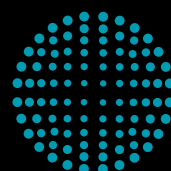




**F**  
**30P**

Next-Generation  
in standard tableting  
technology



**FETTE**  
**COMPACTING**

# Fette Compacting – be efficient!



## **Tradition and knowledge**

Fette Compacting, founded in 1908, is the world's leading provider of integrated solutions for industrial tablet production, with more than 6,000 machines installed globally. For over 75 years, the company has specialized in high-performance machines for the pharmaceutical, nutraceutical, and chemical industries, continuously setting new standards for quality, innovation, and efficiency. The headquarter is in Schwarzenbek near Hamburg (Germany). With 12 subsidiaries, as well as representatives in more than 50 other countries we make our extensive, oral solid dosage-related expertise available to customers all over the world.

As the only manufacturer of tablet presses with a truly global network, the company operates five interconnected Competence Centers in Germany (Schwarzenbek), China (Nanjing), the US (Rockaway), India (Goa) and Brazil (Campinas).

At the core of the company is the commitment to improving the quality of life for people worldwide through innovative product developments and services. This is encompassed by the company philosophy, 'Together – for quality of life'.

Fette Compacting Nanjing as subsidiary with own production site represents Fette Compacting since 2004.

All the machines and components are made in accordance with German standards, and satisfy the specifications of the American FDA (Food and Drug Administration) regulation authority, as well as the requirements of the international cGMP (Current Good Manufacturing Practices). Fette Compacting delivers all installations with computer-supported controllers that meet the requirements of Title 21 CFR Part 11 (Code of Federal Regulations of the FDA) for electronic documentation.

### **Service**

Efficient machines alone are not enough. Equally important are diverse service offerings. This does not just include maintenance and repair, but also consultancy – especially in performance and operation.

If you are facing challenges in your tablet production, our application specialists are available for you, all over the world. We arrange the perfect solution to minimize machine downtime and to keep your production output up.

### **Basic Design**

The new p Series is distinguished by its cross-generation system compatibility, consistently designed in accordance with the principle of process and system compatibility. For this reason, process-related assemblies are largely unchanged. Accordingly, the p Series retains all features which have made it so valuable for our customers.

### **F30p – double rotary tablet press with fast sampling of the first layer**

The F30p is the double rotary tablet press in the new p Series. Producers can adapt the tablet press swiftly to various product requirements.

Designed for the production of large batches, the F30p provides maximum output of up to 1.14 million tablets per hour.

**PURE**  
tableting



# PURE – the most important features of the new p Series at a glance

**Being PURE – the base for a strategic partnership in operations**

## **Productive**

- + High output in standard operations
- + Boosting tableting production capacity and driving operational excellence

## **Universal**

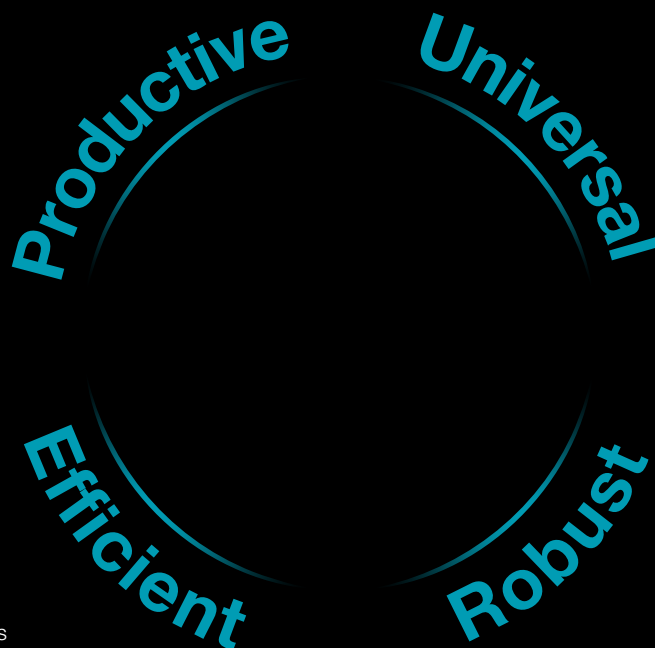
- + Compatibility and innovation well balanced
- + Minimized re-validation effort
- + Ease of use: managing and operating formulations

## **Efficient**

- + Upgraded energy saving technology – up to 40 %
- + Optimized integration of process equipment and improved intuitive user experience
- + Enhanced cost efficiency

## **Robust**

- + Optimized design for intensive utilization and high yields
- + Outstanding lifetime in standard tablet productions







### Segment Technology

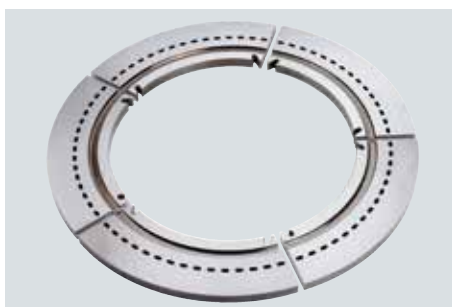
- + Up to 23% increase in output
- + 50% reduction of product loss (max.)
- + 88% reduction in manual operations for refitting
- + 100% dimensional accuracy compared to dies

### Bi-layer and first layer pneumatic sampling

- + High-performance double rotary tablet press with optimized fast sampling of the first layer
- + Advanced dust extraction for perfect layer separation and product loss reduction, by using aerodynamic design for optimized results
- + Lower punch dust extraction reducing the dust load for less friction and reduced punch stiffness

### Operator and cleaning-friendly compression chamber

- + Strict separation of drive elements and measuring points
- + Maximum conformity with GMP guidelines and Easy-to-clean concepts
- + Tool-free design for disassembly of parts
- + Perfect access from all four sides
- + Smooth surfaces
- + e-SOP function: Recipe-specific reproducible soft-hardware settings
- + Driving Operational Excellence in standard operations









### Cross-generation compatibility

The F30p is distinguished by its cross-generation system compatibility, consistently designed in accordance with the principle of process. All process-related components are identical in the previous p Series. This system-compatible design significantly minimizes the efforts associated with machine validation and qualification.

Not only by design, but also related to operating modes – an easy transfer of existing products from the previous p Series to the new F30p is enabled.

E.g. Even critical parameters of product recipes can be transferred from previous p Series models directly to the new F30p with minimal modification and validation.

With slight modifications, existing die turrets can be adopted from the tablet presses of the previous p Series models. Furthermore, the principle of sampling of the first layer is identical for all bi-layer machines produced by Fette Compacting.

### Experience applied to basic design

Fette Compacting has accumulated experience from over 75 years and more than 6,000 installed tablet presses to develop the new generation technological platform on which the electronics and mechanical components are based.

### Basic modules optimized based on application experience

Reduce the intermediate interval

E.g. new feed hopper has optimized dimensions and curvature for broader material diversity coverage.

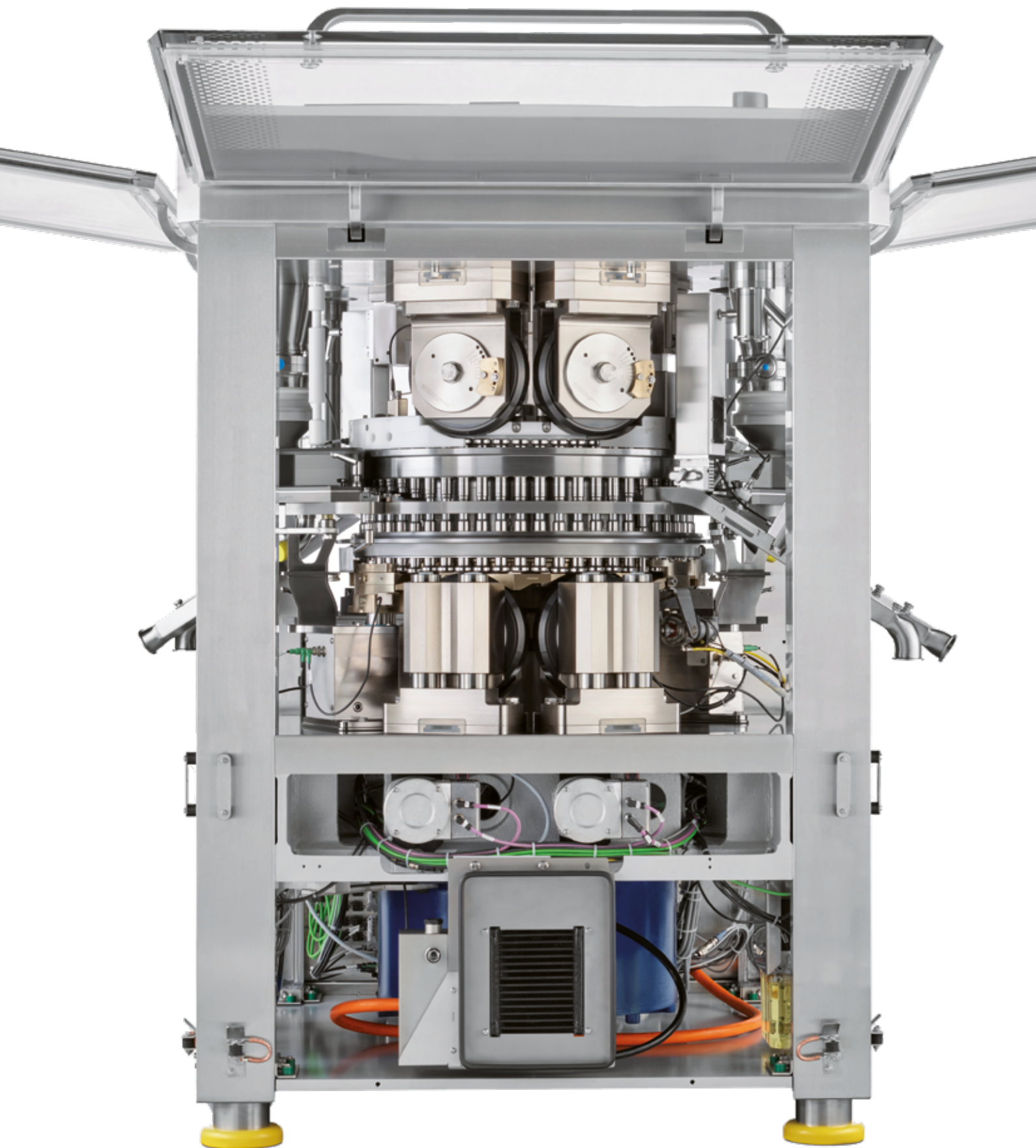
### Multiple configurations widely adapted to materials

Validated configuration packages are available as options.

E. g. Kits for: MUPS, thermolabile products, effervescent tablet, chewing gum, ...



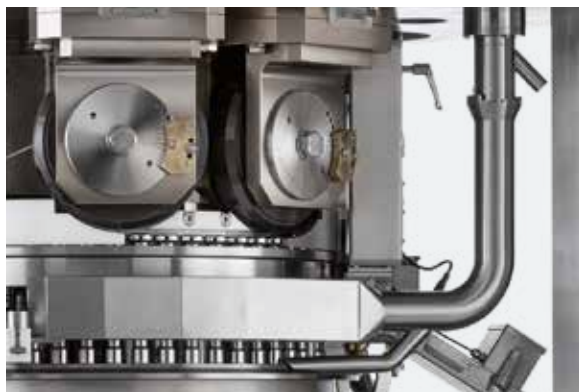
**PURE**  
tableting





#### **Integrated electrical cabinet**

- + IP54 certified
- + Improved dust-tightness: Double-layer cabinet housing with completely sealed internal coverage
- + Less maintenance requirements
- + Dual cooling circuits effectively control internal temperature, even during long term and high-load operation



#### **Dust extraction system**

- + Reduced dust exposure
- + Aerodynamically designed dust extraction system with improved efficiency even at low vacuum utilization
- + Easy and fast cleaning through stainless steel parts
- + Preventing cross-contamination



#### **Closed cam track**

- + Minimized contact between the lubricant and dust
- + Advanced lubrication cam includes punch head, inner & outer punch shaft lubrication, spring loading
- + No adjustment required
- + Minimum lubricating volume achievable



# PURE

tableting



## Dust-tight tablet chute

- + Innovative dust-tight tablet chute ensures a safe production environment

## Minimum footprint

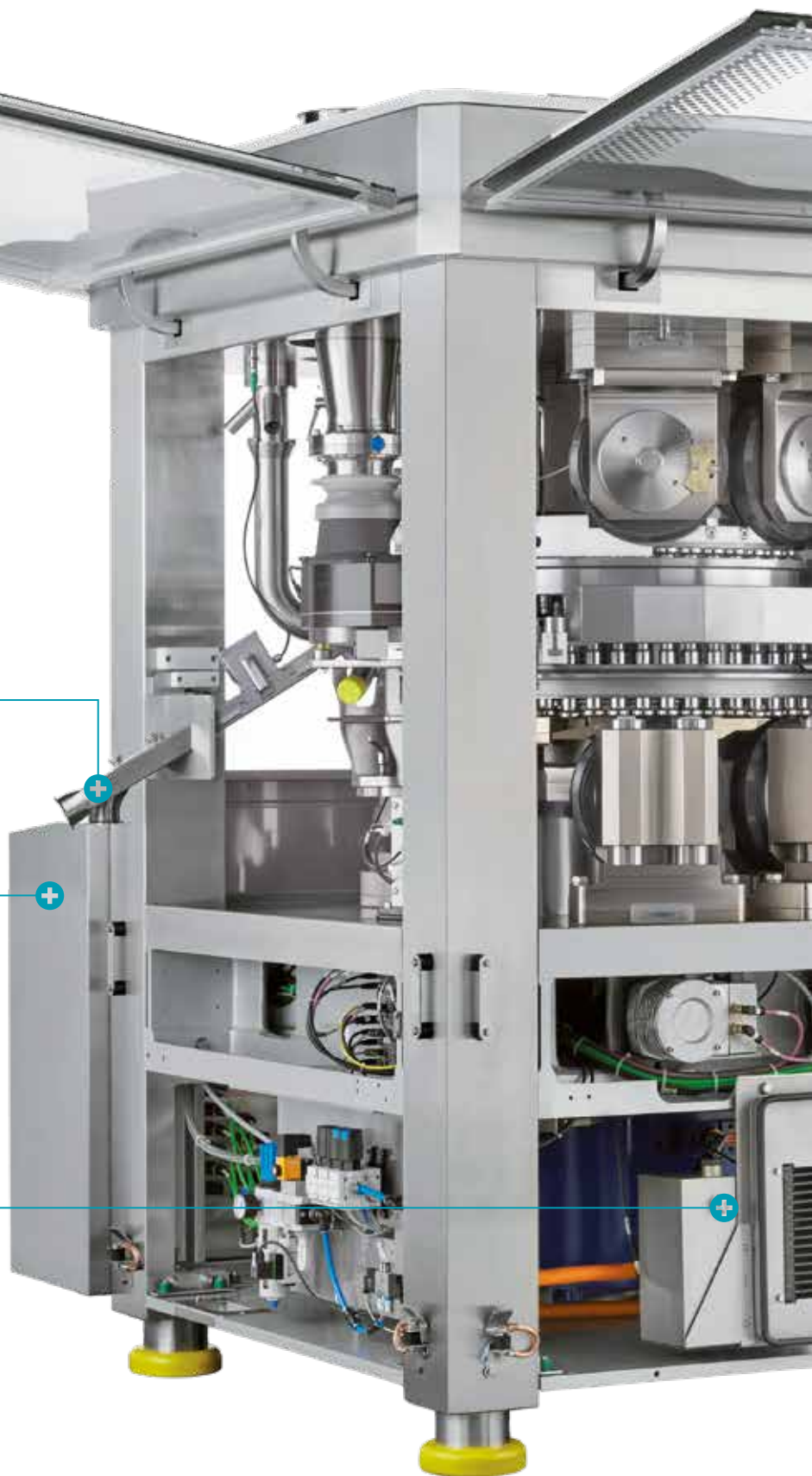
- + With IP54 certified integrated electrical cabinet

## Unified process equipment via Ethernet connection

- + Automation and control of all process devices
- + Easy monitoring and steering of process equipment

## Energy saving by torque drive

- + Efficient torque drive enhances equipment efficiency and durability
- + Up to 40% power saving compared to previous model





#### **Intuitive user Interface**

- + Enables intuitive operations, quality parameter settings and efficient acquisition of real-time data
- + 21 CFR Part 11 compliant
- + Optional: RFID operator login and customized authority management

#### **Digital Ready**

- + Compatible across systems, prepared for MES & IoT
- + Real-time data integrity by SQL server database
- + Error-free implementation of standard operating procedures (SOPs)

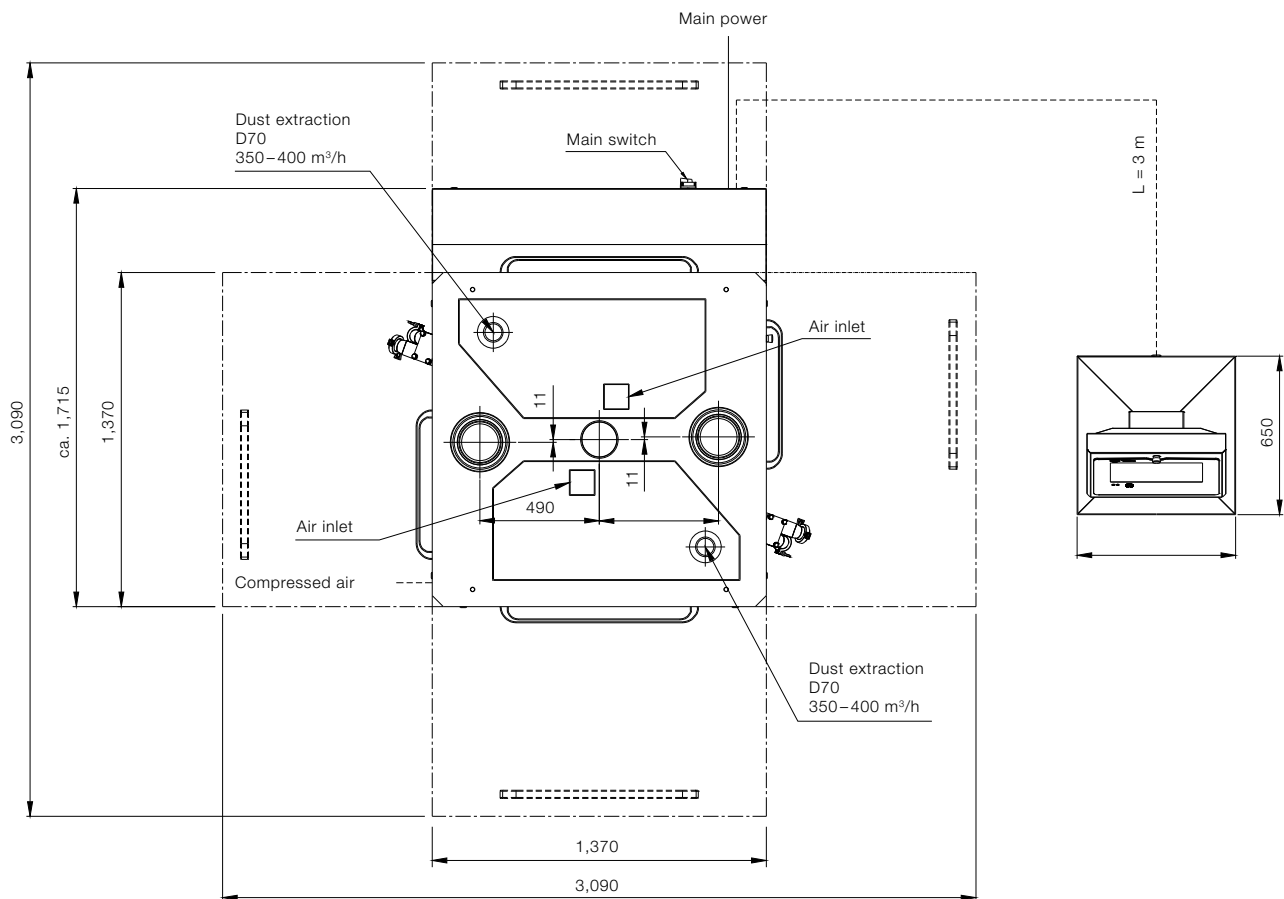
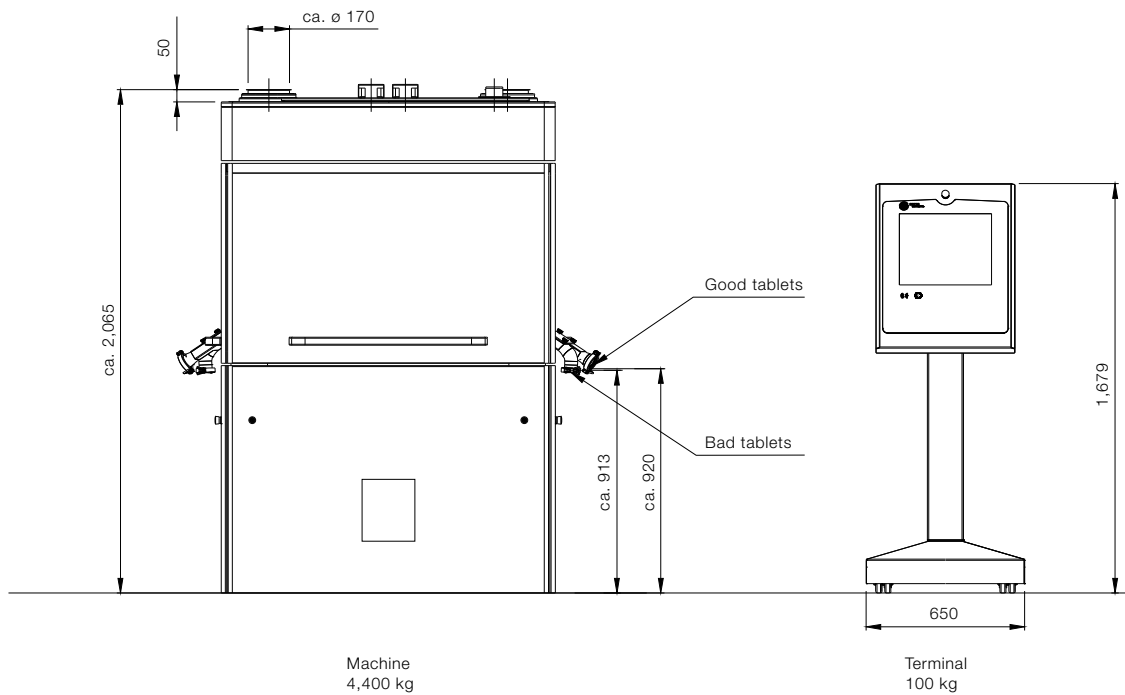
#### **SmartInterface**

by Fette Compacting

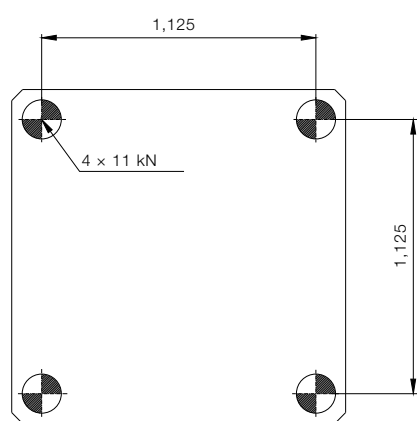
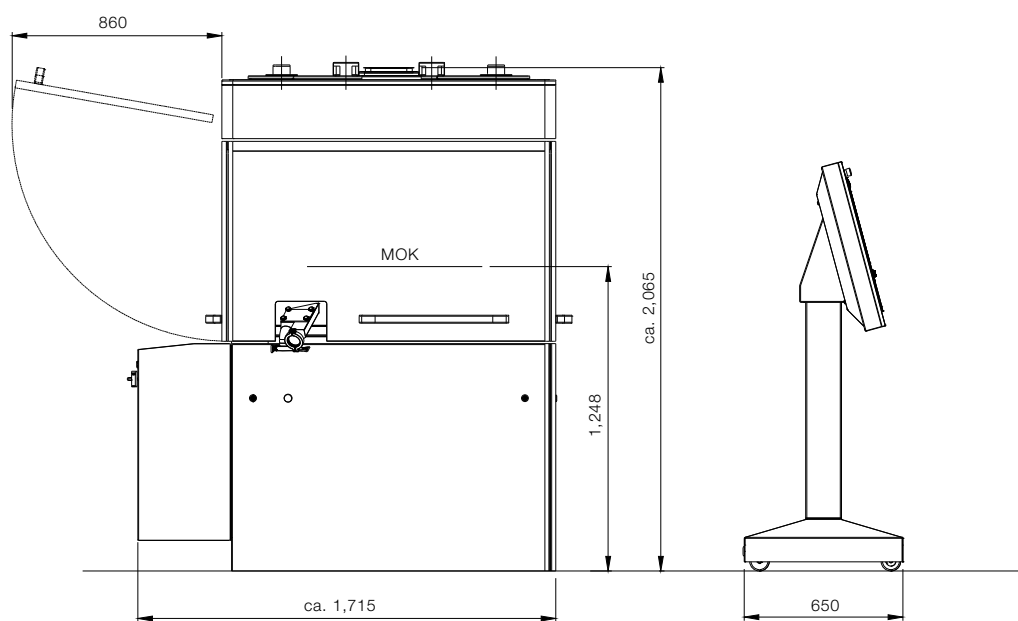
- + 24/7 access to data, documentation and machine real-time monitoring by mobile devices
- + Digital value-added function for easier handling and process acceleration
- + Key performance indicator (KPI) dashboard

# Dimensions

## Standard floor plan



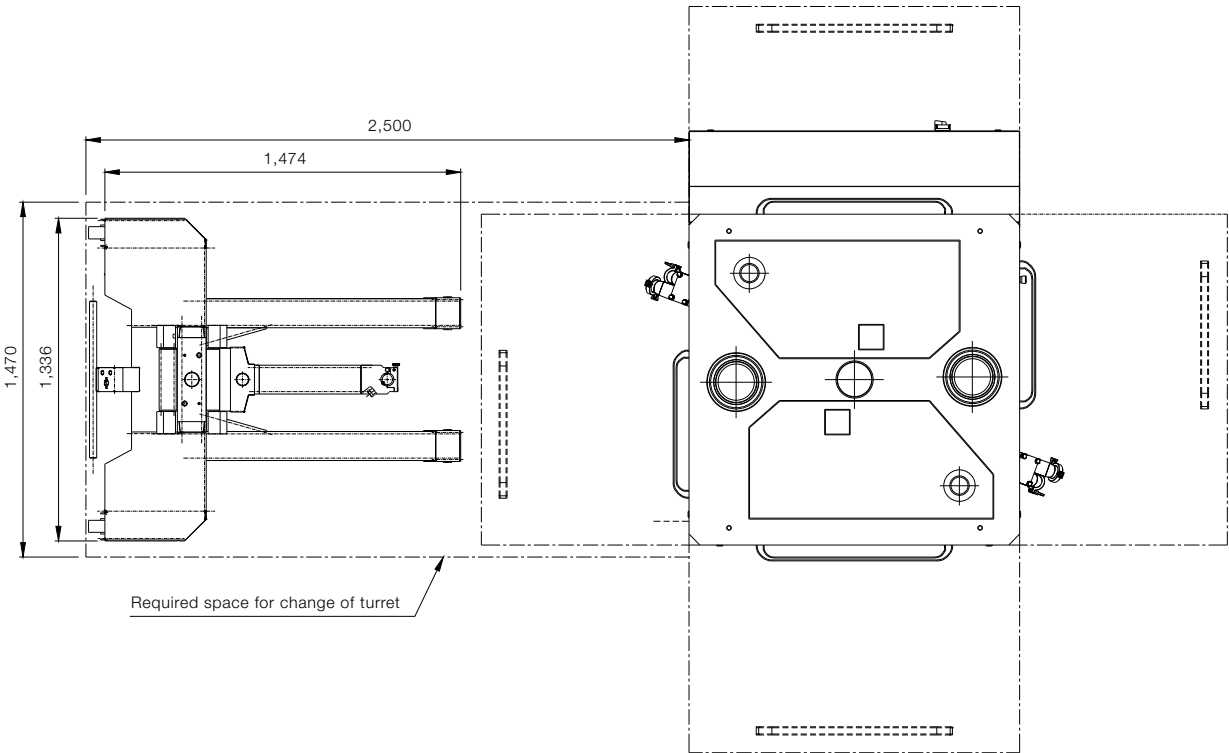
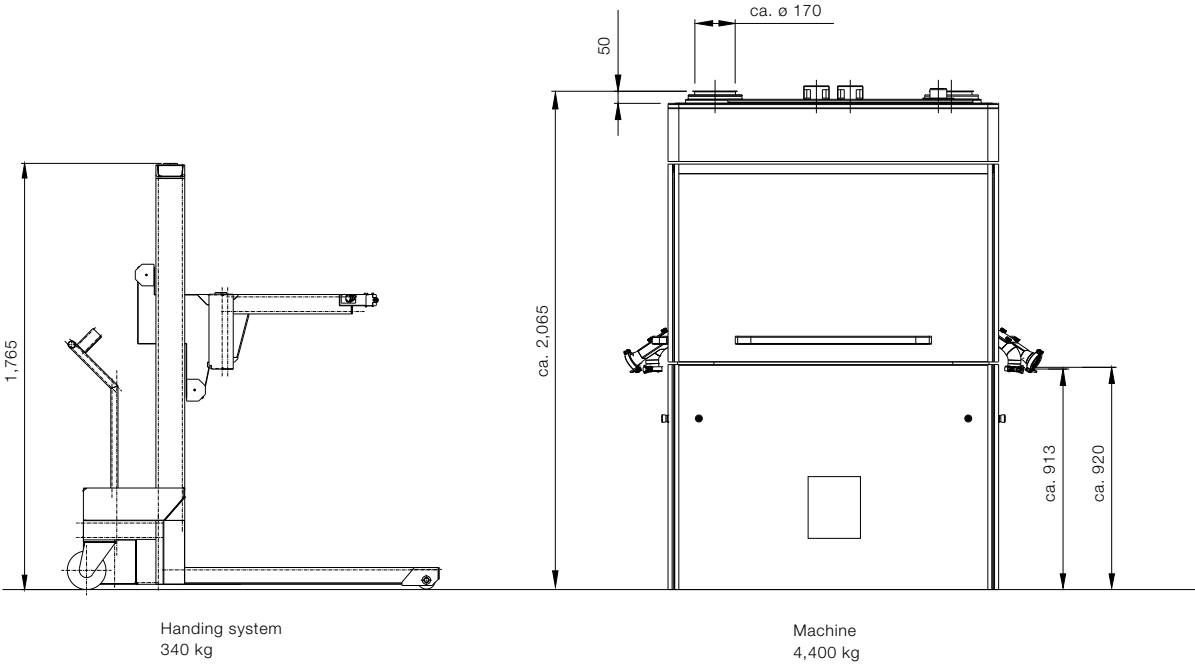


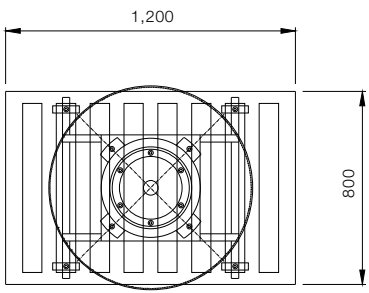
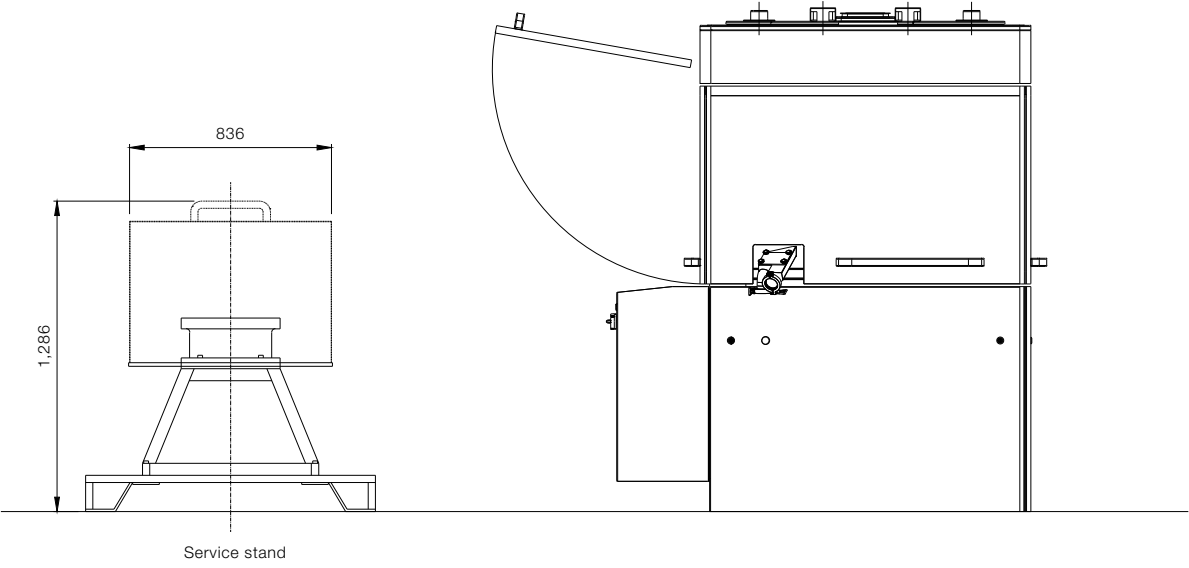


Foundation loading

# Dimensions

## Turret exchange floor plan





# Technical Data

Dies (D) / Segments (S)		D	D	D	D
Number of punch stations		79	73	61	49
Punch type		FS19® EU19 FS® EU19 BBS	FS19® EU19 FS® EU19 TSM19 BB	FS19® EU19 FS® EU19 TSM19 B	EU1" EU1"-441 TSM1" D
Tablet output units/h	min.	142,200	131,400	109,800	88,200
	max.	1,137,600	1,051,200	878,400	470,400
Max. compression force 1*	kN	100	100	100	100
Max. compression force 2*	kN	100	100	100	100
Max. compression force 3*	kN	100	100	100	100
Max. compression force 4*	kN	100	100	100	100
Max. tablet diameter	mm	11	13	18	25
Max. filling depth**	mm	18	18	18	18
Pitch circle diameter	mm	680	680	680	680
Turret rotation speed min.	min <sup>-1</sup>	15	15	15	15
	max.	120	120	120	80
Die diameter	mm	22	24	30.16	38.1
Die-/segment height	mm	22.225	22.225	22.225	23.8
Punch shaft diameter	mm	19	19	19	25.35
Punch length	Upper/lower punch	133.6	133.6 (133.35)	133.6 (133.35)	133.6 (133.35)
Upper punch insertion depth	mm	1 – 4 (8***)	1 – 4 (8***)	1 – 4 (8***)	1 – 4 (8***)
Dimensions	mm	1,370 × 1,715 × 2,065			
Weight		Tablet press 4,400 kg, operating terminal 100 kg			
Electrical supply parameters		Operating voltage 380 – 480 V, frequency 50/60 Hz, power consumption 15 kW ****			

Theoretical values or technical limits: These can vary in practice, according to product and application.  
Tablet thickness is a parameter depending on product and can strongly vary.  
\* limited by punch properties  
\*\* special filling depth available on request  
\*\*\* bi-layer-operation  
\*\*\*\* 21 kW Maximum power consumption with integrated peripherals

	S	S
	75	55
	FS19® EU19 FS® EU19 TSM19	EU1" EU1"-441 TSM1"
	135,000	99,000
	1,080,000	528,000
	100	100
	100	100
	100	100
	100	100
	18	25
	20	20
	680	680
	15	15
	120	80
	–	–
	25	25
	19	25.35
	133.6 (133.35)	133.6 (133.35)
	1–4 (8***)	1–4 (8***)

**Disclaims:**  
Some features, described in this brochure are optional,  
subject to individual machine configuration on demand.

**Fette Compacting GmbH**

Grabauer Strasse 24  
21493 Schwarzenbek, Germany  
Phone +49 4151 12-0  
Fax +49 4151 3797  
tablet@fette-compacting.com

**Fette Compacting America, Inc.**

400 Forge Way  
Rockaway N.J. 07866, USA  
Phone +1 973 5868722  
Fax +1 973 5860450  
sales@fetteamerica.com

**Fette Compacting America Latina Ltda.**

Av. Cambacica, 1200 módulo 10  
Parque Imperador  
CEP 13097-160  
Campinas / SP, Brazil  
Phone / Fax +55 19 37969910  
contato@fette-compacting.com.br

**Fette Compacting Mexico, SA de CV**

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

**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  
Fax +86 25 52129951  
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 Ibérica SL**

Avenida Labradores, 1  
2ª Planta, Oficina 3  
28760 Tres Cantos, Spain  
Phone +34 91 8039689  
Fax +34 91 3483052  
fcib@fette-compacting.com

**Fette Compacting France**

2 rue du Centre  
93160 Noisy Le Grand, France  
Phone +33 155 812121  
Fax +33 155 812120  
fcf@fette-compacting.com

**Fette Compacting Belgium BVBA**

Schaliënhoevedreef 1b  
2800 Mechelen, Belgium  
Phone +32 15 684260  
Fax +32 15 684269  
fcbe@fette-compacting.com

**EuroPharma Machinery Ltd**

Unit 12 Highview  
Bordon, Hampshire, GU35 0AX  
United Kingdom  
Phone +44 1420 473344  
Fax +44 1420 488030  
admin@europharma.co.uk

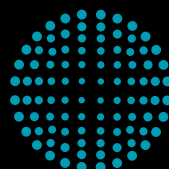
**Fette Compacting Middle East FZE**

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

**Fette Compacting North-West Africa**

Tour d'Affaire Nord, Centre Commercial  
Bab Ezzouar – Regus 4ème Etg.  
16000 Algiers, Algeria  
Phone +213 770 117 007  
fcnwa@fette-compacting.com

[www.fette-compacting.com](http://www.fette-compacting.com)



**FETTE  
COMPACTING**