

The Grinding Process

In contrast to conventional grinding plants, the processing gas in the new Impact Mill *CONDUX*® 150 *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 via a cyclone with valve.

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. 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 ΔT of 25°C.



NETZSCH Trockenmahltechnik GmbH
and NETZSCH-Feinmahltechnik GmbH
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Business Unit Grinding & Dispersing – The World's Leading Grinding Technology

The NETZSCH Group is an owner-managed, international technology company with headquarters in Germany. The Business Units Analyzing & Testing, Grinding & Dispersing and Pumps & Systems represent customized solutions at the highest level. More than 3,700 employees in 36 countries and a worldwide sales and service network ensure customer proximity and competent service.

Our performance standards are high. We promise our customers Proven Excellence – exceptional performance in everything we do, proven time and again since 1873.

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G&D · CONDUX® COMPACT · EN · 09/20 · Technical specifications are subject to change.

NETZSCH Impact Mill
CONDUX® 150 *COMPACT*

Impact Mill *CONDUX*® 150 *COMPACT*

Easy fine-grinding — Low space requirement, pressure shock resistant and ATEX-compliant

NETZSCH

Proven Excellence.

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 *CONDUX*® 150 *COMPACT*, the installation of a more efficient grinding plant for many products is considerably easier: Due to 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.



Your Benefits thanks to NETZSCH's Sophisticated Design

- Hygienic Design
- Low space requirement
- Compact design
- Low feeding height
- ATEX conform
- Fast and easy cleaning
- Low investment costs
- Low maintenance costs
- User friendly
- Easy access
- Dust-free filling
- Universal operation

ATEX conformity

EC-TYPE EXAMINATION CERTIFICATE
under the directive 94/9/EG,
Appendix III



II 1 (i) D / 2 (o) D c 100 °C
IBExU04ATEX1185X