

**Energy Saving New Dry Process Cement Line
Customize Vertical Mill Grinding Process**

Project Introduction




Due to the central Asian region is under the influence of "One Belt and One Road" policy, they started to develop the infrastructure construction, will undoubtedly increase the demand for cement. After a multinational investigation contrast, Uzbekistan customer officially signed a cement production line of 1000TPD with CHAENG (Xinxiang Great Wall Machinery) on March 16, 2016.

This cooperation only lasted for less than 10 days from investigation to sign the contract. It's the technical strength and good reputation in the industry of Great Wall to let customer to make a firm choice. It marks that CHAENG achieves new breakthrough on exploiting central Asia market again.

Process type	New Dry Process
Capacity	1000 TPD
Main equipment	GRMR22.31 (vertical raw mill) & GRMC16.21 (vertical coal mill) GRMK33.31 (vertical cement mill) & φ3.2x50m rotary kiln
Feature	Energy Saving, Environmental Protection

Project Advantages

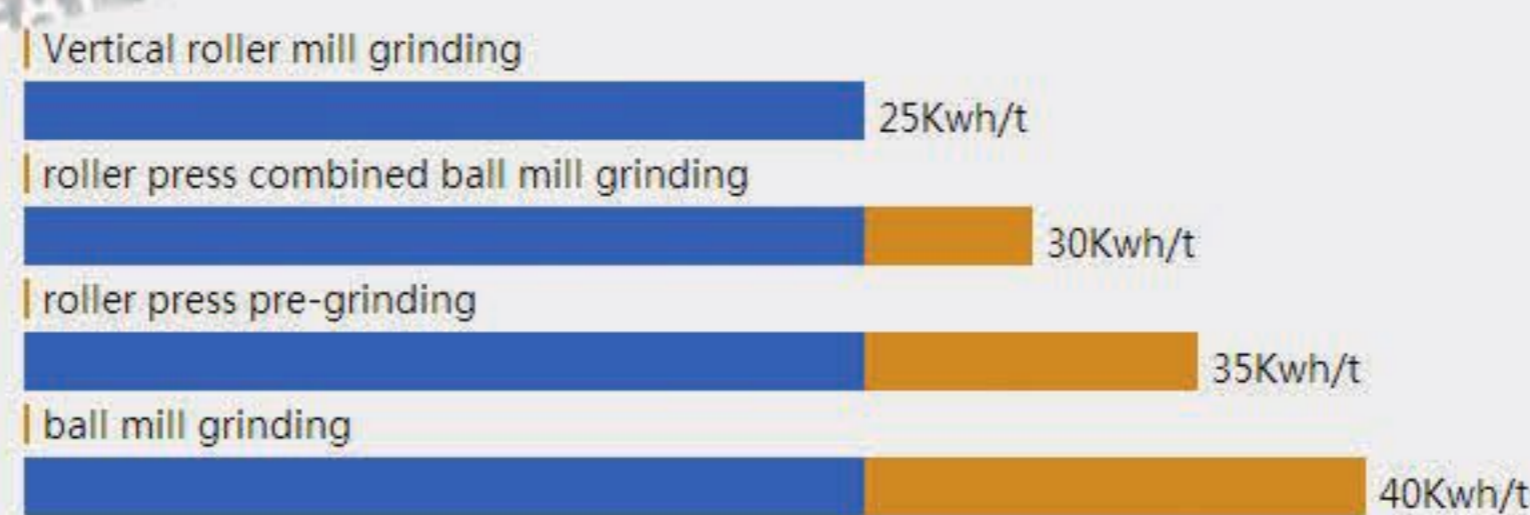
For the new type cement production line, Chaeng adopts the advanced energy saving technology in the crushing and calcining process, the waste hot air generated from the rotary kiln can be recycled for raw material drying and pre-heat pyrolysing to achieve the energy saving, environmental friendly purpose.

 <p>Powerful crushing, scientific stockpiling</p> <p>The limestone crushing use single-section hammer crusher that feeding size is 800mm, production capacity is 180 t/h, and grinding by advanced vertical raw mill-GRMR22.31. Scientific material piling and taking technology, to achieve the initial raw material homogenization.</p>	 <p>New vertical mill grinding process, Low energy consumption in grinding</p> <p>The energy consumption in cement grinding process accounts for more than 60% of the whole production line, therefore, it has great significance in ensuring product quality and reducing energy consumption by using high efficiency and energy saving GRM series vertical roller mill to deal with raw material, coal, clinker.</p>	 <p>preheating before calcination, High efficiency and energy saving</p> <p>Raw materials are sent into φ3.2x50m rotary kiln to be calcined after preheating and precalcining in the cyclone preheater. That is conducive to improve the production efficiency of kiln system, shorten rotary kiln length, and reduce the heat consumption of clinker calcining.</p>	 <p>Low Investment, Environment Friendly</p> <p>Vertical mill grinding system operate in negative pressure, low dust pollution; System equipment layout is compact, low area occupying, low investment in civil construction; Environmental protection in recycling kiln exhaust gas.</p>
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Study on grinding process

It has been the consensus that vertical mill has advantages in the cement production, especially in the clinker grinding stage from the survey. Vertical mill has the feature of low electricity consumption, high production capacity, high cement quality, thus, it is the trend that vertical mill replace the ball mill.

For a better understanding of vertical cement mill, ball mill and roller press in the production practice, Chaeng made a survey and committed the conclusion:

Electricity consumption comparison	<p>Power consumption comparison of Portland cement in specific surface area of 350m² / kg</p>  <p>From the comparison, the vertical cement mill has a better performance in energy saving, it saves 17% of the roller press combined ball mill, 29% of roller press pre-grinding and 38% of ball mill technology in electricity consumption.</p>
Comparison in Technical parameter	
Investment comparison	
Cement Performance comparison	

CHAENG Strength

01 Supply EPC-turnkey service	02 Grinding equipment & spare parts	03 High production capacity and high automatic level cement plant	04 Grinding equipment & spare parts
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As a professional supplier of cement equipment, CHAENG (Great Wall Machinery) provides general contracting of new dry process cement production line including engineering design, equipment manufacturing, installation & commissioning, operation training and finally achieves the designing capacity and production standard. Our company can provide the service from the proposal designing till the plant running to meet your integrated purchase requirement.



About Us

Xinxiang Great Wall Machinery Corporation, located at National Sustainable Development Experiment Area, Xinxiang City, Henan Province, China, was initially built in 1958 and restructured into limited liability Company from township collective enterprise in 2002.

Covering an area of 330,000 m² and having more than 1,100 employees, the company has a total asset of CNY 500 million and has passed ISO9001:2008 quality management system authentication and is a main specialized supplier for manufacturing large scale kiln mill. Possessing the experience of equipment manufacturing for more than half a century, the Company has formed the perfect operation and management system in design and development, product manufacturing, market promotion, equipment installation and after sales service.

Since the first ball mill produced in 1968, the company has produced more than 2600 sets of mills and rotary kilns in various specifications, and the products are sold to each provinces of China, and exported to America, Russia, Japan, Brazil, India, South Korea, Vietnam, Kenya, Iran and others, enjoys high market reputation.

Contact

Demands

Telephone

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***Name**

***E-mail**

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

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