



江苏宏基 新材料股份有限公司

Jiangsu Hoken High-tech New Materials Co., Ltd.

等静压石墨材料研发与生产领军企业

Leading Enterprise in R&D and Production of Isostatic
Graphite Materials

江苏宏基新材料股份有限公司

Jiangsu Hoken High-tech New Materials Co., Ltd.

www.hokencarbon.com



0527-80709860
0527-80311777

董事长寄语

CHAIRMAN'S MESSAGE

石墨，这一蕴藏于天地亿万年间古老材料，承载着大地的记忆，点燃未来的引擎，宏基高新深耕石墨材料领域，我们深谙材料的本质，致力于开拓应用的边界，我们始终站在材料创新的原点，眺望产业无界的远方。

宏基高新专注洞悉您的核心需求，为您量身打造高端化、个性化专属解决方案。我们不止是优质供应商，更是您值得托付的材料顾问与共创伙伴。宏基高新愿与您携手一路同行，共创产业未来，共享创新价值。

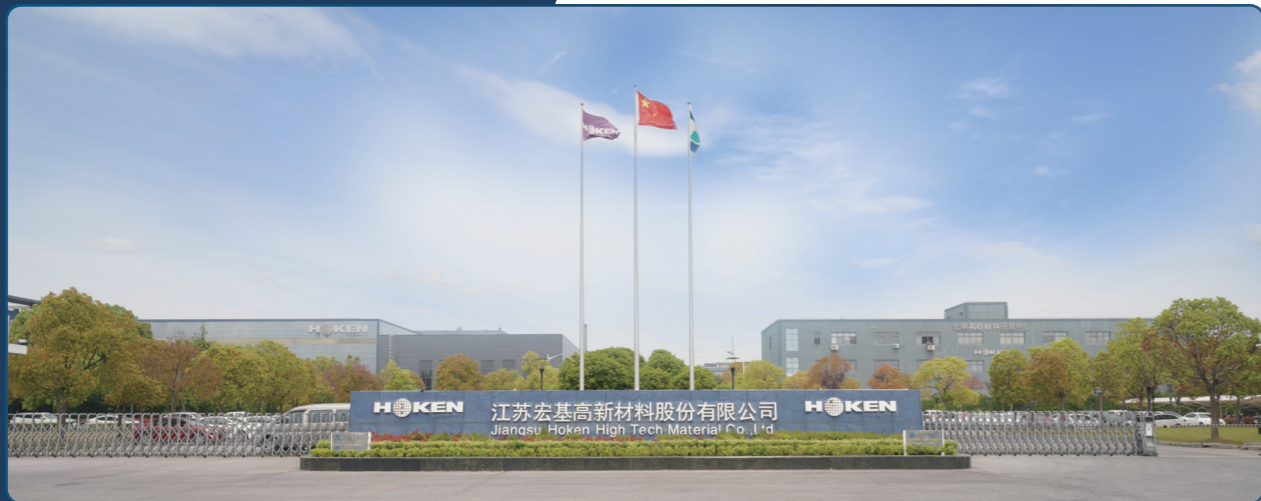
Graphite, an ancient material formed over hundreds of millions of years, carries the memory of the earth and ignites the engine of the future. Hoken High-tech has been deeply involved in the graphite materials field. We deeply understand the essence of materials and are committed to expanding the boundaries of application. We always stand at the origin of material innovation, gazing at the boundless horizon of industry.

Hoken High-tech focuses on understanding your core needs, tailor-making high-end, personalized exclusive solutions for you. We are not just a high-quality supplier, but also a trustworthy materials consultant and co-creation partner. Hoken High-tech is willing to walk alongside you, co-creating the future of the industry and sharing the value of innovation.



走进宏基

ABOUT HOKEN



江苏泗阳基地
Jiangsu Siyang Base



宁夏银川基地
Yinchuan Base, Ningxia



自2011年成立以来,江苏宏基新材料股份有限公司深耕等静压石墨领域,已发展成为国内该领域的先进制造企业之一,是江苏省内唯一高端等静压石墨材料全链条生产企业。公司总部位于江苏泗阳经济开发区,注册资本**36,351.78**万元。在江苏泗阳和宁夏银川设有两大生产基地,总投资**20**亿元,年总产能达**30000**吨,公司具备精磨、混捏、压型、焙烧、浸渍、石墨化、机加、提纯等全链条技术底蕴和生产能力,致力为客户提供定制化解决方案。先后获评国家高新技术企业、国家级专精特新“小巨人”企业及国家专精特新“重点小巨人”企业等荣誉,拥有发明专利和实用新型专利**72**项。2022年,经江苏省证监局备案,江苏宏基进入上市辅导期。

Since its establishment in 2011, Jiangsu Hongji Advanced Materials Co., Ltd. has been deeply engaged in the field of isostatic graphite and has grown into one of the leading manufacturing enterprises in this sector in China. It is the only fully integrated producer of high-end isostatic graphite materials in Jiangsu Province. The company is headquartered in the Siyang Economic Development Zone in Jiangsu, with a registered capital of **363.5178** million yuan. With two major production bases located in Siyang, Jiangsu and Yinchuan, Ningxia, the company has a total investment of **2** billion yuan and an annual production capacity of **30,000** tons. It possesses comprehensive in-house capabilities across the entire process chain, including fine grinding, mixing and kneading, forming, baking, impregnation, graphitization, machining, and purification, and is committed to providing customized solutions for its customers. The company has been recognized as a National High-Tech Enterprise, a National Specialized, Refined, Distinctive, and Innovative "Little Giant" Enterprise, and a National "Key Little Giant" Enterprise in the specialized and innovative sector. It holds **72** invention and utility model patents. In 2022, with the filing by the Jiangsu Securities Regulatory Bureau, Jiangsu Hongji entered the listing guidance period.

核心数据

CORE DATA

注册资本 **36,351.7859万元**

Registered Capital: 363.517859 million yuan

生产基地

江苏泗阳 宁夏银川 2大基地

Production Bases: 2 major bases in Jiangsu Siyang and Ningxia Yinchuan

总投资额 **20亿元**

Total Investment: 2 billion yuan

年产能 **30,000吨**

Annual Production Capacity: 30,000 tons

研发团队

汇聚外籍专家及国内行业专家领衔的40余人专业团队

A professional team of over 40 members led by foreign and domestic industry experts

生产能力

**自主研发 12 英寸大硅片专用
超大尺寸石墨材料**

凭借**独家技术突破**, 成功研制

φ1400mm × 1100mm

φ1200mm × 1100mm

不断突破大尺寸规格, 以客户为中心,
致力于提供**专属解决方案**

Production Capability

Independently developed ultra-large-size graphite material dedicated to 12-inch large silicon wafers.

Through exclusive technological breakthroughs, successfully developed φ1400mmx1100mm

φ1200mmx1100mm

Continuously breaking through large-size specifications, customer-centric, committed to providing exclusive solutions

成品灰分含量 **≤5PPM**

Finished Product Ash Content: 5 PPM

专利数 **72个**

Number of Patents: 72

认证体系

3大体系

ISO9001 ISO14001 ISO45001

Certification Systems

3 major systems

ISO9001 ISO14001 ISO45001

先进设备

ADVANCED EQUIPMENT

江苏宏基、宁夏宏基两大生产基地配备先进的生产设备与全套的研发设备,持续强化特种石墨材料生产领域的技术实力与产能规模,有力保障了产品的先进性和稳定性。公司具备精磨、混捏、压型、焙烧、浸渍、石墨化、机加、提纯等全链条生产能力。

Both the Jiangsu Hoken and Ningxia Hoken production bases are equipped with advanced production equipment and a complete set of R&D equipment, continuously strengthening technical capabilities and production scale in the field of specialty graphite material production, effectively ensuring product advancement and stability. The company possesses full-chain production capabilities, including fine grinding, kneading, forming, baking, impregnation, graphitization, machining, and purification.



2150冷等静压机
2150 Cold Isostatic Press



大单式环式炉 18室
Large Single-chamber Rotary Furnace, 18 Chambers



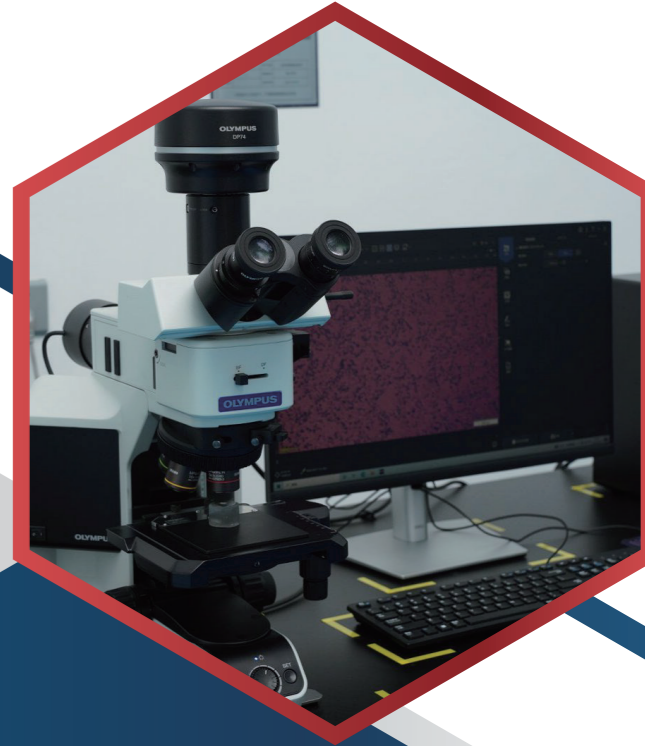
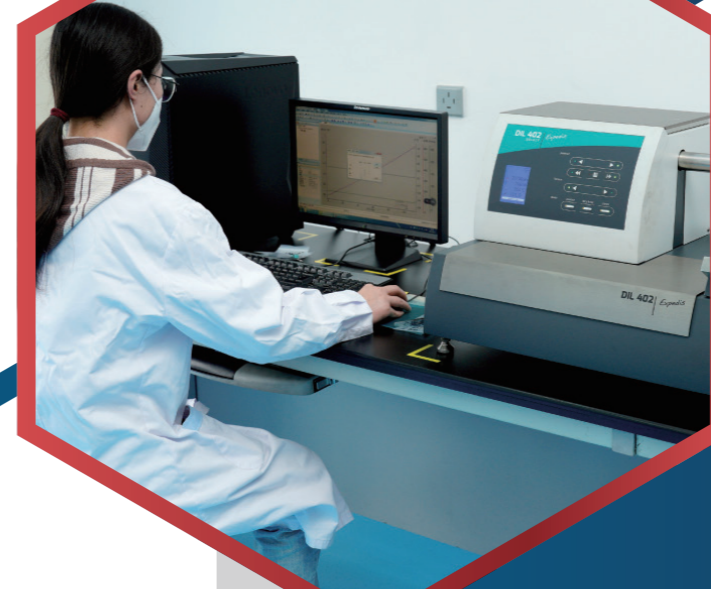
车底式炉
Car Bottom Furnace



石墨化炉
Graphitization Furnace

极致品控

EXTREME QUALITY CONTROL



江苏宏基以全产业链品控体系为核心保障,组建20余人的品控部门,将严苛质控贯穿研发、原料、生产、检测、交付全流程,从源头把控品质,在过程管理品质,全要素精准管控,以稳定可靠的产品品质守护合作价值,为客户发展筑牢品质根基。

Jiangsu Hoken High-tech New Materials Co., Ltd. is supported by a full industrial chain quality control system as its core safeguard, establishing a quality control department with over 20 personnel. Rigorous quality control is implemented throughout the entire process of R&D, raw materials, production, testing, and delivery. By managing quality from the source, overseeing quality during the process, and exercising precise control over all factors, the company ensures stable and reliable product quality, thereby safeguarding collaborative value and building a solid quality foundation for customer development.



技术性能 | TECHNICAL PERFORMANCE

它具备各向同性、超高纯度、优异抗热震性与高温稳定性,可精准维持单晶生长温场均匀性,有效降低杂质污染风险并提升硅棒晶质与成材率。

It features isotropy, ultra-high purity, excellent thermal shock resistance, and high-temperature stability, capable of precisely maintaining uniform temperature fields for crystal growth, effectively reducing the risk of impurity contamination, and improving silicon ingot crystal quality and yield rate.

材料类型 Material Type	材料牌号 Material Grade	粒径 Particle Size	体积密度 Bulk Density	电阻率 Resistivity	抗折强度 Flexural Strength	抗压强度 Compressive Strength	肖氏硬度 Shore Hardness	显气孔率 Apparent Porosity	灰分 Ash Content	热膨胀系数 (200°C) Coefficient of Thermal Expansion	规格尺寸 Specification Dimensions
		μm	g/cm ³	μΩm	MPa	MPa	HSD	%	ppm	10 ⁻⁶ K ⁻¹	
等静压 石墨材料 Isostatic Graphite Materials	HK4110	15	1.8	15	45	85	75	15	≤300	6.5	Φ960*870mm Φ970*750mm Φ970*900mm Φ1080*830mm Φ1100*1000mm Φ1080*800mm
	HK4220	16	1.76	14	40	70	55	15	≤200	4.2	Φ1400 (700) *1100mm 1500*750*400mm 350*650*1500mm 400*650*1500mm 290*390*590mm

表中所述数据为代表值,具体以实际检测值为准。

The data in the table are representative values, Photovoltaic Products actual test values shall prevail.

除上述产品尺寸外还有其他尺寸,可联系了解详情。

Besides the above product dimensions, other sizes are available. Please contact for details.

应用场景 | APPLICATION SCENARIO

等静压石墨是光伏单晶炉热场系统的核心功能材料,广泛用于加热器、坩埚、保温筒、导流筒等关键部件,为单晶硅棒生长提供稳定高温作业环境。

Isostatic graphite is the core functional material for the hot zone system of photovoltaic monocrystalline furnaces, widely used in key components such as heaters, crucibles, insulating cylinders, and guide tubes, providing a stable high-temperature operating environment for monocrystalline silicon ingot growth.

市场价值 | MARKET VALUE

契合光伏大尺寸硅片与N型高效化升级趋势,显著延长热场使用寿命、降低产线运维成本,成为光伏扩产增效、抢占高端制造赛道的关键基础材料。

Aligning with the trends of large-size silicon wafers and N-type high-efficiency upgrades in photovoltaics, it significantly extends the service life of hot zones, reduces production line operation and maintenance costs, and has become a key foundational material for photovoltaic capacity expansion, efficiency improvement, and seizing the high-end manufacturing track.

半导体领域产品

SEMICONDUCTOR FIELD PRODUCTS

第三代SiC半导体用石墨系列

Third-generation SiC Semiconductor Graphite Series

产品型号：HK330、HK500、HK550、HK600、HK660、
HK680、HK690

Product Models: HK330、HK500、HK550、HK600、HK660、HK680、HK690

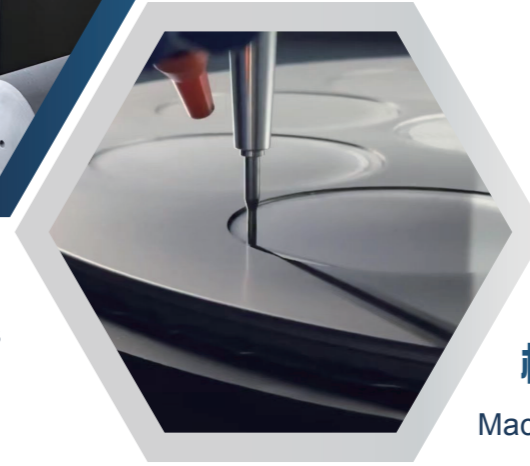
江苏宏基聚焦半导体用石墨材料核心赛道, 构建**原材料甄选 - 规范化生产 - 核心工艺处理 - 成品检测 - 机加-提纯-涂层-客户合作**一体化完整产业链, 全流程全要素保障半导体石墨高纯度、高精度、高稳定性核心需求, 为半导体行业稳健发展提供坚实的石墨材料支撑, 相继研发成功系列半导体用石墨材料并广泛投入市场应用。

Jiangsu Hoken focuses on the core track of semiconductor graphite materials, constructing an integrated complete industrial chain encompassing raw material selection, standardized production, core process treatment, finished product testing, machining, purification, coating, and customer cooperation. The entire process and all elements ensure the core needs of high purity, high precision, and high stability for semiconductor graphite, providing solid graphite material support for the steady development of the semiconductor industry. It has successively successfully researched and developed a series of semiconductor graphite materials widely applied in the market.



石墨材料

Graphite Materials



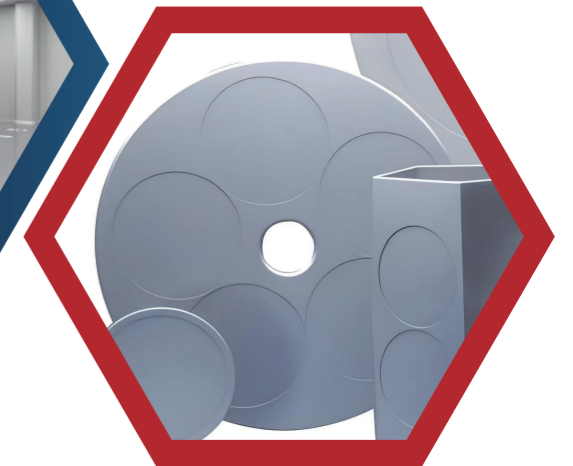
机加业务

Machining Business



提纯业务

Purification Business



碳化硅涂层制品业务

Silicon Carbide Coated Products Business

半导体领域产品

SEMICONDUCTOR FIELD PRODUCTS

我司自主研发的12英寸大硅片专用石墨材料已成功投放市场,实现规模化商业应用!

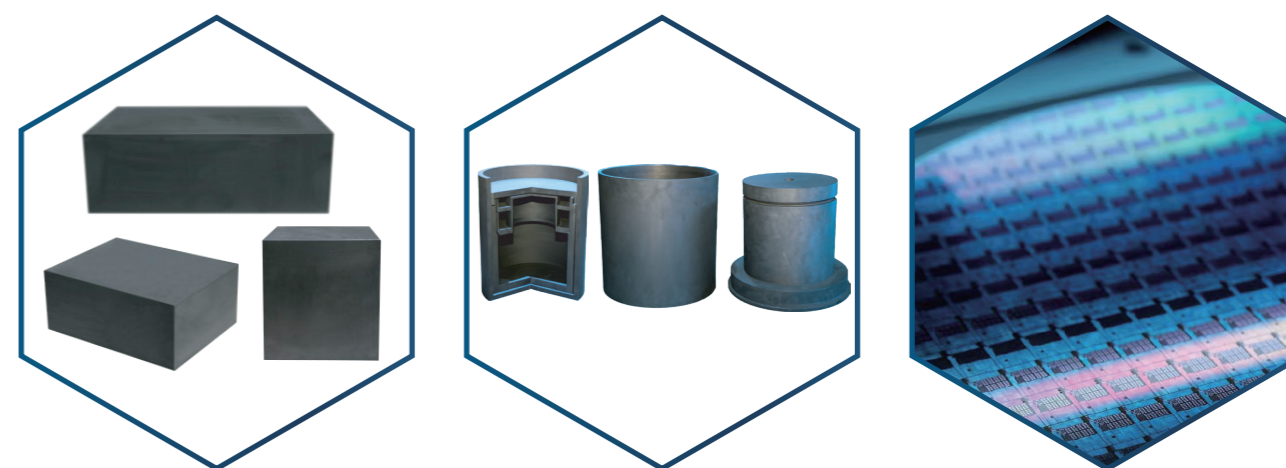
主要产品规格:Φ1100*1100mm、Φ1200(500)*1100mm,产品纯化后灰分含量≤5PPM,性能极致稳定,核心指标全面达到半导体大硅片对于石墨热场需求。

目前该系列产品已具备年产1万吨生产能力,全面实现12英寸大硅片专用石墨材料国产替代,以硬核自研实力打破国外技术垄断,筑牢半导体关键材料自主可控根基。

Our company's independently developed 12-inch large silicon wafer-specific graphite material has been successfully launched in the market, achieving large-scale commercial application!

Key product specifications: Φ1100*1100mm, Φ1200(500)*1100mm. After purification, the product's ash content is ≤5PPM, with exceptionally stable performance.

All core indicators fully meet the requirements for graphite thermal fields in semiconductor large silicon wafers. Currently, the series boasts an annual production capacity of 10,000 tons, fully realizing the domestic substitution of graphite materials for 12-inch large silicon wafers. With strong in-house R&D capabilities, we have broken foreign technological monopolies and solidified the foundation for independent control of key semiconductor materials.



厂商 Manufacturer	材料牌号 Material Grade	粒径 Particle Size	体积密度 Bulk Density	电阻率 Resistivity	抗折强度 Flexural Strength	抗压强度 Compressive Strength	肖氏硬度 Shore Hardness	气孔率 Porosity	灰分 Ash Content	热膨胀系数(600°C) Coefficient of Thermal Expansion	规格尺寸 Specification Dimensions
		μm	g/cm ³	μΩm	MPa	MPa	HSD	%	ppm	10-6K ⁻¹	
宏基(Hoken)	HK330	10	1.80	10	40	80	50	12	≤30	4.2	Φ870*900mm Φ970*900mm Φ1080*800mm Φ1100*1100mm Φ1200(500)*1100mm Φ350*1050mm 650*350*1300mm 650*350*1050mm
宏基(Hoken)	HK500	10	1.77	10	40	80	50	12	≤30	4.2	
宏基(Hoken)	HK550	10	1.84	10	50	90	50	9	≤30	4.2	
宏基(Hoken)	HK600	10	1.79	10	45	80	50	11	≤30	4.2	
宏基(Hoken)	HK660	10	1.86	10	55	90	55	8	≤30	4.2	
宏基(Hoken)	HK680	10	1.88	10	60	110	45	8	≤30	4.2	
宏基(Hoken)	HK690	10	1.90	10	65	120	60	5	≤30	4.2	

表中所述数据为代表值,具体以实际检测值为准。
The data presented in the table is representative; actual test values shall prevail.

除上述产品尺寸外还有其他尺寸,可联系了解详情。
In addition to the dimensions listed above, other sizes are available. Please contact us for further details.

持续发展

SUSTAINED DEVELOPMENT

为延伸产业链条、拓宽销售领域、提升产品核心竞争力,精准应对日趋激烈的市场竞争,公司斥资2.5亿元建设5000吨半导体用石墨智造中心项目。项目规划建设3万平方米标准化厂房,全新布局机加、提纯、涂层三大核心产线;以10000级洁净室为核心生产标准,严控生产全流程纯度标准,全方位满足客户需求。

公司现已具备纯化石墨材料的规模化量产与批量供货能力。

To extend the industrial chain, broaden the sales field, enhance product core competitiveness, and accurately respond to the increasingly fierce market competition, the company invested 250 million yuan to build a 5,000-ton semiconductor graphite intelligent manufacturing center project. The project plans to build 30,000 square meters of standardized factory buildings, with a new layout of three core production lines: machining, purification, and coating. It takes a Class 10,000 clean room as the core production standard, strictly controlling the purity standard throughout the entire production process to comprehensively meet customer needs. The company now possesses the capability for large-scale mass production and batch supply of purified graphite materials.



全球拓展

GLOBAL EXPANSION

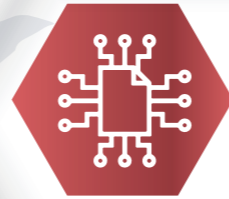
全球市场拓展方面,公司与韩国 KNJ 携手合作,合资成立宏基材料(韩国)有限公司(公司网址<http://www.hoken.co.kr/>),实现产业、技术、销售三大维度的深度互补。韩国宏基将作为公司海外产品制造基地与境外销售中心,持续推动公司产品进军东南亚市场,进一步延伸全球产业链布局。

In terms of global market expansion, the company cooperated with Korea KNJ to jointly establish Hoken Materials (Korea) Co., Ltd. (Company website: <http://www.hoken.co.kr/>), achieving deep complementarity in three dimensions: industry, technology, and sales. Korea Hoken will serve as the company's overseas product manufacturing base and overseas sales center, continuously promoting the company's products to enter the Southeast Asian market, further extending the global industrial chain layout.



应用领域

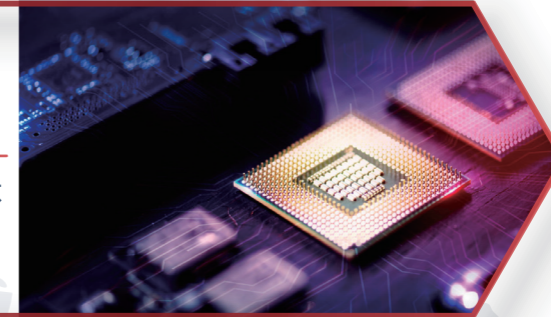
APPLICATION FIELDS



电子领域

Electronic Field

半导体、光电池、LED、下一代半导体
Semiconductor, Photovoltaic cells,
LED, Next-generation Semiconductors



工业机械领域

Industrial Machinery Field

模具生产、工业机械部件、热压
Mold production, Industrial
machinery components, Hot pressing



交通工具领域

Transportation Field

汽车、铁路、海运
Automotive, Railway, Marine



前沿工业领域

Advanced Industrial Fields

核能、航空航天、医疗
Nuclear energy, Aerospace, Medical



荣誉介绍

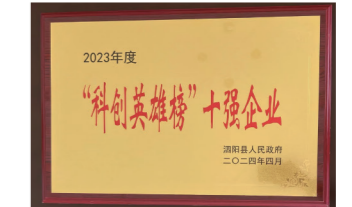
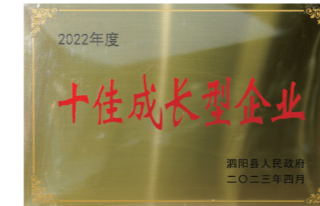
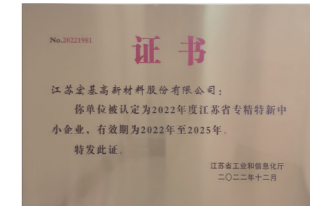
HONORS AND AWARDS INTRODUCTION

公司自成立以来，
凭借持续的努力和卓越的成绩，
荣获多项国家及行业认可的荣誉和认证：

Since its establishment, the company has earned multiple honors and certifications recognized by the national and industry authorities, thanks to its sustained efforts and outstanding achievements.

此外，公司在技术创新领域也取得了显著成果：

In addition, the company has also achieved significant results in the field of technological innovation.



- 国家高新技术企业**
National High-tech Enterprise
- 国家级专精特新“小巨人”企业**
National "Little Giant" Enterprise
- 国家专精特新“重点小巨人”企业**
National Key "Little Giant" Enterprise
- 省级专精特新中小企业**
Provincial Specialized & Innovative SME
- 聚才示范企业**
Model Enterprise for Talent Aggregation
- 省智力支持宿迁“双百工程”先进企业**
Provincial Advanced Enterprise (Suqian "Double 100" Project)
- 十佳成长型企业**
Top Ten High-Growth Enterprises
- 争先创优先进企业**
Advanced Enterprise in Striving for Excellence
- 科创英雄榜十强企业**
Top 10 in Science & Tech Innovation Ranking
- 研发投入十强企业**
Top 10 in R&D Investment
- 宿迁市领军人才企业**
Suqian Leading Talent Enterprise

展望未来

LOOKING AHEAD

遥望星空，始于足下；未来已来，我们共赴！

Gazing at the stars, starting from the ground; the future is here, and we embark together!

展望未来，江苏宏基新材料股份有限公司将始终坚守“技术革命、行业领先”的发展理念，坚定推进“半导体产品+光伏产品+核石墨+未来产业”(1+1+1+N)战略布局。

面向市场，以客户需求为核心导向，敏锐洞察市场变化，精准响应并高效满足客户多元化发展需求；我们聚焦核心产品精进深耕，深度践行国家战略部署。

聚力前行，依托前瞻性的战略规划、标准化的精益生产、全球化的市场布局、高效能的科学管理，公司必将与各界合作伙伴携手共进，以极致匠心铸就卓越产品品质，聚力共筑产业高质量发展的新图景！

Looking ahead, Jiangsu Hoken High-tech New Materials Co., Ltd. will remain steadfast in its development philosophy of "Technological Revolution, Industry Leadership" and resolutely advance the strategic layout of "Semiconductor Products + Photovoltaic Products + Nuclear Graphite + Future Industries" (1+1+1+N).

Market-oriented, with customer needs as the core driving force, we keenly observe market changes, respond accurately, and efficiently meet the diversified development demands of our customers. We focus on refining and deepening our core products, earnestly implementing the national strategic deployment.

Moving forward with collective strength, supported by forward-looking strategic planning, standardized lean production, globalized market presence, and efficient scientific management, the company will surely advance hand in hand with partners from all sectors. With utmost craftsmanship, we will forge excellent product quality and jointly build a new landscape of high-quality industrial development!