

焦作金鑫恒拓新材料股份有限公司 参观手册

Visiting Guide Manual of Jiaozuo JinXin HengTuo Advanced Materials Co.,Ltd

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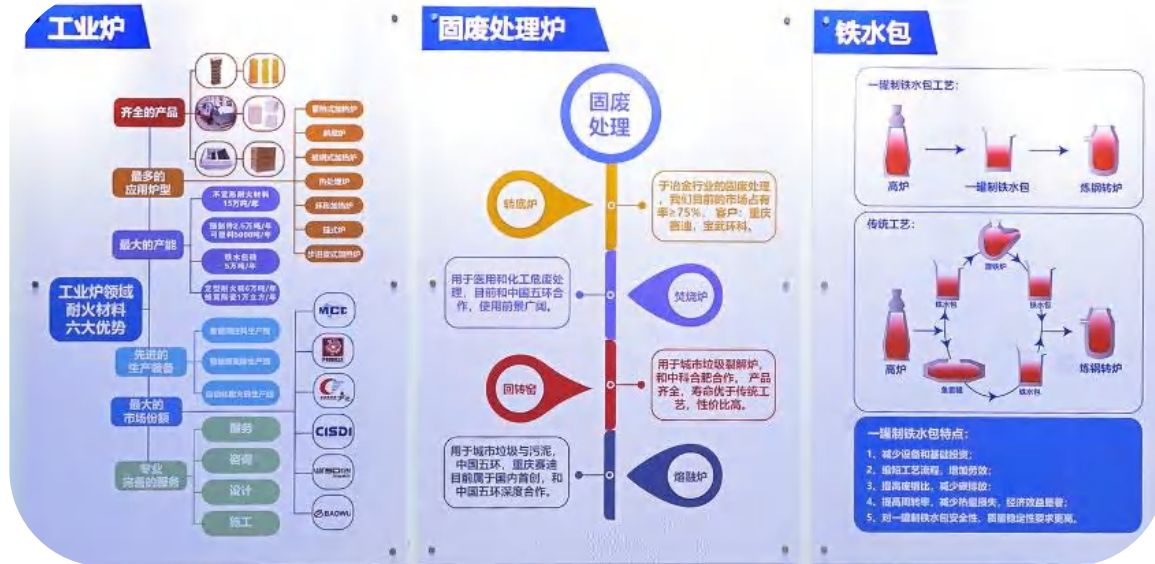
公司简介 Introduction



焦作金鑫恒拓新材料有限公司，是中国知名的耐火材料制造商，产品广泛应用于工业加热炉、炼钢与炼铁、烧结球团以及固体废物处理炉等领域。注册资本10058万元人民币。

Jiaozuo Jinxin Hengtuo Advanced Materials Co.,Ltd is a well-known manufacturer of refractory materials such as industrial re-heating furnaces,steelmaking and ironmaking, sintering pellets, and solid waste treatment furnaces in China, with a registered capital of 100.58 million RMB.

销售网络 Sales Network



自2011年起，公司专注于国内外高端耐火材料市场，产品包括废钢熔化炉炉衬捣打料、一罐制铁包砖、大型高炉铁沟浇注料、固体废物处理炉浇注料、有色金属铝熔化炉、镍铁回转窑等行业的耐火材料。

Since 2011, the company has been targeting the domestic and international high-end refractory material market, such as furnace lining ramming mass for scrap steel melting furnaces, bricks for one-stop of iron ladle, cast house castable for large blast furnaces, castable for solid waste treatment furnaces, non-ferrous aluminum melting furnaces, nickel iron rotary kilns, and other industries.

团队介绍 Team Introduction



公司目前拥有专家团队，包括博士后1名、博士4名、硕士12名、专业高级工程师8名以及中级工程师28名。

Our company currently employed 1Post PHD, 4PHD, 12 master's degrees, 8 professional senior engineers, and 28 intermediate engineers as for the expert teams.

电竞室 SEM Room



主要设备：扫描电子显微镜（SEM）

主要功能：通过电子束扫描样品表面成像，提供高分辨率三维形貌观察，用于材料表面形貌、微区成分及断口分析。

Major equipments:

Scanning Electron Microscope (SEM)

Major function:

Scans an electron beam across the sample surface to provide high-resolution three-dimensional topography, enabling analysis of surface morphology, micro-region composition, and fracture surfaces.

衍射室 XDR Room



主要设备：X射线衍射仪（XRD）

主要功能：通过X射线与晶体相互作用产生的衍射图案，分析材料的晶体结构、物相组成及微观应力，用于物相鉴定和结构表征。

Major equipments :

X-ray Diffractometer (XRD)

Major function:

Analyzes a material's crystal structure, phase composition, and micro-stress by generating diffraction patterns produced by the interaction of X-rays with crystals, enabling phase identification and structural characterization.

荧光分析实验室 Fluorescence Analysis Lab



主要设备：快速熔样炉、X射线荧光光谱仪

主要功能：样品化学元素的定性与定量分析

Major equipments :

Rapidly melting furnace, X-ray fluorescence spectrometer

Major function :

Qualitative and quantitative analysis of chemical elements on the sample

化学分析实验室 Chemical Analysis Lab



主要设备：滴定仪、气孔体密测定仪

主要功能：开展耐火材料化学成分定量分析及物理性能（如气孔率、体积密度）检测，把控材料质量。

Major equipments:

Titration, Porosity & Bulk Density Analyzer

Major function:

Conduct quantitative chemical analysis of refractory materials and test physical properties (such as porosity and bulk density) to control material quality.

熔样炉 Melting Furnace



主要设备：箱式马弗炉、电热鼓风干燥箱

主要功能：样品干燥与高温处理

Major equipments :

Box muffle furnace, electric blast drying oven

Major function:

Sample drying and high-temperature working

煅烧实验室 Calcination Lab



主要设备：高温炉

主要功能：样品高温性能测试

Major equipments :

High temperature furnace

Major function:

Sample high temperature performance

高温性能试验炉 High Temperature Testing Furnace



主要设备：高温抗折试验机、荷重软化温度试验机、抗热震性试验机

主要功能：测定样品在高温下的性能

Major equipments :

HTMOR、Refractoriness under Load、Thermal shock Resistance

Major function:

Determine the sample performance at the high temperature

物理性能实验室 Physical Performance Lab



主要设备：抗折试验机、压力试验机

主要功能：测定热处理前后样品的物理性能

Major equipments :

Modulus of rupture Testing Machine/Compressive strength Testing Machine

Major function :

Determine the sample physical performance before and after the heat-treatment

粒度分析实验室 Particle Size Analysis Lab



主要设备：粒度分析仪

主要功能：测量耐火材料颗粒粒度分布，辅助质量控制与配方优化。

Major equipments :

Particle size analyzer

Major function:

Measuring the particle size distribution of refractory materials, assisting in quality control and formula optimization.

高温膨胀实验室 High-Temperature Expansion Lab



主要设备：高温膨胀试验仪

主要功能：测量耐火材料在程序升温过程中的线膨胀率、体积膨胀及软化变形等高温热膨胀性能。

Major equipments :

High-temperature expansion tester

Major function:

To measure the linear expansion rate, volume expansion, and softening deformation of refractory materials during programmed heating, as well as other high-temperature thermal expansion properties.

试样制备实验室 Sample Testing Lab



主要设备：试条模具、水泥搅拌机、振动台

主要功能：样品制备及初始状态测定

Major equipments :

Testing bar mold、Cement mixer、Vibro-stand

Major function :

Sample preparation and initial status determination

智能配料混料控制系统 Smart batching and mixing control system



该系统可分别储存骨料、粉料及添加料，并自动计量计数，能自动完成上料与补料计划，节省人工50%以上。

The system can store aggregates, powders, and added ingredients separately, and automatically measure and count them. It can automatically complete the feeding and replenishment plans which achieves for saving more than 50% of labor.

AGV (自动导引运输车) AGV (Automated Guided Vehicle)



中控室根据搅拌机实时工作信息，定时定点调动AGV叉车取料、运输至暂存区，同时根据暂存区物料缺货情况，调动AGV叉车运输物料至压力机，全面实现智能化、无人化作业。

The central control room conducts real-time work information based on the mixer, and regularly and fixedly mobilizes AGV forklifts to pick up and transport materials to the staging area. Meanwhile according to the material shortage situation in staging area, AGV forklifts are also mobilized to transport materials to the friction press, fully realizing intelligence and unmanned operation.

自动压制成型系统 Automatic pressing and molding system



半成品砖的压制、成型及视觉检测自动完成，满足连续生产、稳定质量和提高劳动效率的要求。

The pressing, molding and visual inspecting of semi-finished bricks are automatically completed to meet the requirements of continuous production, stabilizing quality, and improving labor efficiency.

识别与码垛系统 Identification and palletizing System



机器人自动识别合格产品并进行码垛，实现高效、精准、稳定、连续的生产。

The robotic automatically identifies and palletizes qualified products, enabling efficient, accurate, stable, and continuous production.

智能中央控制系统 Smart Central Control System



集成储存、运输、烧成和码垛的系统。所有生产指令均源自中央控制系统。

Integration system of storage, transport, kilning and palletizing. All the production orders originate from the central control system.

环保烧成系统

Environmentally-friendly kilning System



配备焚烧炉及烟气净化装置，一键操作，安全环保。自动编码入窑，快速便捷转运；自动检测编码出窑，自动转运定位，安全可靠。

Equipped with an incinerator and flue gas purification device, one click operation, safe and environmentally friendly. Automatic coding for entering the kiln, fast and convenient ferry, automatic detection and coding for exiting the kiln, automatic ferry positioning, safe and reliable.

码垛机器人 Palletizing Robot



采用3D成像定位技术和柔性吸盘抓取技术，堆垛速度快，效率高。
Adopting 3D imaging positioning technology and flexible suction cup grasping technology, the stacking speed is fast and the efficiency is high.

成品仓库 Inventory Warehouse



按厂家分区存放，产品信息清晰完整。

Place according to the manufacturer's partition, with clear and complete product information