NETZSCH Impact Mill Condux® Compact
Basic fine-grinding – ATEX conform
The grinding of products, whose dusts are potentially explosive, places particularly high demands on the technology used and the design of a grinding plant with regard to safety. The most frequently used variant is a complete grinding system which is pressure shock resistant up to 10 bar (g). However, this usually means considerable costs for peripheral equipment.

With the new ATEX-compliant plant concept \textit{CONDUX}® \textit{COMPACT}, the installation of a more efficient grinding plant for many products is considerably easier: With this newly developed plant concept, explosion protection valves or explosion suppression equipment, explosion-decoupling devices, ventilators and even dust filter systems are no longer required in the classical sense.
Impact Mill Condux® 220 Compact
In contrast to conventional grinding plants, the processing gas in the new Impact Mill CONDUX® COMPACT is circulated. A pressure shock resistant rotary valve feeds the product directly into the mill. After the product has been ground, it leaves the machine through another valve at the bottom of the mill.

The additional rinsing air fed through the valves and mill bearing is continuously discharged by the system to prevent a buildup of pressure. The mini-aspiration filter, specifically designed for these small amounts, prohibits the uncontrolled escape of dust through the product feed- and withdrawal valves. A subsequent injector generates the vacuum needed by the system.

The warmth inside the mill is removed with the product when it leaves the machine, without any harm to the product itself. For this reason no processing air or equipment is needed for cooling. For example, the max. temperature increase of ground powdered sugar (fineness 99% < 200 µm) is a ∆T of 25°C.

Experience with delivered production plants as well as numerous tests have provided us with substantiated information regarding the increase of temperature and the suitability of the system for daily use.

Impact Mill

The well-proven Impact Mill CONDUX® is the basis machine in this new grinding system. The products are ground within this machine mainly by impact and shearing action. For use with a wide variety of products and final finenesses, this machine is available in various executions, either as a blast mill, pin-disc mill or wing-beater mill.
Focus on Your Benefits

- Optimal coordination of fineness, temperature and throughput
- Excellent product qualities in an economical process
- Execution with blast rotor guarantees low temperature levels
- Dust explosion protected plants to suit the particular country’s individual laws
## Impact Mill CONDUX® COMPACT

### Technical Data

<table>
<thead>
<tr>
<th>CONDUX® COMPACT</th>
<th>150</th>
<th>220</th>
<th>300</th>
<th>450</th>
</tr>
</thead>
<tbody>
<tr>
<td>Efficiency factor</td>
<td>0.3</td>
<td>0.6</td>
<td>1</td>
<td>2</td>
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<tr>
<td>Throughput* kg h⁻¹</td>
<td>300</td>
<td>600</td>
<td>1000</td>
<td>2000</td>
</tr>
<tr>
<td>Drive capacity (max.) kW</td>
<td>5.5</td>
<td>15</td>
<td>22</td>
<td>45</td>
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<tr>
<td>Rotational speed (max.) min⁻¹</td>
<td>19000</td>
<td>13000</td>
<td>9200</td>
<td>5500</td>
</tr>
<tr>
<td>Length (A) mm</td>
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<td>1700</td>
<td>1850</td>
<td>2500</td>
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<tr>
<td>Width (B) mm</td>
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<td>1800</td>
<td>1600</td>
<td>2000</td>
</tr>
<tr>
<td>Height (C) mm</td>
<td>1600</td>
<td>2350</td>
<td>2600</td>
<td>3500</td>
</tr>
</tbody>
</table>

* based on sugar d₉₀ 100 µm

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*The diagrams illustrate the dimensions of the Impact Mill CONDUX® COMPACT models 150, 220, 300, and 450.*
Impact Mill **Condux® 150 Compact**

*Focus on Your Benefits*

- Low space requirement
- Compact design
- ATEX conform
- Fast and easy cleaning
- Low investment costs
- Low maintenance costs
- User friendly
- Easy access
- Dust-free filling
- Universal operation
The NETZSCH Group is a mid-sized, family-owned German company engaging in the manufacture of machinery and instrumentation with worldwide production, sales, and service branches. The three Business Units – Analyzing & Testing, Grinding & Dispersing and Pumps & Systems – provide tailored solutions for highest-level needs. Over 3400 employees at 210 sales and production centers in 35 countries across the globe guarantee that expert service is never far from our customers.