

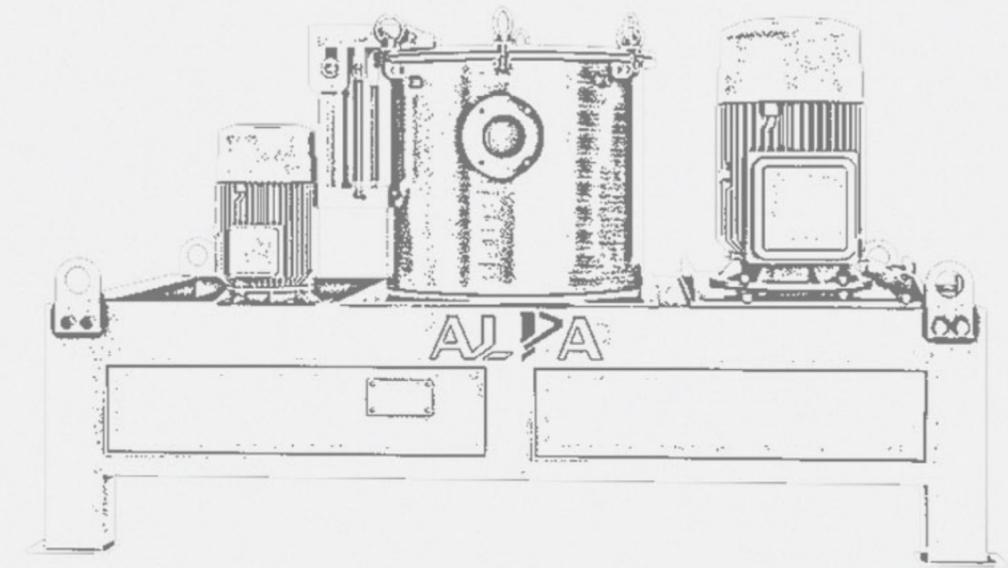
# Product brochure

Product display/Product details  
Technical parameter/Customer case

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## Air Classifying Mill

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**2021** | Shandong  
ALPA

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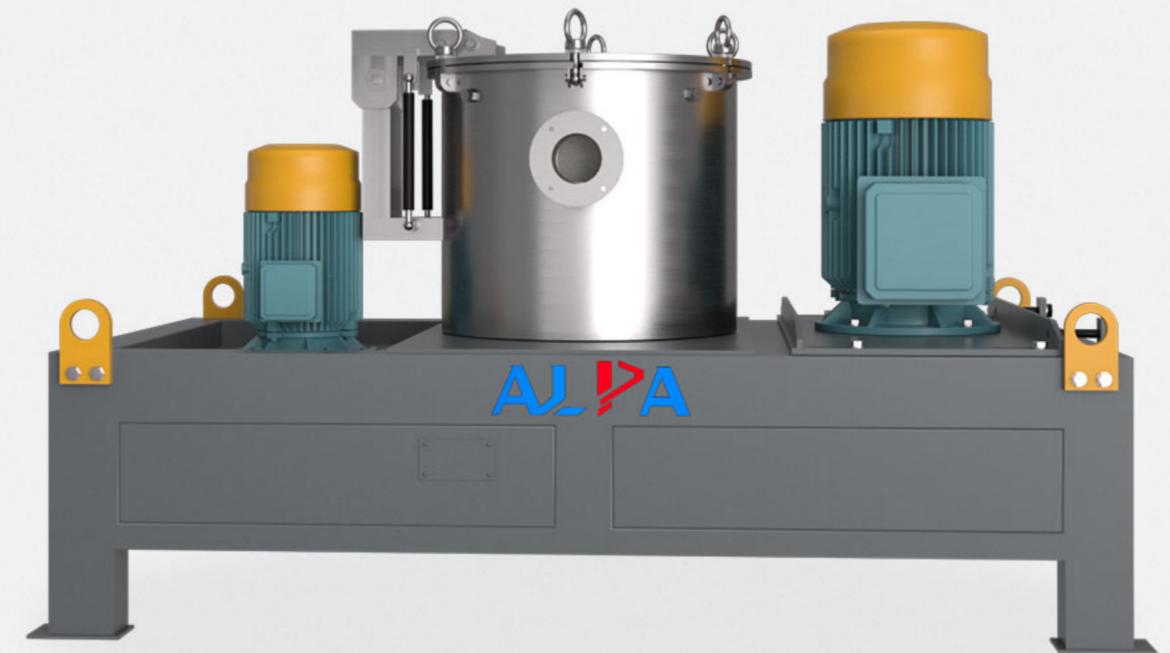
# Air Classifying Mill

High efficiency grinding mill with integration of grinding and classifying

D50:1.5~45 $\mu$ m

Particle size range

The material is evenly fed into the grinding chamber by the feeding system, strongly impacted by the high-speed rotating grinding disc. At the same time, it is subjected to centrifugal force and collides with the grinding ring gear, and is subjected to various comprehensive forces such as shearing, friction and collision to finished grinding. The grinded material moves to the classifying zone with the airflow. The classifier is adjusted by frequency conversion, separates the coarse and fine materials, the product that meet the fineness requirement enters the cyclone collector and the dust collector with the airflow, and the coarse powders return to the classifying zone, secondary grinding.

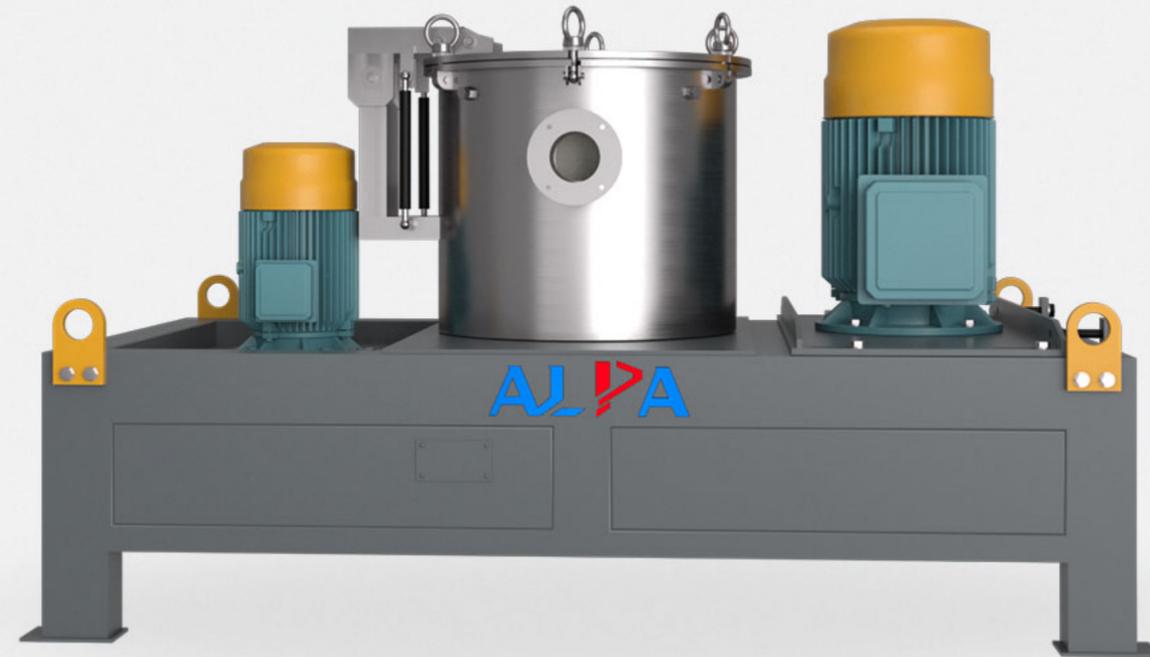




# Product display



CSM-V Air Classifying Mill



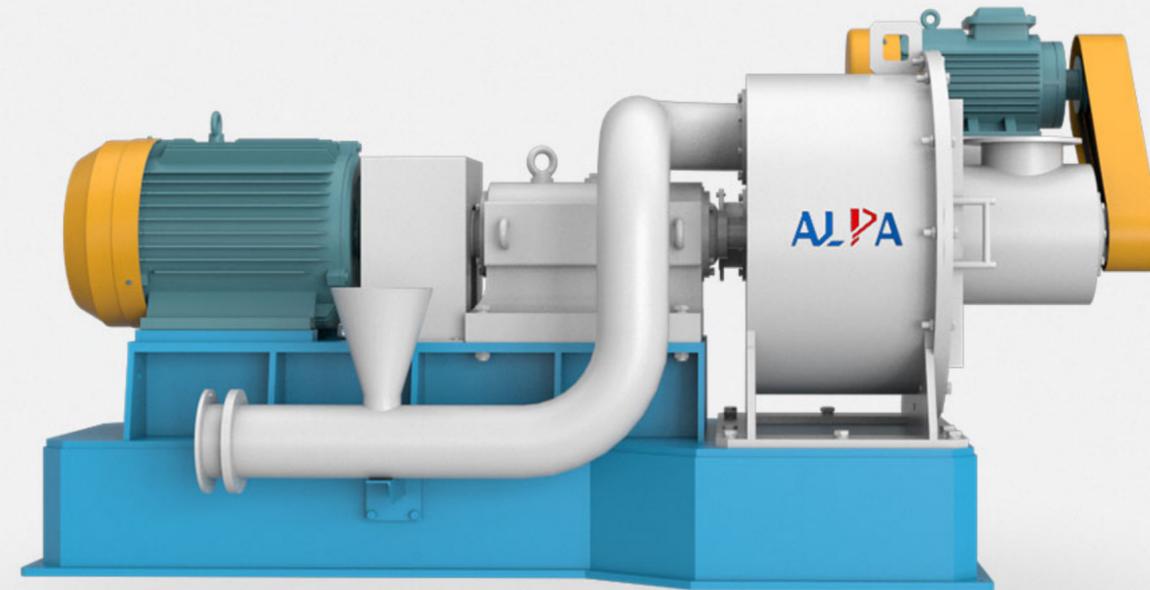
CSM-VD Air Classifying Mill



# Product display



CSM-H Air Classifying Mill



CSM-HJ Air Classifying Mill

- Particle size available D50:1.5~45 $\mu$ m
- Integration of grinding and classifying, classifying wheel is adjusted to obtain ideal particle. Classifying wheel is vertical or horizontal installation
- Different types of grinding disc (pin, hammer, teeth or others) are used based on characteristics of materials to obtain different grinding forces and improve grinding efficiency
- Key parts like the hammer, gear ring and classifying wheel are made of ceramic such as aluminum oxide, zirconium oxide or silicon carbide, ensuring non-contact with metal throughout the grinding for high purity of the final product
- Can be used in series with multi-stage classifiers to produce products with multiple particle sizes at one time
- Grinding is in closed system, low dust and noise, clean and environmentally friendly production process
- PLC control system, easy operation
- Optional explosion-proof design, meet the ultra-fine grinding processing requirements of flammable and explosive oxide materials

## Technical parameter

Model / parameter		CSM-280H	CSM-400H	CSM-510H	CSM-760H	CSM-1100H	CSM-1250H
Power (kw)	Grinding Disc	7.5	18.5	30	45~55	75~90	132
	Classifier Impeller	4	4	11~15	15	22	30
	Feeder	0.55~1.1					
Rotate Speed (r/min)	Grinding Disc	7500	5250	3350	2625	2100	1700
	Classifier Impeller	1000~8500	800~6000	600~4000	500~3000	400~2250	300~2000
	Feeder	20~100					
Max Air Flow (m3/h)		500	1200	3000	4800	9000	12000
Product Size (µm)		5~300	5~300	5~300	10~300	10~300	10~300
Production Capacity (kg/h)		2~120	15~600	25~1000	30~1500	60~2000	100~3000

## Technical parameter

Model / parameter		CSM-280V	CSM-350V	CSM-510V	CSM-710V	CSM-1100V	CSM-1250V
Power (kw)	Grinding Disc	7.5	11~15	22~30	45~55	90~110	132~160
	Classifier Impeller	1.5	2.2	4~5.5	7.5~11	15	18.5~22
	Feeder	0.55~1.1					
Rotate Speed (r/min)	Grinding Disc	7500	6200	4200	2800	2100	1700
	Classifier Impeller	500~4500	500~4000	400~3000	300~2500	250~2000	200~1600
	Feeder	20~100					
Max Air Flow (m3/h)		700	900	3000	5400	10000	15000
Product Size (µm)		5~300	5~300	5~300	10~300	10~300	10~300
Production Capacity (kg/h)		2~100	10~400	15~600	30~1200	60~1500	300~3000

## Technical parameter

Model / parameter		CSM-280VD	CSM-350VD	CSM-510VD	CSM-710VD	CSM-1100VD	CSM-1250VD
Power (kw)	Grinding Disc	7.5	11~15	22~30	45~55	90~110	132~160
	Classifier Impeller	1.5	2.2	4~5.5	7.5~11	15	18.5~22
	Feeder	0.55~1.1					
Rotate Speed (r/min)	Grinding Disc	7500	6200	4200	2800	2100	1700
	Classifier Impeller	50~4500	500~4000	400~3000	300~2500	250~2000	200~1600
	Feeder	20~100					
Max Air Flow (m <sup>3</sup> /h)		700	900	3000	5400	10000	15000
Product Size (μm)		5~300	5~300	5~300	10~300	10~300	10~300
Production Capacity (kg/h)		2~100	10~400	15~600	30~1200	60~1500	300~3000

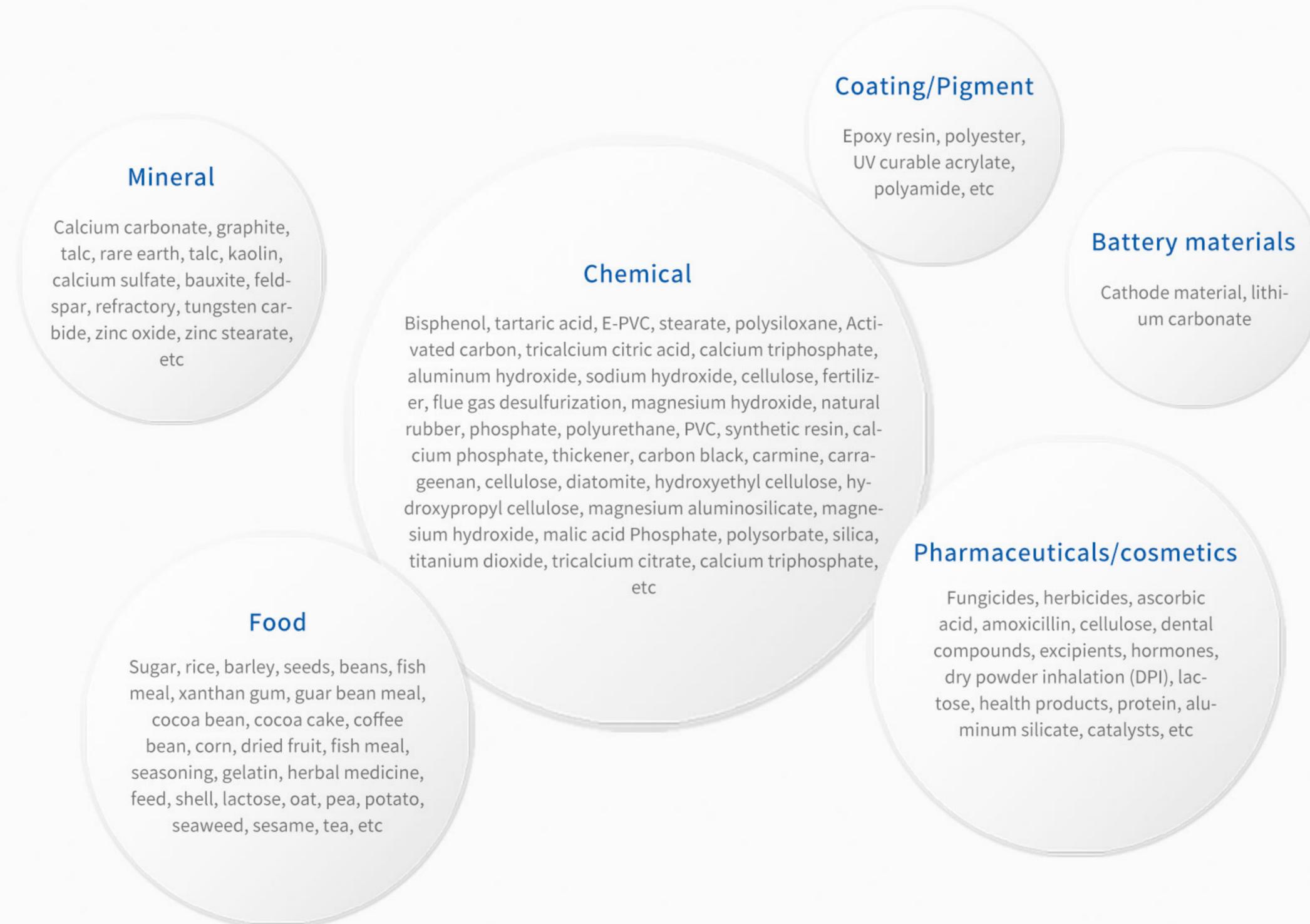


## Technical parameter

Model / parameter		CSM-280HJ	CSM-400HJ	CSM-600HJ	CSM-800HJ	CSM-1000HJ	CSM-1250HJ
Power (kw)	Grinding Disc	7.5	18.5	30	45~55	75~90	132
	Classifier Impeller	4	4	11~15	15	22	30
	Feeder	0.55~1.1					
Rotate Speed (r/min)	Grinding Disc	7500	5250	3350	2625	2100	1700
	Classifier Impeller	1000~8500	800~6000	600~4000	500~3000	400~2250	300~2000
	Feeder	20~100					
Max Air Flow (m3/h)		500	1200	3000	4800	9000	12000
Product Size (μm)		5~300	5~300	5~300	10~300	10~300	10~300
Production Capacity (kg/h)		2~120	15~600	25~1000	30~1500	60~2000	100~3000



# Material solutions



2021



# Customer case



CSM510



CSM450



CSM450-VD



CSM510-VD



CSM510



CSM450



CSM1100-L



CSM450