



匈牙利NOSTRA项目 Hungary NOSTRA project

天津水泥工业设计研究院有限公司

Tianjin Cement Industry Design & Research Institute Co.,Ltd.

HUNGARY NOSTRA PROJECT

匈牙利NOSTRA项目 **Sinoma**
中国中材



▲ 匈牙利国旗
Flag of Hungary



▲ 项目所在位置
Project location

工程技术特点:

全部的设计及设备供货和噪音、粉尘、及NO_x、SO_x排放，均符合欧洲各项技术规范、健康安全和排放要求；钢结构设计采用3D建模设计，制作和安装的效率大幅提升；预热器系统能焚烧废弃工业垃圾和焚烧固体废弃物；结构建筑采用了大量的欧化设计，外装修材料的大范围应用，工厂呈现景观建筑效果。

Engineering and technical characteristic:

All the design, equipment supply and discharge of noise, dust and NO_x & SO_x comply with the European technical standard, safety requirements and discharge standards. The design of steel structure is based on the 3D modeling which increases efficiency for the fabrication and erection of the steel structure. The industrial wastes can be burned in the preheater system; the facility has been built with a unique architecture and the latest technology, making it the most modern cement factory in Europe and enabling the manufacture of the highest-quality, environmentally friendly and innovative cements.



▲ 项目外景图
Project aerial

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1、项目概况 General situation of the project

匈牙利2500TPD水泥生产线项目位于匈牙利南部城市佩奇市西约20公里处。拉法基集团和STRABAG集团共同投资。中国中材旗下的原中材建设有限公司采用EP总承包方式负责整个项目设计、设备供货和运行调试。该项目日产水泥熟料2500吨，年产水泥100万吨。该项目合同于2008年5月正式生效启动，2011年2月点火投产，7月12日业主颁发PAC证书，9月15日举行竣工典礼。匈牙利NOSTRA项目是中材集团在欧洲承揽的第一个大型EP项目。

该项目实现了对发达国家设备技术替代劳动力出口；在欧洲指导外国人作业的大型EP项目，建成后被当地媒体称为“世界最美丽的水泥厂”。

Nostra 2500 TPD project in Hungary is a typical EP project which is situated about 20 km from Pecs city. Invested by Lafarge Group and Strabag Group together, Sinoma is obligated to design, procure, fabricate and commission the cement plant with a capacity of 750.000,- tons clinker /year and approximately 1 million tons cement/year. The contract was signed in May 2008 and first clinker was produced in February 2011. The provisional acceptance certificate was issued on 12th July 2011 and the plant is inaugurated on 15th September, Hungary Nostra project is the first EP project in Europe constructed by Sinoma, which was constructed under the supervision of Chinese engineers. Nostra Cement Plant is named as the most beautiful cement plant in the whole world.



▲ 项目签字仪式
Contract Signature



▲ 项目建设过程中的现场
Site during construction

2、项目建设节点 Project Milestones

- 2008年4月8日，合同签字仪式
- 2009年5月，首批设备运抵
- 2009年6月，设备安装开始施工
- 2011年2月，水泥磨系统主体安装完成
- 2010年5月，熟料线主机设备安装完成
- 2010年7月，熟料线主体安装完成
- 2011年4月，安装工作全部完成
- 2011年2月12日，回转窑顺利点火
- 2011年7月12日，获得PAC证书
- 2011年12月23日，获得FAC证书
- April 8th 2008: contract signature
- May 2009: 1st shipment of equipment arrival on site
- June 2009: start of equipment erection
- May 2012: completion of main equipments erection in clinker line
- July 2010: completion of the equipments erection of clinker line
- February 2011: completion of equipments erection of cement mill system
- April 2011: completion of all the erection works
- February 12th 2011: first clinker
- July 12th 2011: provisional acceptance certificate
- December 23rd 2011: final acceptance certificate

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3、主机设备详表 Host device enumeration

序号 item	车间名称 workshop	主机名称 main machine	型号 规格 性能 type/size/capab.	数量 (台) Qty (unit)	功率(Kw) Power (Kw)
1	混合料预均化堆场 Raw Material Storage	堆取料机 Stacker/reclaimer	堆料能力stack: 1000t/h 取料能力reclaim: 300t/h	各1 One unit respectively	200 55
2	原料粉磨 及废气处理 Raw material grinding and exhaust gas treatment	立式磨 Vertical mill	型号type: LM 38.4 生产能力capacity: 200t/h	1	1700
		原料磨风机 Fan for raw mill	风量Flow volume: 394500m ³ /h 全压Full load: 10957Pa	1	1700
		窑尾高温风机 Kiln inlet hi-temperature fan	风量Flow volume: 465000m ³ /h 全压Full load: 7960Pa	1	1700
		窑尾废气处理袋收尘 Kiln outlet and inlet exhaust gas treatment bag filter	处理风量Flow volume treated: 370000m ³ /h 过滤面积Filt area: 71.25 x 8m ² 出口含尘浓度outlet dust density: ≤20mg/Nm ³	1	
		废气处理风机 Fan for Exhaust gas treatment	风量Flow volume: 407000m ³ /h 全压Full load: 3685Pa	1	560
3	煤粉制备 Coal grinding and preparation	立式磨 Vertical mill	型号type: 19.2 生产能力capacity: 18t/h(Coal), 13t/h(Pet Coke)	1	260
		煤磨袋收尘 Bag filter for coal mill	处理风量Flow volume treated: 49600Nm ³ /h 过滤面积Filt area: 1033m ² 出口含尘浓度outlet dust density: ≤20mg/Nm ³	1	
		煤磨风机 Fan for coal mill	风量Flow volume: 54560 m ³ /h 全压Full load: 9500mbar	1	200
4	烧成系统 Burning zone	回转窑 Rotary kiln	规格size: φ 4 × 60m 生产能力capacity: 2500t/d	1	450
		预热器及分解炉 Preheater and precalciner	采用5级单系列预热器: single serial 5stages system and precalcining kiln system: 生产能力capacity: 2500t/d	1	
		篦式冷却机 Cooler	篦床面积Area of Grating bed: 61.3m ² 生产能力capacity: 2500t/d	1	
5	水泥磨系统 Cement mill system	立式磨 Vertical mill	型号type: LM46.2+2 生产能力capacity: 130t/h	2	3000
		水泥磨袋收尘 Bag filter for cement mill	处理风量Flow volume treated: 420000m ³ /h 过滤面积Filt area: 7700 m ² 出口含尘浓度outlet dust density: ≤20mg/Nm ³	2	
		水泥磨风机 Fan for cement mill	风量Flow volume: 457600 Bm ³ /h 全压Full load: 7800Pa	2	1500

4、高层关注 Top focus



▲ 项目员工与到访的国家副主席习近平合影
Photo of project staff with the vice President of PRC Mr. Xi Jinping

5、友好往来 Friendly exchanges



▲ 当地文化交流中, 请外宾品尝中国饺子
During the local culture exchange, the foreign guests tasted Chinese traditional food—dumplings.



▲ 佩奇市市长到访
The Mayor of Pecs City visited the project.

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