

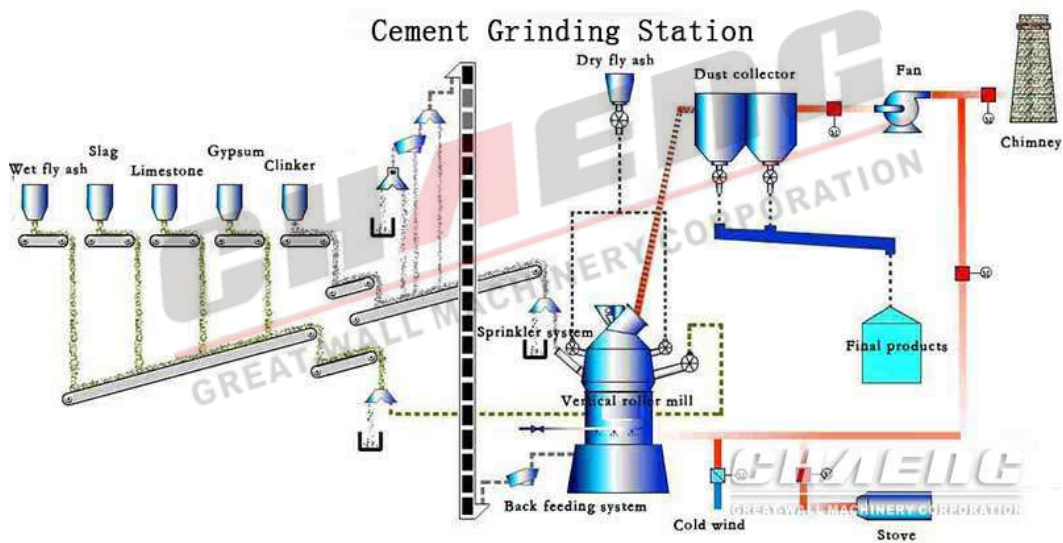
# Process Description

Cement grinding station can make full use of Industrial waste such as the slag , fly ash, furnace slag and coal gangue around the city, so it is an environmental protection industry. CHAENG cement grinding equipment is featured with relatively simple process, easy operation, less investment in process equipment, energy saving, and environmental protection.

Cement grinding station is composed of dust collector, bucket elevator, belt conveyor, spiral conveyor, high efficiency ore dressing machine and so on.

The Performance Characteristics of Cement Grinding Station:

The cement grinding station uses pre-crushing technology, so that it reduces the granularity of the materials that are fed into the grinding mill, and on the other hand, promotes the materials to produce flaws and defects inside, thus greatly improving the output of cement mill and reducing the energy consumption.



# Specifications

CHAENG can provide a variety of schemes for cement grinding, and make a choice according to the actual situation and needs of customers:

Items		Scheme I Closed-circuit ball mill system	Scheme II Combined grinding system	Scheme III Vertical roller mill finish-grinding system
Cement types		P·O42.5	P·O42.5	P·O42.5
Cement ratio,	Clinker	90	90	90
	Limestone	5	5	5

%	Plaster	5	5	5
	Cement specific surface area, cm <sup>2</sup> /g	3500	3500	3500
System output, t/h		170	160	160
System power, kWh/t		41	33	28
Annual electricity savings (×10,000 yuan)		—	400	700
Metal wear, g/t		50 (Steel ball)	30 (Steel ball+roller surface)	5 (Grinding roller+grinding table)
Drying capacity		Weak	Medium	Strong

As can be seen from the table, the vertical roller mill system is superior to the ball mill and roller press system in the aspect of power saving. In terms of power saving, the following includes an account for you:

<b>Economic benefit analysis: the economic benefit caused by the high running rate, power saving and operation maintenance cost of vertical mill system</b>	
If one ton of cement saves 4.5kwh/t power, one day produces 5000T cement, one year works 300 days, and electricity cost is 0.7 yuan per kilowatt hour, you can save electricity cost: ¥ 4,725,000 per year	
The annual maintenance cost balance: ¥ 3,660,000	
Cement maintenance cost balance per ton: ¥ 45,000	
Total: ¥ 8430,000	

In terms of long-term development and environmental protection, the production line based on cement vertical mill is the most appropriate choice for the investment income.

## Features

1. Clean , high yield , Environmental protection. Non-pollution

1. Adopt the advanced-international cement production technology, achieve the goals of high quality, clean state, low cost, and high yield during production.

2. We provide the cement grinding station with output of 200,000-1000,000 tons per year, to meet the demands of different customers

3. Advanced process technology, high quality finished product

The production process adopts efficient extrusion combined grinding system, DCS distributing automatic control system, large bag dust collector and other advanced equipment. The host equipment is advanced, the quantity is stable and reliable, and the product quality can be effectively guaranteed.

4. EPC production, easy for production and sale

Cement production adopts the form of bag packaging and bulk packaging, can service for the key projects, concrete mixing plant, pipe plant and various types of industrial and civil construction projects.

5. We can provide all accessories , easy for maintenance and replacement

## Customer stories

1. EPC project of Yu Hui building materials 900000 T/A cement grinding station



2. Company CAC from Vietnam purchased the ball mill equipment of the cement grinding station



### 3. Clients from Pakistan – 5000 t/d cement grinding station



## About CHAENG

Founded in 1958 and located in Xinxiang, Henan province, CHAENG with 60-year experience in equipment manufacturing covers an area of 330,000 m<sup>2</sup> and its annual production value is 1 billion yuan. The company specializes in manufacturing tube mills, rotary kilns, vertical mills and large steel casting and can undertake the EPC projects of cement production lines, active lime production lines, blast furnace slag/ steel slag/ nickel slag grinding plants, and its products are sold to more than 50 countries and regions in Southeast Asia, Central Asia, South Asia, North America, South America and Europe.

Our long-term strategic partners: Arcelor Mittal, Tata Group, Pohang Iron and Steel Company, Germany CCE, Japan Chiba ,

Shanghai Baosteel , Voestalpine and ASGT

**CHALLENGE**  
GREAT-WALL MACHINERY CORPORATION