



Next Generation Tableting Technology

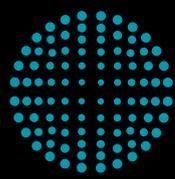
F E75

TECHNOLOGY



COMPETENCE

SERVICE



**FETTE
COMPACTING**

be efficient

How do you achieve high performance...

... when you need high production counts even with demanding products?

The rule used to be that the higher the required yield, and the more difficult the material that had to be pressed, the bigger the machine had to be if it was to do the job with the necessary quality.

The FE75 sets new standards in this field. With a maximum output of more than 1.6 million tablets an hour, and a footprint of only 2 m², it offers an optimum ratio of production rate to space requirement. Four pairs of pressure rollers, in combination with FS19 punches, allow compression dwell times up to 166 percent longer when direct pressing. A novel, patent-pending method for turret exchange, and the Fette Compacting TRI.EASY design, provide uniquely easy operation.

Discover the next generation of tableting technology.



TECHNOLOGY covers all products in the tableting technology; from tablet presses, to process equipment and tableting tools.

SERVICE includes all services related to machinery and equipment, such as: spare parts supply, installation, system upgrades and field service.

COMPETENCE is the generic term for our process-related services. This includes our training programs and compression trials, as well as application and OEE consulting, and engineering.

Fette Compacting FE75 – The new standard for the production of large batches

When top-quality and high-performance are needed, the new FE75 is the best choice. With up to 115 punch stations, and a maximum output of more than 1.6 million tablets, it sets new standards for productivity in tableting:

- + Innovative filling system for easy, reliable feeding even of difficult product formulations
- + Up to 166 % longer at dwell time pressure when direct pressing in combination with FS19 punches
- + The only double rotary tablet press of its size and class for the production of single- and bi-layer tablets, as well as the capacity for direct pressing
- + Pneumatically regulated product scraper
- + Hassle-free internal tablet discharge
- + Patent-pending method for easy, fast turret exchange
- + Separate lubrication systems for punch head and shaft and a closed cam system reduce cleaning work
- + Optimized aspiration system
- + Vibration damping through pneumatic suspension in the machine feet





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FE75 – Innovations for your productivity

New compression stations

- + New smooth-running compression rollers for ultra-simple handling
- + Four identical compression rollers
- + Single, direct compression and bi-layer compression
- + Direct compression with intermediate pressure of the compression stations
- + Compression with identical compression rollers and filling devices

- + Patented system allows for sampling in four seconds during production
- + Compression rollers can be moved quickly to a parking position for easy turret exchange
- + Extremely easy load cell exchange during product changeovers

Machine Design

- + Housing of FDA-certified, high-performance polymer
- + Geometrically optimized surfaces for the easiest possible handling and fast cleaning
- + All product contact parts are made of stainless steel
- + AIO Interface on both sides of the machine
- + Windows flaps can be opened without connecting process equipment

New Torque-drive

- + High-performance torque direct drive
- + Maintenance-free and energy-efficient
- + External and integrated electrical cabinet for maximum flexibility
- + Power and control sections are separate
- + Electrical cabinet with innovative cooling concept
- + All process equipment and machine connections on a single panel

New turrets

- + Innovative patent-pending turret changeover
- + With up to 115 punch stations in a footprint under 2 m²
- + Turret options for all applications
- + Easy turret exchange with cams and punches installed
- + Turret featuring coding ring for avoiding assembly errors
- + Fast format changeover thanks to segments
- + Coded tablet scraper
- + One central, multi-functional connector for oil, air, and electricity
- + Patented pneumatic product scraper
- + Separate lubrication systems for punch head and shaft and a closed cam system reduce cleaning work

New innovative tablet discharge

- + Easy operation
- + Significantly less floorspace thanks novel tablet discharge through the column
- + 360 degree accessibility
- + Compact unit for swift and fast cleaning
- + Dust-proof
- + Innovative and safe tablet sorting and sampling for maximum product security
- + Compact unit without cables or hoses
- + All product contact parts are made of stainless steel

- + Dust-proof and hermetically-sealed electrical cabinet

TRI.EASY Design – Ease of operation as the key to efficiency

The Fette Compacting TRI.EASY design permits uniquely easy and reliable operation. The idea behind it: efficiency is only possible when the technology is equally easy in the three dimensions of operating, refitting and servicing.

The TRI.EASY design is oriented precisely around the needs of the user, offering comprehensive help to make every task more straightforward. A short learning curve and significantly more secure handling on the part of the operating personnel, ensure maximum product quality even with the most demanding tasks.

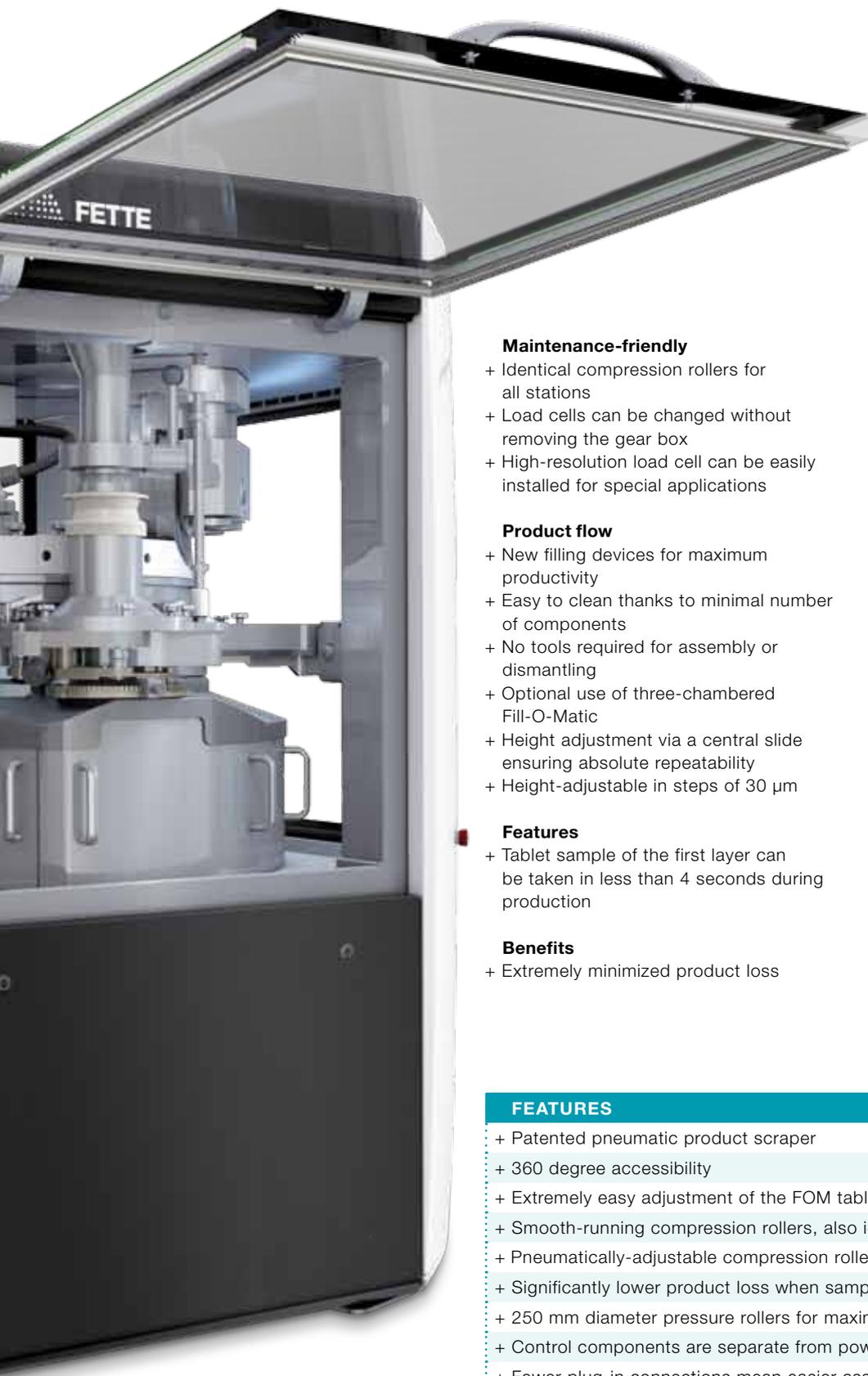
Features

- + Plug-and-Play design
- + Dismantling and assembly without tools
- + Machine controller detects the turret configuration
- + No external handling system required for turret exchanging

Benefits

- + Very easy handling since adjustments are no longer necessary
- + Fast, easy exchange and cleaning
- + Parameters are configured automatically





Maintenance-friendly

- + Identical compression rollers for all stations
- + Load cells can be changed without removing the gear box
- + High-resolution load cell can be easily installed for special applications

Product flow

- + New filling devices for maximum productivity
- + Easy to clean thanks to minimal number of components
- + No tools required for assembly or dismantling
- + Optional use of three-chambered Fill-O-Matic
- + Height adjustment via a central slide ensuring absolute repeatability
- + Height-adjustable in steps of 30 μm

Features

- + Tablet sample of the first layer can be taken in less than 4 seconds during production

Benefits

- + Extremely minimized product loss



FEATURES

- + Patented pneumatic product scraper
- + 360 degree accessibility
- + Extremely easy adjustment of the FOM table in 30 μm steps
- + Smooth-running compression rollers, also ideal for low compression forces
- + Pneumatically-adjustable compression rollers for first-layer sampling
- + Significantly lower product loss when sampling of first-layer
- + 250 mm diameter pressure rollers for maximum compression dwell time
- + Control components are separate from power components
- + Fewer plug-in connections mean easier assembly
- + Dust-proof and hermetically sealed electrical cabinet
- + Coded turret allows controller to detect configuration

Fette Compacting HMI – Easy and safe operation guaranteed



The totally redeveloped HMI (Human Machine Interface) of the FE Series lets you keep an eye on all the parameters of the tablet press. The easy, intuitive operation guarantees you maximum efficiency and reliability.

- + 19" touch-screen for the best possible overview
- + Easy operation through full keyboard
- + Dust-protected USB connection
- + No mechanical disc drives

- + Win7® embedded operating system
- + Visual operating software from Fette Compacting
- + SQL Server database
- + Fast access to the most important functions through 12 pictogram buttons
- + All surfaces can be cleaned easily
- + No ventilation slots or openings
- + Ergonomic operator height



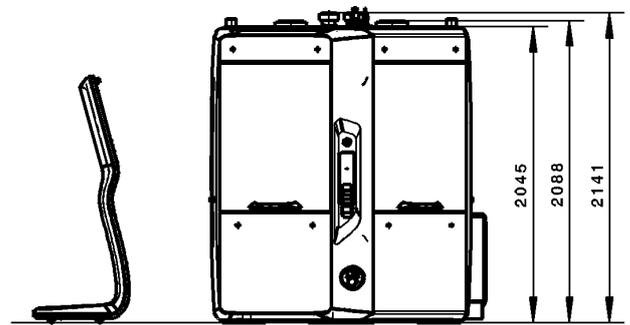
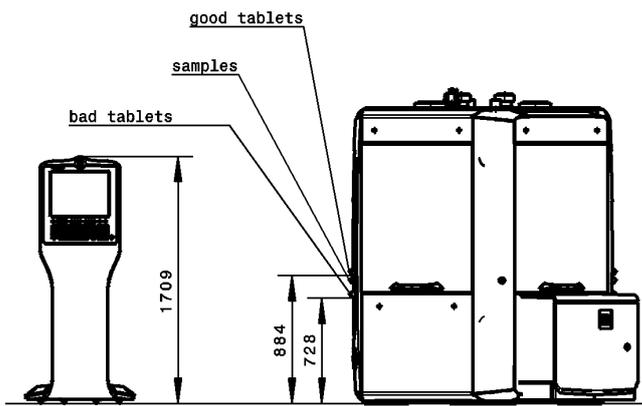
Access to the main turret functions

- + Missing punches and punches that need to be rejected can easily be selected with a touch
- + Ready-grouped parameters for easy operation
- + Hot-keys for quick adjustment of the most important parameters
- + Drag and drop parameter lists for an individualized view
- + Search function within the parameter list
- + Different input dialogs for particular parameters
- + A comment line can be used for each individual parameter
- + Critical parameters can only be changed in conjunction with another operator (as a second set of eyes)

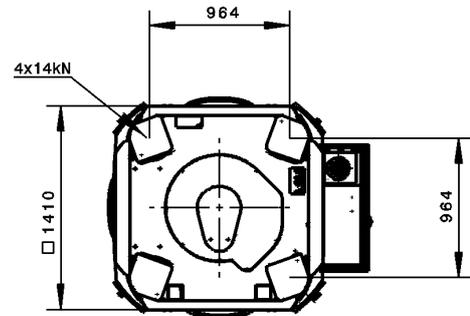
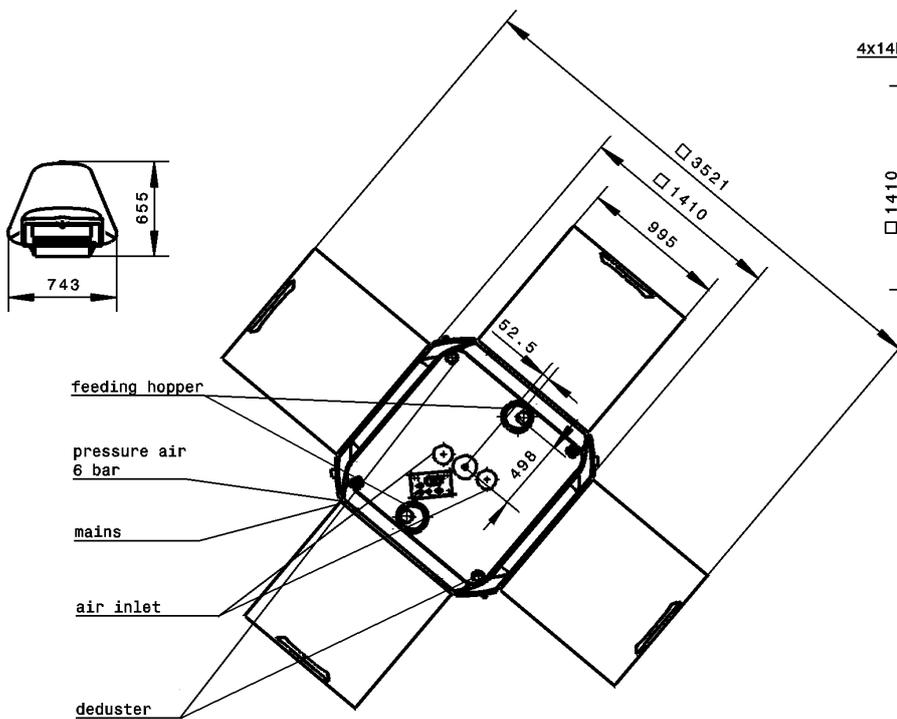
FEATURES	BENEFITS
+ Clear process graphics showing all necessary parameters	+ Easy, intuitive operation through self-explanatory pictograms
+ Backwards compatible hot-keys for machine operation	+ Direct access to Fette Compacting presses
+ Individually configurable parameter lists	+ Fast, easy machine operation
+ 12 fast-access pictogram buttons	+ Direct access to the main functions
+ Terminal made of FDA-certified high-performance polymer	+ Smooth, easily cleaned surfaces
+ HMI and software identical for the entire FE Series	+ Intuitive operation of the FE Series for the user



Dimensions



machine



foundation loading

pressure air min 6 bar

main
400/440/480V - 50-60Hz

connection
4x10mm²

Technical Data

FE75					
Number of punch stations		115	75	55	55
Punch type		FS12	FS19, EU19 (TSM/IPT19)	EU1" (TSM/IPT1")	EU1"-441
Tablet output units/h	min.	207,000	67,500	49,500	49,500
	max.	1,656,000	1,080,000	594,000	297,000
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	18	25	25
Max. filling depth 1st layer	mm	18	18	18	18
Max. filling depth 2nd layer	mm	8	8	8	8
Max. tablet thickness	mm	10	10	10	10
Max. tablet thickness 2nd layer	mm	12.5	12.5	12.5	12.5
Pitch circle diameter	mm	710	710	710	710
Die table rotation speed	mm ⁻¹	15–120	15–120	15–90	15–90
Segment height	mm	25	25	25	25
Punch shaft diameter	mm	12	19	25.35	25.35
Punch length	mm	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)
Dimensions	mm	1410 × 1410 × 2040 without integrated electrical cabinet 1410 × 1730 × 2040 with integrated electrical cabinet			
Weights	kg	Tablet press 5500 kg, Operating terminal ca. 100 kg, Electrical cabinet 250 kg			
Electrical supply parameters	kW	Operating voltage 400–480 V, 3 Ph, 50/60 Hz, Power consumption 16 kW			

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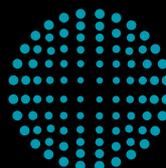
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