Innovative Circular-type Stirred Mill with High Flow



HIGH PERFORMANCE

HIGH



FLEXIBILITY

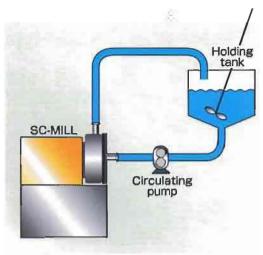
HIGH EFFICIENCY

MITSUI MINING CO., LTD.

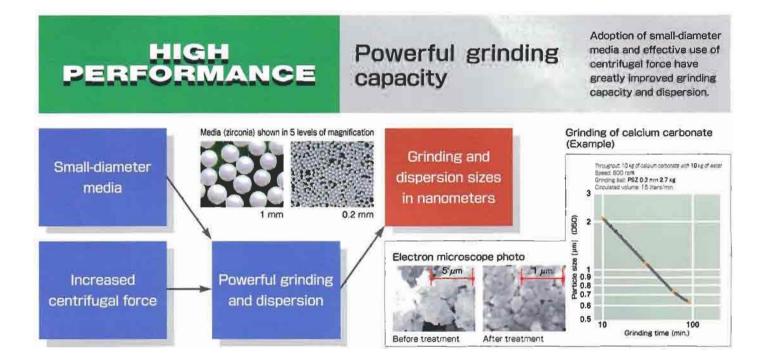
## Circulating structure design ensures high-flow, smooth operation, and minimized energy loss.

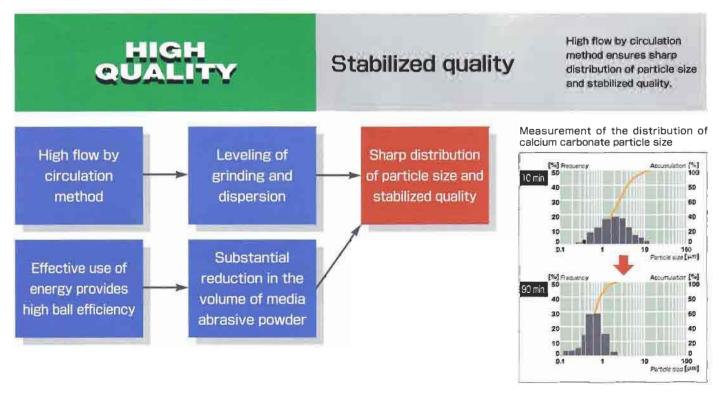
SC-Mill "SAIOH" is an innovative stirred mill in which the direction of slurry flow is the same as that of the rotor centrifugal force. This epochmaking design has solved the problems of conventional stirred mill. Centrifugal force provides smooth feed of slurry into the separator provided on the peripheral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

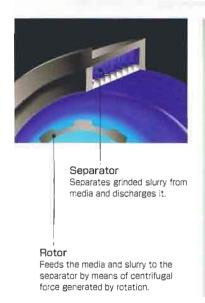
It allows uniform dispersion of slurry even when small diameter media are used, and provides stable and high flow circulation while minimizing local heat generation in the grinding chamber.

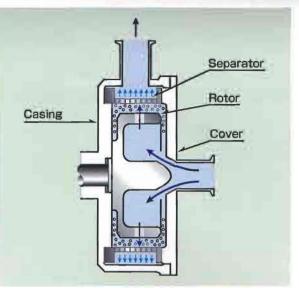


Circulating system









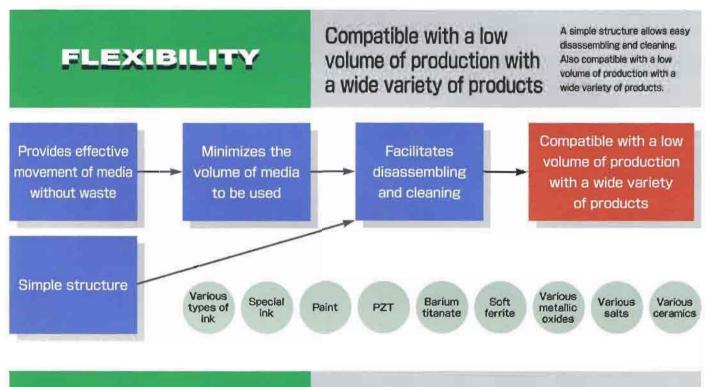
## Structure and principle

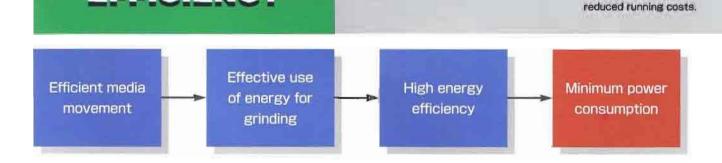
The SC-Mill "SAIOH" comprises an agitating rotor inside the short cylindrical grinding section, and a separator located on the periphery.

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)





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

High energy efficiency

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

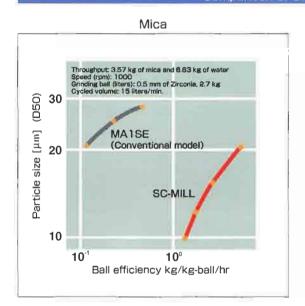
Efficiency is improved by uniform media movement,

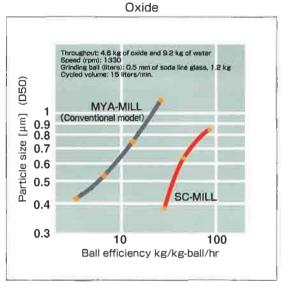
thereby ensuring

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 <sup>D</sup> ×450 <sup>W</sup> ×1100 <sup>H</sup>	730 <sup>D</sup> ×600 <sup>W</sup> ×1300 <sup>H</sup>	880 <sup>0</sup> ×750 <sup>W</sup> ×1300 <sup>H</sup>	1200 <sup>D</sup> ×750 <sup>W</sup> ×1450 <sup>H</sup>	1900°×1450 <sup>W</sup> ×1800 <sup>H</sup>
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







Certificate of Approval ISO 9001

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



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