

NEW type active lime production line recover all the investment in 8-10 months



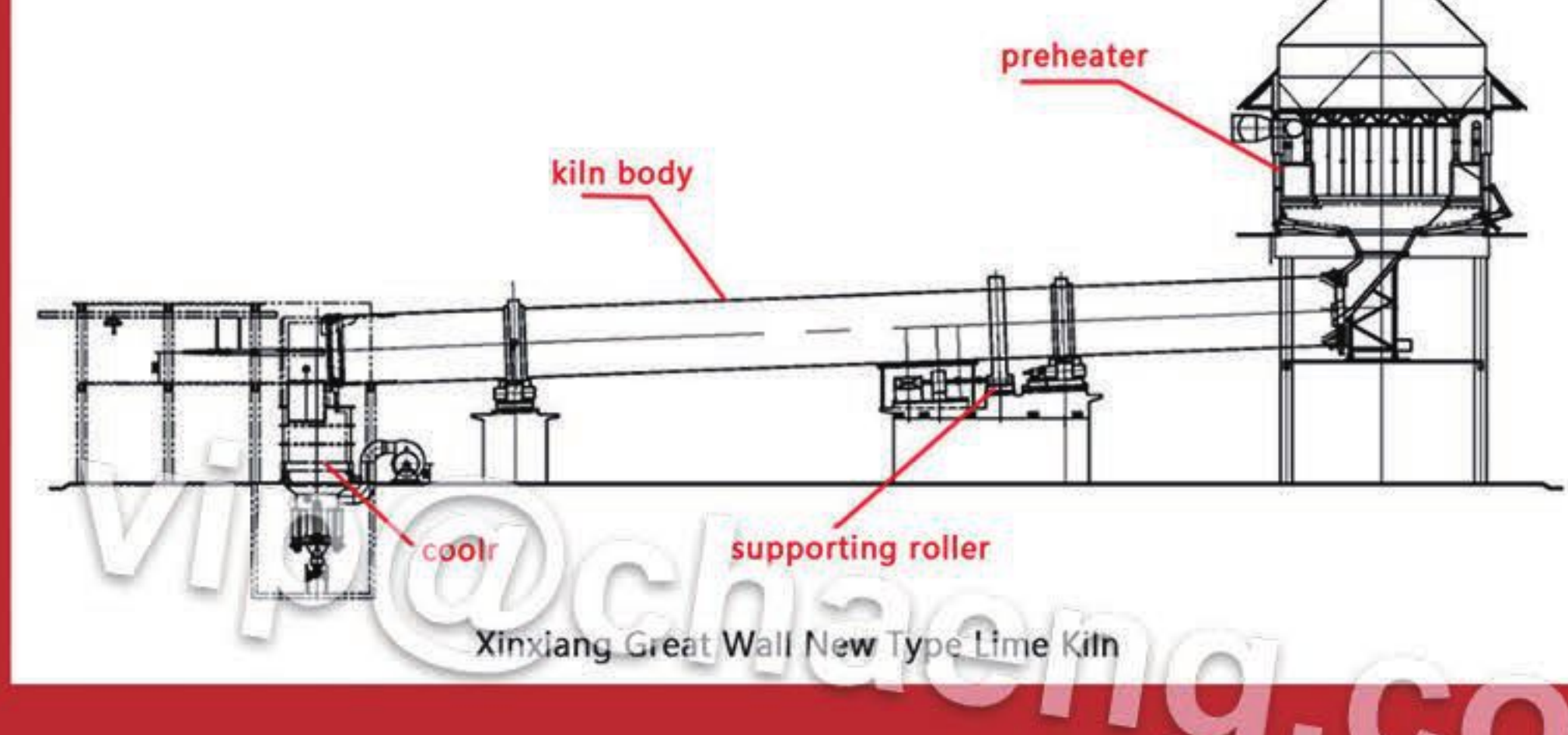
Xinxiang Great Wall
—China Lime Association Recommended Brand

- ★ Activity is as high as 400ml
- ★ The largest production line with capacity of 1500 tons
- ★ Auto-control by using DCS remote control system, only need 2-3 operating personnel in the whole line
- ★ Areas of application: steel, calcium carbide, coking, and alumina

01/ New Type of Lime Kiln Tendency

Due to the temptation of 20% growth of lime demand for calcium carbide, steel industry, a lot of kilns are put into use in the market. But the production technology and product quality can't meet the need of modern production; the activity degree of product is low, mild and excessive calcination cannot be controlled give rise to fuel consumption and serious environmental pollution.

As a result, **the new environmental protection lime kiln** is sure to replace the original old lime kiln.



Xinxiang Great Wall lime kiln advantage

Rotary kiln mainly consist of feeding system preheating calcination system, cooling system, finished product storage systems, exhaust gas treatment system, pulverized coal preparation system and air compressor system.

01 activity is higher than the traditional shaft kiln 30ml
The material heated evenly in the revolving lime kiln, the probability of mild and excessive calcination is low. The lime activity degrees produce by lime rotary kiln is higher than the shaft kiln.

02 Production capacity reach up to 1500 t/d
The lime kilns produced by Great Wall Machinery have large capacity, the output can reach to 1500t/d, operating well to guarantee enterprise up-scaling and reduce the production cost.

our advantages

03 Gas fuel, energy saving and environmental protection
Great Wall lime kiln belongs to open type calcine equipment, advanced manufacturing technique, lower energy consumption than the old lime kiln calcine system, more environmental protection for adopts the exhaust blast furnace gas.

04 Auto-control reduce the labor cost
Auto-control by using DCS remote control system, only need 2-3 operating personnel in the whole line.

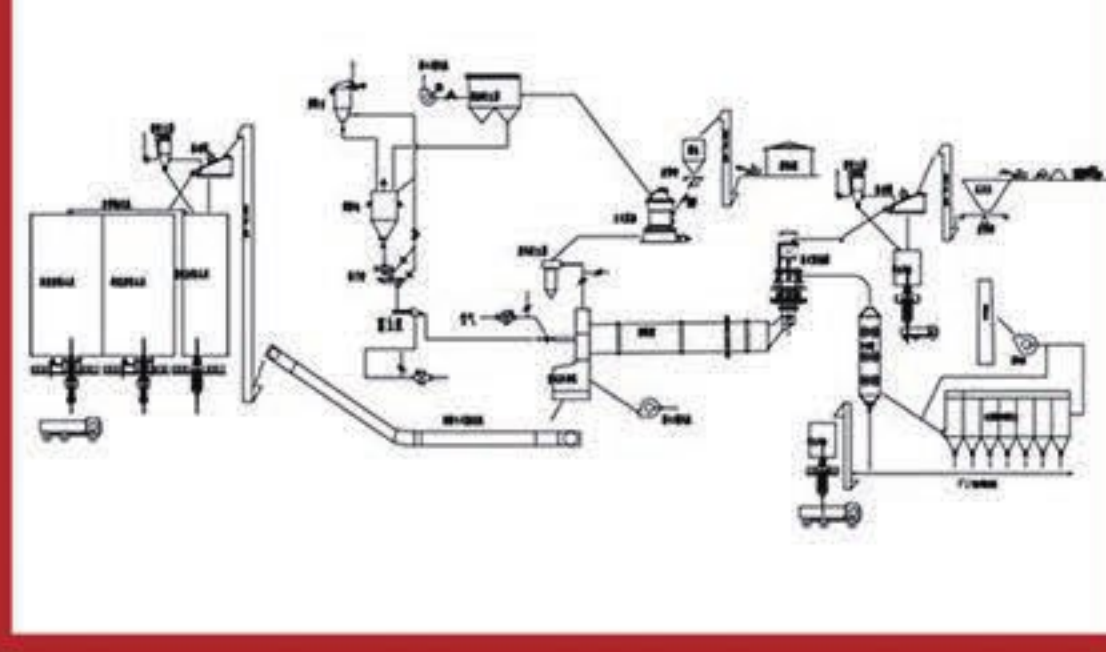
05 Good quality of finished products, low probability of mild and excessive calcination
Product quality is uniform, the probability of mild and excessive calcination less than 8%.

Comparison of Lime Kilns on The Market

Kiln type	Great Wall kilns	shaft kilns	earth kilns
Capacity (t/d)	200-1200	50-300	10-70
Raw material granularity	15-50mm	40-80mm	70-250mm
Standard coal consumption	≥180kg/t	120-145kg/t	200-300kg/t
Lime activity	330-400ml (the influence of fuel ash and sulfur content increase on lime activity is not obvious)	260-300ml (the increase of fuel ash and sulfur content significantly reduce lime activity)	200-240ml (the increase of fuel ash and sulfur content significantly reduce lime activity)
Ignition loss	less than 5%	about 10%	20%

02/ Active Lime Production Line System

Solemn commitment Great Wall Machinery can supply 200-1500t/d active lime production line EPC, the one stop "turnkey" service that provide from scientific reports, design, equipment, construction, installation, commissioning, reach production targets. Welcome customers to call us: +86-371-55019608.



working principle
Qualified limestone particles(20-50mm) be ascended by the top of the preheater. Stock bin feeding amount be controlled by the up and down two material level meters. Material distributed by tremie pipe to all indoor in preheater. The limestone was heated to about 900°C by kiln flue gas with temperature in 1150°C in preheater, about 30% was decomposed and pushed by the hydraulic rod into the rotary kiln. The limestone was decomposed into CaO and CO2 and discharged out of the cooler after cooled to below 100°C by blowing cold air. The hot air with temperature in 600°C after the heat exchange enter into the kiln and mixed firing with coal gas.

Related equipment

vertical preheater

rotary kiln

vertical cooler

elevator

constant feed weigher

belt conveyor

03/ Customer Site



Capacity:1000t/d
Project Address:Guangxi
Host Model:φ4.0×60m lime kiln
Customer Feedback:Customer is satisfied with us that Great Wall rotary kiln has a significant contribution for the whole line of lime production.

04/ Technical Parameters

Live chat

CAPACITY (t/d)	200	300	400	600	800	1000
PRODUCTS (t/d)	active lime	active lime	active lime	active lime	active lime	active lime
PREHEATER	specification	RS-6.5×3.4	RS-6.5×3.4	RS-6.5×3.4	RS-6.5×3.4	RS-6.5×3.4
	pushrod number	6	8	10	12	16
ROTARY KILN	specification	Φ2.8×42M	Φ3.3×50M	Φ3.6×56M	Φ4×60M	Φ4.3×66M
	effective volume(m³)	190	292	490	575	738
COOLER	rotate speed(r/min)	0.45-2.22	0.2-1.9	0.22-1.57	0.48-1.57	0.21-1.57
	specification	LS-3×3	LS-3.6×3.6	LS-3.8×3.8	LS-4.1×4.1	LS-4.7×4.7
SYSTEM THERMAL CONSUMPTION(kj/kg lime)	feed temperature	1100±50°C	1100±50°C	1100±50°C	1100±50°C	1100±50°C
	discharge temperature	< 100°C	< 100°C	< 100°C	< 100°C	< 100°C
	ACTIVITY DEGREE (50g,4NHCL,10MIN)	≥360ML	≥360ML	≥360ML	≥360ML	≥360ML

Relevant Recommendation

lime solution

vertical coal mill

rotary kiln

supporting roller

Common Sense about Lime Production

Xinxiang Greatwall Machinery Attend the 2nd China-Russia...
Nickel Iron Rotary Kiln/ Nickel Ore Rotary Kiln
Magnesium Oxide rotary kiln / Dolomite kiln / Magnesite kiln...
Great Wall Machinery, professional manufacturer of ...

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* Name Demands

* E-mail Country

* Message

Please enter your demand such as raw material type, capacity, feeding material size, final product fineness.

Send Inquiry

Address	Mengzhou Town, Huixian City, Henan Province, China
Zip Code	453600
Telephone	86-371-55019878
Mobile Phone	86-181-37823265
Fax	86-371-55019608
E-mail	vip@chaeng.co
Skype	GreatWall1958

