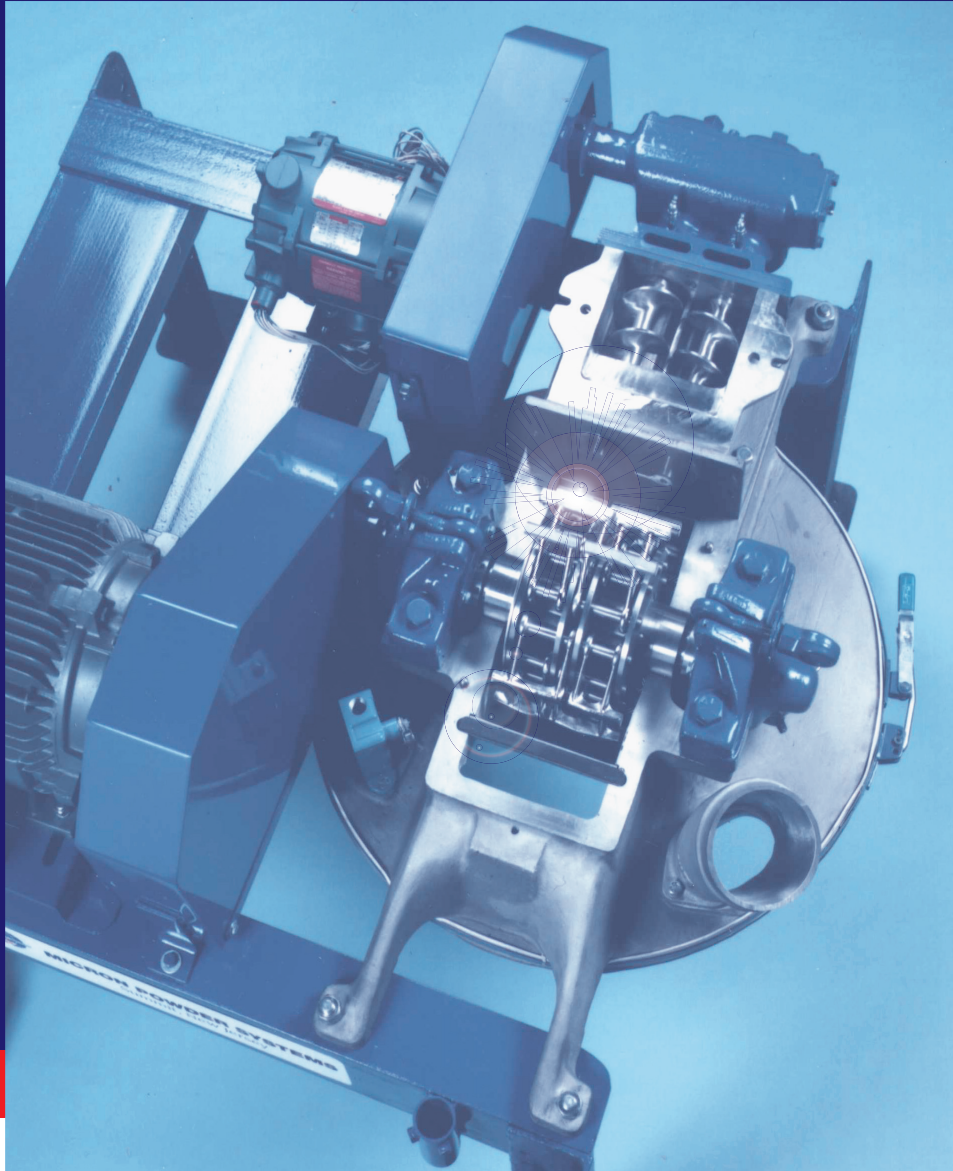


HOSOKAWA / MIKRO Pulverizer AP



Process Technologies for Tomorrow

HOSOKAWA MICRON CORPORATION

Industrial Standard Mill for fine products



General

The Hosokawa Mikro Pulverizer is a high-speed hammer-screen mill for continuous fine powder production even under severe conditions. The material can be fed either by feed screws, suction feeding or gravity feeding.

Once a mill is set to deliver a certain product, it will continue to produce exactly the same result without adjustment.

Features

- ☐ Compact
- ☐ Dust-Free Operation
- ☐ Uninterrupted Production
- ☐ Quick, Easy Cleaning
- ☐ Long Service Life
- ☐ No Auxiliaries

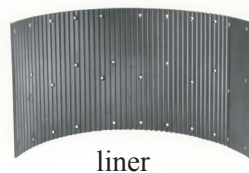
Construction

The Mikro Pulverizer consists of a high speed rotor assembly fitted with hammers. The grinding chamber is fitted with a cover containing a multiple deflector liner and a retaining screen at the point of mill discharge. A screw mechanism is often used to introduce feed material into the grinding chamber.

The grinding process is affected by three basis variables : the type of hammers, the rotor speed, and the size and shape of the screen opening.

There are two types of hammers; the "stirrup", recommended where a fine particle size is desired; and the "knife" which generates a coarser grind with a minimum of fines.

Rotor speed affects the fineness of the grind as follows ; low speeds result in a coarse grind and high speed produce a fine grind.



liner

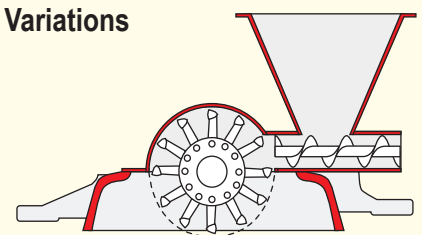


round perforated screen

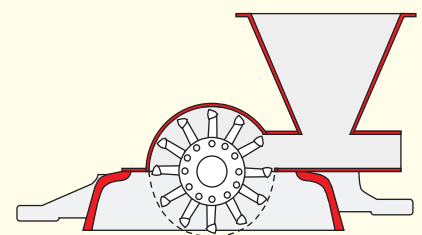


herringbone slot screen

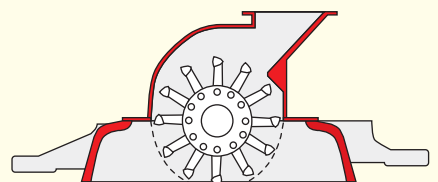
Variations



Standard type feed

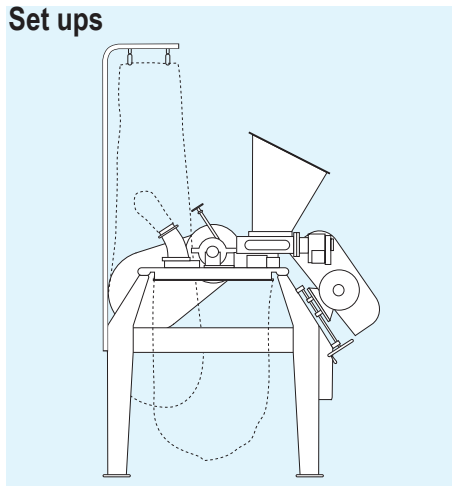


SCB type feed

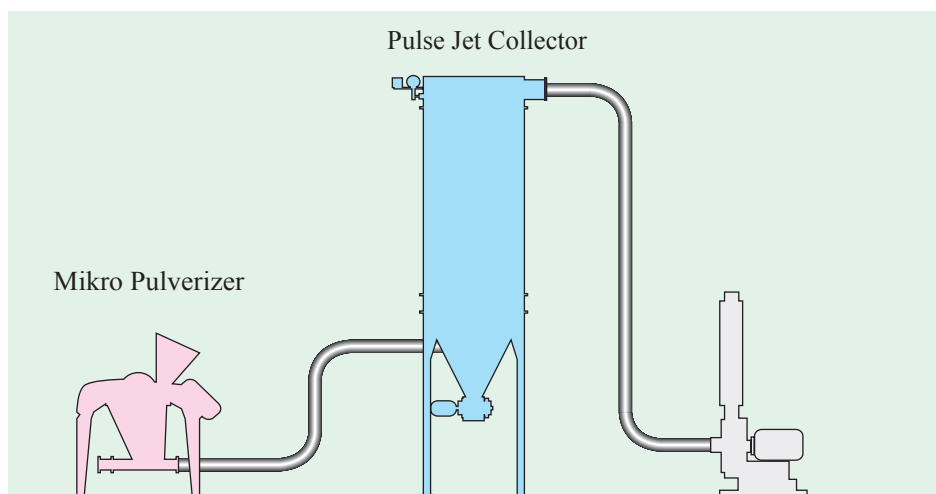


W type feed

Set ups



Single mill operation

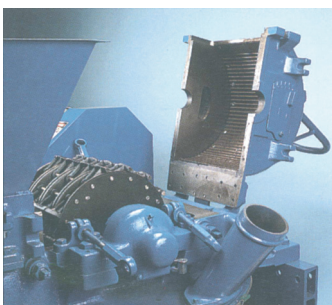


Pneumatic conveying type

Test examples

	Material	Model	Capacity [kg/h]	Product [Mesh]
Inorganic Chemical	Activated Carbon	AP-2DH	220	95% pass 250
	Aluminium Fluoride	AP-1SH	140	94% pass 250
	Carbon Black	AP-4SCB	1,700	Size reduction of grit.
	Carbon Black	AP-44SCB	3,700	Size reduction of grit.
	Pigment	AP-2DH	200	Almost pass 300
Food	Almond Meal	AP-1SH	290	77% pass 60
	Animal Food	AP-4TH	2,000	Almost pass 40
	Banana, Dried	AP-B	95	97% pass 100
	Barley	AP-2DH	105	95% pass 100
	Cocoa	AP-2DH	800	93% pass 100
	Corn Starch	AP-4TH	5,350	Almost pass 200
	Fish Meal	AP-2DH	300	90% pass 80
	Granule Sugar	AP-2DH	190	98% pass 300
Mineral	Calcium Carbonate	AP-2DH	800	99% pass 100
	Calcium Hydroxide	AP-1SH	67	89% pass 300
	Chalk	AP-4TH	2,700	99% pass 325
	Coal, Anthracite	AP-2DH	350	96% pass 100
	Kaolin	AP-4TH	1,930	99% pass 200
Pharmaceutical	Caffeine	AP-1SH	190	99% pass 40
	Cosmetic Powder	AP-1SH	200	Intensive mixing

Note: The above figures should be used only as estimates. Every material will not necessarily give the same results.



Specifications

Spec. \Model	AP-1SH	AP-2DH	AP-3TH	AP-4TH	AP-44
Rotor [kW]	3.7	11	30	55	110
Feeder [kW]	0.2	0.4	0.4	0.4	-
Hammer [pcs]	6	24	64	96	144
Dimension					
W [mm]	900	1,140	1,580	1,730	1,300
D [mm]	1,140	1,300	1,930	2,200	2,400
H [mm]	1,420	1,200	1,610	1,630	1,700

Mikro BANTAM MILL



Applications

The Mikro Bantam Mill is ideally suited for granular to fine grinding tasks, producing batches from one liter to 200 liter in size. It is capable of dry or wet milling and provides accurate scale-up to our complete line of larger Mikro Pulverizer mills. Bituminous Coal, Calcium Tungstate, Carbon Black, Chrome Yellow, Corn Stach, Fertilizer, Grass Frit, etc.

Feature

- ☐ Efficient and compact
- ☐ Quick, easy cleaning
- ☐ Long production life
- ☐ Dry or wet milling
- ☐ Minimum dust
- ☐ Safety features
- ☐ Scale-up to larger mills

General

The Mikro Bantam Mill is part of the original Mikro Pulverizer hammer mill and screen mill family. Today, with over 4,000 installed, the mills are the standard throughout the world for producing powder coatings, foods, pharmaceuticals, chemicals, pigments, industrial minerals, plastics, etc.

Specifications

Drive motor	0.75kW 2P
Feed Screw motor	100W 4P
Grinding disc Speed	Max.14,000 rpm
Number of hammers	6
Dimensions	H 1870 mm
	W 850 mm
	L 650 mm



Process Technologies for Tomorrow

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