

SBM LM Vertical Mill



LM Vertical Mill Overview

LM series vertical grinding mill is the newest grinding machine, which integrates the advanced international technology and years of mill-producing experience . It is an ideal equipment that integrates crushing, drying, grinding and grading conveyor all together.

Applications

LM series vertical grinding machine can be widely used in cement making, power,metallurgy, chemical and nonmetalliferous ore industries. It is used to grind lumpy, granular and powdery materials to the required size.

Main Features and Benefits

- 1.Simple structure, easy maintenance
2. Reliable performance, low operation cost
3. High crushing ratio
4. High drying ability, reliable operation
5. Stable quality, convenient maintenance
6. Low invest, high return

LM Vertical Mill Technical Data

Model		LM130K	LM150K	LM170K	LM190K	LM220K	LM240K
Turnplate diameter (mm)			1500	1700	1900	2200	2400
Capacity (t/h)		10~30	13~40	18~57	23~72	36~114	41~128
Final product size	μm	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
Final product water percentage		≤1%	≤1%	≤1%	≤1%	≤1%	≤1%
Max. input size (mm)		38	40	42	45	50	55
Best water percentage of raw material		4%	4%	4%	4%	4%	4%
Drying needed if water percentage is more than		15%	15%	15%	15%	15%	15%
Input wind temperature (°C)		350	350	350	350	350	350

Output wind temperature (°C)		70~95	70~95	70~95	70~95	70~95	70~95
Main motor power (KW)		185~220	250~280	355~400	450~500	710~800	800~900
Overall 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

Model	LM130M	LM150M	LM170M	LM190M	LM220M	LM240M	
Turnplate diameter (mm)	1300	1500	1700	1900	2200	2400	
Capacity (t/h)	10~15	16~22	20~28	26~35	35~45	40~50	
Coal powder fineness (R0.08)	15%	15%	15%	15%	15%	15%	
Coal powder water percentage	1%	1%	1%	1%	1%	1%	
Max. input size (mm)	38	40	42	45	50	55	
Input material water percentage	15%	15%	15%	15%	15%	15%	
Input wind temperature (°C)	350	350	350	350	350	350	
Output wind temperature (°C)	75~95	75~95	75~95	75~95	75~95	75~95	
Raw coal Hardgrove grindability index (HGI)	>55	>55	>55	>55	>55	>55	
Main motor power (KW)	185	250	315	400	500	560	
Overall 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: This specification is just reference, any changes are subject to the LM Vertical Mill products

How MTM Medium Speed Trapezium Mill works



The motor drives the grinding table through decelerator. The materials fall down the center of grinding table from feed opening. At the same time, hot air comes into the mill from the air inlet. Due to the centrifugal force, materials move to the edge of the grinding table. The materials are pulverized by the roller when by pass of the groove on the grinding table. The crushed materials are brought up by vane high-speed airstream, the larger particles fall down to the grinding table for regrinding. When the materials in the airstream pass the separator on the top of the mill , the coarse powder fall down the grinding table for regrinding under the function of rotation rotor. The fine powder comes out with the airstream, and is gathered by the dust catcher. The materials content with moisture will be dried when they meet

the hot airstream. Through adjusting the temperature of the hot airstream, it can meet different material's requirement, and also through adjusting separator, it can reach proper fineness of materials.

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