

角柱式粉碎機 PIN MILL

適用範圍

食品、化學、中西藥、飼料、肥料、礦石、金屬、染料、顏料、陶瓷、石膏、穀類、乾蔬菜、澱粉類及任何需要粉碎之固體原料。

食品：豆類、五穀、雜糧、香辛料、調味料及其他食品原料。

化工：礦石、金屬、陶瓷、及其他無機化學原料。(油性、黏性及多纖維性質原料無法粉碎)

APPLICATION

Foodstuff, Chemical, Pharmaceutical, Feed, Fertilizer, Mineral Stone, Metal, Ceramics, Gypsum, and any solid materials that need to be milled. (Except oily, sticky and Fibrous Materials)

特性

1. 粉碎種類廣泛、堅固耐用且損耗極小。
2. 操作簡便、省時省力、高效率。
3. 磨損少壽命長、零件替換容易、清洗簡單。

FEATURE

1. Multiple use for every kinds of raw materials, durable and low wastage.
2. Easy-operation, saving time and power, and high efficiency.
3. Long life components are easy to be replaced and cleaned.

(GMP STANDARD)
PM-3-A



迴轉盤 Rotor

固定盤 Stator

網環 Screen Ring

針盤式 Stud Type			
角柱式 Pin Type			
刀片式 Knife Type			

PM-4

食品級
For Foodstuff



PM-3-C

化妝品級
For Cosmetic



PM-5

磨糖專用設備
For Sugar Grinding



Mill[®]
POWDER TECH
SINCE 1940

凌廣工業股份有限公司

MILL POWDER TECH SOLUTIONS



PIN MILL



GMP Standard (For Pharmaceutical & Biotech)



For Foodstuff



For Sugar



For Cosmetics



FEATURE

The equipment is suitable for pulverizing any kind of materials. (except highly oily and sticky ones). Due to varieties and interchangeability of inner component parts, this equipment has wide production

adaptability ranging from granular material to super-fine particles. Turnkey system formulation to avoid pollutions of materials, high efficiency, to lower manpower and keeps the quality of materials.

SPECIFICATION

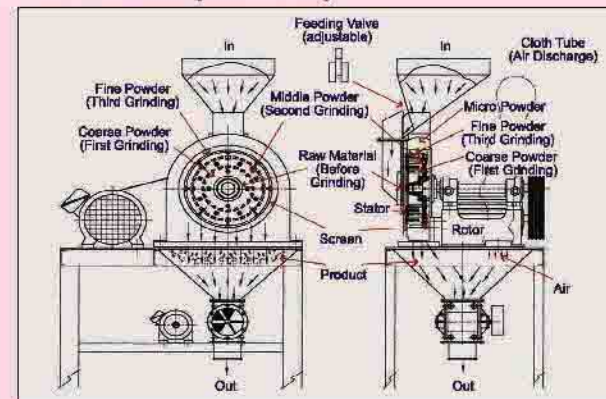
Application	Model	HP (kw)	R.P.M	Capacity (kg/hr)	Dimension (LxWxH mm.)	Fineness (Mesh)
GMP Standard	PM-3-A	5-7 1/2	5000-7500	100-200	1000x600x1400	100-250
	PM-4-A	7 1/2-10	4500-6500	200-300	1100x700x1500	100-250
Cosmetics Grade	PM-3-C	7 1/2	3500	200-300	1000x860x1200	100-200
Foodstuff and Chemical Grade	PM-1	2	3500	20-50	500x560x1300	20-120
	PM-3	5-7 1/2	3500	80-250	1100x700x1550	20-120
	PM-4	7 1/2-10	3000	100-300	1200x800x1750	20-120
	PM-5	15-20	2900	150-500	1500x900x2200	20-120
	PM-6	30-40	2800	300-900	1700x1000x2400	20-120
Foodstuff and Chemical Grade (No Screen)	PM-7	50-60	2700	500-2000	1900x1300x2900	20-120
	APM-3	10	5000-7500	80-150	1000x650x1500	120-325
	APM-4	15	4500-6500	120-250	1200x850x1750	120-325

※From floor to outlet: 450 mm.

※Capacity and Fineness: According to different characteristics of materials, the data would be changed.

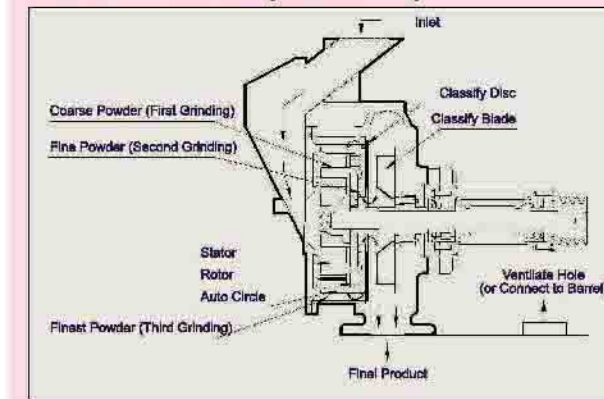
FLOWING EXPLANATION

PM - Pin Mill (Standard)



Raw material is fed into grinding room from feeding hopper. The first grinding is a shearing force caused from the cutter impact in the inner of Rotor and Stator, and so on and so forth, the micro powder will be formed. After filtrating, the powder that smaller than screened mesh will be the products. The bigger powder will be ground in the third grinding until the powder can pass through the screen mesh. Finally, all the products will be discharged from rotary valve.

APM - Micronizer (No Screen)



As material enters into the center of grinding chamber, powder will be delivered to the out most layer of pulverization area, through the cutting-impact effects of Pin rotors and stators. At final grinding stage where rotor pin meet with toothliner, processed fine powder enters the "particle classify" area through the partition discs, and utilizing centrifugal force and air-flux to keep the coarse powder apart from final out-put material. The dimension of finished powder will be determined by the diameter of partition disc hole and the number of rating blade.

APPLICATION

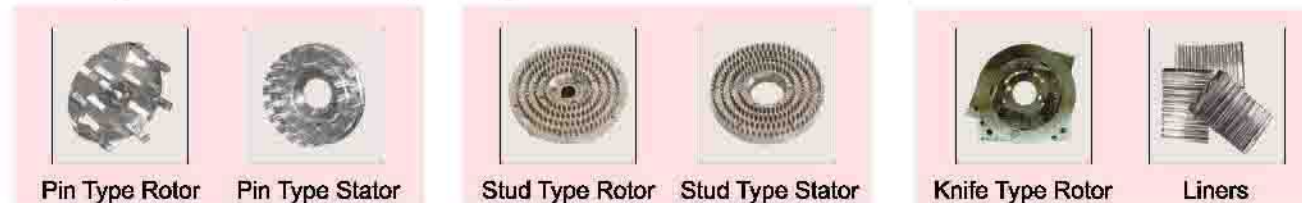
Spices	Foodstuff			Biotech & Pharmaceutical		Chemical	
Germ	Salt	Wheat	Healthy Food	Pill	Chinese Herbs	Ore	Feldspar
Curry	Rice	Soybean	Dry Vegetable	Collagen	Polysaccharide	Rosin	Pesticides
Clove	Oats	Spaghetti	Glutinous Rice	Chitosan	Pharmaceutical	Sulfur	Iron Oxide
Garlic	MSG	Red Bean		Medicine		Shellac	Talcum Powder
Fagara	Sugar	Black Bean		Agar Agar		Ceramic	Washing Powder
Crocus	Xylitol	Green Bean		Monascus		Dyestuff	Chemical Materials
Mustard	Barley	Pearl Barley		Antibiotics		Pigment	Calcium Carbonate
	Starch	Banana Chip		Yeast Powder		Gypsum	

OPTIONAL GRINDING DISCS

For food grains, beans and seasoning.

For pharmaceutical and brittle materials.

For herbal and fibrous materials.



TURNKEY SYSTEM

For Biotech and Healthy Food



- 1 Feeding Hopper
- ↓
- 2 Screw Conveyor
- ↓
- ★ 3 Pin Mill
- ↓
- 4 Cyclone Separator
- ↓
- 5 Vibro Separator & Filter + Rotary Valve
- ↓
- 6 Dust Collector

★ Mark is the Main Grinding machine.

粉碎原理說明圖

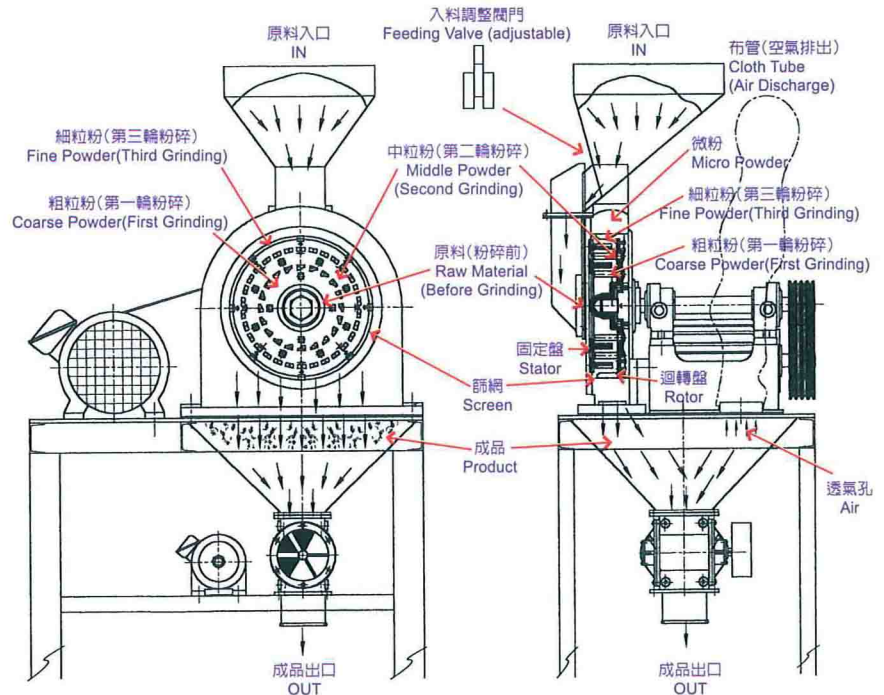
GRINDING PRINCIPLE INSTRUCTION

*** 流程說明：**

原料從入料斗進入粉碎室，經迴轉盤之最內圈刀具衝擊及與固定盤所形成之剪切力為第一輪粉碎，依此類推形成微粉再經篩網過濾，如小於篩網孔徑就是成品，而無法通過者則於第三輪粉碎至通過網孔止，爾後經由旋轉閥止風排料，將料排出。

*** Flowing Explanation:**

Raw material is fed into grinding room from feeding hopper. The First Grinding is a shearing force caused from the cutter impact in the inner of Rotor and Stator, and so on and so forth, the micro powder will be formed. After filtrating, the powder that smaller than screen mesh will be the products. The bigger powder will be ground in the Third Grinding until the powder can pass through the screen mesh. Finally, all the products will be discharged from the rotary valve.



適用 Application	型式 Model	馬力 Horse Power	迴轉數 RPM	產量 Capacity(kg/hr)	機械尺寸 Dimension(m/m)	細度範圍 Fineness
西藥 GMP Standard	PM-3-A	5-7 1/2	5000-7500	100-200	1000x600x1400	100-250Mesh
	PM-4-A	7 1/2-10	4500-6500	200-300	1100x700x1500	
食品·化工 Foodstuff, Chemical Grade	PM-1	2	3500	20-50	500x560x1300	20-150Mesh
	PM-3	5-7 1/2	3500	80-250	1100x700x1550	
	PM-4	7 1/2-10	3000	100-300	1200x800x1750	
	PM-5	15-20	2900	150-500	1500x900x2200	
	PM-6	30-40	2800	300-900	1700x1000x2400	
	PM-7	50-60	2700	500-2000	1900x1300x2900	
化妝品 Cosmetic Grade	PM-3-C	7 1/2HP	3500	200-300	1000x860x1200	100-200Mesh

出口離地面高度 (From Floor To Outlet) : 450m/m

* "產量"視原物料之特性不同而有所改變。

"The Capacity" would be changed according the different characteristics of the raw materials.



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