

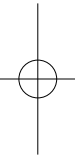
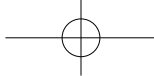
HEBEI
XINGGANG
TECHNOLOGY
CO., LTD.

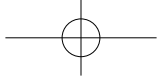
IRON & STEEL

河北邢钢科技

VER.2025

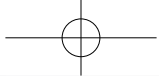






**HEBEI
XINGGANG
TECHNOLOGY
CO., LTD.**





董事长寄语

MESSAGE FROM
THE CHAIRMAN

铸大国重器，造中国名片。

助力中国制造迈向中国智造的新征程。

追风赶月莫停留，平芜尽处是春天，河北邢钢科技有限公司（以下简称邢钢科技）迈入新征程，我谨代表邢钢科技，向辛勤工作在各岗位的全体员工及其家属、向信任和支持邢钢科技的社会各界的朋友们，致以诚挚的问候和深深的谢意！

邢钢科技作为国内外知名的特钢企业，深入学习国家“十四五”发展规划和《中国制造2025》发展战略，恪守“做精、做专、做强，创造名牌产品；求精、求细、求实，满足客户需求”的质量方针，始终坚持“质量是生命，订单是市场，服务是信誉”的营销理念，追求“成就事业，回馈社会”的奋斗目标，倾力打造“创新、智能、绿色、低碳”为标志的世界一流特钢标杆企业，成为中国智造的新名片。

立足于目前的国内外特钢市场趋势，将邢钢科技发展成为国际领先的特钢企业是我们的发展愿景与方向。邢钢科技将不断研发适应市场需求的优质产品，以国内外尖端技术促进整体工艺装备升级，以优质产品为中国高端制造业提供支撑。邢钢科技将继续以坚持科学发展观，积极推进节能环保，构建企业与自然的和谐关系为己任。

我坚信，在国内外各界人士的关注和支持下，我们对邢钢科技未来的美好憧憬，都将成为现实！我们期待着与您在未来的事业中携手共进，精诚合作，互利共赢！

董事长-张育明

Forging Critical National Machinery, Crafting China's Global Signature.

Empowering the Journey from "Made in China" to "Intelligent Manufacturing

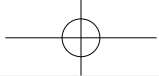
in China".

Without pausing in our relentless pursuit, beyond the vast plains lies the warmth of spring. As Hebei Xinggang Technology Co., Ltd. (hereinafter referred to as "Xinggang Technology") strides into a new chapter, I, on behalf of the company, extend sincere greetings and profound gratitude to all employees working diligently at their posts, to their families, and to friends from all sectors of society who have placed their trust and support in Xinggang Technology.

As a renowned special steel enterprise both domestically and internationally, Xinggang Technology has thoroughly studied the national "14th Five-Year Plan" development guidelines and the "Made in China 2025" strategy. We steadfastly adhere to our quality philosophy of "Achieving refinement, specialization, and strength to create branded products; pursuing excellence, meticulousness, and pragmatism to satisfy customer needs." Upholding the marketing belief that "Quality is our lifeblood, orders define our market, and service builds our reputation," we strive toward the objective of "Building a successful enterprise and contributing back to society." We are dedicated to establishing a world-class benchmark in the special steel industry, distinguished by "innovation, intelligence, green development, and low-carbon footprint," thereby becoming a new emblem of Intelligent Manufacturing in China.

Grounding our vision in current global special steel market trends, our goal is to develop Xinggang Technology into an internationally leading enterprise in this sector. We will continuously develop high-quality products that meet market demands, leverage cutting-edge technologies from around the world to upgrade our overall production processes and equipment, and use our superior products to bolster China's high-end manufacturing industries. Xinggang Technology remains committed to applying a scientific development approach, actively advancing energy conservation and environmental protection, and fostering a harmonious relationship between enterprise and nature.

I am firmly convinced that with the attention and support of partners both in China and abroad, our aspirational vision for Xinggang Technology's future will be realized. We look forward to joining hands with you in future endeavors, cooperating with full sincerity for mutual benefit and shared success!



总经理寄语

MESSAGE FROM THE GENERAL MANAGER

河北邢钢科技有限公司（以下简称邢钢科技）是邢台钢铁有限责任公司在威县的转型升级搬迁改造项目中的唯一实施主体。邢钢科技总投资约 132 亿元，占地面积约 3271 亩。邢钢科技一直致力于建设成以“创新、智能、绿色、低碳”为标志的世界一流特钢标杆企业。

邢钢科技努力践行“专精特新”战略，采用“氢基熔融还原 + 电炉”短流程工艺，自主研发高强度耐热钢、免退火冷镦钢、高强度耐延迟断裂钢、耐低温高强钢和高强度桥梁缆索用钢等 10 大系列高精尖品种，实现进一步进口替代，打破国外特钢市场垄断，为我国高端制造提供关键技术和原料支撑。

作为建设技术领先、管理卓越、环境友好的现代化优特钢精品生产基地，邢钢科技始终把人才视为企业的生存之本、竞争之本、发展之本，致力于为优秀人才提供转型发展的机遇和施展才华的平台，增加高新技术人才的引进，加强技术人员的专业培养，实现专业技术人员的比例达到 40% 以上，研发投入比例占到总营业额的 10% 以上。

邢钢科技将继续坚持以用户为中心、以服务为引领的理念，为国内外市场提供特钢综合解决方案和产业链技术专业服务的。过往的积累必将成为我们未来参与竞争、战胜一切困难、不断攀登高峰的宝贵财富。伴随着中国智造这一新征程的不断推进，邢钢科技的发展必将翻开崭新的一页！同时，邢钢科技热诚欢迎国内外各界朋友的交流合作，为成为中国名片砥砺前行！

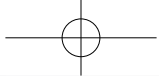
总经理-彭世丹

Hebei Xinggang Technology Co., Ltd. (hereinafter referred to as "Xinggang Technology") is the sole implementing entity for the transformation, upgrading, relocation, and renovation project of Xingtai Iron & Steel Co., Ltd. in Weixian County. With a total investment of approximately 13.2 billion yuan and covering an area of about 3,271 mu, Xinggang Technology is committed to building itself into a world-class benchmark enterprise in the special steel industry, marked by "Innovation, Intelligence, Green Development, and Low Carbon."

Dedicated to implementing the "Specialization, Refinement, Differentiation, and Innovation" strategy, Xinggang Technology adopts the short-process route of "Hydrogen-based Smelting Reduction + Electric Arc Furnace." It has independently developed ten major series of high-end, precision, and advanced products, including high-strength heat-resistant steel, annealing-free cold heading steel, high-strength delayed fracture-resistant steel, low-temperature resistant high-strength steel, and high-strength steel for bridge cables. These achievements further promote import substitution, break foreign monopolies in the special steel market, and provide critical technological and raw material support for China's high-end manufacturing sector.

As a modern, high-quality special steel production base characterized by technological leadership, excellent management, and environmental friendliness, Xinggang Technology consistently regards talent as the foundation for its survival, competitiveness, and development. The company is committed to providing outstanding professionals with opportunities for transformational growth and a platform to fully utilize their talents. It aims to increase the recruitment of high-tech talent, strengthen the professional development of technical personnel, achieve a proportion of specialized technical staff exceeding 40%, and maintain an R&D investment ratio of over 10% of total revenue.

Xinggang Technology will continue to adhere to a customer-centric and service-oriented philosophy, providing comprehensive special steel solutions and professional industrial chain technical services to both domestic and international markets. The experience accumulated over the years will undoubtedly serve as invaluable assets for facing future competition, overcoming challenges, and scaling new heights. As China's manufacturing sector advances on the new journey from "Made in China" to "Intelligent Manufacturing in China," Xinggang Technology is poised to turn a new chapter in its development. The company warmly welcomes exchanges and cooperation with friends from all sectors at home and abroad, striving diligently to become a shining name card for China!



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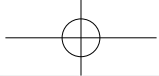
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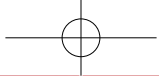
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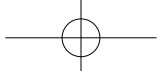
邢钢科技简介

XINGGANG
TECHNOLOGY
PROFILE



PART 1





邢钢科技 简介

XINGGANG TECHNOLOGY PROFILE



河北邢钢科技有限公司（以下简称“邢钢科技”），是邢台钢铁有限责任公司（以下简称“邢钢”）在威县实施转型升级、搬迁改造项目的唯一主体。

◎ 历史沿革

邢钢响应国家“高端特钢研发和品质升级”政策的具体实践，是全国制造业 500 强企业，是全国最大、品种最全的特钢线材专业化制造企业和线材深加工产业基地。

◎ 核心业务

邢钢科技主营业务涵盖高端冷镦钢、弹簧钢、轴承钢、纯铁等多种特钢线材的研发、生产和销售。

◎ 技术优势

坚持走做精、做专做强的专业化发展道路，秉承着专心专业、专注的严谨工匠精神，以科技持续推动产品升级与进口替代，自主研发多类高附加值特种钢并积极推进国内外权威认证，在工业特钢线材领域拥有着显著的技术优势和品牌效应。

◎ 企业愿景

面向未来，邢钢科技将继续立足高端特钢长材领域，深化科技创新与绿色转型，努力建造成以“短流程”为特色，“创新、智能、绿色、低碳”的国际特钢长材创新型引领企业，与客户共铸卓越，以共赢锚定未来。

Hebei Xinggang Technology Co., Ltd. (hereinafter referred to as “Xinggang Technology”) is the sole entity responsible for the transformation, upgrading, relocation, and modernization project of Xingtai Iron and Steel Co., Ltd. (hereinafter referred to as “Xingtai Steel”) in Wei County.

◎ Historical Development

It is Xingtai Steel's concrete response to the national policy of “high-end special steel R&D and quality upgrading.” As one of China's top 500 manufacturing enterprises, Xinggang Technology is the country's largest and most comprehensive specialized manufacturer of special steel wire rods and a leading deep-processing industrial base for wire rod products.

◎ Core Services

The core business of Xinggang Technology encompasses the research & development, production, and sales of a wide range of special steel wire rods, including high-end cold heading steel, spring steel, bearing steel, and pure iron.

◎ Technical Advantages

Committed to a development path focused on refinement, specialization, and strengthening, the company upholds a rigorous craftsmanship spirit characterized by dedication, expertise, and focus. By continuously advancing technology to drive product upgrades and import substitution, Xinggang Technology has independently developed multiple types of high-value-added special steels and actively pursued authoritative certifications both domestically and internationally. This has enabled the company to establish significant technological advantages and a strong brand presence in the industrial special steel wire rod sector.

◎ Corporate Vision

Looking ahead, Xinggang Technology will continue to anchor itself in the high-end special steel long products sector, deepening technological innovation and green transformation. The company is committed to building itself into an internationally pioneering leader in special steel long products, distinguished by its “short-process” approach and driven by the principles of innovation, intelligence, sustainability, and low-carbon development. Together with our customers, we strive to forge excellence and secure a shared future through mutual success.

中国工业用长材生产基地

可生产700多个钢种, 3000余种产品, 充分满足客户多品种、多规格、小批量、多频次的订货要求



国际知名的专业化特钢长材生产企业

铁水预脱硫、RH真空精炼、LF精炼、重压下大方坯技术的专家



率先实施三体系整合认证的钢铁企业之一

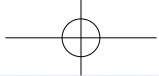


IATF16949 国际汽车质量管理体系
ISO45001 职业健康安全管理体系
ISO14001 环境管理体系



国内首批可生产 $\Phi 5.5\text{mm}-52\text{mm}$ 全规格组距优特钢线材和大盘卷生产企业 11 大类 40 余个品种获国家冶金产品实物质量金杯奖





河北邢钢销售 有限公司简介

HEBEI XINGGANG TECHNOLOGY SALES COMPANY PROFILE

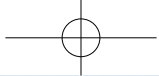
销售网络地图

SALES NETWORK MAP



河北邢钢销售有限公司（以下简称“邢钢销售公司”）成立于2025年9月，是邢钢科技响应国家“制造业与服务业深度融合”和“产业链向终端延伸”战略号召，全资设立的专业化销售服务子公司，也是邢钢科技所有优特钢线材、盘条的唯一直接销售主体和平台。

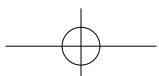
作为邢钢科技从“生产制造”向“制造+服务”转型的关键布局，邢钢销售公司以“链接钢铁价值，赋能客户成长”为核心使命，依托邢钢科技制造底蕴与产品优势，聚焦客户需求，提供从产品定制、供应链服务到技术解决方案的一体化服务，致力于成为钢铁产业链中“最懂制造的渠道专家”和“最懂需求的交付伙伴”。为极致满足客户需求，邢钢销售公司已在北京、上海、武汉设立分公司，旨在贴近市场、快速响应，提供更高效便捷的服务。

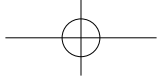


Hebei Xinggang Technology Sales Co., Ltd. (hereinafter referred to as "XG Sales Company") Established in September 2025, XG Sales Company is a wholly-owned specialized sales and service subsidiary established by Xinggang Technology in response to national strategic calls for "deep integration of manufacturing and services" and "extending the industrial chain to the terminal." It serves as the sole direct sales entity and platform for all of Xinggang Technology's premium special steel wire rods and coils.

As a key initiative in Xinggang Technology's transition from "manufacturing" to "manufacturing + services," XG Sales Company embraces the core mission of "Linking Steel Value, Empowering Customer Growth." Leveraging Xinggang Technology's manufacturing heritage and product advantages, the company focuses on customer needs to provide integrated services ranging from product customization and supply chain services to technical solutions. It is committed to becoming the "channel expert with the deepest manufacturing knowledge" and the "delivery partner with the deepest understanding of customer needs" within the steel industry chain.

To optimally fulfill customer requirements, XG Sales Company has established branches in Beijing, Shanghai, and Wuhan, aiming to stay close to the market, respond rapidly, and provide more efficient and convenient services.





发展历史

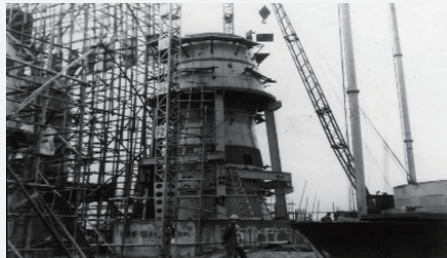
DEVELOPMENT HISTORY

◎ 1958

邢台钢铁厂成立。
Xingtai Iron and Steel Plant was established.

◎ 1970

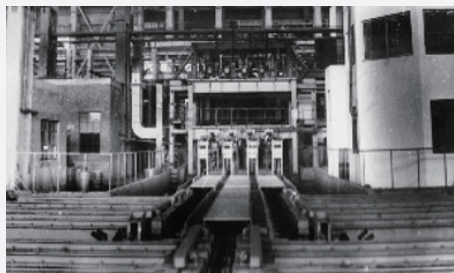
实施 7012 工程铁产量 30 万吨。
The 7012 Project was implemented, resulting in an iron output of 300,000 tons.



● 1958

◎ 1995

国内第一家转炉炼钢起步全连铸生产企业。
China's first basic oxygen furnace (BOF) steelmaker to adopt an all-continuous casting production model from the outset.



◎ 2000

第一条高速线材生产线建成投产,成为向高端线材专业化生产企业迈进的起点。

The first high-speed wire rod production line was completed and put into operation, marking the starting point of the company's transition toward a specialized producer of high-end wire rod products.



◎ 2002

精炼钢生产线投入生产,标志由普碳钢向优质品种钢的跨越。

The refined steel production line was commissioned, marking a leap from the production of ordinary carbon steel to high-quality specialty steel grades.



● 2000

◎ 2002

生产 $\varnothing 38\text{mm}$ 大盘卷一次成功,填补了国内生产大规格线材的空白。

The successful first-time production of a $\varnothing 38\text{ mm}$ large-size wire rod coil filled a domestic gap in the manufacture of large-diameter wire rod products.

◎ 2002

在北京投资建设的焊网生产线竣工投产,成功迈出了向线材延伸产业进军的第一步。

The welding mesh production line invested in and constructed in Beijing was completed and put into operation, successfully marking its first step into the wire rod extension industry.



◎ 2005

世界最先进的北京凯乐汽车冷成型件生产线、线材精制生产线投产。

The world's most advanced Beijing Kailer Automotive cold-formed components production line and wire rod finishing production line have been officially put into operation.



◎ 2006

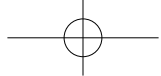
获国家人事部批准,邢钢博士后科研工作站正式设立。
Approved by the Ministry of Personnel, the Xing Steel Postdoctoral Research Workstation was officially established.

● 2005

◎ 2007

国内第一家长材生产中配备RH真空精炼炉。
Became the first long product producer in China to equip with an RH Vacuum Refining Furnace.





◎ 2011

不锈钢项目投产切割丝项目开工。

The stainless steel project has entered operation, while the cutting wire project has officially broken ground.



● 2010

◎ 2013

荣获中国质量管理的最高荣誉“全国质量奖”，成为当时唯一获此殊荣的钢铁企业。

Xing Steel was awarded the "National Quality Award," the highest honor in Chinese quality management, becoming the only steel enterprise to receive this award at that time.



◎ 2015

成功研发生产国内最大规格高速工具钢电渣锭，填补国内空白。

The successful developed and produced China's largest specification 600mm high-speed tool steel M2 (6542) electroslag ingot, filling a domestic gap.

◎ 2018

成功开发软磁易切削不锈钢填补国内空白。

The successful development of soft magnetic free-cutting stainless steel filled a domestic technological gap.

● 2015

◎ 2019

获国家科学技术进步一等奖，全国钢铁业 15 年来首获。

The First Prize of the National Scientific and Technological Progress Award, the first time a steel enterprise had received this top national honor in 15 years.



◎ 2023

邢钢科技项目开工，截至 2023 年已通过福特通用、本田、日产现代等合资，上汽、汽、东风、长安、长城吉利、小鹏等自主汽车品牌认证。

The Xingang Technology project has commenced. As of 2023, it has obtained certification from joint-venture automotive brands including Ford, General Motors, Honda, Nissan, and Hyundai, as well as domestic automakers such as SAIC, FAW, Dongfeng, Changan, Great Wall, Geely, and XPeng.



● 2020

◎ 2024

携手中国金属学会、上善院，在浙江嘉兴海盐县举办紧固件用钢高质量发展技术论坛。

Hands with the China Society for Metals and the Shangshan Institute to Host a High-Quality Development Technology Forum on Steel for Fasteners in Haiyan, Zhejiang.



◎ 2025

邢钢科技大盘卷生产线加热炉烘炉。

Heating furnace dry-out of the large-coil production line at Xingang Technology.



企业荣誉

CORPORATE HONOR

于时光中沉淀匠心，
在毫厘间追求极致。

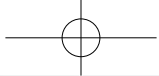
荣誉，是里程碑，更是新起点。

它记载着我们在毫厘之间对极致工艺的无数次打磨，也见证着将专注沉淀为行业标杆的每一个脚印。这些过往的璀璨，绝非终点，而是我们匠心传承的注脚，是面向未来、矢志创新的底气。

Crafted with dedication over time,
perfected to the utmost precision.

Honor is not only a milestone, but also a new beginning. It records our countless refinements in the pursuit of ultimate craftsmanship, measured down to the finest precision, and bears witness to every step by which focus and dedication have been forged into industry benchmarks. These past achievements are by no means an endpoint; rather, they stand as a testament to our enduring craftsmanship and the confidence with which we look to the future, committed to continual innovation.





30+ 项国家级以上荣誉

30+ NATIONAL HONORS

国家科学技术进步一等奖

全国钢铁业 15 年来首获
国际质量创新大赛一等奖

First Prize of National Science and Technology Progress Award

— This award was won by the Chinese steel industry in 15 years.

国家知识产权优势企业

有效专利 202 件, 发明专利 71 件

International Quality Innovation Award

National Intellectual Property Advantage Enterprise
— Holds 156 valid patents, including 50 invention patents.

全国质量奖

中国质量管理最高荣誉——

“全国质量标杆”称号

全国钢铁工业先进集体

中国 AAA 级信用企业

全国文明诚信示范单位

全国产品和服务质量诚信示范企业

National Quality Award

— The highest honor for quality management in China.

“National Quality Benchmark” Title National

Advanced Collective in the Iron and Steel Industry

China AAA Credit Enterprise

National Civilized and Credible Demonstration Unit

National Enterprise Demonstrating Integrity in

Product and Service Quality

40+ 项省级荣誉

40+ PROVINCIAL HONORS

高新技术企业

河北省政府质量奖

河北省在质量领域的最高荣誉——

河北省质量管理奖

河北省诚信企业

冶金科学技术奖

冶金产品实物质量“金杯奖”

河北省卓越班组建设标杆 / 先进单位

河北省质量创新活动标杆单位

河北省“双三十”减排工作优秀 / 先进集体

High-Tech Enterprise

Hebei Provincial Government Quality Award

— The highest honor in the field of quality in Hebei Province

Hebei Quality Management Award

Hebei Credible Enterprise

Metallurgical Science and Technology Award

Metallurgical Product Physical Quality

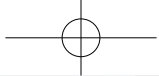
“Golden Cup Award”

Hebei Model/Advanced Unit in Excellence Team Building

Hebei Model Unit in Quality Innovation Activities

Hebei Outstanding/Advanced Collective in the

“Double Thirty” Energy Conservation and Emission Reduction Program



「专」

专业化特钢线材 生产企业

SPECIALISTS IN
SPECIAL STEEL LONG
PRODUCTS

核心产品 700 多个牌号, 3300
多个规格品种

OUR CORE PRODUCTS HAVE OVER 700
GRADES AND OVER 3,300 SPECIFICATIONS
AND VARIETIES.

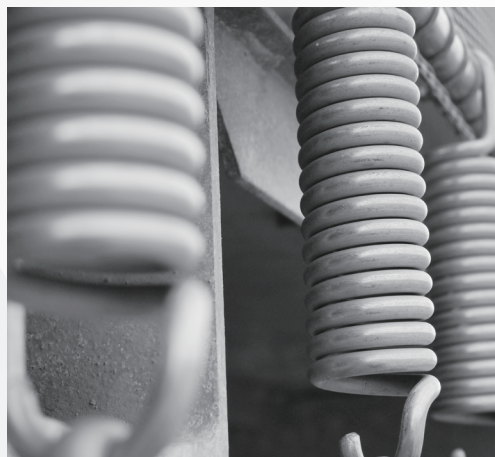
冷镦钢

COLD-ROLLED STEEL



弹簧钢

SPRING STEEL



轴承钢

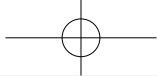
BEARING STEEL



工模具钢

TOOL AND DIE STEEL





被中国特钢企业协会评价为“国内最具竞争实力和发展潜力的特钢线材专业化生产企业”。

Xinggang Technology was rated by the China Special Steel Enterprises Association as "the most competitive and promising specialized producer of special steel wire rod in China."

纯铁

PURE IRON



帘线钢

CORD STEEL



机械结构用钢

STEEL FOR MECHANICAL STRUCTURES



预应力钢

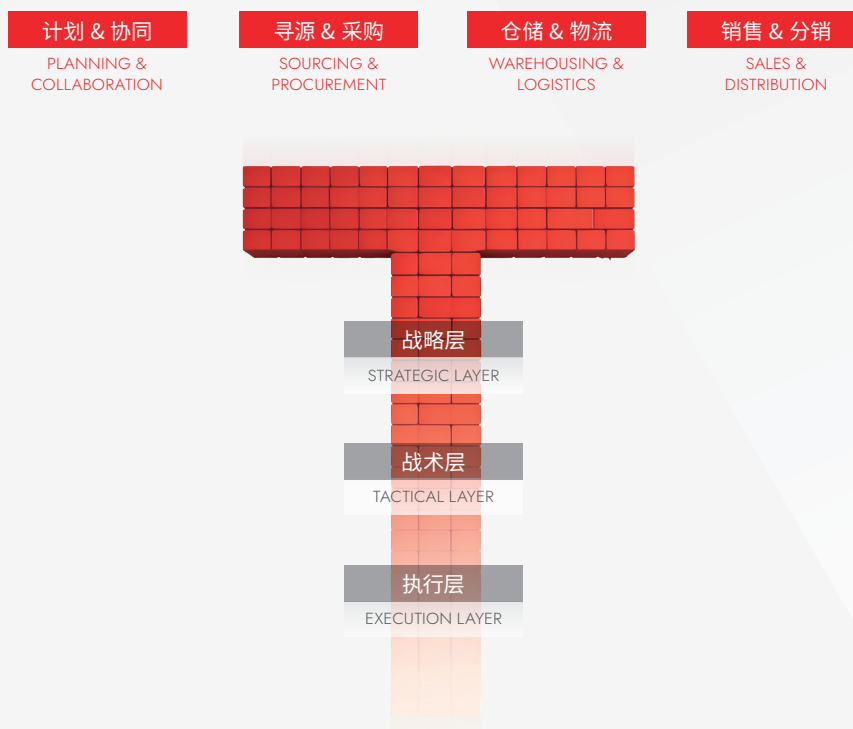
PRESTRESSED STEEL



「精」

管理精细化

EXCELLENCE IN MANAGEMENT



生产精益化

PROFICIENCY IN PRODUCTION

高效严谨的生产体系，实现全方位精细化、精益化管控。

精准交付：根据客户个性化需求，将质量要求、工艺参数下发到二级系统，直接驱动生产设施。

全过程动态优化：实时采集并分析工艺、质量、设备、环保数据，驱动持续优化。

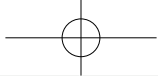
四大管控能力：实现成本自动归集、产品质量预测监控、设备预防性维护、环保设施有效管控。

An efficient and rigorous production system, achieving comprehensive refined and lean management and control.

Precise Delivery: Based on individual customer requirements, quality specifications and process parameters are issued to the Level 2 system, directly driving production facilities.

Whole-Process Dynamic Optimization: Real-time collection and analysis of process, quality, equipment, and environmental data to drive continuous optimization.

Four Major Control Capabilities: Enabling automatic cost allocation, predictive monitoring of product quality, predictive maintenance of equipment, and effective management of environmental protection facilities.



控制精准化

PRECISION IN CONTROL

主要技术指标及能力保障

KEY TECHNICAL INDICATORS AND CAPABILITY ASSURANCE

重点产品	尺寸精度	表面质量	内部质量	冷顶锻或机械性能	气体含量
KEY PRODUCTS	KEY PRODUCTS	SURFACE QUALITY	INTERNAL QUALITY	COLD UPSETTING OR MECHANICAL PROPERTIES	GAS CONTENT
高级冷镦钢 HIGH-GRADE COLD HEADING STEEL	C 级及以上 (或正公差)	脱碳层深度 $\leq 0.8\%D$; 缺陷深度 $\leq 0.03\text{mm}$	夹杂物 B、D ≤ 1.0 级; A、DS ≤ 0.5 级	冷顶锻 $\geq 1/3h$	T.O $\leq 0.0008\%$ N $\leq 0.0050\%$
轴承钢 BEARING STEEL	C 级及以上 (或正公差)	脱碳层深度 $\leq 0.6\%D$; 缺陷深度 $\leq 0.03\text{mm}$	碳化物网状 ≤ 2.0 级; 碳化物带状 ≤ 1.5 级; 非金属夹杂物 A、B、D、 Ds ≤ 1.0 级	/	T.O $\leq 0.0006\%$ N $\leq 0.0040\%$
弹簧钢 SPRING STEEL	C 级及以上 (或正公差)	脱碳层深度 $< 0.6\%D$; 缺陷深度 $< 0.03\text{mm}$	非金属夹杂物 ≤ 1.0 级	Rm 通条波动 $\leq 50\text{MPa}$	T.O $\leq 0.0012\%$ N $\leq 0.0040\%$
耐候钢 WEATHERING STEEL	C 级及以上 (或正公差)	脱碳层深度 $< 0.8\%D$; 缺陷深度 $\leq 0.03\text{mm}$	耐腐蚀指数: $1 \geq 6.8$; 夹杂物 B、D ≤ 1.0 级, A、Ds ≤ 0.5 级	冷顶锻 $\geq 1/3h$	T.O $\leq 0.0008\%$ N $\leq 0.0050\%$
免退火钢 NON-ANNEALING STEEL	C 级及以上 (或正公差)	脱碳层深度 $< 0.8\%D$; 缺陷深度 $< 0.03\text{mm}$	夹杂物 B、D ≤ 1.0 级, A、Ds ≤ 0.5 级	冷顶段 $\geq 1/3h$; 8.8 级: Rm $\leq 550\text{MPa}$ 10.9 级: Rm $\leq 750\text{MPa}$	T.O $\leq 0.0008\%$ N $\leq 0.0050\%$

「特」

独具特色的 核心技术与服务

UNIQUE CORE TECHNOLOGIES AND SERVICES



- 满足客户个性化需求
- 定制标准化生产
- 周到个性化服务”为核心

定制化

CUSTOMIZED

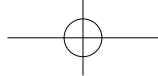
以“满足客户个性化需求、定制标准化生产、周到个性化服务”为核心。

根据用户特殊需求，与国际知名企业共同研发了高强度发动机、轮毂螺栓用钢；共同研发的汽车转向轴用钢，已得到大众认证，并成功用于包括奥迪在内的大众系列乘用车中；与韩国客户共同研发工程机械履带用高强度螺栓用钢，成功应用于沃尔沃挖掘机等产品。

Meeting individual customer needs, customized standardized production, and thoughtful personalized service.

Collaborated with internationally renowned enterprises to co-develop high-strength steel for engine and wheel hub bolts. Co-developed steel for automotive steering shafts, which has obtained Volkswagen certification and is successfully used in Volkswagen series passenger vehicles, including Audi. Partnered with South Korean clients to co-develop high-strength bolt steel for engineering machinery tracks, successfully applied in products such as Volvo excavators.





- 坚持做专
- 坚持做精
- 坚持做强

高端化

HIGH-END

邢钢科技坚持“做专、做精、做强”的发展战略，致力于转型升级、高质量发展，专注于工业新材料的研发制造，**优特钢比例实现 100%，高新产品 70% 以上，十一大类 40 多个品种荣获国家冶金实物产品金杯奖。**冷镦钢、纯铁、弹簧钢、轴承钢等线材产品国内市场占有率占主导地位。

Xinggang Technology adheres to the development strategy of "Specialization, Refinement, and Strengthening." Committed to transformation, upgrading, and high-quality development, the company focuses on the R&D and manufacturing of industrial new materials.

The proportion of its **High-Quality Special Steel** products has reached **100%**.

High-tech and new products account for over **70%** of its output.

More than **40 varieties** across **eleven major categories** have been honored with the **National Metallurgical Golden Cup Award** for physical products.

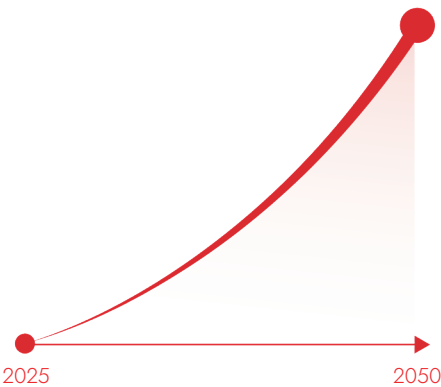
Its wire rod products, including **Cold Heading Steel, Pure Iron, Spring Steel, and Bearing Steel**, hold a **dominant market share** in China.



- 满足国家节能环保和绿色制造的要求

绿色化

GREENING



绿色产品:

研发的**免退火、非调质**系列产品，满足国家节能环保和绿色制造的要求；盘条等产品获得 **EPD** 证书。

绿色制造:

2025 年绿色化指数 80%，全面建成超低排放 A 类企业，2050 年实现**绿色无废钢厂**，成为钢铁业低碳生产领先者。

Green Products:

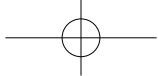
Developed a series of **annealing-free and non-quenched & tempered** products that meet national energy conservation, environmental protection, and green manufacturing requirements. Wire rods and other products have obtained Environmental Product Declaration (EPD) certification.

Green Manufacturing:

By 2025: Achieve a green development index of 80%, fully complete the construction of an ultra-low emission Class A enterprise.

By 2050: Realize the vision of a **green zero-waste steel plant**, becoming a leader in low-carbon production within the steel industry.





「新」

突破 BREAKTHROUGHS

邢钢科技坚持以人为本，加强技术人员的专业培养，增加高新技术人才的引进，**专业技术人员的比例将达到 40% 以上，研发投入比例将占到总营业额的 10% 以上。**

邢钢科技瞄准线材领域国际高端线材产品，**二十余款产品实现进口替代，多款产品实现出口创汇：**

自主研发的 Qst32-3 产品成功替代奥钢联 C4C，用于生产汽车安全带扭力杆，**占据国内 90% 以上份额，应用于奔驰、宝马、奥迪等豪华车型。**

自主研发的具有耐大气腐蚀性能的耐候钢 XG835NH，国内唯一，成功应用于**国内首座免涂装大桥拉林铁路雅鲁藏布江特大桥**，打破了国外对耐候钢的垄断，是我国桥梁建设史上的里程碑。

定制开发的 QML20MnTiB-B 产品成功出口到韩国市场，**替代浦项产品。**

开发的 SAE10B35 产品，用于生产汽车离合器套筒，**成功替代美国钢铁公司产品。**

研发的汽车悬架弹簧用盘条系列产品先后获得了慕贝尔、中炼等高端客户认可，**逐步替代进口日本新日铁弹簧钢盘条。**



Xinggang Technology adheres to a people-oriented approach, strengthening the professional development of technical staff and increasing the recruitment of high-tech talent. The proportion of specialized technical personnel will exceed 40%, while R&D investment will account for over 10% of total revenue.

Xinggang Technology aims at international high-end products in the wire rod sector. Over twenty product grades have achieved import substitution, with many generating foreign exchange through exports.

The independently developed Qst32-3 successfully replaced voestalpine's C4C for producing automotive seat belt torsion bars. It now holds over 90% of the domestic market share and is used in luxury brands including Mercedes-Benz, BMW, and Audi.

The independently developed weathering steel XG835NH, with atmospheric corrosion resistance, is the **only one of its kind in China**. It was successfully applied in the country's first coating-free bridge, the Lhasa-Nyingchi Railway Yarlung

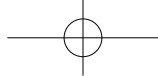


Zangbo River Super Major Bridge, breaking foreign monopolies in weathering steel and marking a milestone in China's bridge construction history.

The custom-developed QML20MnTiB-B successfully entered the **South Korean market**, replacing products from POSCO.

The developed SAE10B35 steel, used for automotive clutch sleeves, successfully replaced products from **United States Steel Corporation**.

The developed series of wire rods for **automotive suspension springs** have gained recognition from premium clients such as Mubea and Zhonglian, gradually replacing imported spring steel wire rods from **Nippon Steel**.

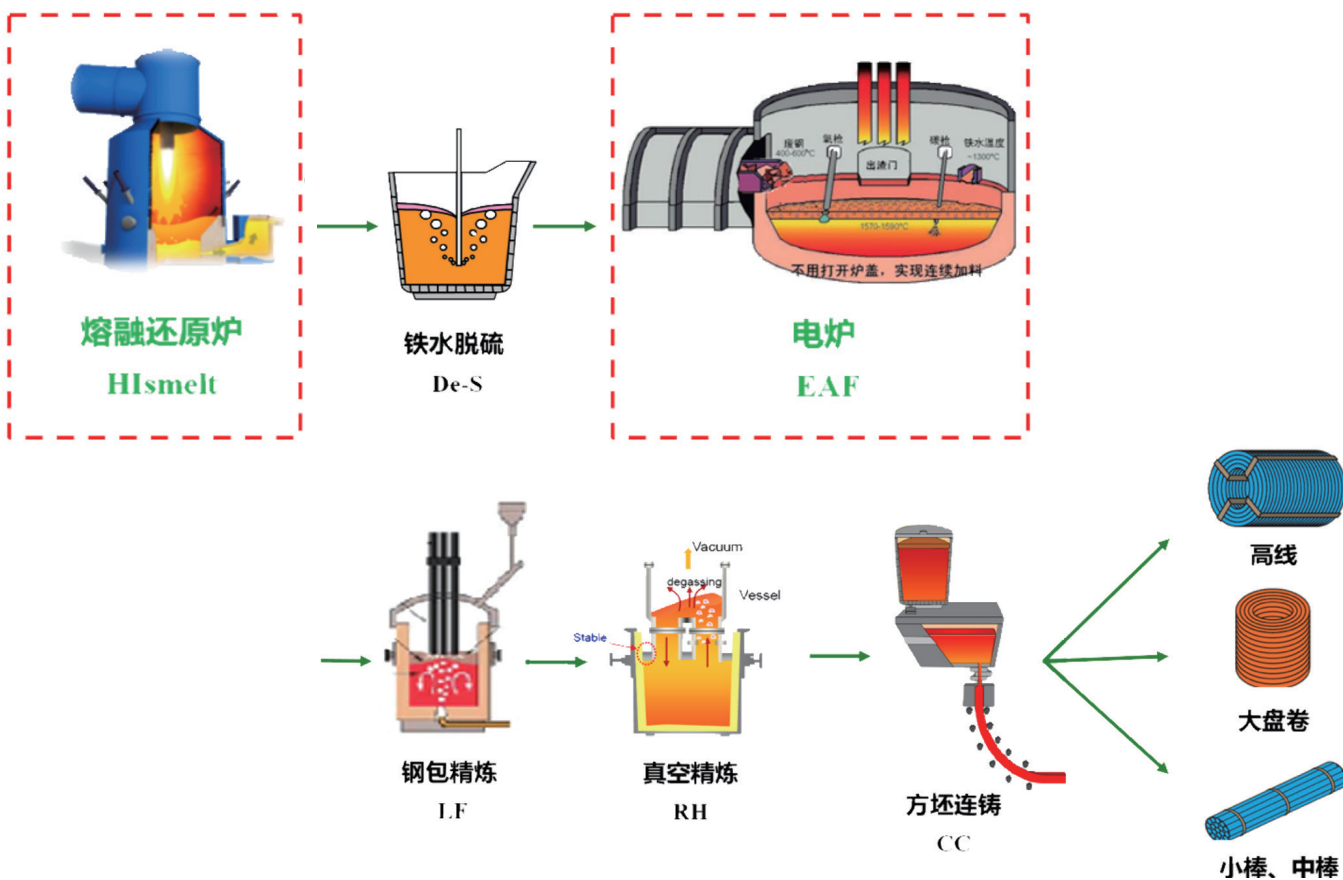


创新

INNOVATION

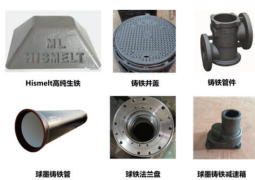
「熔融还原 + 电炉」创新型短流程生产工艺

「MELTING REDUCTION + ELECTRIC ARC FURNACE」 INNOVATIVE SHORT-PROCESS PRODUCTION TECHNOLOGY



★ 可达高纯生铁标准

- Si (< 0.01%)、Mn (< 0.02%)、P (0.02±0.01%)、S (< 0.01%)、Ti (< 0.005%)呈数量级降低。
- 五害元素含量极低(≤0.0013%)。



Hismelt高纯生铁

铸钢开盖

铸钢管件

球墨铸铁管

球墨铸铁井盖

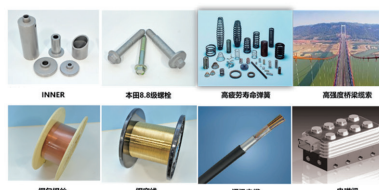
球墨铸铁机械铸件

★ 冶炼超低磷钢、超纯净度钢、高合金钢等特殊钢种，具有得天独厚的先天优势

- P≤0.008%，S≤0.003%，Ti≤0.001%。
- Cr、Ni、Cu≤0.02%。
- Pb+Sn+As+Sb+Bi≤0.001%。
- N≤30ppm，T.O≤8ppm。
- C波动±0.01%。
- B、D类夹杂物≤1.0级，DS类夹杂物≤0.5级。

★ 有力提升钢种的应用性能

- 大变形钢种的冷墩性能
- 深拉拔钢种的拉拔性能
- 长寿命钢种的疲劳性能
- 超纯净钢种的电磁性能，等



INNER

本钢8.8级螺栓

高疲劳寿命弹簧

高强度桥梁缆索

钢包钢丝

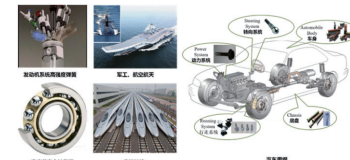
钢导线

通讯电缆

电缆网

★ 产品质量超过欧标、日标、美标等先进标准

- 填补高速铁路轴承、特种用钢等国内空白。
- 打破国外在发动机弹簧、轴承等方面的垄断。
- 高强度耐热钢、高强耐候钢、免退火冷镀锌、非调质钢、优质含硼冷镀锌、高强度耐延迟断裂钢、耐低温高强钢、高强度桥梁缆索用钢等



发动机用高强度弹簧

加工、成型的

高强度桥梁缆索

高强度桥梁缆索

汽车悬架

「广」

下游客户广

WIDE RANGE OF DOWNSTREAM CUSTOMERS

邢钢科技的特钢线材产品除了支撑国内众多知名品牌形成紧密产业链条外，还为**保定风电、邯郸紧固件、清河汽车及零部件、临西轴承、平乡童车、安平丝网**等河北众多装备制造产业集群向高端发展提供重要支撑，助力这些产业集群形成了良性、优质的产业链条。

In addition to supporting numerous well-known domestic brands and forming close industrial supply chains, Xinggang Technology special steel wire rod products also provide crucial support for the upgrading of **Hebei's key equipment manufacturing industrial clusters, including Baoding wind power, Handan fasteners, Qinghe automotive and parts, Linxi bearings, Pingxiang children's bicycles, and Anping wire mesh.** These efforts have helped these industrial clusters move toward high-end development, fostering robust and high-quality industrial ecosystems throughout the region.

● 高铁 HIGH SPEED RAIL



采用邢钢科技 60Si2MnA 生产的铁路扣件组件，已经连续多年大批量用在我国高铁线路建设，**折合里程上万公里。邢钢是全球知名企业美铝紧固件第一大供应商，QSWRCH10A-B/QML45Mn2 等产品用于生产铁路拉铆钉，实现出口。开发 ML20MnTiB、Q235A、SCM435 等系列产品专业生产高速**

铁路道钉。高速铁路轨枕钢丝用盘条 GSWRH82B-1 等广泛用于**京沪高铁、京广高铁**等高速铁路轨枕板生产。邢钢焊网公司中标高铁项目超过 5 万吨，包括**武广高铁、北京地铁、京沈客运专线**等。

Railway fastener components produced using Xinggang Technology 60Si2MnA steel have been used in large quantities for

many years in my country's high-speed rail construction, **covering tens of thousands of kilometers.** Xinggang Technology is **the largest supplier of fasteners to Alcoa, a world-renowned company.** Products such as QSWRCH10A-B and QML45Mn2 are used in the production of railway rivets for export. Xinggang Technology has developed a series of products, including ML20MnTiB, Q235A, and SCM435, to specialize in the production of high-speed

rail spikes. High-speed rail sleeper wire rods such as GSWRH82B-1 are widely used in the production of sleeper plates for high-speed railways, including **the Beijing-Shanghai and Beijing-Guangzhou High-Speed Railways.** Xinggang Technology Welding Mesh Company has won bids exceeding 50,000 tons for high-speed rail projects, including **the Wuhan-Guangzhou High-Speed Railway, the Beijing Metro, and the Beijing-Shenyang Passenger Dedicated Line.**

● 汽车 CAR



冷镦钢：广泛用于制造汽车高强度零部件（如缸盖螺栓、飞轮螺栓、主轴承螺栓、高强度螺母、连杆等），供应大众、通用、本田、上汽、一汽等众多汽车厂家。

弹簧钢：主要用于生产汽车悬架簧，供应大众等合资和自主品牌汽车厂家。

帘线钢：客户包括比利时贝卡尔特、韩国高丽制钢、山东胜通等企业，应用于普利司通、米其林、固特异、韩泰、正新等知名汽车轮胎品牌。

Cold heading steel: Widely used in the manufacture of high-strength automotive parts (such as cylinder head bolts, flywheel bolts, main bearing bolts, high-strength nuts, connecting rods, etc.), supplied to numerous automakers including Volkswagen, GM, Honda, SAIC, and FAW.

Spring steel: Primarily used in the production of automotive suspension springs, supplied to joint venture and domestic automakers such as Volkswagen.

Cord steel: Customers include Bekaert of Belgium, Korea Steel Corporation of South Korea, and Shandong Shengtong. Tire is used in tires for renowned auto brands such as Bridgestone, Michelin, Goodyear, Hankook, and Cheng Shin.

● 桥梁 BRIDGE



以往，国内大型桥梁缆索用钢是日本新日铁独到的 DLP 技术生产。但邢钢自 2007 年开发生产之后，邢钢科技的市场占有率快速增长，已成功应用于**南溪长江大桥、重庆寸滩大桥、贵州清水河大桥**等桥梁领域，成功替代日本产品。

Historically, cable steel for large bridges in China was produced using Nippon Steel's unique DLP technology. However, since Xinggang began developing and producing this technology in 2007, its market share has rapidly grown. This steel has been successfully used in bridges such as **the Nanxi Yangtze River Bridge, the Chongqing Cuntan Bridge, and the Guizhou Qingshui River Bridge,** successfully replacing Japanese products.

● 航空航天 LOREM IPSUM DOLOR SIT AMET



● 能源 M IPSUM DOLOR SIT AMET

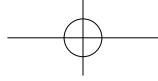


● 大型器械 SIT AMET



● 家电 M IPSUM DOLOR SIT AMET





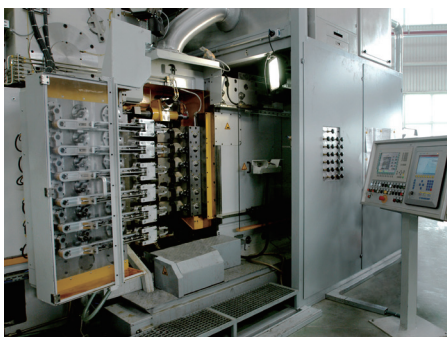
「深」

致力于发展 线材延伸产业

COMMITTED TO DEVELOPING
THE WIRE ROD DEEP-PROCESSING
INDUSTRY

北京新光凯乐汽车冷成型件
有限责任公司

SINGU KELLER



中国最大的汽车冷成型异型件生产线

China's largest automotive cold-formed special-shaped parts production line

北京邢钢焊网科技发展
有限责任公司

BEIJING XG WELDING MESH TECHNOLOGY
DEVELOPMENT CO., LTD.



国内最大规模的焊网生产线

焊网市场占有率全国第一

Domestically largest welding mesh production line
Leading domestic market share in welding mesh

邢台新翔金属材料科技股份
有限公司

XINGTAI XINXIANG METAL MATERIALS
TECHNOLOGY CO., LTD.



精制线材加工能力全国第一

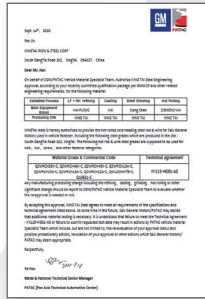
Nation's top refined wire rod processing capacity

我们的 合作伙伴

OUR PARTNERS



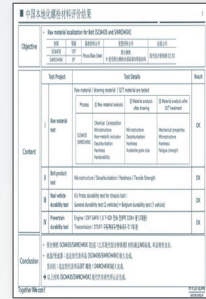
本田汽车
HONDA CARS



通用汽车
GM



福特汽车
FORD MOTOR COMPANY



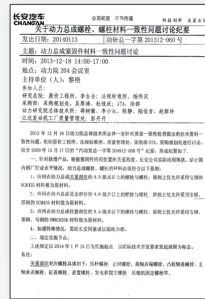
现代汽车
HYUNDAI



上汽
SAIC



中国一汽
FAW



长安汽车
CHANGAN AUTOMOBILE



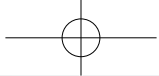
吉利汽车
GEELY AUTOMOBILE

邢钢科技产品广泛应用于汽车、大跨度桥梁、铁路、机械五金、电磁、焊接、大型机械、能源海洋等国家优先发展的领域。其中，用冷镦钢系列产品生产的零部件、紧固件可满足汽车、工程机械等高端用途需求，获得本田、上汽、一汽、东风、现代、卡迈锡、内德史罗夫、ZF、宾科、舍弗勒、小松机械等一系列高端用户的认可；弹簧钢主要用于生产汽车悬架簧、高铁扣件弹条等部件，获得了

慕贝尔、宝通金属、晋亿铁扣等客户认可；轴承钢主要用于生产汽车轴承和家电轴承中的滚珠、滚柱和套环等，产品纯净度高，组织均匀性好，获得了哈轴、瓦轴、洛轴及人本轴承等客户认可；帘线钢供应贝卡尔特、高丽制钢等世界知名企业。计划到2030年，通过大众、丰田、日产、特斯拉、理想、上汽(10.9级)、通用(10.9级)、福特(10.9级)等主要主机厂认证。

Xinggang Technology products are widely used in priority national development sectors such as automobiles, long-span bridges, railways, machinery and hardware, electromagnetics, welding, large-scale machinery, energy, and marine engineering. Among them, parts and fasteners produced using the cold heading steel series meet the demands of high-end applications like automobiles and engineering machinery, and have gained recognition from a range of premium customers including Honda, SAIC, FAW, Dongfeng, Hyundai, KAMAX, Nedschroeff, ZF, Bulten, Schaeffler, and Komatsu. Spring steel is primarily used to produce components like automobile suspension springs and high-

speed rail clip elastic rail fasteners, receiving approval from customers such as Muhr und Bender, Baotong Metal, and Gem-Year Rail Fasteners. Bearing steel is mainly used to produce balls, rollers, and rings for automobile and home appliance bearings, characterized by high purity and uniform microstructure, and is recognized by customers including HRB, ZWZ, LYC, and C&U Group. Tire cord steel is supplied to world-renowned enterprises like Bekaert and KISCO. Plans are in place to obtain certification from major OEMs including Volkswagen, Toyota, Nissan, Tesla, Li Auto, SAIC Motor (Grade 10.9), General Motors (Grade 10.9), and Ford (Grade 10.9) by 2030.

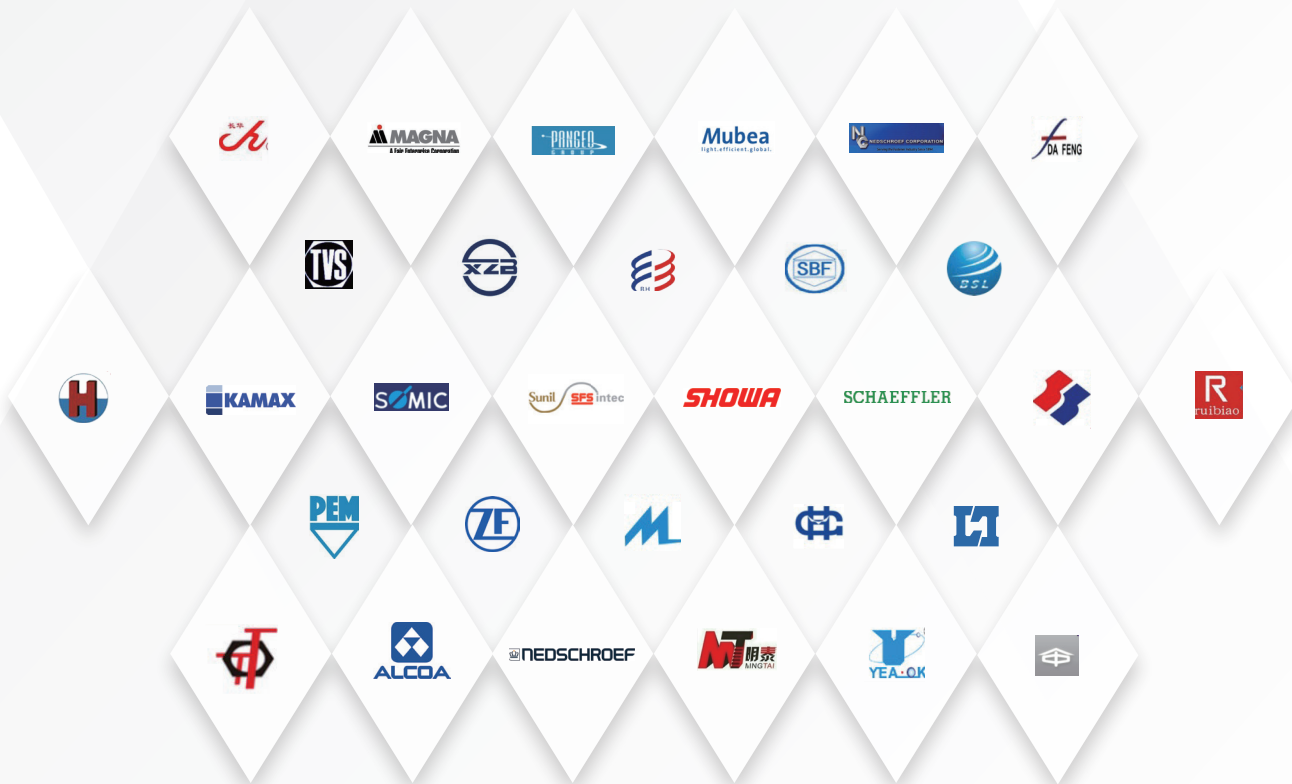


主机厂 OEMS



国内、国际知名 供应商

WELL-KNOWN DOMESTIC AND
INTERNATIONAL SUPPLIERS





邢钢科技转型升级 搬迁改造项目简介

TRANSFORMATION
AND UPGRADING
PROFILE



PART 2







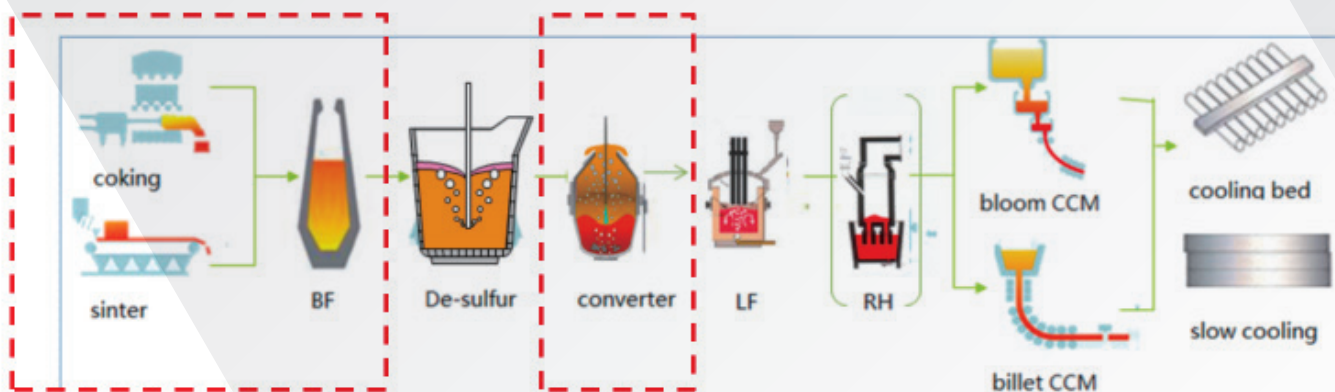
为深入贯彻落实京津冀协同发展国家战略，优化区域生产力布局，邢钢科技异地搬迁项目于2023年正式启动。总投资约**132亿元**，占地**3217亩**，铁、钢产能分别为**165万吨/年**、**225万吨/年**。新厂区将采用国际先进的**熔融还原炼铁与电炉炼钢短流程**工艺和超低排放技术，大幅降低能耗与污染物排放，致力于打造资源节约、环境友好绿色钢铁示范基地。

In 2023, Xinggang Technology relocation project was officially launched to thoroughly implement the national strategy of Beijing-Tianjin-Hebei coordinated development and optimize regional productive forces distribution. With a total investment of approximately **13.2 billion yuan** and covering an area of **3,217 mu** (about 214 hectares), the project will have an annual production capacity of **1.65 million tons of iron and 2.25 million tons of steel**.

The new plant will adopt internationally advanced short-process technology **integrating smelting reduction and electric arc furnace steelmaking**, along with ultra-low emission systems. This will significantly reduce energy consumption and pollutant emissions, aiming to establish a resource-efficient and environmentally friendly green steel demonstration base.

转型升级前

PRIOR TO TRANSFORMATION AND UPGRADING

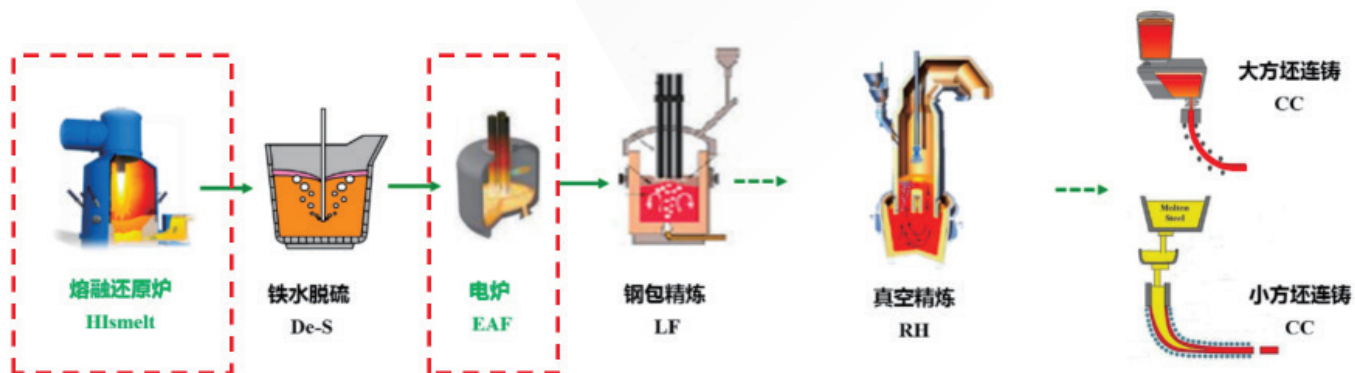


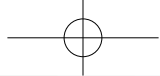
转型升级后

POST TRANSFORMATION AND UPGRADING

「熔融还原炉 + 电炉」短流程工艺, 根据钢种特性, 铁水比例可达 90% 以上。

The short-process technology of "molten reduction furnace + electric furnace" can achieve a molten iron ratio of over 90% depending on the characteristics of the steel grade.



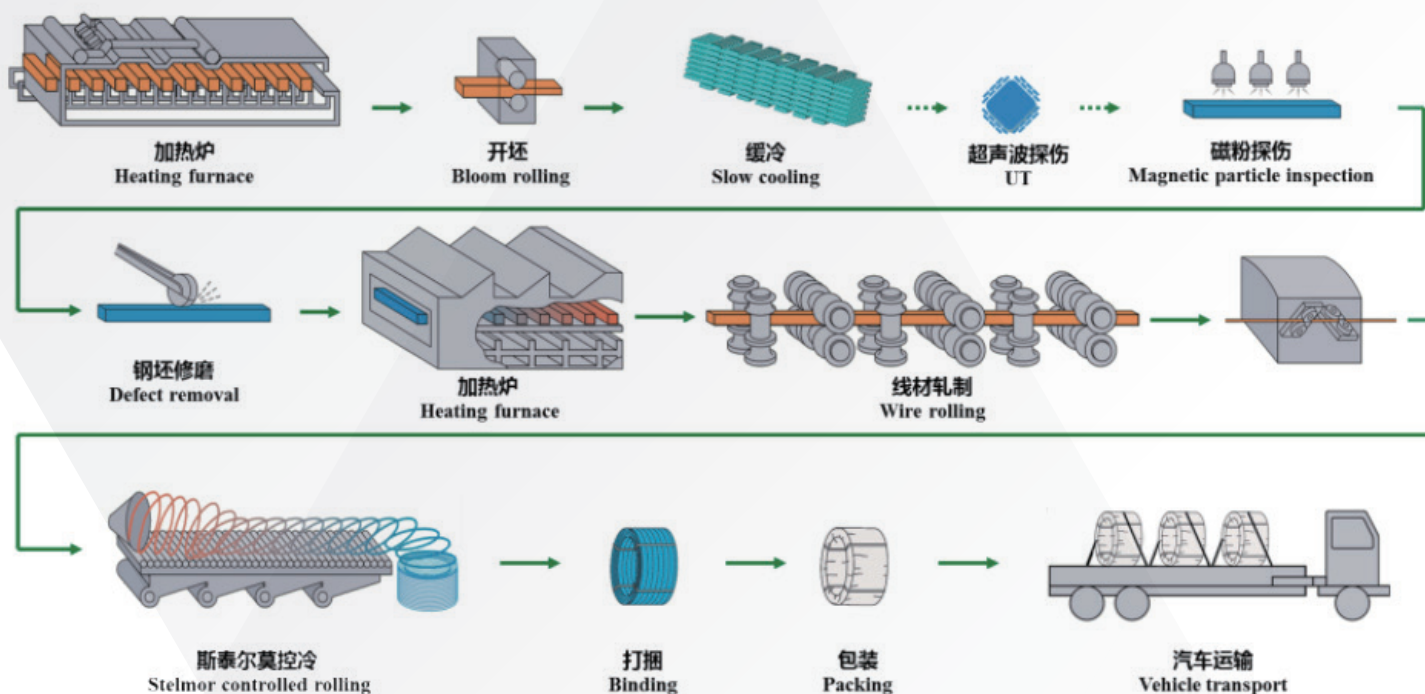


PROCESS AND KEY
EQUIPMENT UPGRADES

工艺及关键设备升级

生产流程

PRODUCTION
PROCESS



炼铁熔融还原 IRONMAKING

超短流程

ULTRA-SHORT PROCESS

熔融还原取消了烧结、球团、焦化等高污染高排放工序，以铁矿粉为原料直接进行熔融还原冶炼，可实现超短流程生产、超纯生铁、超低排放。生产的高纯生铁，被广泛用于风能、核电、汽车、铁路、航空航天、高端装备制造、军工等领域。

Smelting reduction eliminates highly polluting and high-emission processes such as sintering, pelletizing, and coking. It directly smelts and reduces iron ore powder, enabling an ultra-short process, production of ultra-pure pig iron, and ultra-low emissions. The high-purity pig iron produced is widely used in wind power, nuclear power, automotive, railway, aerospace, high-end equipment manufacturing, military industry, and other fields.



超纯铁水

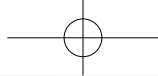
PRODUCTION OF ULTRA-PURE PIG IRON

目标一：可为国家高端装备制造提供优质超纯生铁。

目标二：深研特钢领域，开发更高端的钢种，实现进口替代。

Can provide high-quality ultra-pure pig iron for national high-end equipment manufacturing. Deepen research in the field of special steel, develop higher-end steel grades, and achieve import substitution.

典型成分 TYPICAL COMPOSITION	高炉 SPECIAL GRADE HIGH-PURITY PIGLRON STANDARD	特级高纯生铁标准 BLAST FURNACE	富氢熔融还原炼铁 HYDROGEN-RICH SMELTING REDUCTION IRONMAKING
碳 Carbon(C)	4.5	>3.5	4.0 ± 0.2
硅 Silicon(Si)	0.5 ± 0.3	>0.30	>0.05
锰 Manganese(Mn)	0.4 ± 0.2	>0.01	>0.003
磷 Phosphorus(P)	0.09 ± 0.02	>0.0015	>0.015
Pb+Sn+As+Sb+Bi	——	>0.006	>0.0013
硫 (S)	0.04 ± 0.02	>0.010	>0.010
温度 Temperature	1430 - 1500	——	1420°C



PROCESS AND KEY EQUIPMENT UPGRADES

工艺及关键设备升级

超低排放

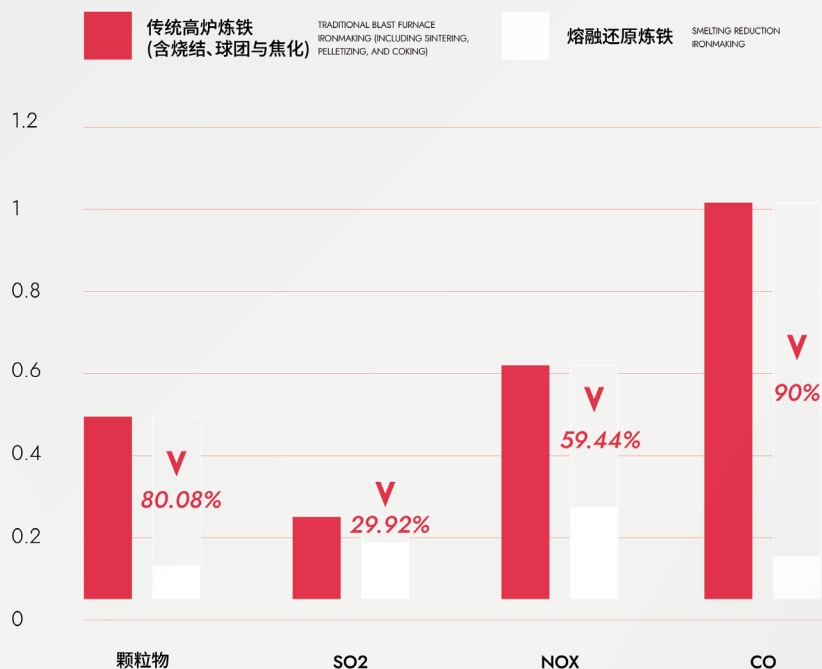
ULTRA-LOW EMISSIONS

富氢熔融还原炼铁与高炉相比，铁水中 Si、Mn、P 等低一个数量级，且微量元素 Ti、Pb、Sn、Cr、Ni、Mo、Bi 等极低，达到高纯生铁标准。

铁水纯净度高，对于冶炼超低磷钢、纯净钢等优势明显。可深耕特钢领域，开发更高端钢种，实现进口替代。可为国家高端装备制造提供优质的超纯生铁。

Compared to the blast furnace process, hydrogen-rich smelting reduction produces hot metal with Si, Mn, P, and other elements an order of magnitude lower. Trace elements like Ti, Pb, Sn, Cr, Ni, Mo, Bi, etc., are extremely low, meeting the high-purity pig iron standard.

The high purity of the hot metal provides advantages for smelting ultra-low phosphorus steel, clean steel, etc. It enables in-depth research in the special steel field, development of higher-end steel grades, and import substitution. It can supply high-quality ultra-pure pig iron for the nation's high-end equipment manufacturing.

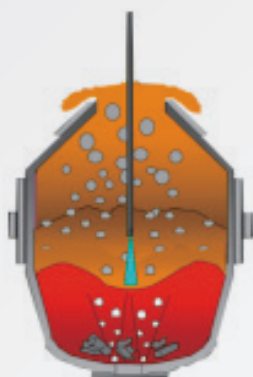


炼钢工序

STEELMAKING PROCESS

炼钢

STEELMAKING



50 吨、80 吨转炉
50-TON, 80-TON CONVERTER FURNACES



100 吨电炉
100-TON ELECTRIC ARC FURNACE

① **高纯铁水 + 电炉偏心炉底出钢、零下渣工艺：**
P、Pb、Sn、Bi 等有害元素低，钢水洁净度高，适合生产高品质洁净钢。

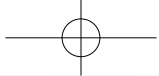
② **冶炼炉容、连铸中间包增大：**
产品成分控制更加精准，如碳成分波动范围由目前的 $\leq \pm 0.02\%$ 提升到 $\leq \pm 0.01\%$ 。

钢水纯净度进一步提升，B、D 类夹杂物等级由目前 2 级降低到 1.0 级以下。

③ **RH 炉由蒸汽泵改为机械泵：**
纯铁类产品碳含量由 40ppm 稳定控制到 20ppm 以下。

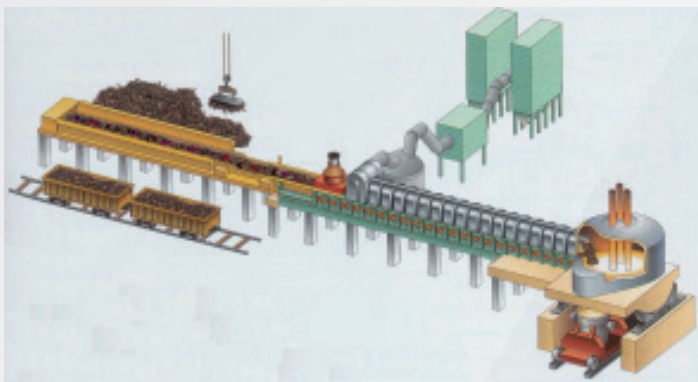
④ **增加大方坯连铸机重压下：**
高碳钢连铸坯碳偏析指数由目前的 1.10 较低到 1.05 以下。
轴承钢、预应力钢等高碳钢种网状、带状组织由目前的 3 级降低到 ≤ 2 级。

⑤ **增加小方坯连铸机二冷末端电磁搅拌：**
高碳钢小方坯连铸坯碳偏析指数由目前的 1.15 较低到 1.10 以下。



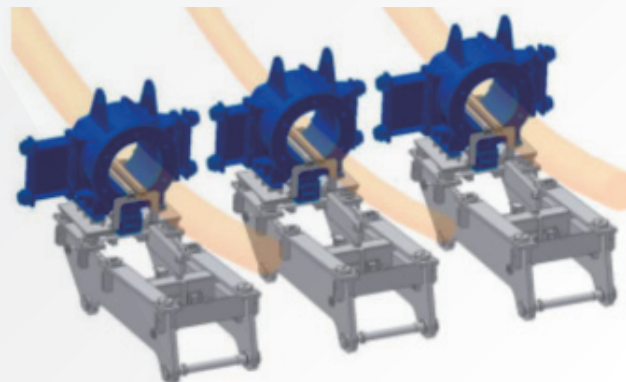
PROCESS AND KEY EQUIPMENT UPGRADES

工艺及关键设备升级



水平连续加料电炉

HORIZONTAL CONTINUOUS FEEDING ELECTRIC FURNACE



二冷末端电磁搅拌

ELECTROMAGNETIC STIRRING AT THE FINAL STAGE OF SECONDARY COOLING

① **High-purity hot metal + Eccentric Bottom Tapping (EBT) electric furnace, zero slag carryover process:**

Low levels of harmful elements such as P, Pb, Sn, and Bi result in high cleanliness of molten steel, suitable for producing high-quality clean steel.

② **Increased furnace capacity and continuous casting tundish size:**

More precise control of product composition, e.g., carbon content fluctuation range improved from $\leq \pm 0.02\%$ to $\leq \pm 0.01\%$.

Further enhancement of molten steel cleanliness, with B and D type inclusion grades reduced from the current grade 2 to below grade 1.0.

③ **RH degasser upgrade from steam pump to mechanical pump:**

Carbon content in pure iron products stably controlled from 40 ppm to below 20 ppm.

④ **Addition of heavy reduction technology in bloom continuous caster:**

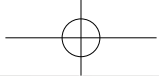
Carbon segregation index of high-carbon steel continuous casting billet

reduced from the current 1.10 to below 1.05.

Network and banded structures in high-carbon steel grades such as bearing steel and prestressed steel reduced from the current grade 3 to \leq grade 2.

⑤ **Addition of electromagnetic stirring at the final stage of secondary cooling in billet continuous caster:**

Carbon segregation index of high-carbon steel billet continuous casting reduced from the current 1.15 to below 1.10.



轧钢工序 ROLLING PROCESS

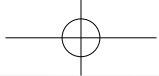
加热炉改进

HEATING FURNACE UPGRADE

二级自动化控制: 实现加热炉加热温度的窄范围控制, 保证钢坯加热均匀性; 通过炉膛气氛精准控制, 大幅度降低弹簧钢、轴承钢等易脱碳钢种的脱碳层深度, 同时实现降低能耗, 达到节能的目的。

Secondary Automation Control: Implements precise temperature control within a narrow range, ensuring uniform billet heating. Achieves accurate furnace atmosphere control, significantly reducing the decarburization layer depth in steel grades prone to decarburization (e.g., spring steel, bearing steel). Reduces fuel consumption, achieving energy savings.





PROCESS AND KEY EQUIPMENT UPGRADES

工艺及关键设备升级

精轧、减定径设备改进

FINISHING MILL AND SIZING BLOCK UPGRADE

阿希洛精轧机、POMINI 减定径，生产 $\Phi 5.5-20\text{mm}$ 规格产品的尺寸精度 $\pm 0.25\text{mm}$ 。

Ashlow Finishing Mill + POMINI Sizing Block
Capable of producing 5.5-20mm products with dimensional accuracy of $\pm 0.25\text{mm}$.

摩根精轧机、减定径，生产 $\Phi 5.5-25\text{mm}$ 规格产品的尺寸精度可达到 $\pm 0.10\text{mm}$ 。实现低温轧制 (750°C)。

Morgan Finishing Mill and Sizing Block:
Capable of producing 5.5-25mm products with dimensional accuracy of $\pm 0.10\text{mm}$.
Enables low-temperature rolling (750°C).

在线控冷水箱改进

IMPROVEMENT OF ONLINE CONTROLLED COLD WATER TANK

摩根水箱闭环控制系统：可实现轧线、吐丝温度的闭环控制，提高过程温度的控制能力，减少线材通条性能的波动。

Morgan Cooling Line with Closed-Loop Control System: Enables closed-loop control of the rolling line and laying head temperature.

Improves process temperature control capability. Reduces variations in mechanical properties along the entire wire rod length.



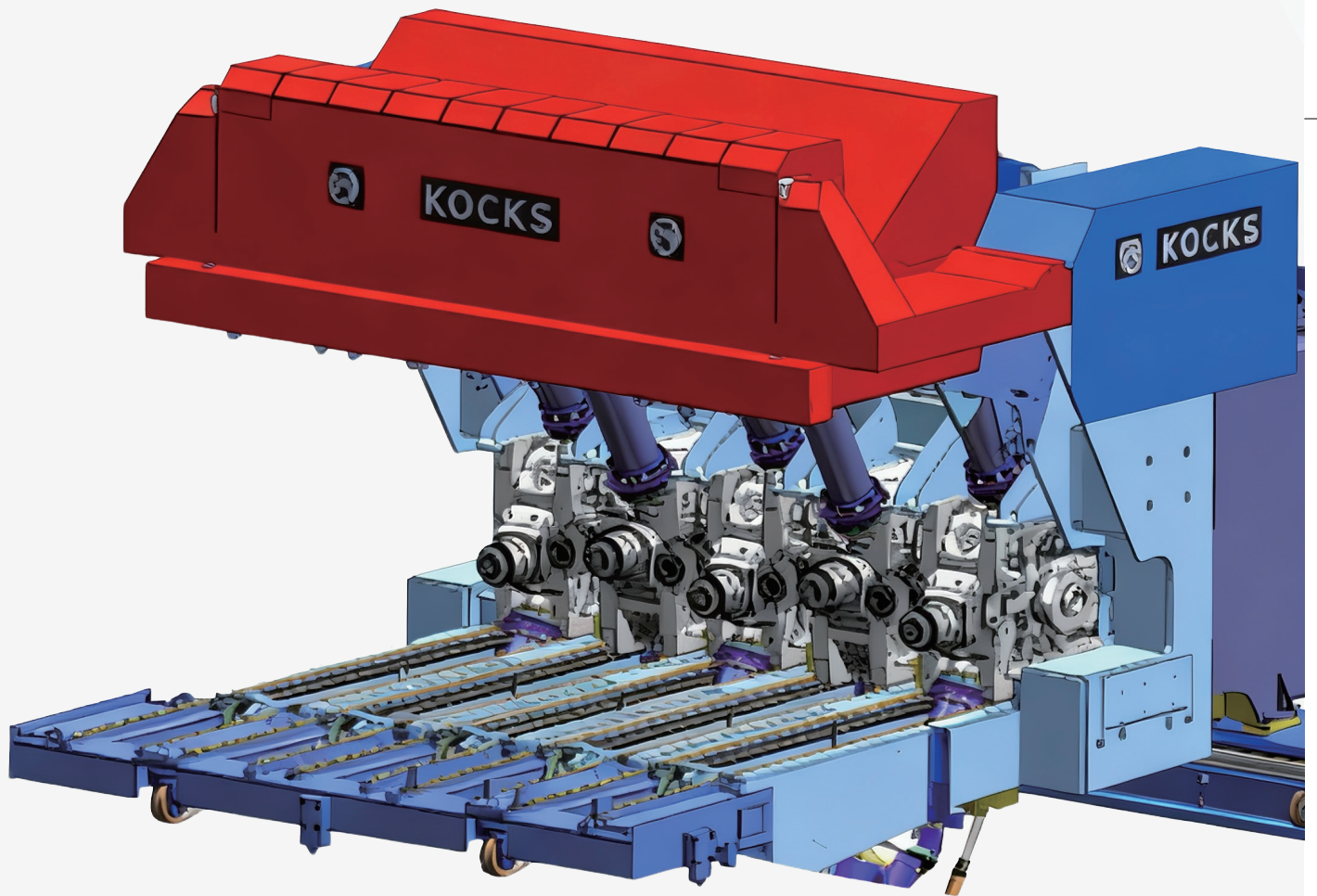
轧钢工序 ROLLING PROCESS

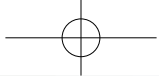
大盘卷卷取机改进

IMPROVEMENT OF LARGE COIL DOWNCOILER

升级建设的大盘卷卷取机,可实现
52mm 规格的产品卷取,同时可改善
大盘卷的卷型、消除盘卷表面的擦划伤。

Capable of coiling products with specifications
down to 52mm.Improves the coil shape of large
coils.
Eliminates surface scratches on the coils.





大盘卷减定径设备的改进

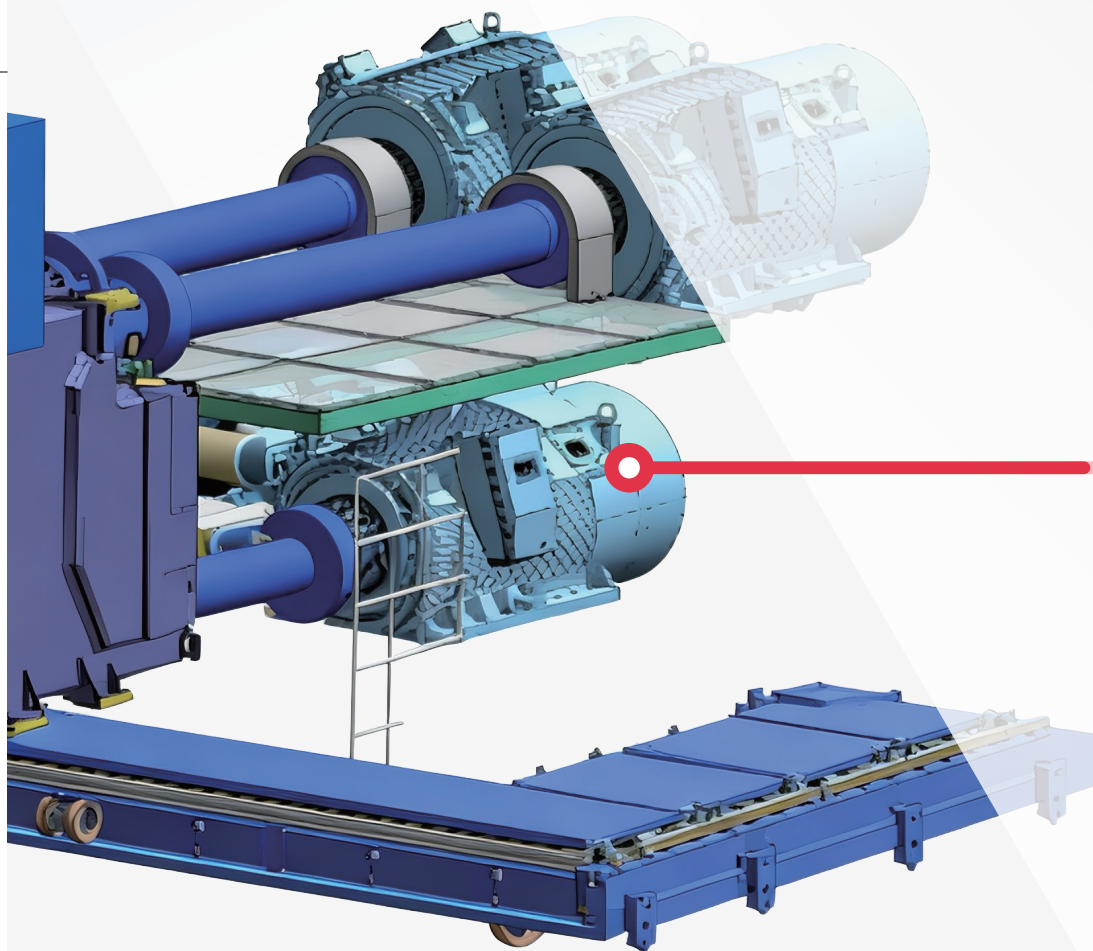
IMPROVEMENT OF LARGE COIL SIZING EQUIPMENT

增加 KOCKS 三辊轧机, 即大盘卷的减定径设备, 可实现大盘卷产品自由规格轧制及高精度 $\pm 0.10\text{mm}$ 控制, 同时可具备热机轧制能力。

Improvement of Large Coil Sizing Block
Equipment

Upgrade: Addition of a KOCKS 3-roll reducing
block as the sizing equipment for large coils.

Enables free-size rolling of large coil products.
Achieves high-precision dimensional control of
 $\pm 0.10\text{mm}$. Provides thermomechanical rolling
capability.



KOCKS 三辊轧机

KOCKS THREE-ROLL MILL

储运工序

STORAGE AND TRANSPORTATION PROCESS

新区建设铁路运输专线，大宗物料和产品采用“铁路+新能源汽车”的清洁运输方式，清洁运输比例可达到80%以上。厂内运输使用纯电动、燃料电池的车辆比例不低于80%。

Storage and Transportation Process

A dedicated railway transportation line will be constructed in the new area. Bulk materials and products will adopt a clean transportation method combining "railway + new energy vehicles," with the clean transportation ratio exceeding 80%. The proportion of vehicles using pure electric or hydrogen fuel cells for internal transportation will not be less than 80%.



绿电应用 GREEN POWER APPLICATION

新厂区创新构建“风电直连+厂内光伏+绿电采购”三维供电模式，重塑钢铁行业绿色发展标杆：相比老厂区，减少二氧化硫、氮氧化物排放38%，减少颗粒物排放89%，污染物减排效果显著；碳排放强度预计为1.4tCO₂/t粗钢，较老厂区的1.959tCO₂/t粗钢，下降28%；吨钢综合能耗为524.5kgce/t，较老厂区的645kgce/t，降低18.7%，减排、节能降碳效果显著，为全省钢铁产业低碳转型注入强劲动能。

The new plant area will innovatively establish a three-dimensional power supply model integrating "direct wind power connection + rooftop photovoltaic panels + green electricity procurement," setting a new benchmark for green development in the steel industry. Compared to the old plant area, it reduces sulfur dioxide (SO₂) and nitrogen oxide (NO_x) emissions by 38%, and particulate matter (PM) emissions by 89%, demonstrating significant pollution reduction effects.

The carbon emission intensity is projected to be 1.4 tCO₂/ton of crude steel, a 28% decrease from the 1.959 tCO₂/ton of crude steel in the old plant area. The comprehensive energy consumption per ton of steel is 524.5 kgce/t, an 18.7% reduction from the 645 kgce/t in the old plant area, achieving remarkable energy saving, carbon reduction, and pollution control effects, injecting strong momentum into the low-carbon transformation of the provincial steel industry.



仅一期厂房屋顶光伏发电 (按25年计算)

ENVIRONMENTAL BENEFITS OF PHASE I ROOFTOP PHOTOVOLTAIC POWER GENERATION (CALCULATED OVER 25 YEARS):



多种了 275487+ 棵树
Equivalent to planting 275,487+ trees



减少了 179053 吨煤的燃烧
Reducing coal burning by 179,053 tons



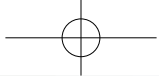
减少了 14921 吨二氧化硫排放
Equivalent to a Reducing sulfur dioxide (SO₂) emissions by 14,921 tons



减少了 495879 吨 CO₂ 排放
Reducing carbon dioxide (CO₂) emissions by 495,879 tons



减少了 7460 吨氮氧化物排放
Reducing nitrogen oxide (NO_x) emissions by 7,460 tons



关键设备产能

KEY EQUIPMENT PRODUCTION CAPACITY



熔融还原炼铁

3座55万吨熔融还原炉及配套2×500t石灰窑、3套复合喷吹脱硫装置等，炼铁产能165万吨。

电炉炼钢

建设3座100吨电炉，3座LF精炼炉，2座RH真空精炼炉，4座连铸机，炼钢年产能225万吨。

高线轧制

2条高速线材生产线，2条棒材生产线，1条大盘卷生产线，1条开坯生产线及配套的抛丸、探伤、修磨设施。

电渣重熔

建设2套2500吨/年电渣炉。以及配套的制氧、热力、给排水、燃气、通风、检化验、供配电、仓储及公辅配套等设施。

Smelting Reduction Ironmaking:

3 × 550,000-ton smelting reduction furnaces.
Supporting facilities: 3 × 100-ton electric arc furnaces, 3 × LF refining furnaces, 2 × 500t lime kilns, 3 sets of composite injection desulfurization units, etc.

Total annual ironmaking capacity: 1.65 million tons.

Electric Arc Furnace Steelmaking:

3 × 100-ton electric arc furnaces.
Supporting facilities: 3 × LF refining furnaces, 2 × RH vacuum refining furnaces, 4 continuous casting machines.

Total annual steelmaking capacity: 2.25 million tons.

High-Speed Wire Rod Rolling:

2 high-speed wire rod production lines.
2 bar production lines.

1 large coil production line.
1 blooming production line.

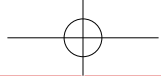
Supporting facilities: shot blasting, flaw detection, and grinding equipment.

Electroslag Remelting:

2 sets of 2,500 ton/year electroslag furnaces.

Auxiliary Facilities:

Supporting oxygen plant, thermal power, water supply and drainage, gas supply, ventilation, inspection and laboratory, power supply and distribution, storage, and public auxiliary facilities.



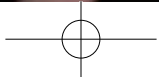
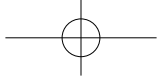
转型升级搬迁后产品 质量提升和技术创新

PRODUCT QUALITY
IMPROVEMENT AND
TECHNOLOGICAL
INNOVATION



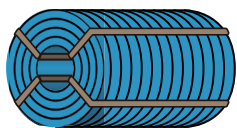
PART 3



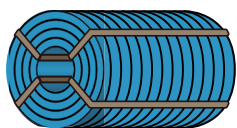


高端产品规格 HIGH-END PRODUCT SPECIFICATIONS

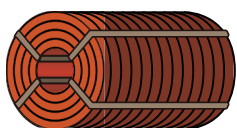
1# 高线



2# 高线



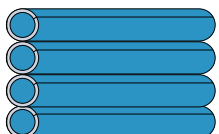
大盘卷线



小棒



中棒



新上 8+4 产线

NEW 8+4 PRODUCTION LINE

高线为新上 8+4 产线, 进口设备 (摩根), 具备生产高端定制钢种、高级冷镦钢等产品, 占据线材行业高端市场; 同时低温轧制可有效提升弹簧钢、轴承钢脱碳控制; 低温轧制 + 缓冷工艺实现冷镦钢在线免退火。

The high-speed wire rod utilizes a newly installed 8+4 production line with imported equipment (Morgan), capable of producing high-end customized steel grades and advanced cold heading steel, targeting the premium segment of the wire rod market. Additionally, low-temperature rolling effectively improves decarburization control for spring steel and bearing steel. The combination of low-temperature rolling and slow cooling technology enables online annealing-free treatment for cold heading steel.

新上大盘卷线

NEW LARGE COIL LINE

新上大盘卷线, KOCKS 三辊轧机, 大盘卷减定径设备, 可实现产品的高精度 ±0.10mm 控制, 可具备热机轧制能力, 同时具备低温卷取功能。

The newly installed large coil line, equipped with a KOCKS 3-roll reducing block and large coil sizing block, achieves high-precision dimensional control of ±0.10mm. It features thermomechanical rolling capability and low-temperature coiling functionality.

新上棒材生产线

NEW BAR PRODUCTION LINE

新上棒材生产线, 配套先进工艺设备, 生产具备高性能、高尺寸精度轴承钢、合金结构钢、齿轮钢、弹簧钢等高附加值产品满足于工程机械、汽车、铁路、船舶等下游客户用钢需求。

The newly installed bar production line, supported by advanced process equipment, produces high-value-added products such as high-performance, high-dimensional accuracy bearing steel, alloy structural steel, gear steel, and spring steel. It meets the steel requirements of downstream customers in engineering machinery, automotive, railway, shipbuilding, and other industries.

Φ 5.5-25mm	Φ 5.5-20mm	Φ 16-52mm	Φ 25-80mm	Φ 60-120mm
汽车认证产品	帘线钢	冷镦钢	轴承钢	轴承钢
热机轧制品种	预应力钢	轴承钢	轴承钢	轴承钢
G/Q 定制系列	冷镦钢	弹簧钢	齿轮钢	齿轮钢
冷镦钢	普碳钢	普碳钢	耐候钢	耐候钢
弹簧钢	弹簧钢	工具钢		
轴承钢	轴承钢	超低碳钢		
免退火冷镦钢				

高端产品与规格

HIGH-END PRODUCTS AND SPECIFICATIONS

免退火、非调质冷镦钢

低温大变形轧制 + 超缓冷技术
SCM435 盘条 Rm 低于 800MPa。

ANNEALING-FREE,
NON-QUENCHED
AND TEMPERED COLD
HEADING STEEL

Process: Low-Temperature Large-Deformation Rolling + Ultra-Slow Cooling Technology
Performance: SCM435 coil rod with tensile strength (Rm) below 800MPa

大规格高强度耐腐蚀螺栓用钢

LARGE-SPECIFICATION
HIGH-STRENGTH
CORROSION-RESISTANT BOLT
STEEL

微合金化 + 控轧控冷 + 简化球化退火, 10.9 级耐候螺栓 -40°C 冲击韧性 Kv2 > 40J。

Process: Microalloying + Controlled Rolling and Cooling + Simplified Spheroidizing Annealing
Application: 10.9-grade weathering-resistant bolts with low-temperature impact toughness (Kv2 > 40J) at -40°C

合金化设计 + 微合金化 + 高洁净度控制技术, 用于 12.9 级以上超高强螺栓。

Process: Alloy Design + Microalloying + High Cleanliness Control Technology
Application: Ultra-high strength bolts of grade 12.9 and above

高级冷镦钢

ADVANCED COLD
HEADING STEEL

超高品质高强度冷镦钢

ULTRA-HIGH
QUALITY HIGH-
STRENGTH COLD
HEADING STEEL

高洁净度控制技术 + 防脱碳控制技术实现 SCM435 盘条脱碳层 ≤ 0.6%DB 类夹杂物 ≤ 1.0 级, Ds ≤ 0.5 级。

Process: High Cleanliness Control Technology + Anti-Decarburization Control Technology
Performance: SCM435 coil rod with decarburization layer ≤ 0.6%D, Type B inclusions ≤ 1.0 grade, Ds inclusions ≤ 0.5 grade

高强度耐延迟断裂钢

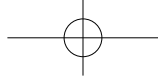
HIGH-STRENGTH
DELAYED
FRACTURE
RESISTANT STEEL

高强度硼钢

HIGH-STRENGTH
BORON STEEL

低氮控制 (N ≤ 45ppm) + 细晶组织调控技术, 提高冷成型性能或省略退火处理, 替代部分 SCM435。

Process: Low Nitrogen Control (N ≤ 45ppm) + Fine Grain Structure Control Technology
Advantage: Improved cold formability or omission of annealing treatment, can partially replace SCM435



高品质线钢 HIGH-QUALITY WIRE ROD

高品质弹簧钢: 炉容增加, 有利于夹杂物的稳定控制; 摩根水箱、新型风冷线, 有利于消除异常组织、全脱碳。

高强度桥梁缆索用钢: 解决线材通条性能波动问题, 通条强度由 $\leq 100\text{MPa}$ 降低到 $\leq 50\text{MPa}$, 索氏体率由 $\geq 85\%$ 提高到 $\geq 90\%$ 。

High-Quality Spring Steel:

Increased furnace capacity facilitates stable inclusion control.

Utilization of Morgan cooling system and new air-cooling line effectively eliminates abnormal microstructure and complete decarburization.

High-Strength Steel for Bridge Cable Systems:

Addressed the issue of mechanical property variation along the entire wire rod length:

Tensile strength variation reduced from $\leq 100\text{ MPa}$ to $\leq 50\text{ MPa}$.

Percentage of pearlite microstructure increased from $\geq 85\%$ to $\geq 90\%$.



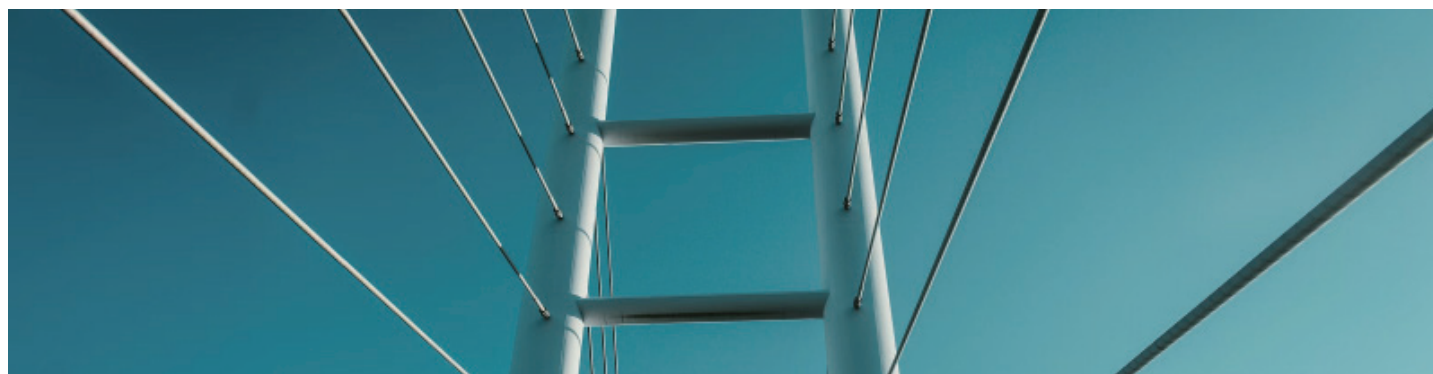
高品质弹簧钢

HIGH QUALITY SPRING STEEL



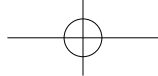
高品质弹簧钢

HIGH QUALITY SPRING STEEL



高强度桥梁缆索用钢

HIGH-STRENGTH BRIDGE CABLE STEEL



高品质轴承钢

HIGH QUALITY BEARING STEEL

转型升级搬迁后将进一步提高钢材的洁净度、组织控制和均匀性。

高品质轴承钢： RH 炉由蒸汽泵改为机械泵，进一步降低氧含量，由 $\leq 9\text{ppm}$ 降低到 $\leq 6\text{ppm}$ ；大方坯重压下工装，碳偏析指数由 1.13 降低到 1.05 以下，盘条网带状组织由 ≤ 3.0 级降低到 ≤ 2.0 级。

The relocation for transformation and upgrading will further enhance the steel's cleanliness, microstructure control, and uniformity.

RH Degasser Upgrade: Changed from steam pump to mechanical pump, reducing oxygen content from $\leq 9\text{ ppm}$ to $\leq 6\text{ ppm}$.

Bloom Heavy Reduction Technology: Reduced the carbon segregation index from 1.13 to below 1.05.

Microstructure Control: Improved the network and banded structure in wire rod from $\leq \text{Grade } 3.0$ to $\leq \text{Grade } 2.0$.



高品质轴承钢

HIGH QUALITY BEARING STEEL



高品质轴承钢

HIGH QUALITY BEARING STEEL

我们的使命与愿景

OUR MISSION AND VISION

迈向高端，智造未来

邢钢科技，以转型升级为引擎，以突破创新为使命。我们致力于打造超越国际标准的精品钢材，突破关键材料瓶颈，赋能中国高端制造。

未来，我们将携手合作伙伴，共建特钢产业生态圈，引领绿色、智能的钢铁新材料革命，共同书写民族特钢产业的新篇章。

ADVANCING TO HIGH-END, SMART MANUFACTURING FOR THE FUTURE

Xinggang Technology is driven by transformation and upgrading, with a mission to achieve breakthrough innovations. We are committed to producing high-quality steel products that surpass international standards, overcoming key material bottlenecks, and empowering China's high-end manufacturing sector.

In the future, we will collaborate with partners to build a special steel industry ecosystem, leading the green and intelligent revolution in new steel materials, and jointly writing a new

企业愿景： 成为国际特钢长材创
新型引领企业

CORPORATE VISION

TO BECOME AN INNOVATIVE GLOBAL LEADER IN SPECIAL STEEL LONG PRODUCTS

企业使命： 共建特钢产业生态圈

CORPORATE MISSION

TO CO-CREATE A SPECIAL STEEL INDUSTRY ECOSYSTEM

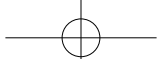
四川空分设备签约

SICHUAN SASPG
EQUIPMENT
CONTRACT



KOCKS (德国) 三辊 轧机设备签约

KOCKS (GERMANY)
3-ROLL REDUCING MILL
EQUIPMENT CONTRACT



特诺恩 (意大利)
电炉设备签约

TENOVA (ITALY)
ELECTRIC ARC FURNACE
EQUIPMENT CONTRACT

邢台钢铁有限责任公司
XINGTAI IRON AND STEEL CORP., LTD



邢台钢铁有限责任公司转型升级搬迁改造项目合作

签约仪式



普锐特 (美国)
轧机设备签约

PRIMETALS (USA)
ROLLING MILL
EQUIPMENT
CONTRACT

邢台钢铁有限责任公司转型升级搬迁改造项目合作

签约仪式



HISMELT
融还原专利技术签约

HISMELT
SMELTING REDUCTION
PATENT TECHNOLOGY
CONTRACT

邢台钢铁有限责任公司转型升级搬迁改造项目合作

签约仪式



CONTRACT
PARTNER

期待与您的合作

LOOKING FORWARD TO
COOPERATING WITH YOU

