

NETZSCH

Proven Excellence.



NETZSCH *SPHERHO*®

Laboratory-size Agitator Bead Mills for finest Dry-Grinding

Finest Dry-Grinding

Laboratory-size Dry Agitator Bead Mill *SPHERHO*®

Compared to conventional ball mills, with the NETZSCH Dry Agitator Bead Mill *SPHERHO*® it is possible to obtain extremely fine products combined with very high throughput capacities at low specific energy consumption levels thanks to its operating mode and stress characteristics.

To expand its *SPHERHO*® product range NETZSCH has now included three lab-sized machines. These can be used for development of new products, for processing smallest quantities, for quality control, quality assurance and process optimization. The reproducibility of the results that are achieved is an essential point. The ease of operation and the high degree of flexibility is a plus. Additionally a low cleaning expenditure at the highest possible product recovery can be guaranteed.

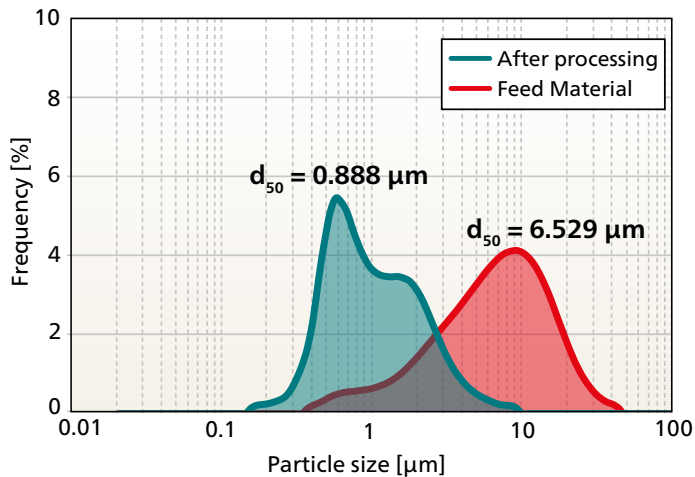
Features

- Continuous operating horizontal dry bead mill
- Minimum volume for trials 0.5 l (*SPHERHO*® 1)
- Saves energy costs
- Air flushing system for shaft sealing
- Efficient surface modification
- Scale-up to production size

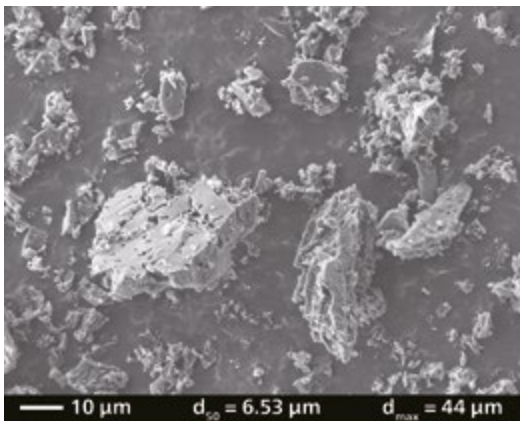


NETZSCH Dry Agitator Bead Mill *SPHERHO*® 5

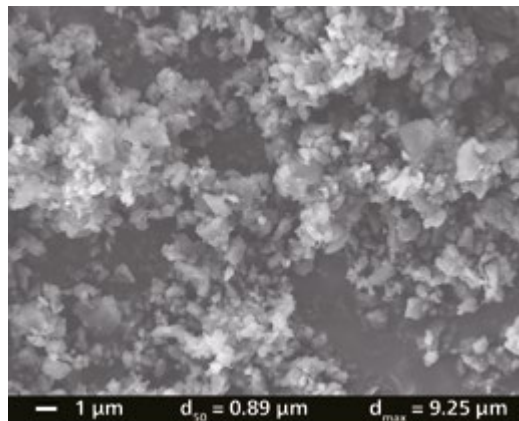
Example of Application: Activated Carbon



NETZSCH Dry Agitator Bead Mill *SPHERHO*® 1



Activated Carbon – Feed Material



Activated Carbon after processing

Technical Data

| <i>SPHERHO</i> ® | 1 | 5 | 12.5 |
|-----------------------------|-----|-------|-------|
| Grinding Chamber Volume [l] | 1.0 | 3.8 | 12.2 |
| Motor Power [kW] | 3.5 | 5.5 | 15 |
| Length [mm] | 600 | 1 300 | 2 000 |
| Width [mm] | 400 | 600 | 850 |
| Height [mm] | 500 | 1 400 | 1 700 |
| Weight [kg] | 50 | 550 | 800 |

Materials processed with *SPHERHO*®

| Mohs Hardness | Material |
|---------------|--|
| 7 - 9 | Quartz, Silica, Soft Ferrites, Hard Ferrites, Carrier Ferrites, Alumina, Silicone Nitride, Iron Oxide, Tungsten Oxide, Sodium Silicate |
| 4 - 6 | Glass, Carbon, Black Silica, Blast Furnace Ash, Fly Ash, Burned Ash, Organogermanium |
| Less than 4 | Gypsum, Magnesium Hydroxide, Aluminum Hydroxide, Barium Titanate, PZT, Powdered Green Tea, Rice Flour |

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. 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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