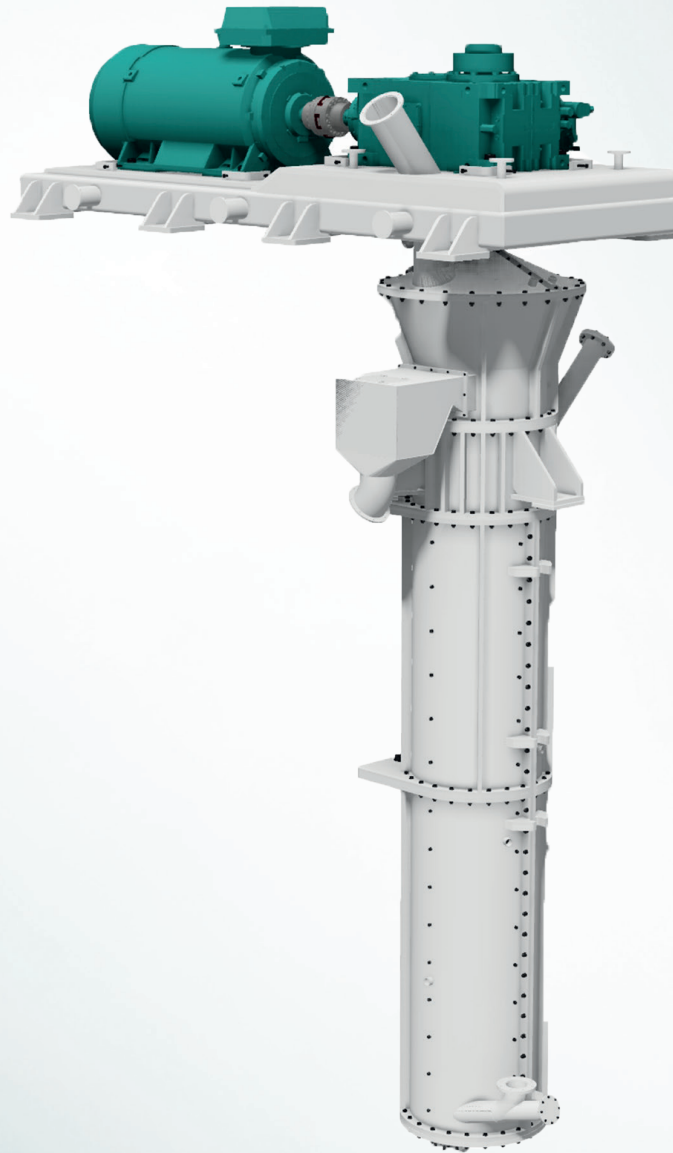


NETZSCH



Vertical Bead Mill *COLORADO*

For Fine Products

Vertical Bead Mill *COLORADO*

for more efficient wet fine grinding of soft to

Get an advanced and energy efficient fine and ultra-fine grinding solution. The vertical design allows a flexible operating conditions for low to high throughput and the available mill body liners make the mill suitable for all kinds of product.

From soft Limestone to hardest basalt, all type of rocks can be treated.

Due to the unique patented screenless separation system at the mill outlet, smallest grinding media sizes can be used, still at highest throughput rates. This guarantees lowest specific energy consumptions and low media wear rates.

The Colorado comprise a support frame with gearbox and main drive motor, a milling chamber, shaft with grinding discs, equally spaced. The milling chamber is filled up to 85 % with grinding beads. Rotating discs agitate the media charge and grinding takes place between beads by attrition.

Product feed is via bottom inlet connection. When the flow passes upwards towards the outlet, the product particles are stressed at every disc volume. Before finally going towards the product outlet, the slurry must pass the patented separation system, where the grinding media is retained and sent back to the milling zone.

The final product then discharges by gravity to the outlet port at the top of the grinding chamber.

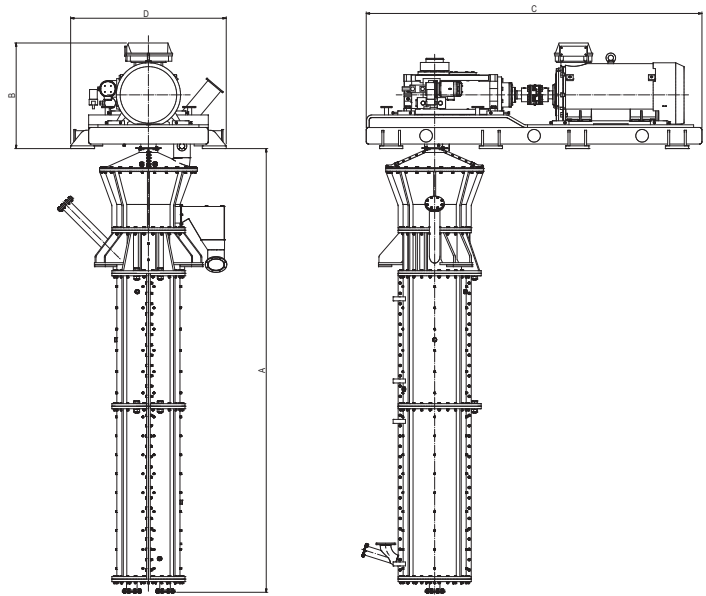
Energy efficiency

G-forces keep the media compact during operation and ensure high intensity stress as well as efficient comminution of the product particles.

The Colorado comes in several mill sizes and can handle both, high and low flowrates.



hard materials

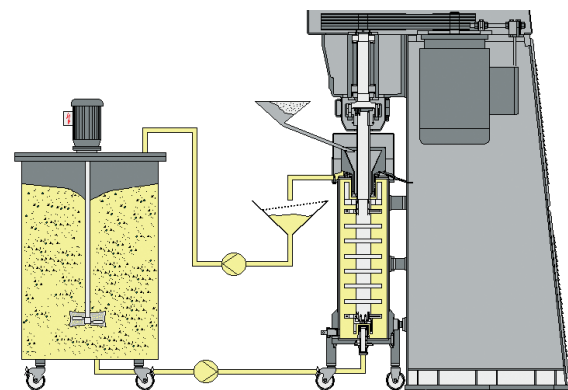


Technical Data

Sizes		50	200	500	1000	2000	3000	4000	6000
Batch sizes	[l]	50	200	500	1000	2000	3000	4000	6000
Tip speed	[Upm]	300 - 1100	200 - 700	150 - 500	130 - 430	100 - 330	75 - 250	75 - 250	70 - 220
Driven power	[kW]	37	115	250	355	550	800	1000	1500
A	[mm]	1530	2500	3000	4800	5600	5800	6700	7500
B	[mm]	1300	1480	2300	1200	1400	1600	1600	1800
C	[mm]	1755	1700	2700	3200	4000	5000	5000	5700
D	[mm]	800	1000	1500	1200	1500	1800	1800	2050

Benefits

1. Robust Design
2. Bearing System Integrated into Mill Base
3. Use of standard motor
4. Reduced Delivery Time and Competitive Pricing
5. Lower Civil and Installation Costs
6. Compact Plant Configuration
7. Sharp and very fine Top Cut
(down to $d_{98} < 2 \mu\text{m}$)
8. Low Specific Energy Consumption
9. Low Wear Rates and easy Maintenance
10. Simple Operation



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

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