



## SBM LM Vertical Mill

What we do today is to ensure the future of our group with youth and spirit forever and ever.

- SBM

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## 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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