

Operating Instruction
COOLER

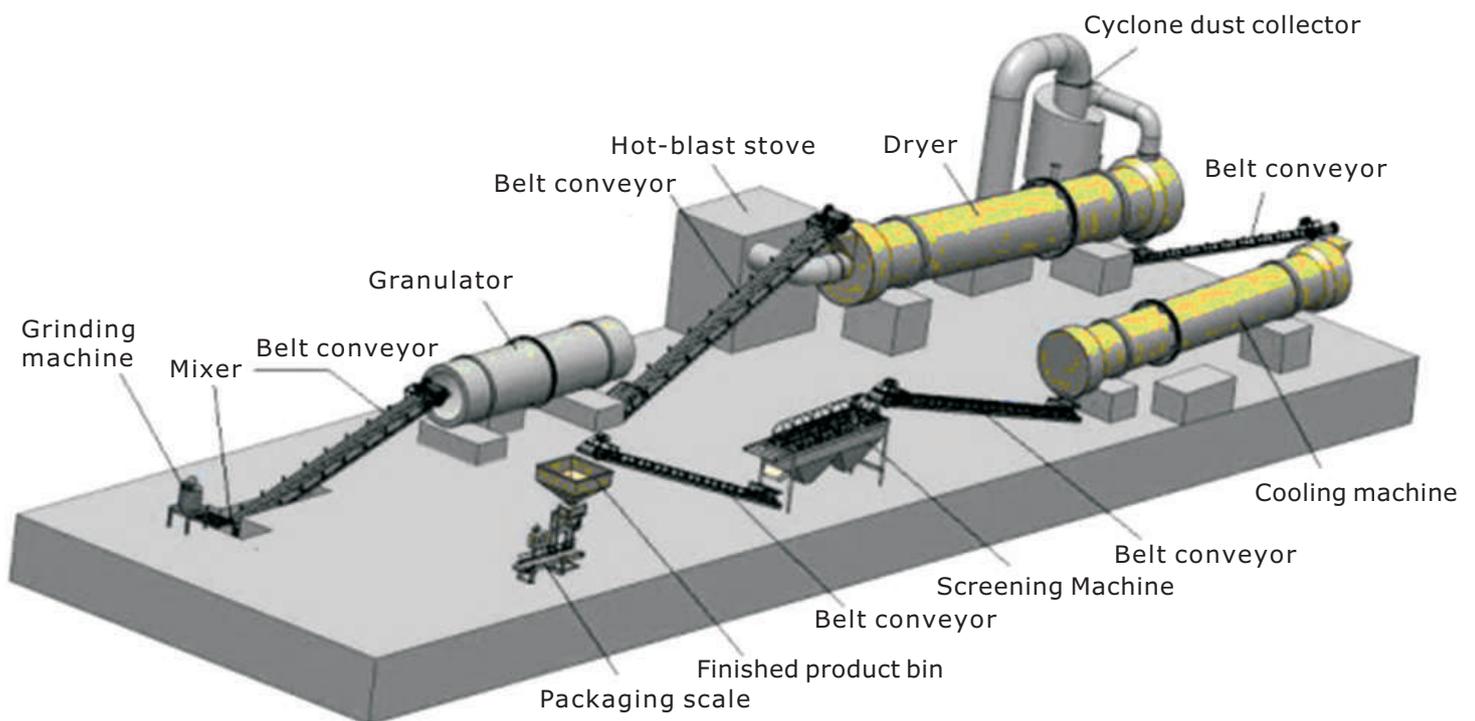


Henan Hongxing Heavy Machinery Co., Ltd.

The Description and Function of Cooler:

Cooler is one of the important machines of the rotary kiln system and its functions are to cool the clinker from the rotary kiln from 1000-1300°C

to below 200°C and to improve the quality and grindability of the clinker.



The Advantages and Benefits of Cooler:

This equipment can fully suck the air that is used for cooling the materials as secondary circulation air, thus improving the thermal efficiency of the kiln, and in addition, it has the

features of simple structure, high running rate and convenient operation and maintenance, so that is very suitable for small-sized cement plant.

Characteristics:

Feeding Granularity: $\Phi 1.5 \times 15\text{m} - \Phi 3.3 \times 40\text{m}$

Production Capacity: 2-36t/h

Technical Features: Cooling the clinker (1000-1300°C) discharged from rotary kiln to below 200°C and improving the quality and grindability.



Working principle:

Clinker with high temperature goes into the cooler through the feeding device, and the cooler will rotate to drive the materials to conduct heat exchange with the air, and with the constant rotation of the kiln according to the designed inclination and rotating speed, the materials will also periodically roll and move forward inside the kiln, so that the raw materials are sent from the feeding end to the discharging end and cooled to below 200°C in the time period when the materials go through the rotary kiln.



Feature:

This equipment can fully suck the air that is used for cooling the materials as secondary circulation air, thus improving the thermal efficiency of the kiln, and in addition, it has the features of simple structure, high running rate and convenient operation and maintenance, so that is very suitable for small-sized cement plant.

Technical data:

Spec./m (Dia×Length)	Capacity (t/h)	Installation Obliquity (%)	Main Reducer	Main Motor (kw)	Weight (t)
$\Phi 1.5 \times 15$	2~3	3~5	ZQ 500	15	28
$\Phi 1.5 \times 20$	3~4	3~5	ZQ 500	15	35
$\Phi 1.8 \times 18$	4~6	3~5	ZQ 500	18.5	47
$\Phi 2.0 \times 22$	7~8.5	3~5	ZQ 500	22	61
$\Phi 2.2 \times 18$	7~8.5	3~5	ZQ 500	22	64
$\Phi 2.2 \times 22$	8~10	3~5	ZQ 650	30	73
$\Phi 2.4 \times 24$	12~15	3~5	ZS 125	45	98
$\Phi 2.5 \times 25$	15~20	3~5	ZS 125	55	110
$\Phi 2.8 \times 28$	16~22	3~5	ZL 100	55	130
$\Phi 3.0 \times 30$	20~25	3~5	ZL 115	75	169
$\Phi 3.2 \times 36$	28~32	3~5	ZL 115	90	200
$\Phi 3.3 \times 40$	32~36	3~5	ZL 130	132	237

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