

SUPER MICRON MILL



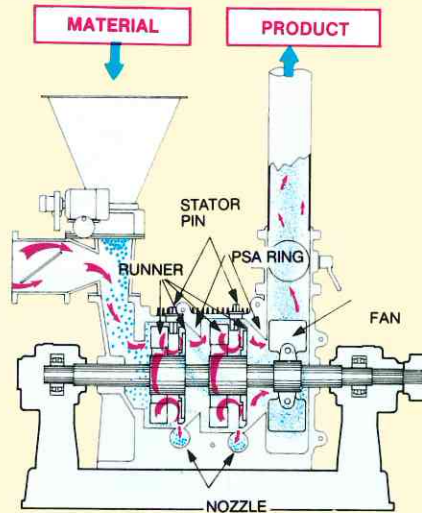
The Super Micron is a 2-step pulverizer designed for producing powders in the Ultra-fine range. It does so without using screens or sifting grates. Its pulverizing action is most nearly like that of fluid energy mills but without their high power consumption. The basic principles of pulverizing **attrition, friction, shearing, impact** are combined in this mill to give maximum performance, capacity, particle fineness and grinding efficiency. The extremely narrow particle size range very often eliminates the need for powder classification after pulverizing.

FEATURES

- Two-stage grinding
- No screens or grates
- Lowest cost
- High capacity
- Easiest operation
- Narrow particle size distribution

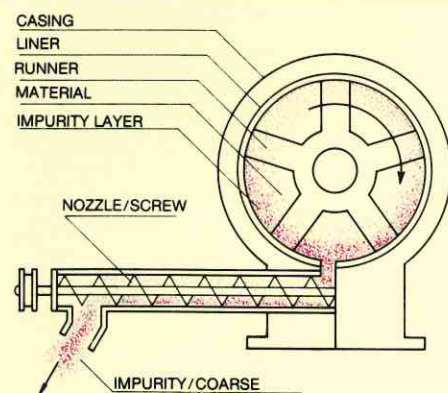
ULTRA FINE GRINDING WITH THE ELIMINATION OF IMPURITIES

CONSTRUCTION



beyond the second pulverizing chamber. The material charged is pulverized by the high impact, shearing, attrition and friction and is conveyed into the product collector by the action of built-in impeller fan and exhaust fan.

NOZZLE MECHANISM

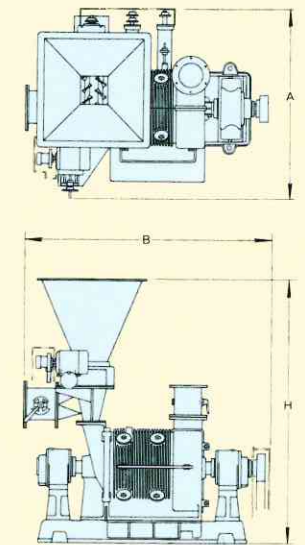


The Super Micron Mill is a 2-chambered fine pulverizer which employs 2 sets of runners revolving on a central shaft. These runners consist of a No.1 and No.2 in each chamber to which are fastened special alloy tips. In addition to these runners are grooved liners and 4 adjustable stator pins in each chamber. For the purpose of having horizontal air flow in the chambers and to convey finely pulverized particles, an impeller fan is located immediately

The impurities are extracted by the nozzle so that high quality of products are obtained. As shown in the figure, the impurities separated from ground material normally have higher specific gravity and coarser size, thus they receive higher centrifugal force by grinding hammers. Therefore these particles are pressed against inner circumference of the milling chamber, thrown into the nozzle inlet and discharged outside.

SPECIFICATIONS

MODEL			M52NC	M202NC	M502NC	
MOTOR	MILL	kW	5.5	22	55	
	FEEDER	kW	0.2	0.4	0.4	
	NOZZLE		65W 1/30 GEARED MOTOR	0.2KW 1/30 GEARED MOTOR	0.2KW 1/30 GEARED MOTOR	
ROTOR	MILL	r.p.m.	4300	3500	2400	
SPEED	FEEDER	50Hz	r.p.m.	25 ~ 38	30 ~ 48	61 ~ 97
		60Hz	r.p.m.	30 ~ 45	36 ~ 58	73 ~ 118
DIMENSIONS	A	mm	890	1070	1170	
	B	mm	1050	1440	1760	
	H	mm	1240	1500	1710	
NET WEIGHT	kg	500	1000	1800		



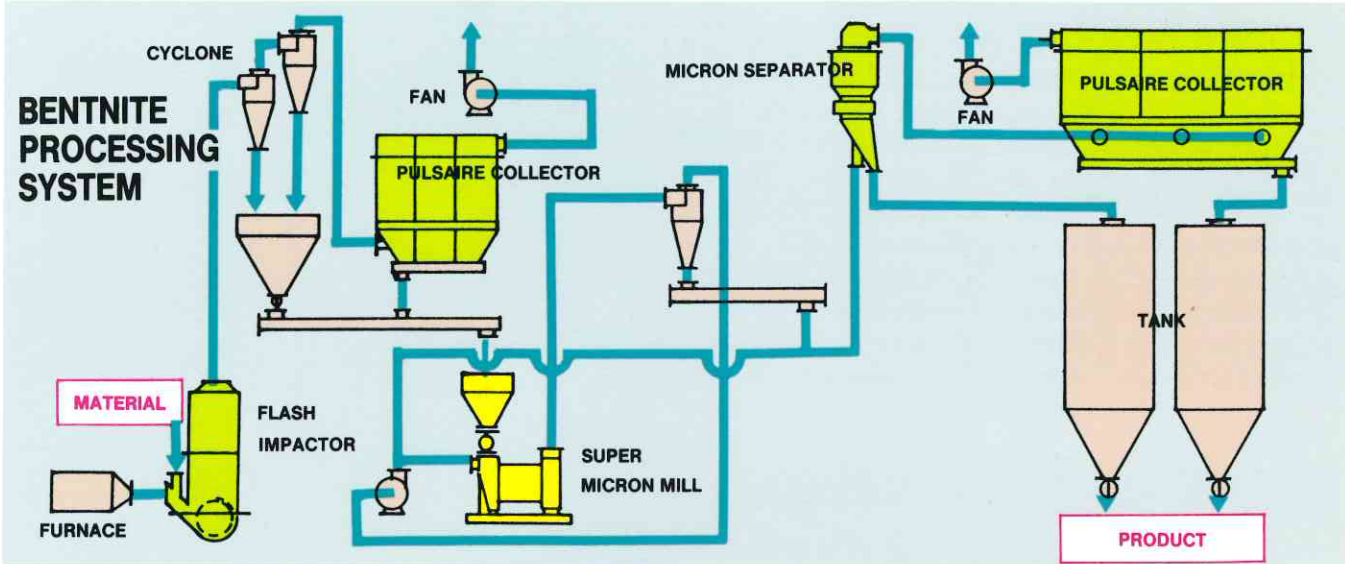
APPLICATIONS

MATERIALS	MODEL	MOTOR (kW)	CAPACITY (kg/hr)	FINENESS
ACTIVATED CARBON	M52NC	5.5	88	300M 99%
ASBESTOS	M52NC	5.5	93	300M 85%
CLAY, CERAMIC	M52NC	5.5	98	Ave. 5μ
DYE STUFF (H ₂ O INSOLUBLE)	M52NC	5.5	112	Max. 5μ
GRAPHITE (FLAKE)	M52NC	5.5	33	Ave. 10μ
KAOLIN	M52NC	5.5	76	Max. 7μ
LEAD POWDER	M52NC	5.5	89	BD: 1.2
BARYTES	M202NC	22	300	20μ 92%
CALCIUM CARBONATE	M202NC	22	110	300M 99.9%
DIATOMACEOUS EARTH	M202NC	22	645	250M pass
PIGMENT	M202NC	22	300	325M 99%
TALC	M202NC	22	365	325M 99%
BENTONITE	M502NC	55	800	325% 95%
CALCIUM CARBONATE	M502NC	55	436	325M 99.8%
FERRITE	M502NC	55	550	325M 99.5%
TALC	M502NC	55	470	300M 99%

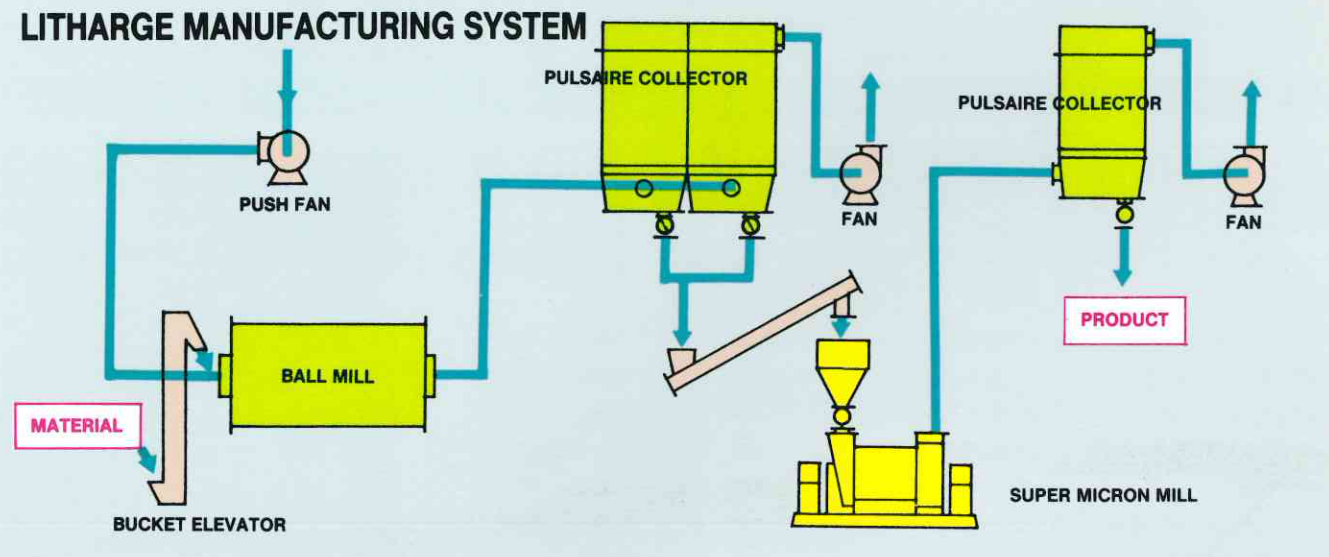
These are representative capacities and fineness based on accepted material tests and commercial production. They should be used as a guide only.



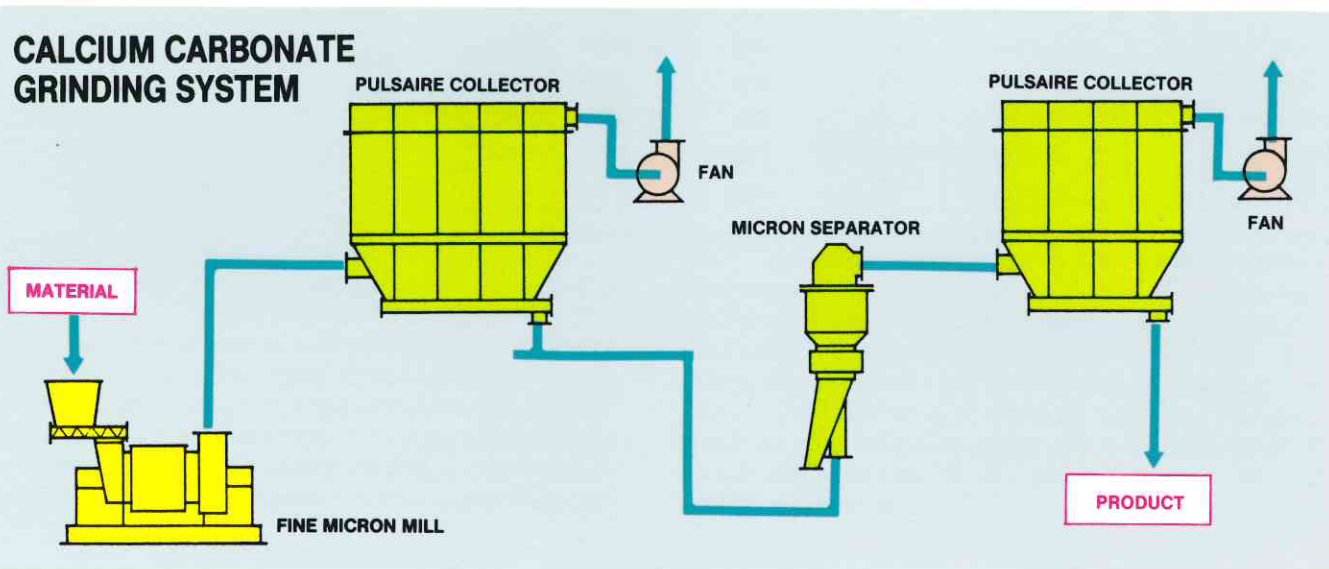
FLOW-SHEET



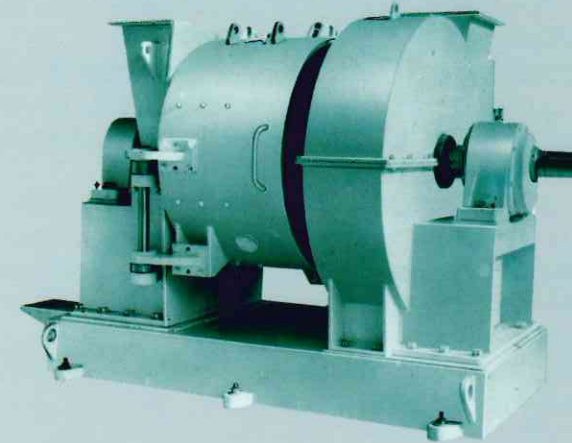
LITHARGE MANUFACTURING SYSTEM



CALCIUM CARBONATE GRINDING SYSTEM



FINE MICRON MILL



The Fine Micron Mill is basically a high speed air swept type impact mill and come with three different models, but has a new unique and proven concept of the grinding mechanism originated through long and continued research and development works. This mill is suited for ultra fine grinding at a large capacity especially for talc, limestone and other non-ferrous mineral ores.

FEATURES

- Ultra fine grinding
- High capacity
- Up-grading of product
- Simple operation & adjustment
- Least maintenance
- Quiet operation

ULTRA FINE GRINDING WITH HIGH CAPACITY

CONSTRUCTION

Grinding chamber is formed from the cylindrical liner in which 3 runners, No.1, 2 and 3, are fitted on to the central shaft. The gap between the tip of No.3 runner and liner is set to small clearance. In-between the grinding chamber and fan chamber is fitted the replaceable particle size adjusting ring. One of the main features of the Fine Micron Mill lies on the excentricity between the main shaft and housing.

The mechanism for grinding is similar to that of the Super Micron Mill. Furthermore, because of compaction/attrition force derived from the excentricity, size reduction effect is so much strengthened, thus super fine product can be obtained.

At the lower portion of the mill is fitted with the nozzle extraction mechanism which will assist to up-grade the product by removing the impurities during the size reduction process.

SPECIFICATIONS

MODEL		MF - 10	MF - 20	MF - 40
MOTOR	MILL kW	75 ~ 110	150 ~ 220	300 ~ 400
	NOZZLE kW	0.4 1/30 GEARED MOTOR	0.4 1/30 GEARED MOTOR	0.4 1/30 GEARED MOTOR
ROTOR SPEED 50/60Hz rpm		1460/1755	1460/1160	970/880
DIMENSIONS	WIDTH mm	2460	2740	3050
	DEPTH mm	1000	1200	1600
	HEIGHT mm	1380	1550	1900
NET WEIGHT kg		3500	5000	7000

APPLICATIONS

MATERIALS	MODEL	CAPACITY kg/hr	FINENESS
BENTONITE	MF - 20	3600	3325Mesh 90% pass
GRAPHITE	MF - 20	1500	20µm 50% pass
CLAY	MF - 20	2000	325Mesh 95% pass
CHALK	MF - 40	3000	325Mesh 99% pass
CALCIUM CARBONATE	MF - 40	4000	325Mesh 95% pass

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