Innovative Circular-type Stirred Mill with High Flow



HIGH PERFORMANCE

> HIGH QUALITY



FLEXIBILITY

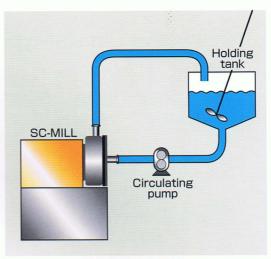
HIGH EFFICIENCY



Circulating structure design ensures high-flow, smooth operation, and minimized energy loss.

SC-Mill "SAIOH" is an innovative stirred mill in which the direction of slurry flow is the same as that of the rotor centrifugal force. This epochmaking design has solved the problems of conventional stirred mill. Centrifugal force provides smooth feed of slurry into the separator provided on the peripheral portion of the rotor.

It allows uniform dispersion of slurry even when small diameter media are used, and provides stable and high flow circulation while minimizing local heat generation in the grinding chamber.

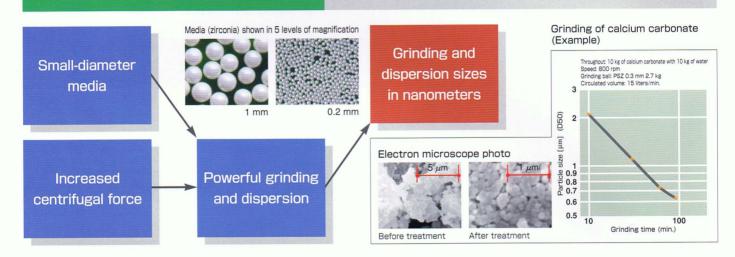


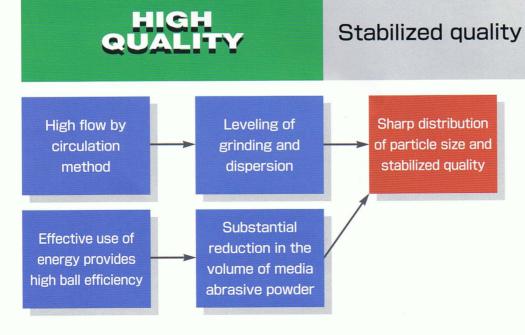
Circulating system



Powerful grinding capacity

Adoption of small-diameter media and effective use of centrifugal force have greatly improved grinding capacity and dispersion.

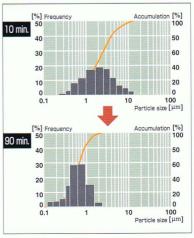


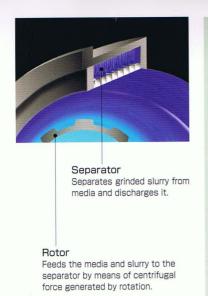


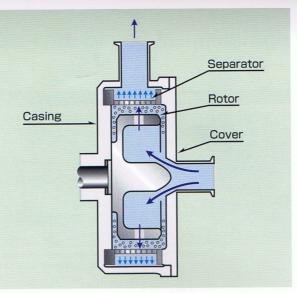
method ensures sharp distribution of particle size and stabilized quality.

High flow by circulation

Measurement of the distribution of calcium carbonate particle size







Structure and principle

The SC-Mill "SAIOH" comprises an agitating rotor inside the short cylindrical grinding section, and a separator located on the periphery.

Centrifugal force is generated by rotation of the rotor, and media are pressed against the separator in layers.

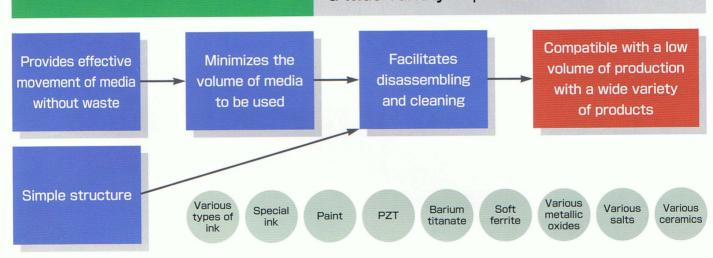
Simultaneously, the rotor rotates, thereby generating a high shearing force between the media.

Furthermore, the direction of centrifugal force is the same as that of the slurry flow; this provides uniform grinding and dispersion, and permits a large volume of slurry from the separator to be discharged. (Patent pending)



Compatible with a low volume of production with a wide variety of products

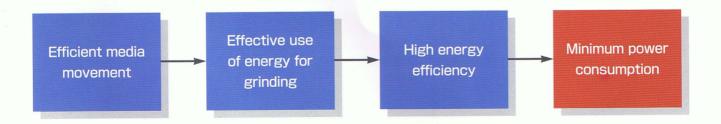
A simple structure allows easy disassembling and cleaning.
Also compatible with a low volume of production with a wide variety of products.





High energy efficiency

Efficiency is improved by uniform media movement, thereby ensuring reduced running costs.



Substantial savings in personnel costs

Treatment by circulation allows unmanned operation by timer, thereby providing a substantial saving in personnel costs.

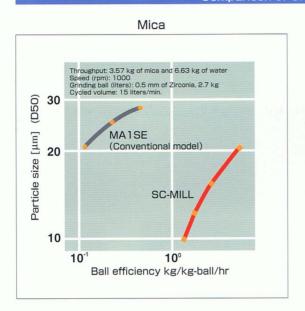
Easy addition and dispersion of additives

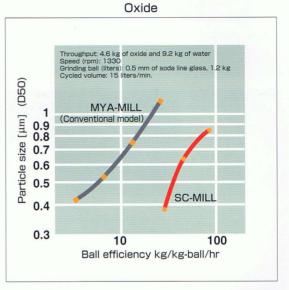
Allows addition of additives as required, while checking the actual treatment.

| Specifications | | | | | |
|-------------------------|---|---|---|--|---|
| Model | SC100/32 | SC150/50 | SC220/70 | SC320/100 | SC450/140 |
| Volume of ball (liters) | 0.13 | 0.25 | 0.8 | 2.4 | 6.8 |
| Speed (rpm) | Max. 3300 | Max. 2200 | Max. 1500 | Max. 1000 | Max. 700 |
| Motor capacity (kW) | 3.7 | 5.5 | 11-15 | 22-30 | 37-55 |
| Holding tank (liters) | 5-20 | 10-50 | 50-200 | 100-500 | 200-1500 |
| Dimensions (mm) | *1100 ^D ×450 ^W ×1100 ^H | 730 ^D ×600 ^W ×1300 ^H | 880 ^D ×750 ^W ×1300 ^H | 1200 ^D ×750 ^W ×1450 ^H | 1900 ^D ×1450 ^W ×1800 ^H |
| Weight (kg) | 150 | 360 | 650 | 980 | 2300 |

Notes: 1. Specifications listed are standard and may vary according to adaptation. 2. Dimensions given for (*) include those for the hopper.

Comparison of Grinding Capacity





JQA-0663

Certificate of Approval ISO 9001

Media agitator fine grinder Double motion granulating mixer High-speed fluidizing mixer

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