)	
Upper punch insertion depth	mm	1–5 (8*****)	1–5 (8*****)	1–5 (8*****)	1–5 (8*****)	1–5 (8*****)	1–5 (8*****)	1–5 (8*****)	1–5 (8*****)

Theoretical values or technical limits: These may vary in practice depending on the product and application. Tablet thickness is a product-dependent variable and can vary significantly. * The minimum pressing force must exceed a certain value for the punch to rotate the pressure roller. The maximum pressing force depends on the installed tableting tools. ** The minimum and maximum possible rotational speed depends on the specific application. *** Limited by punch properties. **** Special filling depth available on request. ***** 2-layer-operation

Wash in Place

Clean safely, produce faster



Processing active and highly active substances requires residue-free cleaning between batches. At the same time, cleaning must not compromise productivity. Wash in Place (WiP) combines both: A fully automated, software-controlled cleaning process binds dust, cleans the process chamber emission-free, and cuts downtimes to a minimum. Operators and the environment remain reliably protected at all times.

At the heart of the system is the stationary cleaning unit, seamlessly integrated into the machine control. It precisely doses the cleaning agent, automatically manages the entire cleaning process for the tablet press and peripherals, and ensures that all lines are completely drained upon completion.

The WiP process is available in the 1090i WiP, 2090i WiP, and 3090i WiP tablet presses, covering the full performance spectrum – from smaller batches to flexible high-performance production. Dust-tight systems, contamination-free handling, and integrated cleaning ensure end-to-end containment.

The single rotary press models 1090i WiP and 2090i WiP are designed for flexible production with fast product changeovers. The double rotary press 3090i WiP extends Wash in Place to large batches and is engineered for maximum performance and availability. Integrated glove ports and Rapid Transfer Ports (RTP) provide safe access to the interior. An air management system reliably protects the production area from contamination, even during cleaning.

1090i WiP

Quickly cleaned, quickly changed



	Tablet	
	Number of layers	1-layer
	max. tablet output	216,000 units / h
	max. tablet diameter	25 mm

Technical specifications

Pitch circle diameter	mm	280	280	280
Compression force pre- and main compression 1*	kN	0–80	0–80	0–80
Turret rotation speed 2**	min ⁻¹	5–120	5–120	5–120
Dimensions L × W × H	mm	960 × 960 × 2,034		
Weight		Tablet press 2,100–2,400 kg, operating terminal 100 kg, switch cabinet 350 kg		
Electrical supply parameters		Operating voltage 400–480 V, 50/60 Hz, power consumption 7.7 kW		

Turret specifications

Segments (S)		S	S	S
Number of punch stations		30	24	21
Punch type		FS19® EU19 TSM19	EU1" TSM1"	EU1"-441
Tablet output units / h	min.	45,000	36,000	31,500
	max.	216,000	144,000	126,000
Max. compression force 1***	kN	80	80	80
Max. compression force 2***	kN	80	80	80
Max. tablet diameter	mm	18	25	25
Max. filling depth****	mm	20	20	20
Recommended turret rotation speed min.	min ⁻¹	25	25	25
	max. (laboratory operation)	min ⁻¹	120	100
Segment height	mm	25	25	25
Punch shaft diameter	mm	19	25.35	25.35
Punch length	mm	133.6	133.6	133.6
Upper / lower punch		(133.35)	(133.35)	
Upper punch insertion depth	mm	1–4	1–4	1–4

Theoretical values or technical limits: These may vary in practice depending on the product and application. Tablet thickness is a product-dependent variable and can vary significantly. * The minimum pressing force must exceed a certain value for the punch to rotate the pressure roller. The maximum pressing force depends on the installed tableting tools. ** The minimum and maximum possible rotational speed depends on the specific application. *** Limited by punch properties. **** Special filling depth available on request



Brochure: Containment Guard

2090i WiP

Smart cleaning for higher throughput

	Tablet	
	Number of layers	1-layer
	max. tablet output	324,000 units / h
	max. tablet diameter	25 mm



Technical specifications

Pitch circle diameter	mm	410	410	410
Compression force pre- and main compression 1*	kN	0–100	0–100	0–100
Turret rotation speed 2**	min ⁻¹	5–120	5–120	5–120
Dimensions L × W × H	mm	1,220 × 1,220 × 2,022		
Weight		Tablet press 3,400–3,600 kg, operating terminal 100 kg, switch cabinet 350 kg		
Electrical supply parameters		Operating voltage 400–480 V, 50 / 60 Hz, power consumption 13 kW		

Turret specifications

Segments (S)		S	S	S
Number of punch stations		45	36	33
Punch type		FS19® EU19 TSM19	EU1" TSM1"	EU1"-441
Tablet output units/h	min.	40,500	32,400	29,700
	max.	324,000	248,400	198,000
Max. compression force 1***	kN	100	100	100
Max. compression force 2***	kN	100	100	100
Max. tablet diameter	mm	18	25	25
Max. filling depth****	mm	20	20	20
Recommended turret rotation speed	min.	min ⁻¹ 15	15	15
	max.	min ⁻¹ 120	120	100
Segment height	mm	25	25	25
Punch shaft diameter	mm	19	25.35	25.35
Punch length	mm	133.6	133.6	133.6
Upper / lower punch		(133.5)	(133.35)	
Upper punch insertion depth	mm	1–4	1–4	1–4

Theoretical values or technical limits: These may vary in practice depending on the product and application. Tablet thickness is a product-dependent variable and can vary significantly. * The minimum pressing force must exceed a certain value for the punch to rotate the pressure roller. The maximum pressing force depends on the installed tableting tools. ** The minimum and maximum possible rotational speed depends on the specific application. *** Limited by punch properties. **** Special filling depth available on request

3090i WiP

Maximum across the board

	Tablet	
	Number of layers	1-, 2-layer
	max. tablet output	1,080,000 units / h
	max. tablet diameter	25 mm



Technical specifications

Pitch circle diameter	mm	680	680	680
Compression force pre- and main compression 1*	kN	0–100	0–100	0–100
Turret rotation speed 2**	min ⁻¹	5–120	5–120	5–120
Dimensions L × W × H	mm	1,390 × 1,390 × 2,024		
Weight		Tablet press 4,700–5,000 kg, operating terminal 100 kg, switch cabinet 350 kg		
Electrical supply parameters		Operating voltage 400–480 V, 50 / 60 Hz, power consumption 18 kW		

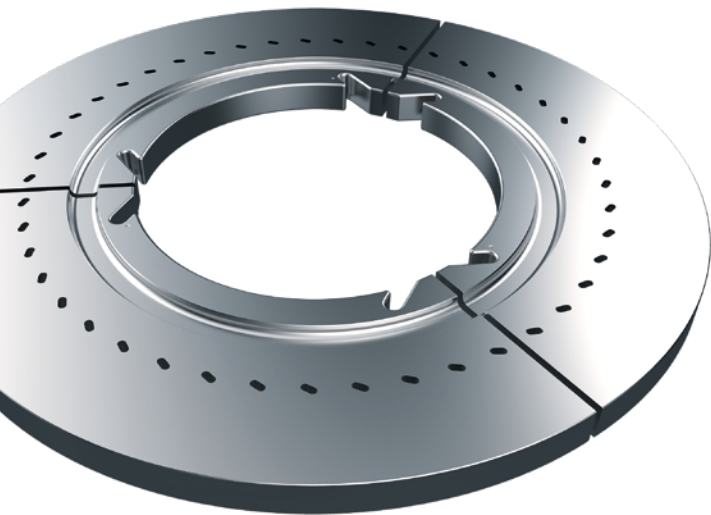
Turret specifications

Segments (S)		S	S	S
Number of punch stations		75	55	55
Punch type		FS19® EU19 TSM19	EU1" TSM1"	EU1"-441
Tablet output units/h	min.	135,000	99,000	99,000
	max.	1,080,000	528,000	528,000
Max. compression force 1***	kN	100	100	100
Max. compression force 2***	kN	100	100	100
Max. compression force 3***	kN	100	100	100
Max. compression force 4***	kN	100	100	100
Max. tablet diameter	mm	18	25	25
Max. filling depth	1st layer****	mm 20	20	20
	2nd layer	mm 8	8	8
Recommended turret rotation speed	min.	min ⁻¹ 15	15	15
	max.	min ⁻¹ 120	80	80
Segment height	mm	25	25	25
Punch shaft diameter	mm	19	25.35	25.35
Punch length	mm	133.6	133.6	133.6
Upper / lower punch		(133.5)	(133.35)	
Upper punch insertion depth	mm	1–4 (8*****)	1–4 (8*****)	1–4 (8*****)

Theoretical values or technical limits: These may vary in practice depending on the product and application. Tablet thickness is a product-dependent variable and can vary significantly. * The minimum pressing force must exceed a certain value for the punch to rotate the pressure roller. The maximum pressing force depends on the installed tableting tools. ** The minimum and maximum possible rotational speed depends on the specific application. *** Limited by punch properties. **** Special filling depth available on request. ***** 2-layer-operation

Tableting Tools

Always in top form



Segments

In addition to conventional segments with dies in proven quality, Fette Compacting also offers segments without dies. This solution provides several advantages.

- + Up to 40 percent higher output
- + Up to 50 percent less product loss
- + Up to 70 percent shorter changeover times

Punches

Punches in original manufacturer quality guarantee you perfect performance and the highest quality in tablet production.

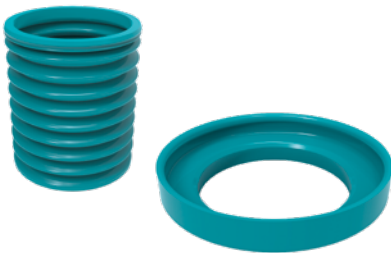
- + Optimal dwell times
- + Minimal wear
- + Highest tablet quality



Bellows and Dust Caps

The addition of iron to the silicone enables reliable detection of material fragments in the event of damage. This protects your products and simplifies safe handling.

- + Automated detection in the event of damage
- + Faster assembly
- + Suitable for all turrets



EasyCare

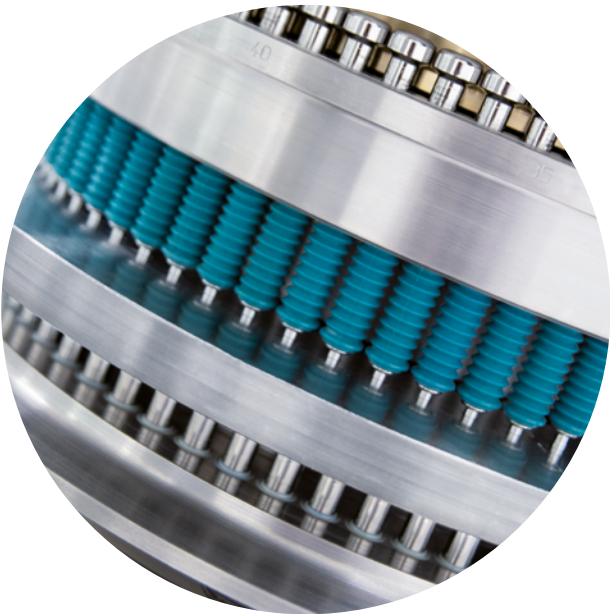
Perfectly matched solutions for safe and efficient handling of tableting tools.

- + TRI.EASY Tool Box System for optimal storage and safe transport
- + GMP-compliant cleaning systems
- + Tool management system

Turrets

Turrets are a key factor in the performance of your tablet presses. By upgrading to our Pmax® turrets, you can significantly boost the performance of existing machines.

- + Up to 40 percent higher output
- + No revalidation required
- + Lower energy consumption



Brochure: Tableting Tools

Process Equipment

Seamless processes in production and active ingredient analysis



Deduster



iFlex/iTec
Efficient tablet dedusting with integrated metal detection for safe processes and easy cleaning.



eFlex/eTec
Gentle tablet dedusting with high process visibility, robust design and easy cleaning.



KD 6015
Gentle tablet dedusting with automatic vibration control for consistently stable process conditions.



KD 7015A
High-performance dedusting with metal detection and flexible height adjustment for safe product transfer.



KD 7035A
Dust-tight high-performance dedusting with metal detection for demanding applications up to OEB 4.

IVC – Industrial Vacuum Cleaning



T40W+
Modular industrial vacuum for fast cleaning, flexible configuration and optional use in ATEX areas.



3707/10
Powerful industrial vacuum for continuous use, large material volumes and reliable cleaning processes.



FSU 1311
Central suction unit for fixed systems with multiple extraction points and long conveying distances.

IPC – In Process Control



WT 50
Automatic weight control with direct feedback to the tablet press for real-time process adjustments.



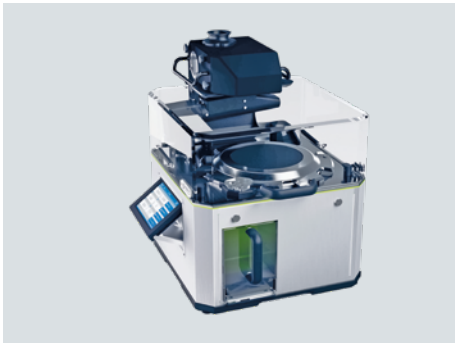
Weightmaster 7.2
Automatic weight control for tablets, coated tablets and capsules with direct connection to the tablet press.



AT 50
Fast testing of weight, thickness, dimensions and hardness for laboratory applications and online testing.



Checkmaster 4.3 TD
Fully automatic testing of many tablet shapes with flexible software and direct connection to the press.



Checkmaster X
Compact, fully automatic tablet testing with high throughput, intuitive operation and fast feeding for applications up to OEB 4.



iTest
Automatic IPC testing of weight, thickness, hardness and dimensions, also for applications up to OEB 4.

External Lubrication



PKB 4
Precise external lubrication reduces sticking, capping and ejection forces while minimizing lubricant in the blend.

Handling Systems & More

Fast changeovers – keep things moving

Additional Equipment



Handling System Comfort

Mobile handling system for safe and ergonomic turret changes. Interchangeable attachments enable flexible use with different tablet presses or as a pallet truck.



Service Cart

Mobile stainless-steel design for safe transport, storage and maintenance of assemblies. Protects valuable components such as turrets or feeders and simplifies handling.



Parts Master

Universal platform for transporting, cleaning and preparing machine and format parts. Supports different models of the i and p Series and simplifies product changeovers in daily production.



Ceia THS/PH21 N

Detects magnetic and non-magnetic metal contaminants with high sensitivity. The robust stainless-steel design ensures reliable quality control in pharmaceutical production.



Vacuum Conveying – Dilute Phase Piab

Conveys powders, granules, tablets and fragile products hygienically and efficiently. The compact stainless-steel design is suitable for demanding pharmaceutical, food and chemical processes.



Vacuum Conveying – Dense Phase FPTs

Conveys powders gently and dust-tight in dense phase. The low conveying speed protects the product, prevents segregation and reduces material stress.

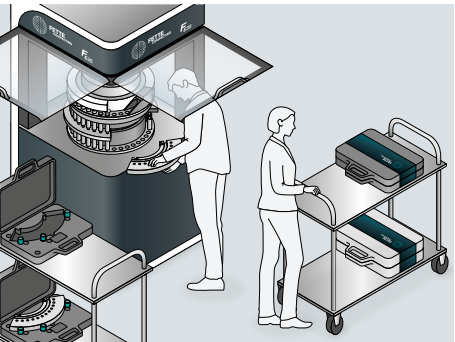


Brochure: Process Equipment

EasyCare

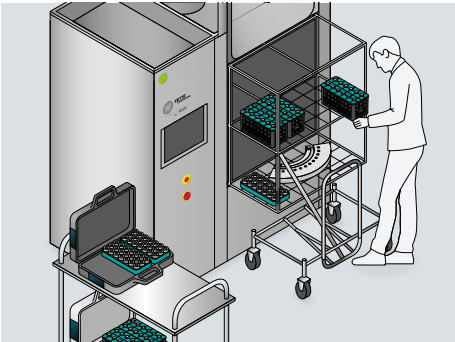
Safe and efficient handling of tableting tools

Tableting tools can only contribute to ideal tablet quality when transport, cleaning, and storage are handled professionally. To prevent damage and ensure handling is as low-risk and efficient as possible, we offer a comprehensive solution in four steps.



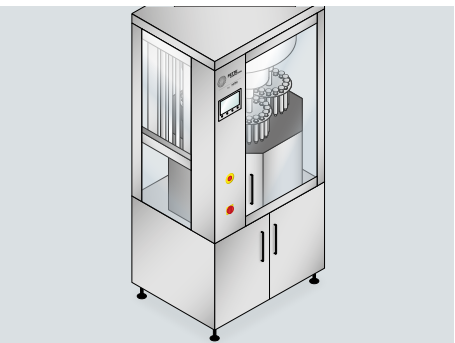
Transport

With our all-in-one solution, you cover all tool handling steps safely. The patented TRI.EASY Tool Box System provides precision-fit protection for punches, segments, and dies. A key efficiency feature: Tools are stored in special trays that go directly from the box into the cleaning machine – no time-consuming transfer required.



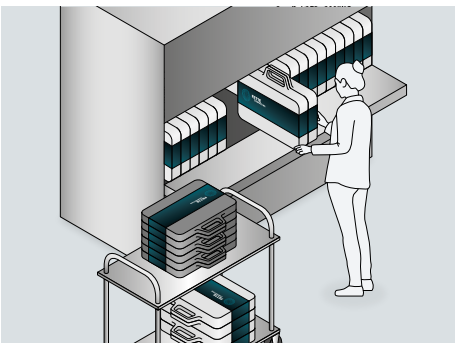
Cleaning

For maximum GMP compliance, the systems from Fette Compacting, ARUNA AG, and Borer Chemie AG work seamlessly together. The TRI.EASY trays with their predefined positions fit precisely into the Aruna cleaning plant. There, the tools are cleaned residue-free with matched cleaning and corrosion protection agents from Borer Chemie.



Polishing

Machine polishing with a machine from nortec after cleaning delivers maximum effectiveness and minimizes the risk of damage compared to manual polishing. The food-grade process also prevents tablets from sticking to the punches.



Storage

After reconditioning, tools can be stored safely and compactly in the stackable TRI.EASY Tool Box System. They are optimally protected from environmental factors such as moisture and heat. The long-term preservative deconex® HT 1191 extends storage life even further.



Brochure: Tableting Tools

SmartInterface

Real-time data, anytime
and anywhere

The server-based SmartInterface gives you access to the production parameters and HMI settings of your tablet press – no matter the time or location. With seamless real-time monitoring on your mobile device, you spot deviations instantly and respond without delay. This way, all production stakeholders maintain full control without needing to be physically at the machine.

- Your Advantages at a Glance:**
- + Maximum responsiveness: No more walking to the machine or suiting up in protective clothing. Check the status remotely and act immediately.
 - + Full real-time transparency: An intuitive KPI dashboard and detailed process graphics deliver production and machine status with sub-second latency.
 - + Efficient data management: Process data and logs can be recorded during live operation and exported in editable formats without interrupting the machine.
 - + Top-tier IT security: Access is provided via your internal network in accordance with your own IT policies. Access rights mirror your standard HMI permissions. No validation-relevant changes are needed for upgrades.



SmartInterface

Global Training Program

Knowledge that works.
From lab to production.



Behind every excellent tablet are people who know their machines, understand processes, and make the right decisions.

Our global training program supports you and your team across the entire production life cycle: from formulation development through daily machine operation and maintenance to special applications. Practical, structured, and always focused on unlocking the full potential of your machines and processes.

Flexible, Global, Certified

Our experienced trainers work with you and your team either directly at your machines on-site or at one of our worldwide Competence Centers in Brazil, China, Germany, India, and the USA. All training courses are delivered worldwide to uniformly high quality standards and are offered in six languages: English, French, German, Mandarin, Portuguese, and Spanish. Participants complete each course with a proficiency assessment and a certificate according to 21 CFR.

Tailored to Your Needs

Every production is unique. That's why we develop customized training programs on request, precisely aligned with your processes, machine configurations, and your team's skill level. Whether adapted content, integration of specific production parameters, or entirely new topics – our experts combine deep technical know-how with instructional expertise, delivering knowledge your team can apply immediately.

Your Advantages at a Glance

- + Reduced changeover times and downtime through targeted troubleshooting, changeover, and maintenance
- + Higher output and top standards through optimally configured machines
- + Minimized material losses through solid process and machine knowledge
- + Maximum cost-effectiveness by fully leveraging machines and data



Brochure: Global Training Program

Next Level Nutrition

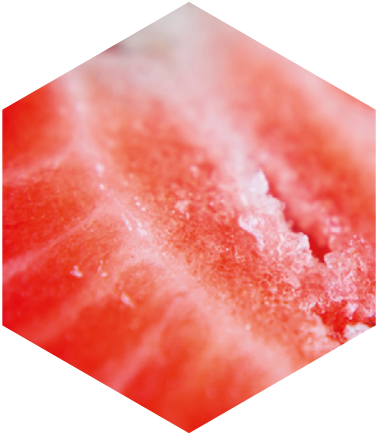
Tableting solutions for food and supplements

No two nutrition formulations are alike. Dietary supplements, moisture-sensitive effervescent tablets, and functional confectionery each place entirely different demands on raw materials and processes. Whether developing the first lab-scale formulation, choosing the right production strategy, or running economical series production: We support you with the right tableting solution, our comprehensive service portfolio, and deep process expertise.

- Your Advantages at a Glance:**
- + Process reliability from the start: Our R&D Solutions help you master critical material properties early on.
 - + The right machine for every application: Whether small batches, series production, or continuous processing – we offer the optimal tablet press for every product and every requirement.
 - + Ultimate flexibility: Easy-to-clean machine concepts based on the Quality by Design principle minimize changeover times during frequent product changes.
 - + The right strategy: Together, we define the optimal approach – from flexible batch production to highly efficient continuous manufacturing.
 - + End-to-end support: We support you throughout the entire production life cycle – from formulation development through scale-up to data-driven process optimization.



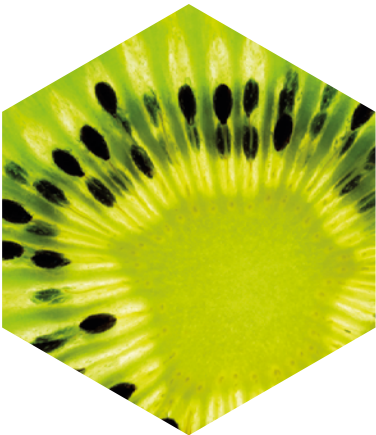
Ready for variety:
Solutions for every application



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



Effervescent and Combination Products
Process complex and moisture-sensitive formulations reliably.



Botanicals
Turn naturally varying raw material qualities into robust processes.



Chewable Tablets, Lozenges, and Confectionery
Process demanding textures and sticky blends at high output.

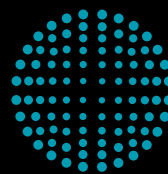


Multi-Layer and Special Shapes
Custom geometries and functionalities for a strong brand presence.



Brochure: Next Level Nutrition

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