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.

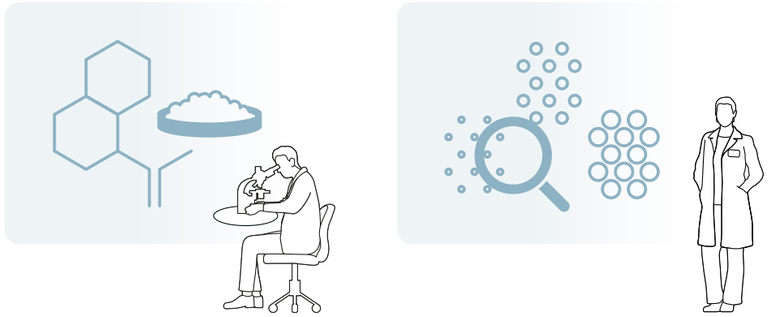
That way, you find the right solution for every product and get it to market faster. With our global network of five Competence Centers in Germany, China, the USA, India, and Brazil, along with 13 subsidiaries and representatives in 50 countries, we are always right where you need us.

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.

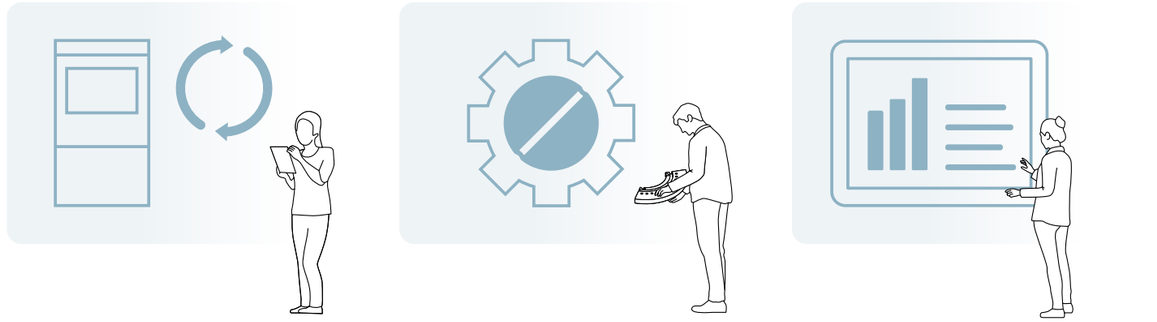
Together – from lab to production

Faster time-to-market with a holistic process partnership

Research and Development



Production



Extended range of services along the process chain:

QED

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

Knowledge Base QED
- Concentrated expertise: Access to more than 75 years of tableting experience
- Confident decisions: The digital foundation for your well-informed process planning

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

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

Technology Transfer
- 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

Production
- 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

Process Optimization
- 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

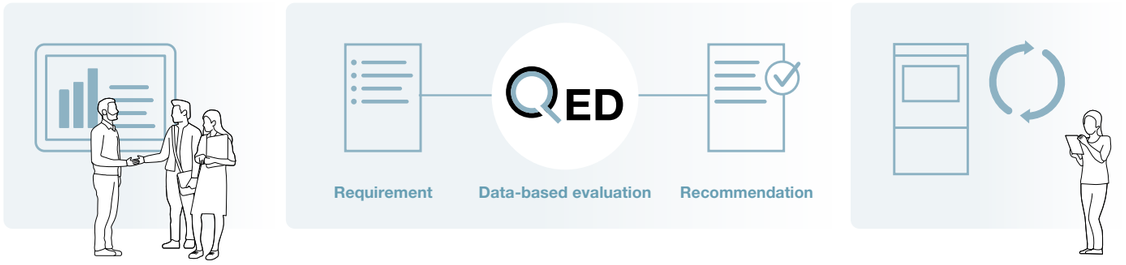
The foundation for efficient production of solids

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.

QED
Qualified Experts-Database by Fette Compacting

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.

Brochure: R&D Solutions

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.

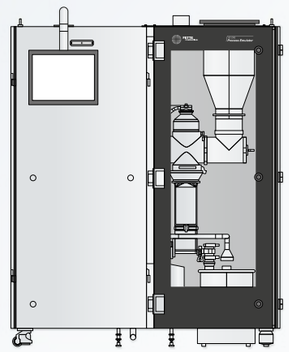
The system comprehensively analyzes active ingredients and excipients and delivers precise data for the entire product life cycle. It enables early identification of critical material attributes and the development of robust formulations before production starts on large-scale machines.

$F_{Lab\,10}$	
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

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.



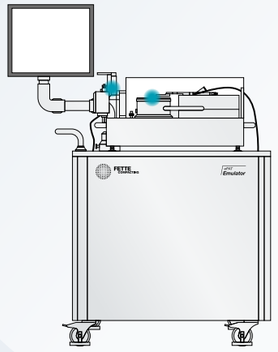
FE CPS **Process Emulator**

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



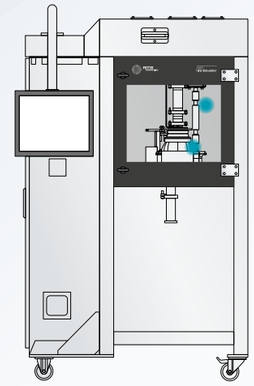
ePAT **Emulator**

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

Die (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" D	FS19® EU19 TSM19 B	EU1" TSM1" D	EU1" EU1"-441 TSM1" D	FS19® EU19 TSM19 BBS	FS19® EU19 TSM19 BB	FS19® EU19 TSM19 B	EU1"-441	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	133.6 (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.

Formulation Development

Material Characterization
We analyze physical and chemical raw material properties as the basis for scalable manufacturing processes.

Powder Compaction Analysis
Precise analysis of compaction behavior to optimize formulations and processes.

HPLC
Precise analytics for research, method development, validation, and quality control – including reference measurements for Process Analytical Technology (PAT).

Process Development

Feasibility Studies
Early evaluation of formulations and processes to minimize risk before investment decisions.

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

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.

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

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

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 worldwide support, fast spare parts supply, and predictive maintenance, we ensure that your machines operate at peak efficiency, in full regulatory compliance and with maximum cost-effectiveness. We make your production future-proof.

Production Services

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

Brochure: Production Services

Production

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

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

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

Process Optimization

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

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

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).

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

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

FE CPS
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.

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.

CONTINUOUS MANUFACTURING

Brochure: FE CPS

$F_{E/CPS}$	
Throughput capacity	5 to 250 kg/h with a single rotary tablet press 5 to 400 kg/h with a double rotary tablet press (formulation and tablet dependent)
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
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 m^3/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

Whether you produce continuously with the FE CPS or use classic batch processes: Our embedded Process Analytical Technology (ePAT) enables seamless in-line monitoring of critical quality parameters during ongoing production.

Near-infrared (NIR) sensors monitor powder blend homogeneity (Blend Uniformity) and Tablet Uniformity, detecting quality deviations in real time. This prevents the late rejection of entire batches, minimizes waste, and represents a decisive step toward Real-Time Release.

Blend Uniformity
The BU sensor verifies the uniform distribution of active ingredients and excipients, performing up to ten independent measurements per second. The active measuring head can be flexibly positioned – for example at the mixer outlet, at the tablet press inlet, or directly in the filling device (Fill-O-Matic).

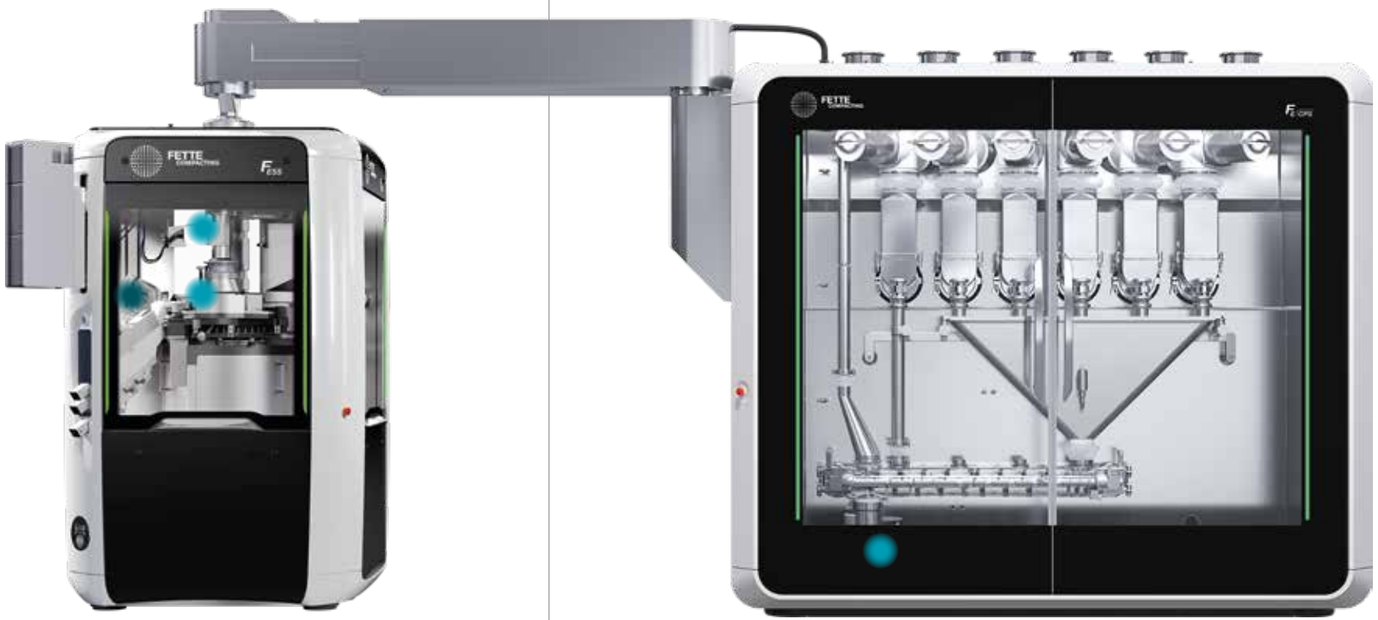
Tablet Uniformity
The TU sensor inspects 100 percent of all tablets directly at ejection for uniformity. At speeds of up to 120 tablets per second, the system detects deviations and rejects defective individual tablets.

TU sensor

BU sensor

ePAT

embedded Process Analytical Technology



FE CPS

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.

F_{E35}

The specialist for small batches – with the fastest product changeover time in its class.

F_{E55}

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

F_{E75}

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

Brochure: FE Series

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 × W × H	mm	1,026 × 1,042 × 2,043 without integrated switch cabinet 1,336 × 1,042 × 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, 50/60Hz, power consumption 14 kW						

Turret specifications

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

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

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

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, 50/60Hz, power consumption 16 kW						

Turret specifications

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

F$_{10i}$

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

F$_{20i}$

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

F$_{30i}$

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

Brochure: i Series

F10i

The F10i is a powerful single rotary tablet press for small batches. Features such as a mechanical-manual turret clamping system ensure flexibility and versatility. This makes the F10i ideally suited for 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

Die (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	–
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	20	20	20	20	20	20
Recommended turret rotation speed min.	min^{-1}	25	25	25	25	25	25	25	25	15
max.	min^{-1}	120	120	120	100	120	120	100	100	100
Die diameter	mm	22	24	30.16	38.1	–	–	–	–	–
Die-/segment height	mm	22.225	22.225	22.225	23.8	25	25	25	25	25
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. *** Dimensions may vary depending on option. **** Weight may vary depending on option. ***** Limited by punch properties. ****** Special filling depth available on request

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								

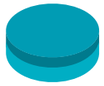
Turret specifications

Die (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 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	–
	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	20	20	20	20	20	20
Recommended turret rotation speed min.	min^{-1}	15	15	15	15	15	15	15	15	15
Recommended turret rotation speed max.	min^{-1}	120	120	120	100	120	120	100	100	100
Die diameter	mm	22	24	30.16	38.1	–	–	–	–	–
Die-/segment height	mm	22.225	22.225	22.225	23.8	25	25	25	25	25
Punch shaft diameter	mm	19	19	19	25.35	12	19	25.35	25.35	28
Punch length Upper/lower punch	mm	133.6	133.6 (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

Die (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	
	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	–
Max. compression force 4***	kN	100	100	100	100	34	100	100	–
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	15
Recommended turret rotation speed max.	min^{-1}	120	120	120	80	120	120	100	80
Die diameter	mm	22	24	30.16	38.1	–	–	–	–
Die-/segment height	mm	22.225	22.225	22.225	23.8	25	25	25	25
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 (133.35)	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*****)	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.

Brochure: p Series

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 × W × H	mm	900 × 1,205 × 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	
Max. compression force 1**** kN	80	80	80	80	80	80	80	
Max. compression force 2**** kN	80	80	80	80	80	80	80	
Max. tablet diameter mm	11	13	18	25	18	25	25	
Max. filling depth***** mm	18	18	18	20	20	20	20	
Recommended turret rotation speed min min^{-1}	25	25	25	25	25	25	25	
max. min^{-1}	120	120	120	100	120	100	100	
Die diameter mm	22	24	30.16	38.1	–	–	–	
Die-/segment height mm	22.225	22.225	22.225	23.8	25	25	25	
Punch shaft diameter mm	19	19	19	25.35	19	25.35	25.35	
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	
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. *** 14.7 kW maximum power with integrated process equipment. **** Limited by punch properties. ***** Special filling depth available on request

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	1-layer
max. tablet output	338,400 units/h
max. tablet diameter	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	20	20	20	20	20
Recommended turret rotation speed min.	min^{-1}	15	15	15	15	15	15	15	20
Recommended turret rotation speed max.	min^{-1}	120	120	120	100	120	100	100	80
Die diameter	mm	22	24	30.16	38.1	–	–	–	–
Die-/segment height	mm	22.225	22.225	22.225	23.8	25	25	25	25
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	1-, 2-layer
max. tablet output	1,137,600 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

Die (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	
	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	–
Max. compression force 4***	kN	100	100	100	100	34	100	100	–
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	15
Recommended turret rotation speed max.	min^{-1}	120	120	120	80	120	120	100	80
Die diameter	mm	22	24	30.16	38.1	–	–	–	–
Die-/segment height	mm	22.225	22.225	22.225	23.8	25	25	25	25
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 (133.35)	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*****)	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
Compression force pre- and main compression 1*	kN	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
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

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

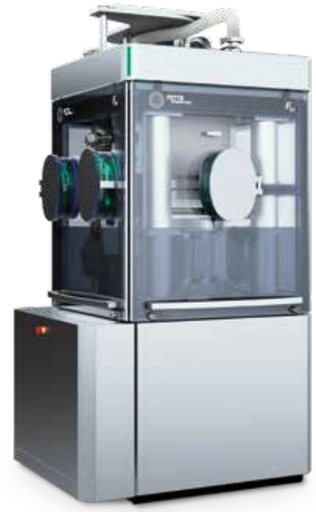
Pitch circle diameter	mm	710	710	710	710	710	710
Compression force pre- and main compression 1*	kN	0–100	0–100	0–100	0–100	0–100	0–100
Turret rotation speed 2**	min^{-1}	5-120	5-120	5-120	5-120	5-120	5-120
Dimensions L × W × H	mm	1,463 × 1,463 × 2,046 without integrated switch cabinet 1,463 × 1,778 × 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, 50/60Hz, power consumption 16 kW					

Turret specifications

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

Die (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	–
	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	20	20	20	20	20	20
Recommended turret rotation speed min.	min^{-1}	25	25	25	25	25	25	25	25	15
max.	min^{-1}	120	120	120	100	120	120	100	100	100
Die diameter	mm	22	24	30.16	38.1	–	–	–	–	–
Die-/segment height	mm	22.225	22.225	22.225	23.8	25	25	25	25	25
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. *** 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

Die (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 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	–
	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	20	20	20	20	20	20
Recommended turret rotation speed min.	min^{-1}	15	15	15	15	15	15	15	15	15
Recommended turret rotation speed max.	min^{-1}	120	120	120	100	120	120	100	100	100
Die diameter	mm	22	24	30.16	38.1	–	–	–	–	–
Die-/segment height	mm	22.225	22.225	22.225	23.8	25	25	25	25	25
Punch shaft diameter	mm	19	19	19	25.35	12	19	25.35	25.35	28
Punch length Upper/lower punch	mm	133.6	133.6 (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
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

Die (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	
	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	–
Max. compression force 4***	kN	100	100	100	100	34	100	100	–
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	15
Recommended turret rotation speed max.	min^{-1}	120	120	120	80	120	120	100	80
Die diameter	mm	22	24	30.16	38.1	–	–	–	–
Die-/segment height	mm	22.225	22.225	22.225	23.8	25	25	25	25
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 (133.35)	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*****)	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.

Brochure: Containment Guard

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, 50/60Hz, 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	100
Segment height	mm	25	25	25
Punch shaft diameter	mm	19	25.35	25.35
Punch length Upper/lower punch	mm	133.6 (133.35)	133.6 (133.35)	133.6
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

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, 50/60Hz, 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 Upper/lower punch	mm	133.6 (133.5)	133.6 (133.35)	133.6
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

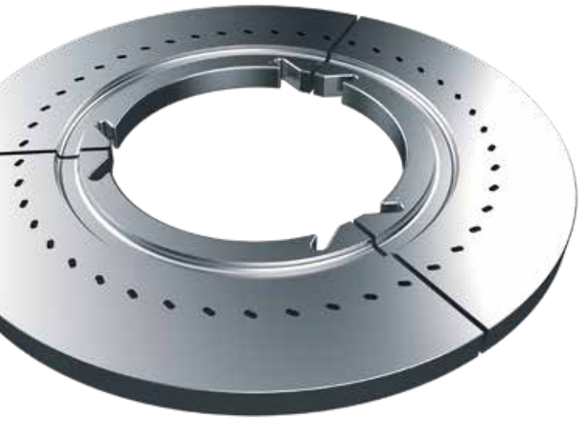
Pitch circle diameter	mm	680	680	680
Compression force pre- and main compression 1*	kN	0–100	0–100	0–100
Turret rotation speed 2**	min^{-1}	5–120	5–120	5–120
Dimensions L × W × H	mm	1,390 × 1,390 × 2,024		
Weight		Tablet press 4,700 – 5,000 kg, operating terminal 100 kg, switch cabinet 350 kg		
Electrical supply parameters		Operating voltage 400 – 480 V, 50/60Hz, 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 Upper/lower punch	mm	133.6 (133.5)	133.6 (133.35)	133.6
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 classic dies in proven quality, Fette Compacting also offers segments. The segment technology replaces the conventional turret die table and delivers significantly higher output with shorter changeover times. Fast changeovers, long service life, and full compatibility with existing production parameters.

+ Faster product changeover through tool-free disassembly
+ Up to 50 percent less product loss
+ Full dimensional accuracy compared to conventional dies

Punches

Whether standard formats or FS Technology® – our punches are engineered for optimal interplay with the turret and tablet press. High-quality materials and tailored coatings ensure maximum service life.

+ Extended service life and increased dwell time with FS® head geometry
+ Broad coating portfolio to combat sticking, wear, and corrosion
+ Available in widely used international and company-specific standards

Brochure: Tableting Tools

EasyCare

A perfectly coordinated all-in-one solution for transporting, cleaning, and storing your tableting tools. EasyCare enables safe and efficient tool handling while keeping manual interventions to a minimum.

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

Turrets

Turrets are the heart of every tablet press. Our Pmax® turrets with FS12® punches boost your output significantly – without additional machine investments or changes to production parameters.

+ Higher output at consistent tablet quality
+ Individual compression force measurement and individual tablet rejection for seamless quality assurance
+ Proven alternative to multi-tip tooling

Process Equipment

Seamless processes in production and active ingredient analysis

Downstream Processes

Vertical Deduster
Optimal production results through reliable dedusting and gentle deburring – also available in combination with a metal detector and in-process control.

Metal Detector
Maximizing uptime through reliable and fully automatic rejection of metallically contaminated products.

Gratex
Gentle dedusting and deburring directly at the tablet press.

Process Technology

PKB (Press Chamber Coating System)
Applying powdered lubricant to the press punches during production replaces the need to blend corresponding ingredients into the formulation.

Containment and WiP

Isolator
Maximum safety for operating personnel when processing highly active products and operating in-process control, dedusting, and metal detection equipment.

In-Process Control

4-Parameter Tester – Containment Version
The flexible and modular 4-Parameter Tester enables fully automatic measurement of four critical parameters: weight, thickness, diameter, and hardness.

In-Process Control

Weightmaster 7.2
Automatic weighing system designed specifically for the weight control of tablets and dragees.

Checkmaster
Outstanding tablet quality through fully automated measurement of the key tablet parameters: weight, thickness, diameter, and hardness – with full integration into in-process control.

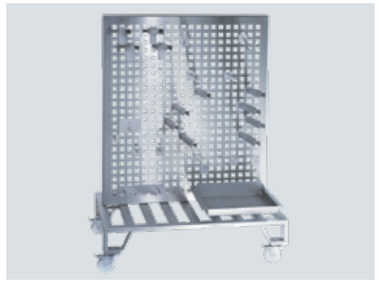
AT50
Universal tablet testing device for fully integrated in-process control of weight, thickness, diameter, and hardness.

WT50
Compact, robust online weight tester – measures sample weight in real time and automatically adjusts tablet press parameters.

Handling Systems
Fast changeovers – keep things moving

Supplies

Handling system
Thanks to electronic drives, a single operator can perform turret changeovers ergonomically and safely.



Parts Butler
Space-saving, organized storage of removed parts during maintenance and product changeover cycles enables safe and fast work.

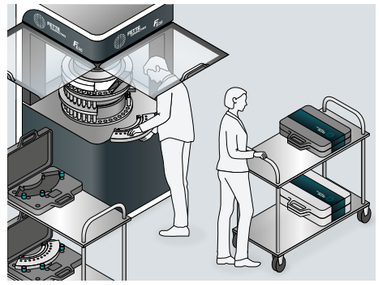
Turrets
Fette Compacting turrets stand out for their exceptional quality and can be flexibly deployed for any application.

Tool Box
The TRI.EASY Tool Box System comprises three different box types for punches, segments, and dies. In them, tools can be safely stored, transported, and cleaned.

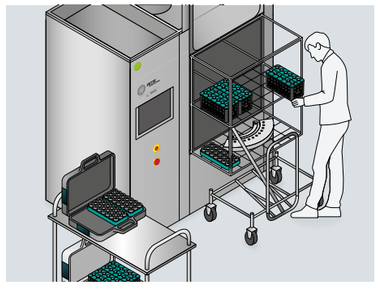
Service Carts
The precisely fitting mount ensures secure turret fixation, giving operators full access from all sides for all scheduled work.

EasyCare
Safe and efficient handling of tableting tools

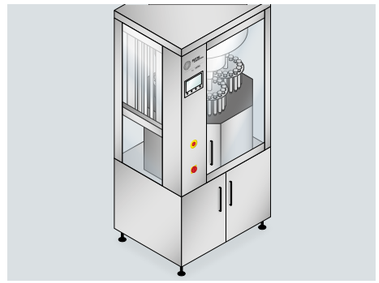
Tableting tools can only contribute to ideal tablet quality when transport, cleaning, and storage are handled professionally. To prevent damage and ensure handling is as low-risk and efficient as possible, we offer a comprehensive solution in four steps.



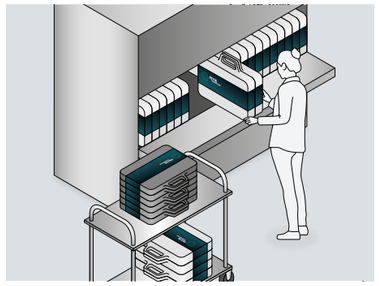
Transport
With our all-in-one solution, you cover all tool handling steps safely. The patented TRI.EASY Tool Box System provides precision-fit protection for punches, segments, and dies. A key efficiency feature: Tools are stored in special trays that go directly from the box into the cleaning machine – 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.

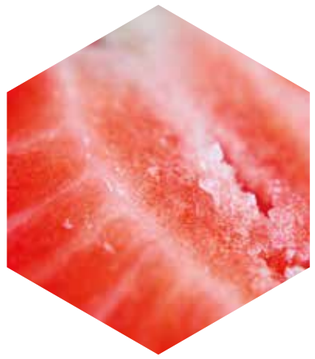
Your Advantages at a Glance:

+ 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.
+ Lifetime partnership: We support you throughout the entire production life cycle – from formulation development through scale-up to data-driven process optimization.

NEXT LEVEL NUTRITION

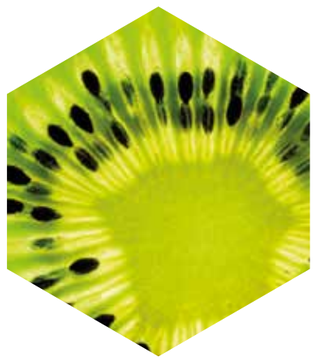
Brochure: Next Level Nutrition

Ready for variety
Solutions for every application



Vitamins and Minerals
Dose precisely and produce economically in series production.

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.

Notes

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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
Schaliënhoevedreef 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
fcal-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

www.fette-compacting.com

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