

Sturtevant

Dependable processing equipment for over a century. Air Separators — Crushers (Roll, Jaw, Rotary, Hammer, Impact) Fluid Energy Mills — Hammermills — Impact Mills — Sample Grinders.

Micronizer® Fluid Energy Mill



Special Applications — Systems Design — Variety of Liners — Can Be Ordered to Meet FDA Sanitary Standards — Economical

One Operation — classifies and pulverized to between 44 and 1/2 micron particles in a single chamber: sets new standards in, among others, pigments, toners, coal, pharmaceuticals, fillers, resins, food ingredients, waxes, fatty acids, fungicides, metals, compounds, minerals, refractory and ceramic materials.

No Moving Parts — particles in high-speed rotation (propelled by

compressed air, steam, inert or cryogenic gas entering the grinding chamber at angles to the periphery) grind each other by violent impact. Centrifugal force, which keeps oversize particles in grinding zone, simultaneously classifies and collects fines for bagging. No attritional heat.

Micronizers

Size	SCFM or Steam	Lbs./Hr.	H.P.
2	30	1	7 1/2
4	55	2-40	15
8	130	10-100	30
15	350	50-300	75
20	550	100-1000	125
24	800	250-1400	175
30	1500	600-3000	300
36	2250	1000-6000	500
42	3300	2000-10,000	700



4" Micronizer, sanitary design, pharmaceutical grade, with primary and secondary cyclones and collection container.

Simpactor® Impact Mill



The Sturtevant Simpactor is a centrifugal, pin-type impact mill which reduces low to medium density raw materials (up to 1 1/2" in diameter, dry or in slurry) to uniform fine particle size of 50-200 mesh range. Designed to operate on either gravity or pneumatic conveying systems, it features low energy consumption with high throughput, delivering up to 100,000 pounds per hour.

Inside the machine, centrifugal force hurls particles through a maze of whirling pegs on the rotor interspaced with stationary impactor pegs. Rotor speeds may be varied for different operating conditions; controlled air flow allows cool operation and will process heat-sensitive materials. Degree of grind may be adjusted quickly with no need for shutdown.

Standard Model construction is Carbon Steel/Cast Iron. Also available in Stainless Steel or FDA-approved sanitary construction, the Simpactor is adaptable for de-agglomeration applications.

Simpactors are used for the reduction of phosphates, sulfur, pigments, metallic and non-metallic ores, grains and flours, resins, agglomerates, and other free-flowing friable materials. They are proven performers in the chemicals, plastics, food ingredients, pharmaceuticals, flour, and mineral industries.

Stator Rods are removable *on the run* and can be altered in number and position so as to change the degree of grind accomplished for different feeds or moisture conditions.



Simpactors

Size	Capacity Tons/Hr.*	Horsepower	Weight (Lbs.)
3	3 1/2	5-15	1000
6	10	to 75	2700
40	50	to 75	7000

*Flour as feed.

Table of Materials

Material	Feed Size	Product Size	Feed Rate
Antibiotic	1/4"	95%-200	700#/hr
Ascorbic Acid	98%-100	95%-200	4000#/hr
Bismuth	3/32" x 1"	85%-200	300#/hr
Crystalline Urea	granular	97%-200	500#/hr
Flake Phenolic Resin	flakes	70%-325	3000#/hr
Lithol Pigment	1/2" x 1/2"	99.9%-40	750#/hr
Magnesium Oxide	89% + 60	100%-50	100#/hr
Nickel Hydroxide	78%-100	100%-100	500#/hr
Rice Flakes	1"	100%-4	2500#/hr
Sintered Tantalum	1/2" x 2" x 4"	69%-325	400#/hr
Semi-Flint Clay	4"	-150	7 tons/hr
Sorbitol	3/4" x 2 1/2"	71%-200	5000#/hr
Terephthalic Acid	4.7%-150	98.8%-150	10,000#/hr
Talc	3/4"	62.6%-150	6000#/hr



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