



**Soon Strong Machinery
Works Co.,Ltd**
申川機械工廠股份
有限公司

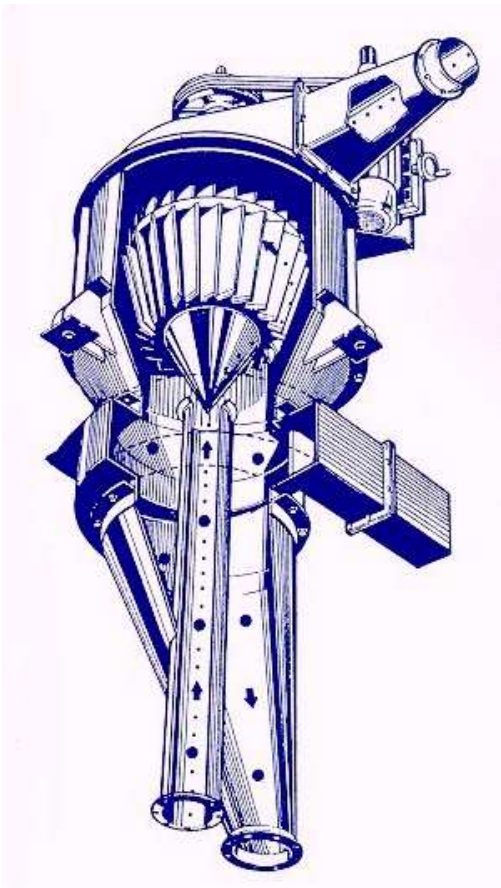


Air Classifier SUAC & SMS series

- High efficiency
- More durability
- Wide application range

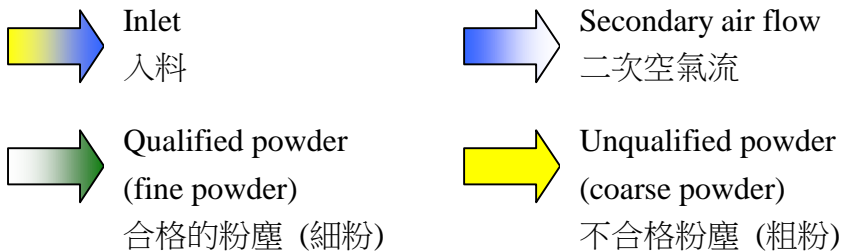
申川分選機系列

- 高效能
- 更耐用
- 應用範圍廣



Work Principle

Soon Strong Micron Separator (See Fig.1) air stream with powder is flow into classifier rotary wheel from bottom. The powder could be classified by centrifugal force and centripetal force interaction in rotary wheel. The rotary wheel could be verified the RPM by inverter to classify the particle diameter from $4.5 \mu \sim 150 \mu$. The secondary air flow is assisted the classifier to low down the air pressure loss. The unqualified powder (coarse powder) is streamed down along the classifier hopper to get gathering. The qualified powder (fine powder) would be sucked out from classifier top tube.



工作原理

申川超微分級機(見 Fig.1) 帶有粉塵的空氣流從分級機底部進入分級機葉輪，粉塵由於離心力與向心力作用被分級機葉片分級，而分級機葉輪能由變頻器變換轉數分級粒徑至 $4.5 \mu \sim 150 \mu$ ，二次空氣式協助分級機降低壓損，不合格的粉塵(粗粉)沿著分級機漏斗順勢而下到下方收集起來，合格的粉塵(細粉)則被吸引至上方分級機導管引導出去

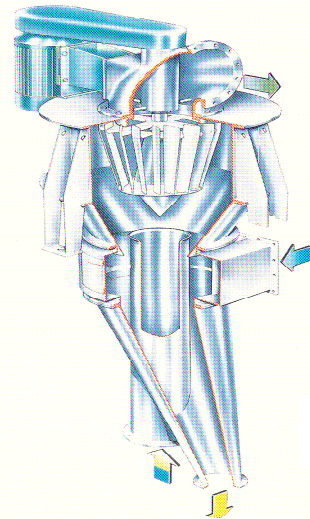


Fig.1

How to choose a separator 如何選擇一個分級機

Classifier 分級機種類	Classifying 分級粒徑範圍	Cap. 產量	Application 適用物料
Whizzer separator 惠氏分級機 (Fig.3)	44~150 μ m 95~97% pass through 通過率	1.0~10 ton/hr	Foods, Mineral, Chemicals, Forage, Cosmestic, Pigment, Etc.
Single Micron separator 單輪分級機 (Fig.1)	4.5~150 μ m 97~99.9% pass through 通過率	1~8 ton/hr	食品,礦石 化學品, 澱粉, 化妝品, 塗料
Multi-Micron separator 多輪分級機 (Fig.2)	1~150 μ m 97~99.9999% pass through 通過率	1~18 ton/hr	



Fig.2



Fig.3

- Above data is reference. The data should accord by particle size and in real situation. The input should be 70% under 20μ m
- 以上數據為參考值，數據須依照實際情況，入料總粉須 70% 在 20μ m 以下

Soon Strong Separator series 申川分級機系列

Single Micron separator 單輪分級機 (Caco ₃ Base 碳酸鈣基礎)				
Model 型號	Outside dia.(mm) 分級機外 徑(mm)	Air Flow (m ³ /h) 需求空氣(m ³ /h)	Fine Yields (Kg/h) 參考 細度產量 (Kg/h) for ref	Motor Rating (kw) 馬達功率 (kw)
			300meshx98% 通過率(P.R)	
SMS-1	600	900	150	0.75 (1HP)
SMS-3	900	4800	750	2.2 (3HP)
SMS-4	1250	9000	1500	5.5 (7.5HP)
SMS-5	2100	18000	3000	7.5~15 (10~20HP)
SMS-6	2600	36000	6000	30 (40HP)

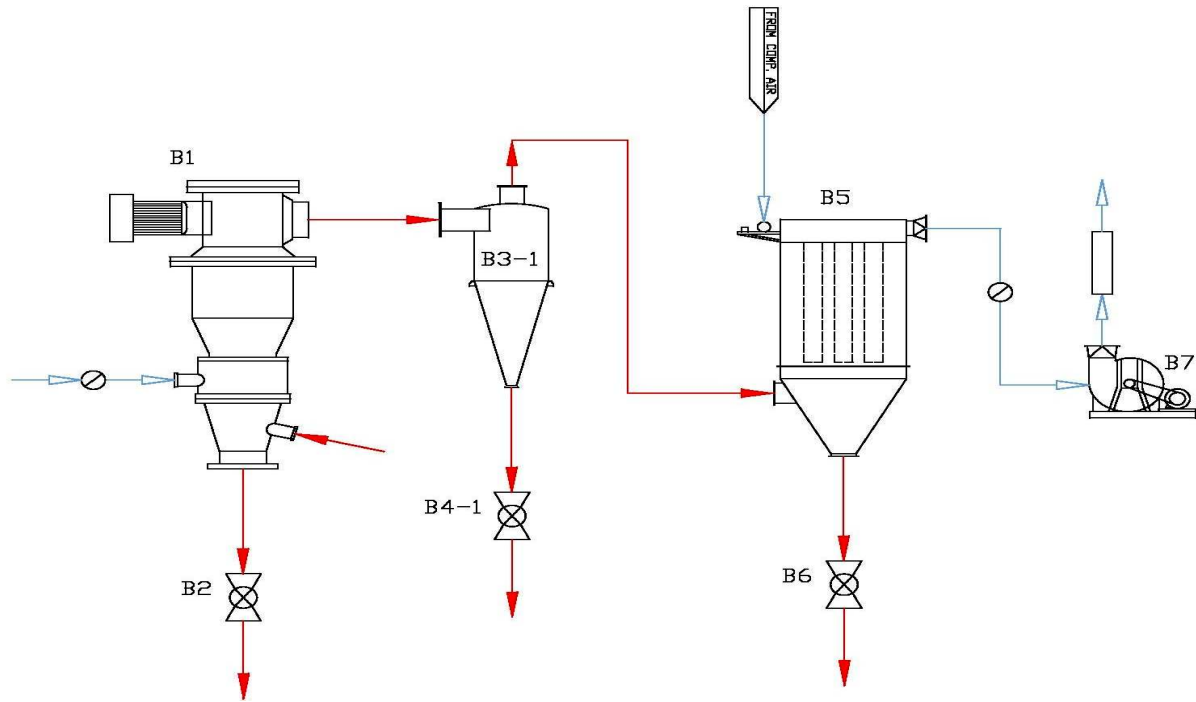
Advantage 特點

1. High classifying capacity	1. 高分級產量
2. The classifying range is very wide (4.5~150 μm)	2. 分級範圍非常廣(4.5~150 μm)
3. Adjust particle size without shutting down	3. 不用停機既可調整產品細度
4. Apply in single unit or integrated system	4. 可應用單機系統或整廠規劃
5. Special seal design for against the powder leakage	5. 特殊密封設計能防止粉塵外漏

Multi-Micron separator 多輪分級機 (Caco ₃ Base 碳酸鈣基礎)						
Model 型號	Wheel Q'ty x dia.(mm) 個數 x 分級輪 直徑(mm)	Cut Size d ₉₇ (μm) d ₉₇ 收縮點 (μm)	Air Flow (m ³ /h) 需求空氣 (m ³ /h)	Fine Yields (Kg/h) 細度產量 (Kg/h)		Motor Rating (kw) 馬達功率 (kw)
				d ₉₇ =10 μm	D ₉₇ =20 μm	
SUAC-100-3	3x100	4~60	750	135	210	3x3.7 (5HP)
SUAC-200-8	8x200	5~75	8000	1440	2240	8x5.5 (7.5HP)
SUAC-315-3	3x315	6~90	7500	1350	2100	3x11 (15HP)
SUAC-315-6	6x315	9~140	15000	2700	4200	6x11 (15HP)
SUAC-630-3	3x630	9~150	30000	5400	8400	3x22 (30HP)

Advantage 特點

1. High capacity and particle size distribution is more concentrative compared with single micron classifier	1. 比單輪分級機有較高的產量與細度分布較集中
2. Low abrasion rate. Apply to hard or non-pollution powder	2. 低磨耗率, 適用於硬度高或無污染性粉末產品分級
3. Low energy to consumption	3. 低能源消耗
4. Above data is for reference & the inlet material need Require 70% under 20 μm	4. 以上數據為參考值, 入料總粉需70%在 20 μm 以下



B1. Multi-Micron Separator
 B2. Rotary Valve
 B3-1. Cyclone Collector
 B4-1 Rotary Valve
 B5. Pullsaire Collector
 B6. Rotary Valve
 B7. Exhaust Fan

B1. 多輪分級機
 B2. 迴轉閥
 B3-1. 旋風收捕器
 B4-1 迴轉閥
 B5. 袋濾集塵機
 B6. 迴轉閥
 B7. 排風機

- Simple & high efficiency process flow for classifying
- Coarse powder after classified collected at cyclone than fine powder collected at bag filter. The advantage is extended bag filter life & more efficiency in powder collecting
- Low production cost & more durable design

- 簡單而有效率的分級流程
- 分級後的較粗粉收集在旋風式集塵器，細粉收集至之後的袋濾機，優點有延長袋濾機使用壽命及更有效率於粉末收集
- 低生產成本及更耐用的設計



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