Double Sided Rotary Tablet Press

New P3030

www.fette-compacting.com
www.fette-compacting.cn
Fette Compacting – be efficient!

Technology stands for everything we offer in production technology – from tablet presses and capsule filling machines through process equipment to tableting tools and format parts.

Service covers all the services related to machines, process equipment and installations such as spare parts supply, plant modernization and technical field service department.

Competence is the overarching idea behind all our process-related services. This includes training, product trials, application and Performance Consulting as well as engineering.

Tradition and knowledge

Fette Compacting, founded in 1908, is the world’s leading provider of integrated solutions for industrial tablet production. The product portfolio offered by the technological and global market leader has been supplemented to include highly efficient capsule filling machines. The company specializes in high-performance machines for the pharmaceutical industry. The company’s head office and global control centre is in Schwarzenbek near Hamburg. Fette Compacting is represented across the globe in more than 40 countries.

Fette Compacting is the only manufacturer of tablet presses, capsule filling machines and tableting tools, operating a global competence network with five fully-equipped and digitally-networked Competence Centers in Germany, the USA, Brazil, India and China. Here customers can be trained and can perform basic and product trials together with Fette Compacting experts. They can acquire the sort of practical know-how that enhances production safety.
Fette Compacting is part of the LMT Group – a medium-sized, family-owned group of companies. The group also includes LMT Tools, a leading manufacturer of precision tools for industrial processing of construction materials, and the LMT Finance & Shared Services, which is responsible globally for the company’s central functions.

Fette Compacting recognized the opportunities for internationalization at an early stage. The company has been represented by its own subsidiary company in China since 2004.

All the machines 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 installations with computer-supported controller that meet the requirements of Title 21 CFR Part 11 (Code of Federal Regulations of the FDA) for electronic documentation.

**Complete solution for your tablet production**

We are specialized in high-performance machines for the pharmaceutical industry. Our range of products and services includes tablet presses, from laboratory to small, medium and large batches. Furthermore Fette Compacting offers mono-, bi- and triple-layer tablet presses. For high potent application we also have Containment and WIP machines in our product portfolio.

We are also offering tableting tools and process equipment as well as maintenance, training and consulting.

Our global service network are close to our customers. And our experienced international service team are able to offering various services to meeting the different requirements from our customers. During the start up phase, we offer installation, commissioning service, operation and maintenance training. During the production phase, we offer the calibration, maintenance, repair and spare parts service.

**SERVICE**

- **Start up phase**
  - Installation service
  - Commissioning service
  - Operation and maintenance training

- **Production phase**
  - Calibration service
  - Maintenance
  - Repair service
  - Spare parts

- **Highlights**
  - Global service network, close service to customer
  - Rich experienced international service team
  - Provide customer preventive services guide

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+ Mono- and bi-layer tablets
The P3030 – highest quality for large batches or bi-layer production
Support for your tablet production
We are always present where our customers are, and where they need our support.

We have five Competence Centers in Germany, India, China, Brazil and the USA, and these allow us to make comprehensive consultation, training and product trials possible.

Here again, we are starting with ourselves, and orienting ourselves around international standards. This begins with the guidelines for Good Manufacturing Practice (GMP), and extends through to standards for Technical Safety Management (TSM) or those of the European Union (EU). In fact our product tools even surpass these.

This is a central topic, and one for which we have achieved a lot through the development of the Competence Centers.

For example, we can now offer a wide range of training courses, and these are almost identical in different parts of the world.

In other words, a pharmaceutical concern that produces globally can train its machine operatives everywhere, and knows that every worker has the same know-how.

Our service consultants actively approach customers, working together with them to see how they can optimize production.

Fette Compacting has several thousand contacts with customers globally every day in the support context alone. Each of these contacts is important to us!

Continuous improvement
Fette Compacting always pays attention to the latest developments in the pharmaceutical industry and customer needs, constantly upgrades and optimizes our P Series, provides customers with higher quality products and services.

### FEATURES

<table>
<thead>
<tr>
<th>FEATURES</th>
<th>BENEFITS</th>
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<tbody>
<tr>
<td>+ Computer-controlled, user-friendly,</td>
<td>+ Excellent price/performance ratio</td>
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<tr>
<td>high-performance rotary press</td>
<td></td>
</tr>
<tr>
<td>+ Double sided rotary press with</td>
<td>+ Rapid format changeover results in</td>
</tr>
<tr>
<td>up to 79 punch stations</td>
<td>high annual yields</td>
</tr>
<tr>
<td>+ More than 1 million tablets per hour</td>
<td>+ Continuous use</td>
</tr>
<tr>
<td>possible</td>
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<tr>
<td>+ Exchangeable turret</td>
<td>+ Outstanding format and production flexibility</td>
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<tr>
<td>+ Productive, precise, safe and robust</td>
<td>+ Can be adapted for a wide range of</td>
</tr>
<tr>
<td>+ Wide range of accessories and process</td>
<td>production requirements</td>
</tr>
<tr>
<td>equipment</td>
<td></td>
</tr>
<tr>
<td>+ Capability for mono- and bi-layer tablets</td>
<td>+ Maximum format flexibility</td>
</tr>
<tr>
<td>+ Tablet weight monitor control function</td>
<td>+ High automation level reduce man-power</td>
</tr>
<tr>
<td></td>
<td>and increase the quality of the tablets</td>
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</table>

Medium to large sized batches – mono- and bi-layer tablets

It provides a maximum output of over one million tablets per hour at the same quality.

The production of medium and large sized batches requires equipment with advanced safety measures and technology. At the same time the increasing costs of raw materials necessitate companies to look for more economical options when purchasing capital equipment. Resulting from this situation the challenge for Fette Compacting is clear: to offer a machine with the flexibility, technology and performance only achievable with Fette Compacting components at an economically viable price.

The P3030 is the perfect answer to these requirements. It provides renowned Fette Compacting technology at the best price/performance ratio. The P3030 is an economical solution that doesn’t compromise the standards and quality of the basic Fette Compacting components.

The success of the P3030 is due to the perfect blend of technology and efficiency on which Fette Compacting has built its reputation.
Performance and quality
Upgrade Features
+ New design & functionality
+ Full stainless steel terminal, easy to clean
+ Optimized dust collection system
+ Metal handle for easy cleaning and durability
+ System integration of deduster and in process control
+ On-line tablet weight monitor & control function
+ MES system support

Structure
+ Modular design with enclosed compression area to avoid the risk of cross-contamination, in compliance with cGMP regulations
+ Maximum operating safety
+ Robust design ensure consistent accuracy even over long periods of high pressure
+ Quick-connect for easy disassembly of components, easy for maintenance and repair
+ Full accessibility to the compression zone – double layer window flaps on all four sides

Exchangeable Turret
+ Turret is made in Germany, super precision
+ Highest level of format flexibility
+ Highest output by selecting the most suitable turrets according to different product size
+ Design-patented turrets can be interchanged with cams and tools
+ Signifisant reduction of down-time by using extra turret complete with cams and toolings
+ Rich options for turret changing are available

Fill-O-Matic
+ Unique three chamber filling system, more than 40 years experience on it
+ Metering wheels can increase powder flowability and uniform density
+ Filling wheels and dosing wheels can precisely fill and dose powder
+ Different options for products with poor flowability, and for minimal product loss

Compresssion station
+ Main compression roller and pre-compression roller are same size (250 mm, exchangeable)
+ All compression roller are independent mounted, each can offer 100 KN force maximum
+ Roller is made in Germany with special material and technology, longer lifetime

Tablet discharge
+ Two tablet discharge chutes
+ Each discharge chute includes good tablet channel and reject tablet channel
+ Optional first-layer sampling system and sampling gate, easy to check tablet quality
+ Optional air sorting system, reject single tablet precisely, reduce the product loss
+ Optional sampling gate, easy to take sample and check tablet quality

Electronic control
+ Equipped with advanced VME-bus control system and top class electrical parts, faster and more stable
+ Professional software developed by Fette Compacting, verified by a lot of customers including many MNCs
+ Ergonomical HMI consisting of a large touch screen, screen-guided interface simplify the operation
+ Structured diagnostic messages for troubleshooting
+ Support FDA 21 CFR Part 11
The quality requirements for tablet production are constantly increasing. Process equipment from Fette Compacting ensures that your production fully complies with the applicable regulations and effectively reduces the workload of your staff. Extensive automation of all process steps reduces manual intervention and provides for excellent tablet quality.

**Your advantages:** maximum reliability, the highest quality and efficiency in tablet production.

**Weightmaster 6.2P**
+ Fully automatic measurement of tablet weight
+ Automatic feedback to Fette Compacting tablet press with stop function
+ Precise monitoring of tablet weight within freely adjustable stop limits
+ Documented tablet inspection results in your batch report
+ 21 CFR Part 11 compliant operation via the operator and password management on the Fette Compacting HMI (Human Machine Interface)
+ GMP-compliant design

Optional accessories and process equipment

**Handling system**
**Deduster stand-alone or with metal detector**
**PKB-II**
**Tableting Tools**
Dimensions

Machine
4,800 kg

Terminal
100 kg

Vacuum
700–900 m³/h

Air inlet
 ø60

Air inlet
 ø80

Mains
380–520 V ~50/60 Hz

Connection
4 × 6 mm² – on floor
4 × 10 mm² – cable conduit

Foundation loading
4 × 12 kN

L = 3 m

Mains
Main switch

In & outlet air for motor chamber

248

860

1,370

1,610

1,620

1,136

650
## Technical Data

<table>
<thead>
<tr>
<th>Die (D)</th>
<th>D</th>
<th>D</th>
<th>D</th>
<th>D</th>
</tr>
</thead>
<tbody>
<tr>
<td>Number of punch stations</td>
<td>79</td>
<td>73</td>
<td>61</td>
<td>49</td>
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<tr>
<td>Punch type</td>
<td>EU19</td>
<td>EU19 (TSM 19)</td>
<td>EU19 (TSM 19)</td>
<td>EU17*/EU17*-441 (TSM 1')</td>
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<tr>
<td>BBS</td>
<td>BB</td>
<td>B</td>
<td>D</td>
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<tr>
<td>Tablet output/h</td>
<td>min.</td>
<td>142,200</td>
<td>131,400</td>
<td>109,800</td>
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<tr>
<td>max.</td>
<td>1,004,880</td>
<td>700,800</td>
<td>585,600</td>
<td>470,400</td>
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<tr>
<td>bi-layer max.</td>
<td>502,440</td>
<td>350,400</td>
<td>292,800</td>
<td>235,200</td>
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<tr>
<td>Max. compression force</td>
<td>kN</td>
<td>100*</td>
<td>100</td>
<td>100</td>
</tr>
<tr>
<td>Max. pre-compr. force</td>
<td>kN</td>
<td>100*</td>
<td>100</td>
<td>100</td>
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<tr>
<td>Max. tablet diameter</td>
<td>mm</td>
<td>11</td>
<td>13</td>
<td>16</td>
</tr>
<tr>
<td>Max. filling depth</td>
<td>mm</td>
<td>18</td>
<td>18</td>
<td>18</td>
</tr>
<tr>
<td>Max. tablet thickness</td>
<td>mm</td>
<td>8.5</td>
<td>8.5</td>
<td>8.5</td>
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<tr>
<td>Pitch circle diameter</td>
<td>mm</td>
<td>680</td>
<td>680</td>
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<tr>
<td>Die table rotation speed</td>
<td>mm⁻¹ min.</td>
<td>15</td>
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<tr>
<td>mm⁻¹ max.</td>
<td>106</td>
<td>80</td>
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<tr>
<td>Die diameter</td>
<td>mm</td>
<td>22</td>
<td>24</td>
<td>30.16</td>
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<tr>
<td>Die height</td>
<td>mm</td>
<td>22.22</td>
<td>22.22</td>
<td>22.22</td>
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<tr>
<td>Punch shaft diameter</td>
<td>mm</td>
<td>19</td>
<td>19</td>
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<tr>
<td>Punch length</td>
<td>mm</td>
<td>133.6</td>
<td>133.6 (133.35)</td>
<td>133.6 (133.35)</td>
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<tr>
<td>Upper/lower punch</td>
<td></td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>Upper punch penet. depth</td>
<td>mm</td>
<td>1–4 (8 ***)</td>
<td>1–4 (8 ***)</td>
<td>1–4 (8 ***)</td>
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<tr>
<td>Dimensions</td>
<td>mm</td>
<td>1,370 × 1,620 × 2,073</td>
<td></td>
<td></td>
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<tr>
<td>Weight</td>
<td></td>
<td>Tablet press approx. 4,800 kg, operating terminal 100 kg</td>
<td></td>
<td></td>
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<tr>
<td>Electrical supply data</td>
<td></td>
<td>Operating voltage 380 – 520 V, 50/60 Hz, power consumption 16 kW</td>
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</tbody>
</table>

Theoretical values or technical limits: These can vary in practice, according to product and application. Tablet thickness is a size dependent on product and can strongly vary. * limited by punch properties up to 70 kN; ** Application with filling cams ≥22 mm require special attention, especially for high filling depths. To ensure max. performance and operation safety, special tooling or measures might be required; *** bi-layer