

*Operating Instruction*

# ROTARY KILN



**Henan Hongxing Heavy Machinery Co., Ltd.**

## The Main Types and Description of Rotary Kiln:

Rotary kiln refers to rotary calcining kiln which belongs to building material equipment. According to the material types to be processed,

rotary kiln can be divided into cement kiln, metallurgical chemistry kiln and limestone kiln.



## The Concrete Category and Function of Totary Kiln:

Cement kiln is mainly used for calcining the cement clinker and it can be divided into dry-producing cement kiln and wet-producing cement kiln. Metallurgical chemistry kiln is mainly used for the magnetizing roasting of the lean iron ore and the oxidizing roasting of the chromium and josephinite in the steel works in the metallurgical industry, for the roasting of

high alumina bauxite ore in the refractory plant, for the roasting of clinker and aluminium hydroxide in the aluminium manufacturing plant and for the roasting of chrome ore in the chemical plant. Limestone kiln is mainly used for roasting active lime and lightly calcined dolomite used in the steel works and ferroalloy works.

## Characteristics:

Specification:  $\Phi 2.5 \times 40\text{m}$ - $\Phi 6.0 \times 95\text{m}$

Processing capacity: 180-1000(t/d)

Applied material: dolomite, active lime, cement clinker, and bauxite.

Applied area: portland cement making industry.



## Technical data :

Product specifications (m)	Kiln dimensions			Capacity (t/d)	Rotation speed (r/min)	Motor power (kw)	Total weight (t)	Note
	Diameter (m)	Length (m)	Obliquity (%)					
$\Phi 2.5 \times 40$	2.5	40	3.5	180	0.44-2.44	55	149.61	Kiln with shaft cyclone preheater
$\Phi 2.5 \times 50$	2.5	50	3	200	0.62-1.86	55	187.37	----
$\Phi 2.5 \times 54$	2.5	54	3.5	204	0.48-1.45	55	196.29	----
$\Phi 2.7 \times 42$	2.7	42	3.5	320	0.10-1.52	55	198.5	----
$\Phi 2.8 \times 44$	2.8	44	3.5	400	0.437-2.18	55	201.58	Outside disassemble kiln
$\Phi 3.0 \times 45$	3	45	3.5	500	0.5-2.47	75	210.94	----
$\Phi 3.0 \times 48$	3	48	3.5	700	0.6-3.48	100	237	Outside disassemble kiln
$\Phi 3.0 \times 60$	3	60	3.5	300	0.3-2	100	310	Alumyte-alumina forge kiln
$\Phi 3.2 \times 50$	3.2	50	4	1000	0.6-3	125	278	Outside disassemble kiln
$\Phi 3.3 \times 52$	3.3	52	3.5	1300	0.266-2.66	125	283	Kiln with preheater precalcine
$\Phi 3.5 \times 54$	3.5	54	3.5	1500	0.55-3.4	220	363	Kiln with preheater precalcine

## Feature:

Save pulverized coal, Harmless, Fuel use

$\Phi 3.6 \times 70$	3.6	70	3.5	1800	0.25-1.25	125	419	Generating kiln for using offereheat
$\Phi 4.0 \times 56$	4	56	4	2300	0.41-4.07	315	456	Kiln with preheater precalcine
$\Phi 4.0 \times 60$	4	60	3.5	2500	0.396-3.96	315	510	Kiln with preheater precalcine
$\Phi 4.2 \times 60$	4.2	60	4	2750	0.4-3.98	375	633	Kiln with preheater precalcine
$\Phi 4.3 \times 60$	4.3	60	3.5	3200	0.396-3.96	375	583	Kiln with preheater precalcine
$\Phi 4.5 \times 66$	4.5	66	3.5	4000	0.41-4.1	560	710.4	Kiln with preheater precalcine
$\Phi 4.7 \times 74$	4.7	74	4	4500	0.35-4	630	849	Kiln with preheater precalcine
$\Phi 4.8 \times 74$	4.8	74	4	5000	0.396-3.96	630	899	Kiln with preheater precalcine
$\Phi 5.0 \times 74$	5	74	4	6000	0.35-4	710	944	Kiln with preheater precalcine
$\Phi 5.6 \times 87$	5.6	87	4	8000	Max4.23	800	1265	Kiln with preheater precalcine
$\Phi 6.0 \times 95$	6	95	4	10000	Max5	950 $\times$ 2	1659	Kiln with preheater precalcine



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