



The Inevitable Choice of Cement/concrete Enterprise to Promote Strength & Reduce Cost

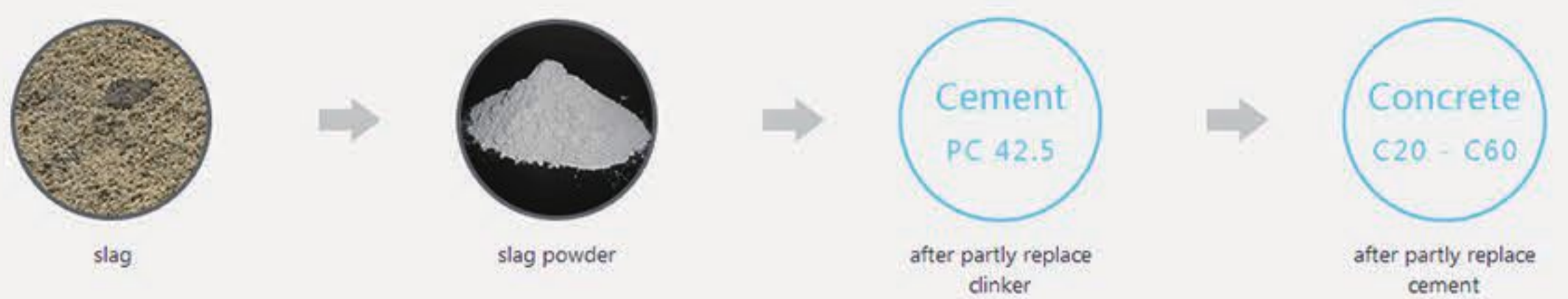
The application of productive benefit analysis project performance Service advantage Online Message



Slag Portland cement become the international trend in the future

According to relevant data show that for nearly 10 years, the world's cement powerhouses Germany, Switzerland and other countries of the cement industry rising strength of cement, clinker usage amount general trend of decline. Future development trend of cement in Germany is still the traditional Portland cement is mixed with slag, fly ash, shale, pozzolan, limestone sintering type II of low clinker cement varieties of replaced.

Application — GGBS is necessary mixed material of large cement enterprise



Slag powder is a superior performance of concrete admixture. mixed with slag powder in cement production can improve the cement strength of 28 d 15% - 20%. 42.5 level of cement configuration. Mixed with slag powder in concrete production can replace 10 - 50% of cement. [Read more >>](#)

Currently, tangshan jidong cement, and a number of large cement plant in henan meng electricity cement used in slag powder as cement mixed material, and greatly reduce production costs, improve the comprehensive performance and concrete in the late strength of cement has obtained the good effect.

Productive Technology — Vertical roller mill: the best choice of the slag powder production



Vertical mill and ball mill process contrast

system scheme	ball mill	vertical roller mill
system power consumption(kWh/t)	80	38
Ratio of water to dry(%)	10(Seperate drying)	20(drying in mill)
Adaptability of granularity	bad	good
The main reasons influencing operation rate	To run a certain cycle ball to remove iron slag	Roller and plate lining repair after abrasion.
large-scale	difficulty	easy



Significant energy saving effect of vertical mill machine will replace grinding ball mill energy consumption is too large

An annual output of 600000 tons of vertical mill system in ball mill system energy saving: 42kWh/t X 600000 T= 25.2millionkWh

Vertical mill grinding system covers an area of about 70% of the ball mill system, lower construction costs

Compared with ball mill system, vertical grinding machine has an obvious advantage in mineral powder metal recycling, vertical mill tons of ore powder metal recovery was 0.2-0.3%, ball mill is 0; With an annual output of 600000 tons of ore powder line, recycled scrap is about 1200-1800 tons/year



Ore than ball mill in the production of uniform particle size distribution, good liquidity

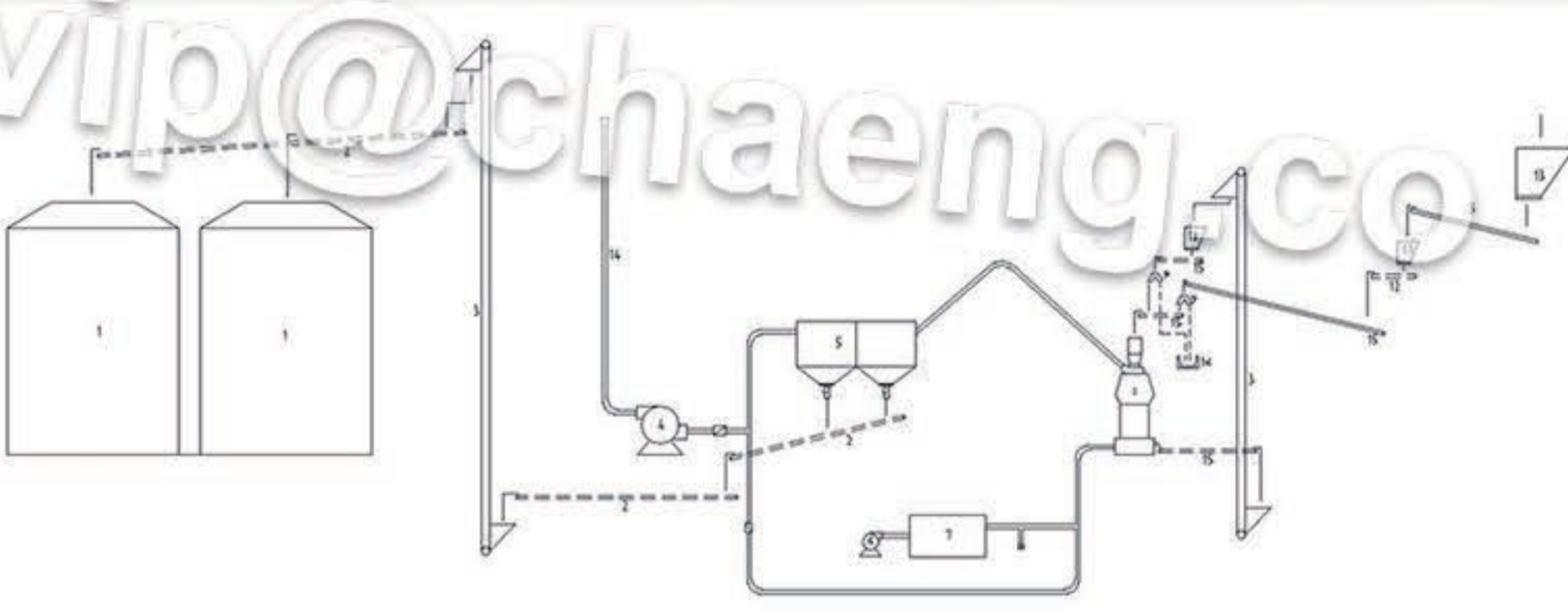
Vertical mill system revealed the specific surface area of 430 m squared/kg. kuangfen activity can achieve maximum play to 28 days

Learn from henan meng electricity experiment data, incorporating mineral powder can improve the cement strength of 28 d 15% 20%

Conclusion

1. Vertical mill grinding system in lower production costs, energy conservation and consumption reduction, kuangfen quality, etc. are better than that of the ball mill system.
2. Vertical mill grinding system produces the type of product will win ball mill in terms of quality and price system in the production of mineral powder, its kuangfen huge competitive advantage would be preferred in cement plant, mixing station and other purchasers of best-selling products.

"Great Wall machinery slag powder production line process diagram"



With slag storage and transport, slag by motor transport into the factory, the discharge hopper, belt conveyor into the slag heap tent constant feeder measurement by belt conveyor after delivery directly to the slag vertical grinding machine, electromagnetic iron remover and belt conveyor set in addition to iron. Slag powder grinding and storage, wet slag by quantitative feeding and measurement directly into the roller mill by belt conveyor after feeding mouth, after drying and grinding of slag powder, after long bag pulse dust collector to collect by belt transport chute, winding machine into the slag powder library.

The Great Wall, slag vertical mill process of three unique advantages



- 1 System power consumption is less than 43 KWH/t, in line with the national energy conservation and emissions reduction, reduce the production cost
- 2 The introduction of Japan's UBE UBE vertical mill technology, stable performance, high output, cover an area of an area small
- 3 Optimize the grinding way, with the best specific surface area and particle size distribution, the slag activity of maximum play

Slag Vertical Mill Technical Data sheet [Click here to view more products information](#)

Model and specification	diameter of millstone D(mm)	median diameter of roller D(mm)	quantity of roller n	standard installed power P(kW)	Standard ability(t/h)
GRMS26.21	2600	1600	2	1000	30
GRMS33.31	3300	1700	3	1600	45
GRMS35.41	3500	1800	4	1800	60
GRMS40.41	4000	1900	4	2240	70
GRMS43.41	4300	2120	4	2800	90
GRMS46.41	4600	2240	4	3150	90
GRMS48.41	4800	2240	4	3550	125
GRMS50.41	5000	2360	4	3800	140
GRMS53.41	5300	2500	4	4200	150
GRMS56.61	5600	2500	6	5000	160

Benefit Analysis — Great Wall machinery yearly produces 600000 tons of slag powder production line



The Great Wall of xinxiang machinery annual output of 600000 tons of ore powder production line running parameter

Design production capacity(t/h)	90
Actual production capacity(t/h)	105
model	GRMS46.41
Finish fineness(m ² /Kg)	430
Single mill power consumption(kWh/t)	28.5
System power consumption(kWh/t)	37
Metal recovery rate of one tone slag(%)	0.2-0.3

The mineral powder production line adopts the totally enclosed design, green environmental protection, by the end of 2013, the whole system runs stably, without any fault.

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Investment return

Project	index	actual motion
commissioning date	commissioning date	april,2011
	total investment	50million
cost account	cost of raw material	70 yuan/t
	Production costs (including wages, electricity, coal, maintenance fees, cost of sales, etc.)	50 Yuan
profit calculation	Price	160 yuan/t
	profit per ton	30 yuan/t
	annual profit	30x60million=1800million
economic benefit	2 years and 10 months recycling all investment (now in a state of pure profit)	
	Specific surface area	430 m ² /kg
The quality of slag powder	7 d activity index	Can reach 100%
	activity index	Achieve GGBS national standard S95 level above
Product Sales	Product sales in xinxiang, shangqiu, zhangcheng, etc.	

The Great Wall machinery yearly produces 600000 tons of ore qual inspection report

inspection unit	Henan built courtyard building materials inspection co., LTD
Inspection unit address	Zhengzhou hongqi road no. 34 (henan building materials research and design institute)
The sample name	used in the cement and concrete in grinding of blast furnace slag powder
entrusting party	xinxiang great wall slag powder co.,ltd
Entrust unit address	Gaoyville (xinxiang) town, Huixian City
production unit	xinxiang great wall slag powder co.,ltd
sample size	5KG
The sample status	gray mealy
Sample grade S95	S95
Sample submission date	Deliver date on June 15, 2011
Test Date	Inspection date on June 15, 2011
inspection item	Density, specific surface area, activity index, fluidity ratio, water content, sulfur, chlorine ion trichloride, ignition loss
Test according to	GB/T18046-2008
Conclusion	The qualified all items

Project Performance — The Great Wall machinery more than 40 slag powder production line case presentation

Case Recommended Great Wall machinery ore powder production line

- 1.5 Million t/a GGBS Plant of Baosteel Group Corporation
- 600,000 t/a GGBS Plant of Hottyan Building Materials Co., Ltd.
- Great Wall Machinery GGBS Plant with 600,000 t/a Capacity
- 600,000 t/a GGBS Plant for Xingji Gangxin Cement Co., Ltd.

Case Video

Xinxing Cement Plant Two GGBFS Productio...

Cement plant Steel plant GGBFS plant Grinding station

Great Wall Machinery benefit services — Three "Three" service

<p>Let customers choose assured</p> <p>Supplier of roller for Denmark FLSmidth</p> <p>With independent steel casting factory, shorting the delivery date.</p> <p>Partner of Shanghai Bao Steel for the steel slag production line.</p> <p>With Chinese famous auxiliary engine, quality guaranteed.</p>	<p>Let customers use assured</p> <p>With the sample slag powder production line, provide the online training.</p> <p>Provide EPC turnkey service</p> <p>Free test slag materials, provide project drawing</p> <p>Provide slag powder policy, ensure the high quality</p> <p>Design and manufacture products according to customers' require</p> <p>Design the place in site, design best process and scheme.</p>	<p>Allow customers to make money comfortable</p> <p>Repair and welding accessories for many years to provide services</p> <p>Free on-site service within a year</p> <p>365 days no holiday Customer Service</p> <p>Online 24 hours service</p>
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