



阿塞拜疆HOLCIM项目 The Holcim Project in Azerbaijan

THE HOLCIM PROJECT IN AZERBAIJAN



▲ 阿塞拜疆国旗
Flag of Azerbaijan



▲ 项目所在位置
Project Location

工程技术特点:

引入了先进的ECI850总线设计，电能管理IEC新标准规约得到成功应用；现场IO的应用 有效地 降低了布线的成本，应用更加灵活；全厂所有的大型电机均采用了变频技术，成为节能减排的典范；燃料系统完全采用欧洲ATEX标准设计；设备供货采用CE和GOST两种认证标准；天然气、煤、石油焦多种燃料混烧；土建设计使用欧洲和当地（GOST/SNiP）两种标准。

Engineering and technical characteristics:

The advanced ECI850 bus design is introduced, the new standard of IEC Statute for power management has been successfully applied; application of the field IO effectively reduces the cost of wiring, this application is more flexible; all large motors of the whole plant are variable frequency motors, this action is a pretty good model of the energy saving; fuel system is completely designed with the European ATEX standard; equipment supply is adopted with CE and GOST certification standards; natural gas, coal, petroleum coke are multi-fuel fired; the European and local (GOST / SNIP) standards are used for civil engineering design .



▲ 项目全景
Complete picture of project

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1、项目概况 Project Overview

阿塞拜疆Holcim水泥生产线总承包项目位于巴库市西南34公里处。投资商是瑞士Holcim公司。该项目是在现有的卡拉达戈水泥厂(Garadagh)原址新建一条日产4000吨熟料的干法水泥生产线，取代原有的4条日产650吨湿法生产线，以降低能耗和空气污染。该厂建成投产后水泥产量占阿水泥销售市场50%以上份额。2008年9月，项目签署总承包协议。由中材集团旗下的原中材建设有限公司负责项目的建设、设备采购和安装调试。2011年12月，该项目成功点火。

该项目建成投产以后水泥产量占阿水泥销售市场50%以上份额；项目建设物资运输多国多次中转，采用全方位海运、内陆运输；施工作业“本土化”。

The Holcim New Dry Kiln 6 Project in Azerbaijan locates at 34 km southwest of Baku. This project is EPC. The investor is Holcim in Switzerland. The project is a 4000 tons p/d dry process cement production line which is built at the location of the Garadagh Cement Plant, and replaces the original 4 wet process production lines with capacity 650 tons p/d to reduce energy consumption and air pollution. Productions of this project account for more than 50% of Azerbaijan market after it's completed. In September 2008, the EPC agreement was signed for the project. SINOMA is responsible for construction, equipment procurement, installation and commissioning. In December 2011, the project was successful fired.

Productions of this project account for more than 50% of the Azerbaijan cement sales market ; the productions are transported to several countries with repeated transit and full range of shipping, inland transportation; construction operations is "localized".



▲ 项目签字仪式
Project signing ceremony



▲ 烧成系统建设
Construction of firing system



▲ 窑尾收尘器
Kiln inlet dust collector



▲ 原料库建设
Construction of raw material silo



▲ 项目吊窑
Craning kiln

2、项目建设节点 Project Milestone

- 2008年9月9日，合同签字仪式
- 2009年3月，现场临建开始施工
- 2010年1月，首批设备运抵
- 2010年3月，设备安装开始施工
- 2011年6月，熟料线主机设备安装完成
- 2011年10月，熟料线主体安装完成
- 2011年11月，熟料线安装工作全部完成
- 2011年12月，回转窑顺利点火
- 2012年5月，熟料线性能测试完成

- September 9th, 2008 Contract signing ceremony
- March, 2009 Temporary Works started
- January, 2010 First shipment arrived
- March, 2010 Equipment installation started
- June, 2011 Installation of main equipments of clinker line completed
- October, 2011 Installation of the main parts of clinker line completed
- November, 2011 Installation of clinker line completed
- December, 2011 Rotary kiln fired
- May, 2012 Performance test of clinker line completed

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3、主机设备详表 Host Device

序号 No.	车间名称 Workshop Name	主机名称 Main Equipment	型号 规格 性能 Model Specification Property	数量(台) Quantity	功率(Kw) Power
1	石灰石预均化堆场 Limestone preblending bed	圆形堆取料机 Round stacker & reclaimer	堆料能力Stacking capacity:1500t/h 取料能力Reclaiming capacity:350t/h	1	85.16 107.95
2	原料粉磨及废气处理 Raw material grinding and waste gas treatment	立式磨 Vertical mill	型号Type: LM48.4 生产能力Capacity: 360 t/h	1	2415
		原料磨风机 Raw mill fan	风量Blowing rate: 718642m ³ /h 全压Total pressure: 12000Pa	1	3400
		窑尾高温风机 Kiln inlet high-temperature fan	风量Blowing rate: 726000m ³ /h 全压Total pressure: 7200Pa	1	2300
		窑头窑尾废气处理袋收尘 Kiln waste gas treatment dust collector	处理风量Blowing rate:465000-540000m ³ /h 过滤面积Filtering area: 9168m ² 出口含尘浓度Dust concentration of export: ≤30mg/Nm ³	1	
		废气处理风机 Waste gas treatment fan	风量Blowing rate: 635000m ³ /h 全压Total pressure: 3500Pa	1	900
3	煤粉制备 Pulverized coal preparation	立式磨 Vertical mill	型号Type: LM 28.2D 生产能力Capacity: 26t/h(Coal), 21t/h(Pet Coke)	1	560
		煤磨袋收尘 Coal mill dust collector	处理风量Blowing rate: 115000m ³ /h 过滤面积Filtering area: 1929m ² 出口含尘浓度Dust concentration of export: ≤30mg/Nm ³	1	
		煤磨风机 Coal mill fan	风量Blowing rate: 130316 m ³ /h 全压Total pressure: 10500Pa	1	500
4	烧成系统 Firing system	回转窑 Rotary kiln	规格Type: φ 4.8 × 72m 生产能力Capacity: 4000t/d	1	800
		预热器及分解炉 Preheater and calciner	采用DDF分解炉Five-stage preheater and SNCR calciner 生产能力Capacity: 4000t/d	1	
		篦式冷却机 Grate cooler	篦床面积Area of grate bed: 92.4m ² 生产能力Capacity: 4000t/d	1	212.49

4、高层关注 Top focus



▲ 阿副总理来中材集团访问
Azerbaijan vice president's visit



▲ 我驻阿大使参加项目奠基
The ambassador of Chinese embassy in Azerbaijan attended the project foundation ceremony.

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