



1200*i* tablet press

Extreme versatility

Economical small batches

Very low space requirement

## Feature summary: 1200*i* tablet press (single rotary press)

### Key features:

- Handling arm for exchangeable turrets (optional)
- Turrets with different numbers of stations
- Compression compartment accessible from four sides
- Compact construction
- Robust technology
- Menu-driven operation
- Integrated switch cabinet

### Your benefits:

- Format change is very fast
- Remarkable flexibility
- High productivity
- Very easy cleaning
- Low space requirement
- Low maintenance
- Simple, logical operation

Production



Laboratory



Contract production



Galenics



The production of small batches is a specialized branch of tablet engineering. It is integral wherever the variety of products is wide, in contract production and galenic applications.

At FETTE we have introduced the 1200*i* into our product line to meet these needs. More fully developed, and equipped with the innovative fittings of the *i*-series, it is a particularly small tablet press that sets a benchmark in terms of economy. Extreme versatility, high flexibility, very short changeover times, remarkably easy cleaning, robust technology and a low space requirement are all critical design elements. The calculable lifetime costs and the low maintenance are of import to contract producers.

The 1200*i* occupies the niche for "economically viable small batches" amongst the tablet presses available on the market.



So small – but highly developed, powerful and quickly refitted.

## The 1200*i* versatility



### Wide range of applications

- Fast format change
- Secure removal system
- Straight forward, robust technology
- Ergonomic height
- Precise turret positioning

### Impressive performance data

- Up to 230,400 tablets per hour
- Reproducible production parameters
- High performance basic equipment
- Easy validation



### Modular system

- 1200i tablet press with exchangeable turret
- Ergonomic, height-adjustable operating terminal with 15" touch-screen
- Hermetically sealed, integrated control cabinet with CAN Bus technology
- Extremely small footprint, with optimum accessibility from all sides
- Peripheral devices:
  - GRATEX (de-dusting and deburring)
  - CHECKMASTER 4.1 (in-process control of tablet weight, thickness, hardness and diameter)

### Versatility through exchangeable turrets

- Reduction of down-time through the use of additional exchangeable turrets, complete with cams and tools
- Short cleaning time through easy accessibility
- Increased yield through the use of the optimum turret for the tablet diameter

## Operation of the 1200*i*

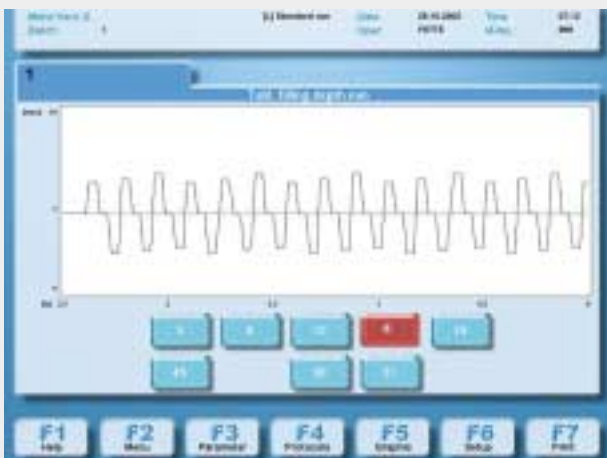
### Ergonomic operating panel

- 15" Touch screen
- Powerful Pentium industrial PC
- Optional CD writer
- Windows NT® operating system
- Uninterruptible power supply, no data lost
- Computer-controlled, individual height adjustment
- Modem for teleservice
- Optional wireless terminal for remote operation

### Easy machine operation

- Touch screen
- Easy screen-guided operation
- Structured diagnostic messages for rectifying malfunctions
- Production-specific process variables displayed, in addition to the parameter lists, using symbols and process graphs
- Help texts provide descriptions of parameters and diagnostic messages
- All production-relevant data is registered
- Pre-determined batch data can be re-used repeatedly
- 9 different user levels available for security
- Optional diagnostic messages by e-mail or SMS
- Optional integrated video support
- Optional digital spare parts list





## The 1200*i* control

### Reliable control

- Decentralized computer logic
- Direct control of all motor driven adjustments of the machine
- Acquisition of data from all measurement points
- High-speed data transfer to the evaluation unit and operator interface via Ethernet TCP/IP
- Clearly structured control loops
- Extremely stable regulation
- Incorporation of process-specific data into the control process
- High sensitivity measurement points
- Precise single ejection related to compression force

### Detailed documentation

- Change log records any and all operator inputs and changes
- Process data documentation (production record/result record)
- Operating status documentation (diagnostic record)
- Complete overview with automatic analysis
- Batch record
- Version management
- Single-channel force curves
- Single-punch graphs
- Punch statistics for each individual punch
- Statistical parameter trend display
- Electronic calibration record



## Structure of the 1200i

### Modular mechanical construction

- Maximum precision, even under the following stresses:
  - static
  - dynamic
  - thermal
- Optimized stability (FEM calculation)
- Maximum operating security
- Maximum working safety
- Enclosed compression compartment (noise/dust)
- Integrated control cabinet design
- No cross-contamination
- Long maintenance intervals
- Modular design with separation into 4 sections:
  - head section
  - compression compartment
  - middle area
  - drive area

### Compression compartment

- Precision turret mounting
- Turret and turret shaft frictionally engaged and form-fitting
- All compression stations have the same construction
- Compression stations can be easily moved out
- Pre-compression roller and main roller have the same dimensions
- Pre-compression and main compression force up to 80 kN possible

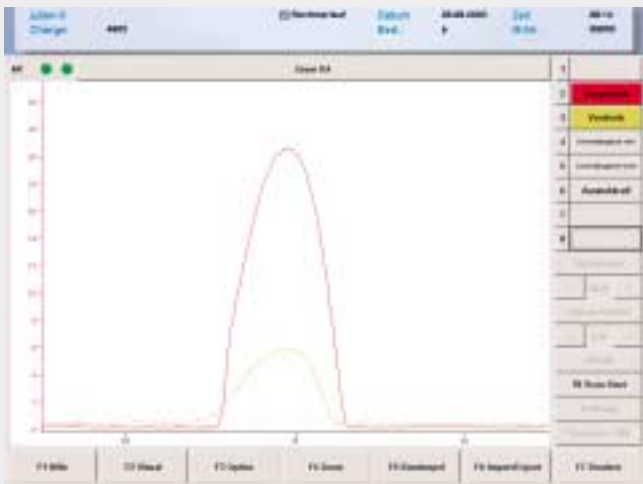
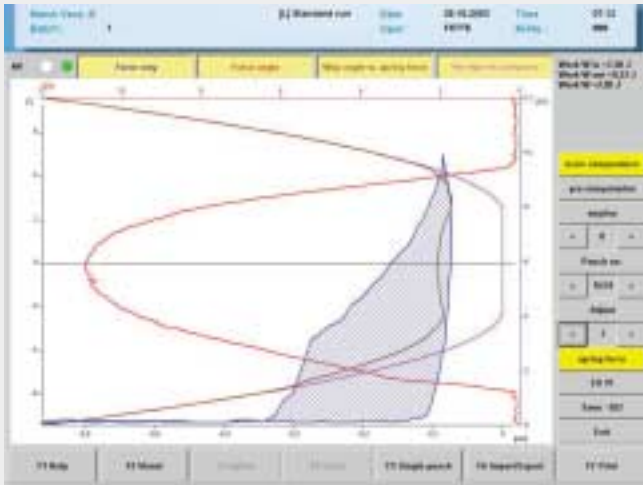
### Drive area

- Detachable drive unit with torque support
- Stable straight bevel gear pairing with high efficiency





## The 1200i Galenic package



### Convenient Galenics

- No additional instruments required
- Both the measurements and the machine setting data are available on one system
- Punch station selection
- Display of all punches in a full rotation
- Zoom function for x and y displays
- Storage of data on hard disk
- Optional data export and import via storage media or network
- Data evaluation on separate PC
- Printing function
- Directory function
- Automatic encoder zero position adjustment
- Easy scale-up due to the same size pressure rollers, same type of filling and identical pre-compression and main compression force measurement on all FETTE tablet presses
- Force curves accurately assigned to each punch by means of encoder and calculation of the horizontal and vertical punch positions

### Principal functions

- Up to 8 measuring channels, currently 5 channels
- Display of force curves for
  - main compression force
  - pre-compression force
  - ejection force
  - upper punch stiffness
  - lower punch stiffness
- Force-displacement diagram of main compression force and pre-compression force for each punch and each rotation of every punch
- Calculation of the mechanical work
- Display of the last three rotations together on one diagram (echo function)
- Punch diagram
- Punch statistics
- Trend display



#### Effective support for scale-up

- Measurement under production-like conditions
- Measured values provide basic data for higher-yield rotary presses
- The pressure rollers of all FETTE presses have the same geometry, so that the displacement information about the vertical position is always the same
- Simplified scale-up through uniform geometry of the FETTE presses
- Measurement of the main compression force the same on all FETTE machines
- Circumferential speeds can be adjusted to be the same
- Patented measurement of angular position using encoder



#### Producing small quantities without product loss

- Single-tablet pressing with manual filling
- Optional fitting with a Galenic Fill-O-Matic with the proven 3-chamber system reducing volume by up to 50%
- Fill-O-Matic with 3-point support for easy adjustment
- Fill-O-Matic with sealing frames that can be changed without tools for different tablet diameters



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