

NETZSCH

Proven Excellence.



NETZSCH Impact Mill *CONDUX® COMPACT*

Basic fine-grinding – ATEX conform

Business Unit
GRINDING & DISPERSING

Impact Mill *CONDUX*[®] *COMPACT*

Pressure shock resistant and safe

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*[®] *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.



ample



Impact Mill CONDUX® 220 COMPACT

Impact Mill *CONDUX*[®] *COMPACT*

The Grinding Process

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.

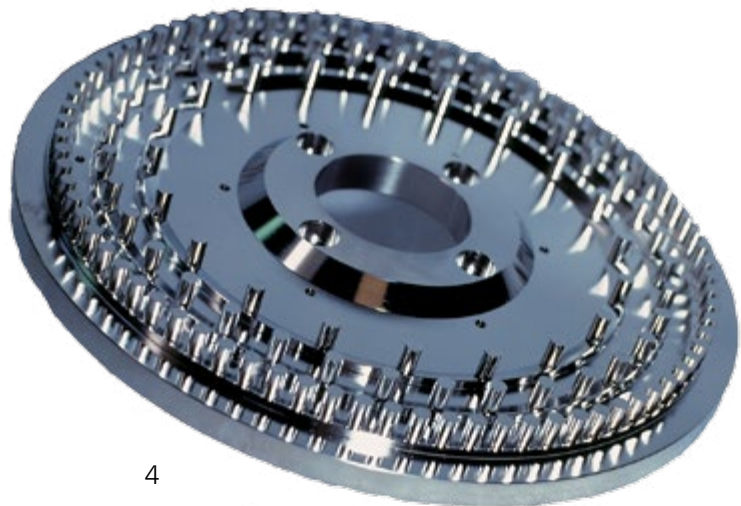
The additional rinsing air fed through the valves and mill bearing is continuously discharged by the system to prevent a buildup of pressure. The mini-aspiration filter, specifically designed for these small amounts, prohibits the uncontrolled escape of dust through the product feed- and withdrawal valves. A subsequent injector or small blower 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 ΔT of 20°C.

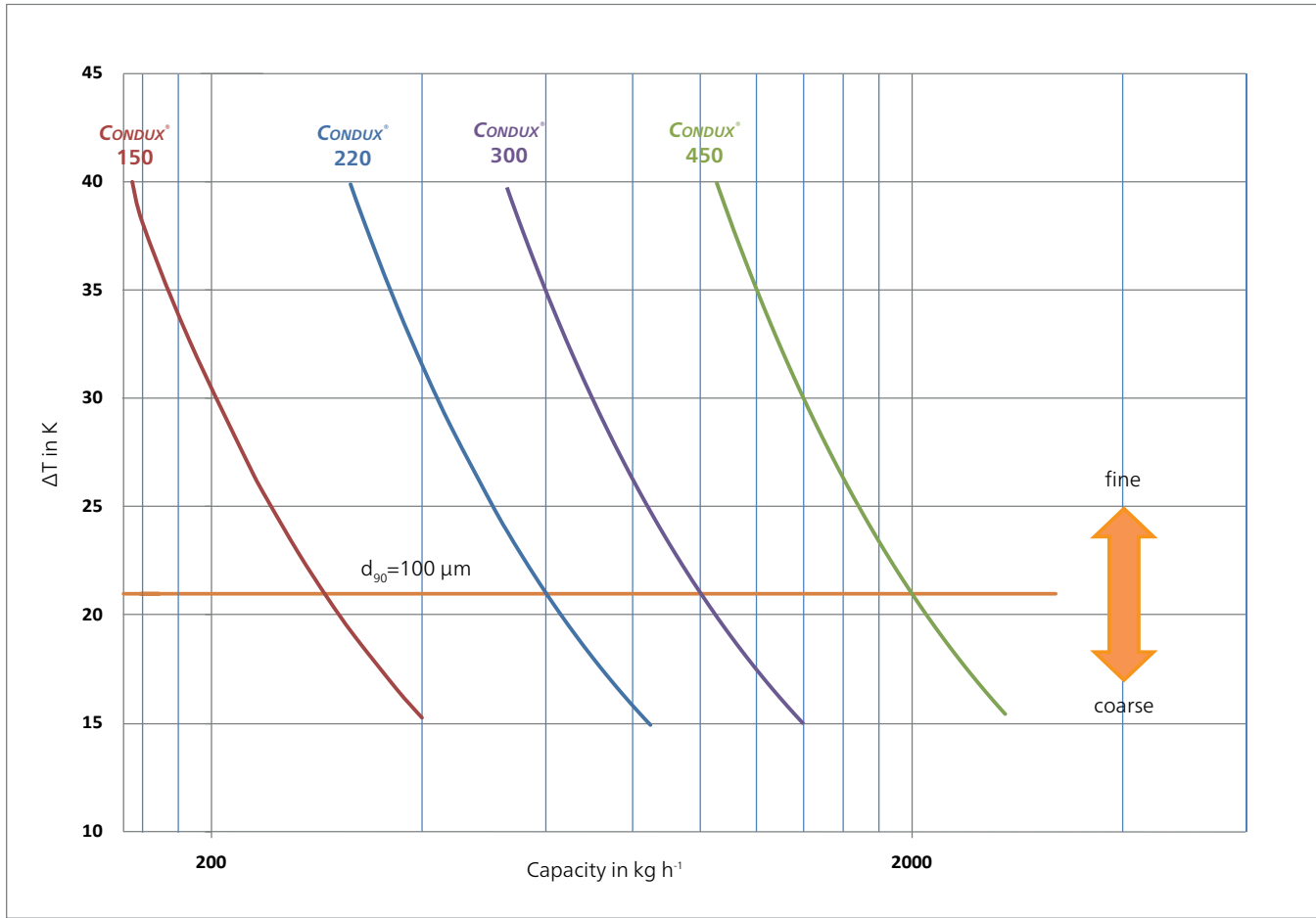
Experience with delivered production plants as well as numerous tests have provided us with substantiated information regarding the increase of temperature and the suitability of the system for daily use.

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.



Product example: Sugar grinding with the Impact Mill *CONDUX® COMPACT*



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

<i>CONDUX[®] COMPACT</i>		150	220	300	450	680
Efficiency factor		0.3	0.6	1	2	4
Throughput*	kg h ⁻¹	300	600	1 000	2 000	4 000
Drive capacity (max.)	kW	5.5	15	22	45	90
Rotational speed (max.)	min ⁻¹	19 000	13 000	9 200	5 500	3 600
Filter area	m ²	0.8	0.8	1.1	2.3	2.9
Length	mm	1 200	1 700	1 850	2 500	3 750
Width	mm	800	1 800	1 600	2 000	2 800
Height	mm	1 900	2 350	2 600	3 500	4 000

* based on sugar d₉₀ 100 µm


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



Impact Mill CONDUX® 150 COMPACT



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 4,000 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.

Proven Excellence. ■

Business Unit Grinding & Dispersing – The World's Leading Grinding Technology

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