

Operating Instruction

DRUM DRYER

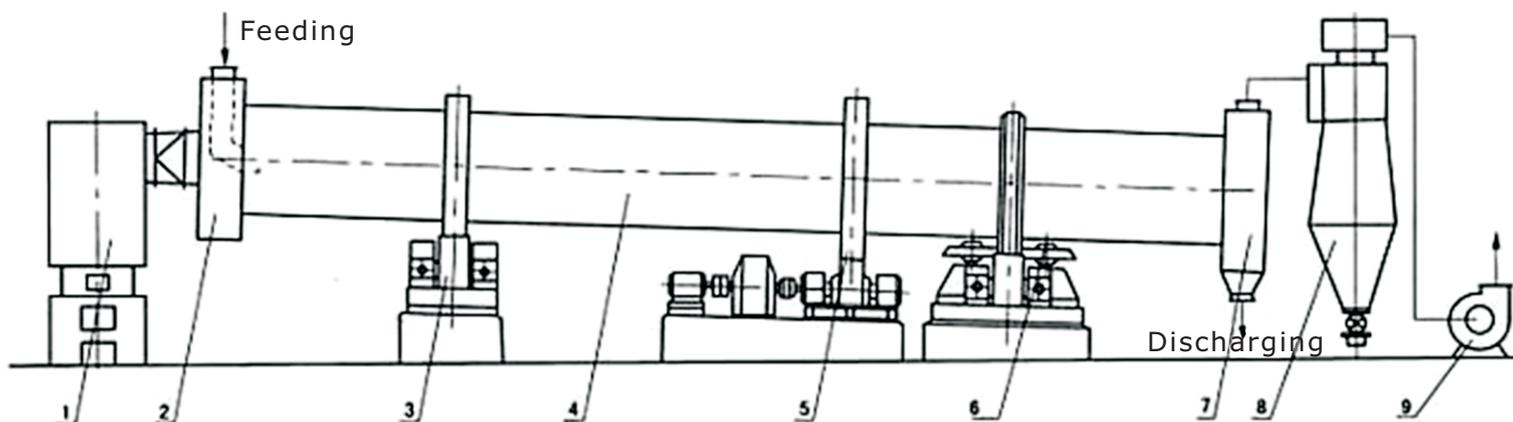


Henan Hongxing Heavy Machinery Co., Ltd.

The Application and Description of Drum Dryer:

Drum dryer is mainly used for drying materials with some moisture and granularity in ore beneficiation, building material, metallurgy and chemical department. Drum dryer has high adaptability to the materials so that it can be

used for drying all kinds of materials, and in addition, the operation of this equipment is simple and reliable, for this reason, it gets wide application.



1.Heating device

2.Feeding device

3.Roller device

4.Drying kiln

5.Gearing

6.Gear wheel device

7.Discharging device

8.Cyclone separator

9.Induced draught fan

The Inner Structure and Function of Drum Dryer:

This machine is mainly composed of rotary part, lifting board, transmission part, supporting part and seal ring. The drum dryer produced by our company uses reasonable running parameters, and the coal and electricity

consumption is reduced by over 10-15% and the output per machine is improved by over 10-15%, so that it has been widely used in the cement plants and ore beneficiation plants.

Features

The drum dryer produced by our company uses new lifting board with many functions of guiding, current sharing and material lifting, and the materials can be comprehensively distributed on the radial sections of the drum dryer and the material curtain is in the thin, average and full state and the materials can fully contact the hot air, thus achieving the aim of making full use of the heat.



Characteristics:

Processing capacity: 0.5-50t/h

Applied material: limestone, fly ash, coal powder, slag, clay.



Working principle:

The heat source of the drum dryer comes from the combustion device and this dryer uses co-current heating method, so that when the materials to be dried go into the cylinder from the feeding box or feeding chute, they are pushed back by the spiral lifting board. Since the drum dryer is obliquely installed, the materials flow to the lower end of the machine under the gravity and the rotation of the machine, and on the other hand, the materials are repeatedly lifted by the lifting board to the higher end and then spread down constantly, so that the materials will form an even curtain inside the cylinder and conduct heat exchange with the hot air inside the cylinder. Since the materials constantly spread and the water contained in them will be dried, thus achieving the aim of drying.

Technical data :

Model(m) (Diameter ×Length)	Cylinder volume (m ³)	Production capacity (t/h)	Installation inclination (%)	Highest intake air temperature (°C)	Main motor (kw)	Total weight (t)
Φ1.2×8.0	9.0	1.9~2.4	3~5	700~800	7.5	9
Φ1.2×10	11.3	2.4~3.0	3~5	700~800	7.5	11
Φ1.5×12	21.2	4.5~5.7	3~5	700~800	15	18.5
Φ1.5×14	24.7	5.3~6.6	3~5	700~800	15	19.7
Φ1.5×15	26.5	5.7~7.1	3~5	700~800	15	20.5
Φ1.8×12	30.5	6.5~8.1	3~5	700~800	18.5	21.5
Φ1.8×14	35.6	7.6~9.5	3~5	700~800	18.5	23
Φ2.2×12	45.6	9.7~12.2	3~5	700~800	22	33.5
Φ2.2×14	53.2	11.4~14.2	3~5	700~800	22	36
Φ2.2×16	60.8	13.0~16.2	3~5	700~800	22	38
Φ2.4×14	63.3	13.5~16.9	3~5	700~800	37	45
Φ2.4×18	81.4	17.4~21.7	3~5	700~800	37	49
Φ2.4×20	90.4	19.3~24.1	3~5	700~800	45	54
Φ2.4×22	99.5	21.2~26.5	3~5	700~800	45	58
Φ2.6×24	127.4	27.4~34.0	3~5	700~800	55	73
Φ3.0×20	141.3	30.1~37.7	3~5	700~800	75	85
Φ3.0×25	176.6	37.7~47.1	3~5	700~800	75	95
Φ3.2×25	201	42.9~53.6	3~5	700~800	90	110
Φ3.6×28	285	60.8~76.0	3~5	700~800	160	135

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