

LM Series Vertical Mill

Brief Introduction:

LM series vertical mill is an efficient equipment which combines crushing, drying, milling, separating and transporting together. It is widely used in field of cement, metallurgy, electricity, chemical, ceramics, glass, non-metal ores, etc. It can also grind water slag, ore slag, stove slag, coal slag, cement, quarts, etc.



Working Principle:

When LM series vertical mill plant works, main motor will drive the grinding disc with the reducer, meanwhile hot air coming into the mill via air inlet. Material fall into the center of cavity from feeding hopper and move towards the edge of grinding disc under the centrifugal force. When passing through rollers area, by crushing of rollers, big size material would be grinded directly, fine size material will form a clinker bed and be grinded. Grinded material will move towards to edge of disc, until be taken away by heavy air flow from wind ring, the larger powder will fall down for regrinding, qualified powder are collected by collector to be final product.

Humid materials will be dried by hot air. Different humid materials will be dried to the requirement by adjusting the temperature of the hot air. In addition, by adjusting the speed of the classifier, different degrees of fineness can be achieved.



Main Features:

- 1.High grinding efficiency, Low operation cost.
- 2.Low cost for installation and investment.
- 3.Reliable working performance, Simple operation and maintenance.
- 4.High drying ability, suitable for various materials.
- 5.Stable product quality, even products shape.
- 6.Environment protection, low noise, little dust.

Main Specifications

Ore Mill							
Contents Data/Model		LM130K	LM150K	LM170K	LM190K	LM220K	LM240K
Disc Dia. (mm)		1300	1500	1700	1900	2200	2400
Capacity (t/h)		10~30	13~40	18~57	23~72	36~114	41~128
Output fineness	micron	170~45	170~45	170~45	170~45	170~45	170~45
	mesh	80~325	80~325	80~325	80~325	80~325	80~325
Product moisture		≤1%	≤1%	≤1%	≤1%	≤1%	≤1%
Max.input size (mm)		<38	<40	<42	<45	<50	<55
Best input moisture		<4%	<4%	<4%	<4%	<4%	<4%
input moisture(drying required)		<15%	<15%	<15%	<15%	<15%	<15%
Inlet air temperature (°C)		<350	<350	<350	<350	<350	<350
Outlet air temperature (°C)		70~95	70~95	70~95	70~95	70~95	70~95
Main mill power (KW)		185~220	250~280	355~400	450~500	710~800	800~900
Dimension	L(mm)	3500	4200	4700	8500	10200	11700
	W(mm)	3400	3900	4500	5600	6700	7700
	H(mm)	5800	7100	8300	8800	10600	12200
Weight (t)		48	75	90	100	125	160

Notes:

1. Material should be with hardness less than 7 in Mohs.
2. Hot air is only necessary if outlet moisture is required to be less than inlet moisture.
3. When grinding material that is difficult to grind, please use the largest power.

Coal Mill							
Contents Data/Model	LM130M	LM150M	LM170M	LM190M	LM220M	LM240M	
Disc Dia. (mm)	1300	1500	1700	1900	2200	2400	
Capacity (t/h)	10~15	16~22	20~28	26~35	35~45	40~50	
fineness (R0.08)	<15%	<15%	<15%	<15%	<15%	<15%	
Coal powder moisture	<1%	<1%	<1%	<1%	<1%	<1%	
Max.input size (mm)	<38	<40	<42	<45	<50	<55	
input moisture	<15%	<15%	<15%	<15%	<15%	<15%	
Inlet air temperature (°C)	<350	<350	<350	<350	<350	<350	
Outlet air temperature (°C)	75~95	75~95	75~95	75~95	75~95	75~95	
Hardgrove index of raw coal (HGI)	>55	>55	>55	>55	>55	>55	
Main mill power (KW)	185	250	315	400	500	560	
Dimension	L(mm)	3500	4200	4700	8500	10200	11700
	W(mm)	3400	3900	4500	5600	6700	7700
	H(mm)	5800	7100	8300	8800	10600	12200
Weight (t)	46	75	94	100	122	157	

Note: 1. Any change of technical data will not inform additionally.

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