



## SCM SERIES SUPER THIN MILL

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## Application

SCM series super thin mill is on the bases of our company's production experience for more than 15 years. We absorb advantages from the same trade abroad and at home. We review, research and try on 12 kinds of mills and horizontal hammer crushers. And finally we developed this high-efficiency and low-cost super thin mill by investigation and trial.

This grinding mill is a equipment which produces thin powder and super thin powder. It is applicable to non-flammable and non-explosive materials with hardness less than 6, such as calcite, chalk, limestone, dolomite, kaolin, bentonite, talcum, talc, magnesite, illite, pyrophyllite, vermiculite, sepiolite, attapulgite, rectorite, diatomite, barite, gypsum, alum earth, graphite, fluorite, variscite, potash ore, floatstone.

## Features and benefits

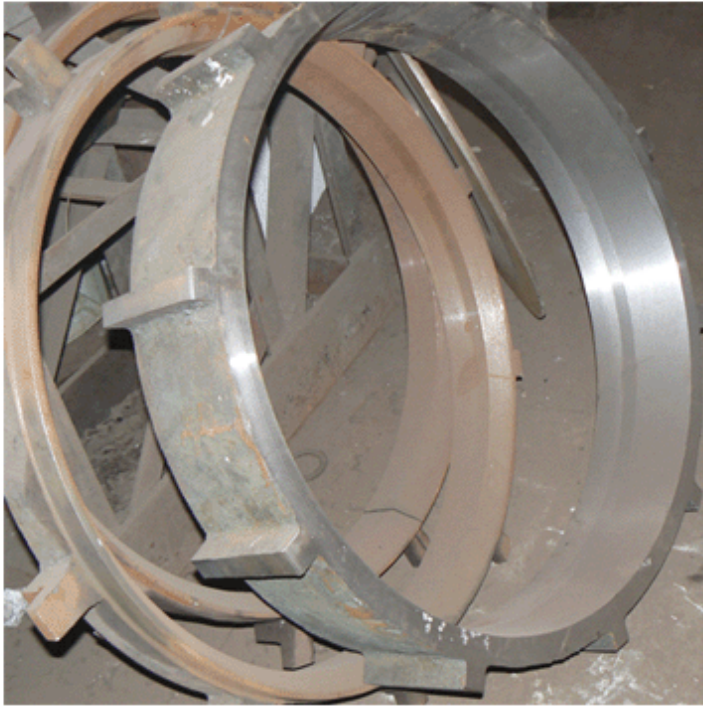
**High efficiency** In same condition of finished particle size and power of motor, the output is 40% higher than airflow mill and whisk mill.

**High using rate of the quick-wear part** In same condition of material and finished particle size, the lifetime of the quick-wear part is longer than that of impact crusher and turbine crusher. It can be generally one year.

**High safety** Because there are no axle tree and bolt in the grinding antrum, there will be no wearout of bearing and sealingpart, also no loose of bolts.

**Environmental protection** It will lighten pollution and noise by using dust cleaner and muffler, which achieves environmental protection requirement.





## Working Principle

The whole system of the flour mill consists of main unit, deceleration machine, classifier, blower, hammer crusher, dustpan elevator, electro-magnetic vibrating feeder, impulse dust cleaner, piping device, cyclone collector device, classifier, high-pressure motor and muffler.

### Working principle

The main motor drives main axle and every layer rotating by reducer. Dial drives numbers of rollers rolling and rotating in the ring by pintles.

Big materials are crushed into smaller particles by hammer crusher. Then they are sent to store house by elevator. The electro-magnetic vibrating feeder send the materials evenly to the middle of the upper dial. Under the function of the eccentricity, the materials scatter to the side of the circle and fall into the ring to be pressed, crushed and milled into pieces by rollers. After the first crush, materials fall into the second and the third layer. The pumping of the high-pressure centrifugal blower put the outside air into the machine. The coarse powder will be brought into the classifier.

The rotating turbine in the collector makes the coarse particles fall back for regrinding. The fine particles will come into the cyclone collector with the airflow and discharged by the discharging valve on the bottom of the collector. They are the final products. The airflow with little dust will be discharged through blower and muffler after being purified by the cyclone collector.

## Specification

Model	SCM6015	SCM8021	SCM1027
Roller number	15	21	27
Diameter (mm)	Φ600	Φ800	Φ1000
Ring number	2	2	2
Main unit speed(mm)	235	235	235
Max. feeding size(mm)	10	10	10
Final size (mesh)	325-2500	325-2500	325-2500
Capacity (kg/h)	350-2500	600-4000	900-6000
Overall dimension (m)	10×2×5.5	12.4×2.5×5.8	14.5×3.8×6.3

Name		Unit	Specification and technical data		
			SCM6015	SCM8021	SCM1027
Motor of main unit	Model		Y250-4	Y250-4	Y250-4
	Power	Kw	37	55	90
Adjustable motor of classifier	Model		Y180M-4	Y180M-4	Y180M-4
	Power	Kw	11	18.5	30
Motor of elevator	Model		Y100L-4	Y100L-4	Y100L-4
	Power	Kw	3	3	3
Motor of blower	Model		Y225M-2	Y225M-2	Y225M-2
	Power	Kw	30	45	75
Hammer crusher	Model		250-400	250-400	250-400
	Power	Kw	5.5	5.5	5.5
Vibrating feeder	Model		GZ1F	GZ1F	GZ1F
	Power	Kw	0.06	0.06	0.15
Unload valve	Model		ZJD-1:40	ZJD-1:40	ZJD-1:40
	Power	Kw	0.75	0.75	1.1
Impulse dust cleaner	Model		BMC72-11	BMC72-11	BMC72-11
	Power	Kw	3	3	3

**Note:** This specification is just reference, any changes are subject to products.



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