

Ferrotec（China）

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杭州大和热磁电子有限公司（滨江二工厂）
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电话：0571-86696188 传真：0571-86696199
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杭州和源精密工具有限公司
地址：杭州大江东产业集聚区青六北路668号
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杭州大和江东新材料科技有限公司
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电话：0571-86802099 传真：0571-82905758
邮编：311222

上海申和热磁电子有限公司
地址：上海市宝山区城市工业园区山连路181号
电话：021-36161010 传真：021-36160065
邮编：200444 网址：www.ferrotec.sh.cn

上海汉虹精密机械有限公司
地址：上海市宝山区城市工业园区山连路188号
电话：021-36162928 传真：021-36160778
邮编：200444 网址：www.hanhong.sh.cn

宁夏富乐德石英材料有限公司
宁夏银和新能源科技有限公司
地址：银川经济技术开发区光明西路25号
电话：0951-2019818 传真：0951-5676445
邮编：750021

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地址：银川经济技术开发区光明西路28号
电话：0951-2019818 传真：0951-5676445
邮编：750021

富乐德科技发展(天津)有限公司
地址：天津市武清区京滨工业园 景军西园2#
电话：022-22198500 传真：022-22198500
邮编：301712

四川富乐德科技发展有限公司
地址：四川省内江经济技术开发区安泰街北段
电话：0832-2955458 传真：0832-2206362
邮编：641000

富乐德科技发展(大连)有限公司
地址：大连保税区海明路179-6号 大连环普国际产业园 B04栋
电话：0411-39267630 传真：0411-39267626
邮编：116000

杭州中芯晶圆半导体股份有限公司
地址：杭州市大江东产业集聚区东垦路888号
邮编：311222

浙江先导精密机械有限公司
地址：衢州市常山县金川街道龙江路7号
电话：0570-5013999
邮编：324000

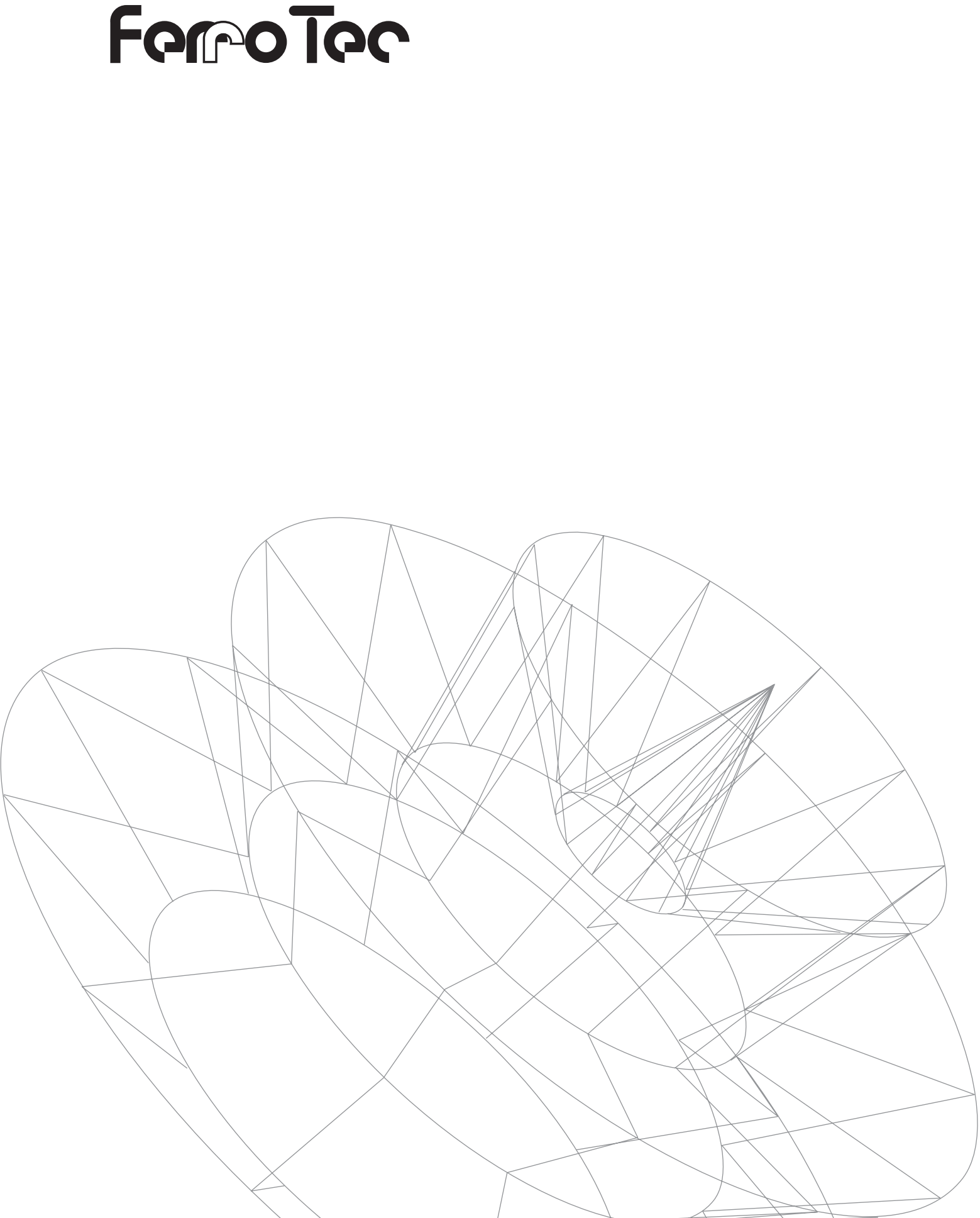
浙江先导热电科技股份有限公司
地址：衢州市常山县金川街道龙江路7号
电话：0570-5087180
邮编：324000

江苏富乐德石英科技有限公司
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江苏富乐德半导体科技有限公司
地址：江苏省东台市城东新区鸿达路18号
邮编：224200

安徽富乐德科技发展有限公司
地址：安徽铜陵市义安经济开发区（南海路以东+经七路以西）
邮编：244000

启东申通电子机械配件有限公司
地址：地址：启东市经济开发区新洪南路99号
邮编：226200



总裁致辞

PRESIDENT'S SPEECH



贺贤汉Ferrotec（中国）总裁
He Xianhan President of Ferrotec China

中国融入世界经济格局的速度为世瞩目，而世界同样也在分享着中国经济成长的果实。从上个世纪90年代发展而来，Ferrotec（中国）一如中国众多企业，在全球经济格局一体化的大环境下，也被带入到一个全新的领域和一个前所未有的高度。

游走在中国古老的传统文明和西方先进的科技文明之间，这些年来，我们也一直在探索如何实现跨越式发展，以及发挥后发优势的问题。所谓“中学为体，西学为用”，Ferrotec（中国）既是这一思想的积极倡导者，更是努力实践和亲身经历者。我们的文化起点源于中国，我们的核心技术来源国际高端领域，我们的经营视野展望世界全球。我们在全心经营热电致冷材料、半导体材料及配套设备、太阳能材料及发电配套设备、精密数控机械设备等高科技产业领域的同时，不断提升产业质量品牌及提高技术服务能力，并努力为国内外客户提供一流服务，从而为跻身具有国际一流水准的规模型集团企业，做好积极准备。

“风物长宜放眼量”，如何发展，如何更好的发展，如何和谐持续发展……我们始终站在发展的前沿思考问题。我们视产品质量为企业发展的生命线，我们视发展的每一年都为再创业之年。“勤勉、立志、开拓、创优”的信念，将把我们带向更加美好的明天。努力打造拥有自主知识产权的产品及全面实现Ferrotec（中国）集团转型，我们依然任重而道远。

While China is integrating into the world economy at a remarkable speed, the world has, in return, benefited from the country's economic growth. Like many Chinese enterprises, Ferrotec (China) has entered into a brand-new territory and reached an unprecedented height under the great circumstance of global economic integration since the early 1990s. Exposed to epochs of Chinese civilization as well as to advanced western technology, we have been exploring methods of growth and development as a nascent enterprise. Ferrotec (China) has been a pioneer, experiencing and advocating the motto "Traditional Chinese values aided with modern western technology". Originated from Chinese culture, we have state-of-the-art core technologies with a global business vision.

With our expertise in high technology industries such as thermoelectric materials, semiconductor materials and accessories, solar materials and related equipment as well as precision CNC machinery. We ceaselessly raise our quality level and brand reputation as well as our technological and service capabilities, providing first-rate services to customers at home and abroad. With this background, we are ready to become a world-class enterprise.

Having a long-term perspective on the frontiers of development, we are continually evaluating how to achieve growth and improvement and how to develop in a harmonious and sustainable manner. We consider product quality as vital to our business. We think of every year as a year to start. We believe in "diligence, aspiration, creativity and innovation" to bring us to a brighter future. Our goal is to create products with independent intellectual property rights and to fully transform Ferrotec (China).

目录 CONTENTS

勤勉立志 开拓创优
Diligence / Aspiration / Creativity / Innovation

01

公司概况
COMPANY PROFILE

15

产业 & 产品
INDUSTRY & PRODUCTS

27

文化传递
COMPANY CULTURE

35

发展历程
HISTORY & MILESTONES



公司概况 COMPANY PROFILE





欧洲

磁性技术德国公司(德国)
Ferrotec GmbH (Germany)
磁性技术西班牙公司(西班牙)
Ferrotec S.A (Spain)
磁性技术意大利公司(意大利)
Ferrotec S.R.L (Italy)
磁性技术法国公司(法国)
Ferrotec SARL (France)
磁性技术俄罗斯公司
Ferrotec Nord Corporation(Russia)

FerroTec

日本

Ferrotec Holdings Corporation
Ferrotec Corporation
Ferrotec Ceramics Corporation

韩国

磁性技术韩国公司
Ferrotec Korea Corporation (Korea)

台湾

台湾飞罗特股份有限公司(中国台湾)
Ferrotec Corporation (Taiwan)



中国香港

香港第一半导体科技股份有限公司
First Semiconductor Technology Holding Company Limited

新加坡

磁性技术新加坡公司(新加坡)
Ferrotec Singapore Pte., Ltd. (Singapore)

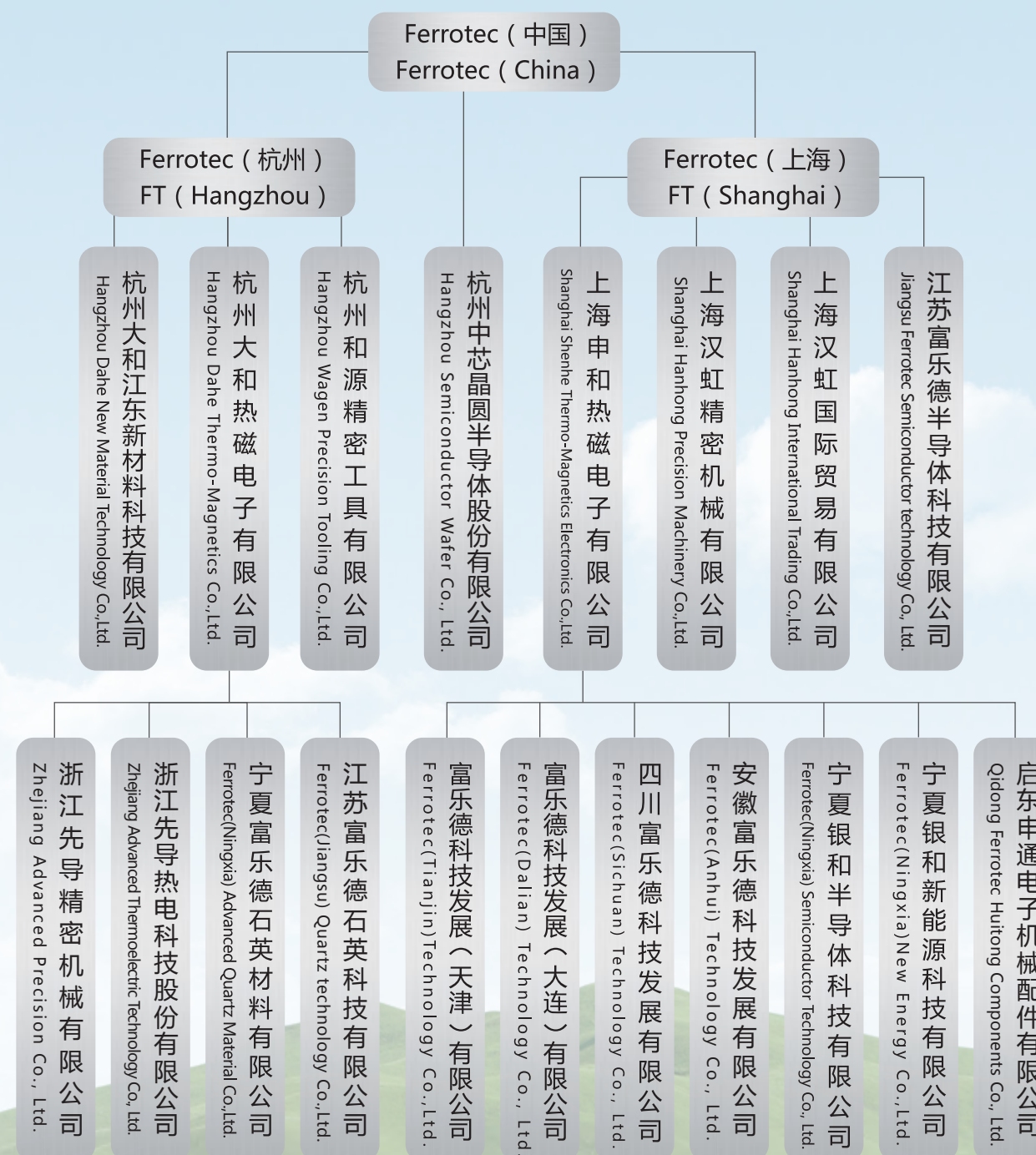
中国



地区分布



集团成员 GROUP MEMBERS



杭州大和热磁电子有限公司 Hangzhou Dahe Thermo-Magnetics Co.,Ltd.



杭州大和热磁电子有限公司系日本株式会社Ferrotec Holdings在中国的旗舰子公司。下设热电、真空、石英、硅产品、新能源五大事业部。

Hangzhou Dahe Thermo-Magnetics Co. Ltd. is a flagship subsidiary of Ferrotec Holdings Corporation in China. It has five business divisions, namely Thermoelectrics, Vacuum Technology, Quartz, Silicon Products and New Energy Division.

详细信息 DETAILED INFORMATION

成立时间：1992年1月

注册资金：78.9亿日元

建筑面积：129,533平米

Founded：January, 1992

Registered Capital：JPY7.89billion

Building Area：129,533 m²



相关事业 RELATED BUSINESS



杭州和源精密工具有限公司 Hangzhou Wagen Precision Tooling Co.,Ltd.



杭州和源精密工具有限公司是一家以研发、生产、销售高端精密切削刀具产品为主的大型企业。十几年来一直致力于研发、生产、销售硬质合金锯片、金刚石刀具、铁工冷锯、铝合金刀具等四大系列产品，该系列产品主要应用于各类材料的精密切断与开槽加工。在木材、家具制造、塑料、建材工业、汽车、轴承、金属精密部件制造领域都得到了广泛的应用。依靠成熟的生产工艺与持续不断的研发能力，和源产品在高端精密切割刀具市场上拥有强劲的竞争力，并持续为客户创造更多价值。

Hangzhou Wagen Precision Tooling Co., Ltd. is a large enterprise of research and development, production, sales of high-end precision cutting tools. For more than ten years, it has been committed to developing, producing and selling four series of products, namely carbide saw blades, diamond tool, blacksmith cold saw, aluminum alloy cutting tools. These products are mainly applied in the precision cutting and slot cutting of all kinds of materials and widely used in wood, furniture, plastics, building materials, automobiles, bearings, precision metal parts manufacturing. Relying on a mature production technology and continuous research and development ability, products have strong market competitiveness in the high-end precision cutting tool market and continue to create more values for the customers.

详细信息 DETAILED INFORMATION

- 注册资本：5.42亿日元
- Registered Capital：JPY 542 million
- 创立时间：2005年4月
- Founded：April, 2005
- 主要产品：研制、开发、生产金刚石锯片、硬质合金锯片及各种工具系列产品。
- Major business：R&D and production of diamond saw blades, carbide saw blades and other tool products.



杭州大和江东新材料科技有限公司 Hangzhou Dahe New Material Technology Co.,Ltd.

杭州大和江东新材料科技有限公司成立于2014年7月，注册资本2200万美元。是株式会社Ferrotec Holdings独立投资的企业。公司坐落于杭州大江东产业聚集区，主要从事各种耐高温、抗氧化、耐腐蚀、耐磨耗、高绝缘性的氧化物、碳化物、氮化物等精密陶瓷材料的研发、制造和销售，我们采用进口超精微细粉（亚微米及纳米微粉），引入先进的烧结工艺和精密陶瓷加工技术以及一套完善的检测和化学洗净设备，主要生产包括高纯氧化铝、氧化锆、无压烧结碳化硅、化学沉积碳化硅（CVD-SiC）、氮化硅、氮化铝等多种精密陶瓷部品，其广泛应用在半导体、液晶显示、精密仪器、电子、机械制造、生物医药、化工、新能源、航空以及通讯等多个领域。同时，我们也是一家能根据客户需求提供高精陶瓷设计和综合性解决方案的提供商。

Established in July 2014 with the registered capital of 22 million dollars, Hangzhou Dahe New Material Technology CO., Ltd. is exclusively invested by Ferrotec Holdings Corporation. Located in Jiangdong Industrial Zone, the company is mainly engaged in research and development, manufacturing and sales of fine ceramic materials, such as oxides, carbides and nitrides that have the advantage of thermostability, antioxidation, corrosion resistance, anti-brasion, high insulativity. We have adopted imported super subtle powder (sub-micron and nanometer powder) and introduced advanced sintering technique and precision ceramic processing technology as well as a set of perfect inspection and chemical cleaning equipment. We mainly manufacture high purity aluminum oxide, zirconia, sintered SiC, CVD-SiC, silicon nitride and aluminum nitride, which are widely used in semiconductors, liquid crystal display, precision instrument, electronics, machinery, biomedical technology, chemistry, new energy, aviation industries as well as telecommunication. We are also a supplier who is able to provide fine ceramic designing and comprehensive solutions.



宁夏富乐德石英材料有限公司 Ferrotec(Ningxia) Advanced Quartz Material Co.,Ltd.

宁夏富乐德石英材料有限公司成立于2011年4月，注册资本1亿元人民币。是杭州大和热磁电子有限公司在宁夏回族自治区银川经济技术开发区投资的全资子公司。公司拥有一千级的净空房等国内一流的坩埚自动化生产设备，具有预计年产12万只单晶坩埚的产能。

Ferrotec (Ningxia) Advanced Quartz Material Co., Ltd. was established in April, 2011 with the registered capital of 100 million RMB, located in the Yinchuan Economic and Technological Development Zone of Ningxia Hui Autonomous Region and is a wholly owned subsidiary of Hangzhou Dahe Thermo-Magnetics Co., Ltd. The company has the domestic first-class crucible automated production equipment such as class 1000 clean room, with an annual capacity of 120,000 single crystal crucibles.



江苏富乐德石英科技有限公司 Jiangsu Ferrotec Quartz technology Co.,Ltd.

江苏富乐德石英科技有限公司成立于2018年5月，注册资本1亿元人民币。由杭州大和热磁电子有限公司控股，主要从事石英材料、半导体石英制品、硅制品、陶瓷制品、功率器件模块基板、热电材料、覆铜陶瓷基板、电子电力模块、半导体新材料研发、生产、销售。

Jiangsu Ferrotec Quartz technology Co., Ltd. was established in May 10th, 2018 with the registered capital of 100 million RMB, which is controlled by Hangzhou Dahe Thermo-magnetics Co., Ltd., mainly engaged in the research, manufacturing and sales of quartz material,

semiconductor quartz products, silicon products, ceramic products, power device module substrates, thermoelectric materials, copper coated ceramic substrates, electronic power modules and semiconductor new materials.



杭州中芯晶圆半导体股份有限公司

Hangzhou Semiconductor Wafer Co., Ltd.

杭州中芯晶圆半导体股份有限公司成立于2017年9月，系日本株式会社Ferrotec Holdings、杭州大和热磁电子有限公司、上海申和热磁电子有限公司合资建立。公司坐落于杭州大江东产业集聚区，主要从事高品质集成电路用的半导体硅片的研发与制造。总投资60亿元人民币，计划年产360万片8英寸半导体硅抛光片和年产240万片12英寸半导体硅抛光片。Ferrotec(中国)半导体硅抛光片项目的建成将填补国内8英寸以上产品用硅抛光片量产的空白，打破国外公司对中国半导体硅片材料市场的垄断，实现中国半导体制造行业真正的“中国制造”。

Established in September 28th, 2017, Hangzhou Semiconductor Wafer Co., Ltd. is invested by Ferrotec Holdings Corporation, Hangzhou Dahe Thermo-magnetics Co., Ltd., Shanghai Shenhe Thermo-magnetics Electronics Co., Ltd. Located in Jiangdong Industrial Zone, the company is mainly engaged in research and manufacturing of high quality semiconductor silicon chips for integrated circuits. The total investment is 6 billion RMB, it plans to produce 3 million 600 thousand slices of 8 inches semiconductor silicon polishing tablets annually and 2 million 400 thousand slices of 12 inches semiconductor silicon polishing tablets annually. The accomplish of this project will fill the gap in the production of silicon polishing tablets for more than 8 inches in domestic, break the monopoly of the Chinese semiconductor silicon polishing tablet material market by foreign companies, and realize the real "Made In China" in the Chinese semiconductor manufacturing industry.



浙江先导精密机械有限公司

Zhejiang Advanced Precision Co., Ltd.

浙江先导精密机械有限公司成立于2014年3月，注册资本5000万元人民币。是杭州大和热磁电子有限公司的产品加工基地，是专业从事高精密石英、真空零部件制造的合资企业，产品范围包括：自动化装备、半导体装备、航空航天、海洋设备、医疗器械等众多高科技领域。公司以世界一流先进技术为基础，以“勤勉立志，开拓创新”为企业经营理念，严格推行ISO9000质量管理体系和6S标准进行全面管理，坚持引进、消化、吸收与自主研发并重的可持续发展模式，致力于为优秀人才提供良好平台。

Established in 2014 with the registered capital of 50 million RMB, Zhejiang Advanced Precision Co., Ltd. is the product processing base of Hangzhou Dahe Thermo-magnetics Co., Ltd., which is a joint venture specializing in manufacturing of high precision quartz, vacuum parts, the products include: automation equipment, semiconductor equipment, aerospace, marine equipment, medical equipment and many other high-tech fields. Based on the world's first-class advanced technology, the company takes "diligence, aspiration, creativity, innovation" as the business philosophy, strictly implements the ISO9000 quality system and 6S standard to carry out comprehensive management, persists in the sustainable development model which combines import, digestion, absorption and independent research and development, and is committed to providing a good platform for the outstanding talents.



浙江先导热电科技股份有限公司

Zhejiang Advanced Thermoelectric Technology Co., Ltd.

浙江先导热电科技股份有限公司由杭州大和热磁电子有限公司控股，于2017年1月成立，注册资本1000万元人民币。主导热电项目，定位于民用市场，技术团队及管理团队依然是严谨的杭州热电事业部团队，生产的热电半导体制冷器主要应用在汽车、通信、航天航空等领域。

Zhejiang Advanced Thermoelectric Technology Co., Ltd. held by Hangzhou Dahe Thermo-magnetics Co., Ltd., established in January 10th, 2017 with the registered capital of 10 million RMB, which leads in the thermoelectric project, positions in civil market. Its technical team and the management team are still the rigorous team of the Hangzhou thermoelectric department. The thermoelectric semiconductor refrigerators are mainly used in automotive, communications, aerospace and other fields.

上海申和热磁电子有限公司


Shanghai Shenhe Thermo-Magnetics Electronics Co.,Ltd.




上海申和热磁电子有限公司作为株式会社Ferrotec Holdings在中国的另一旗舰子公司。下设TE事业部、新能源材料事业部、半导体硅片事业部、表面处理事业部、洗净事业部。


Shanghai Shenhe Thermo-Magnetics Electronics Co.,Ltd. is another flagship subsidiary of Ferrotec Holdings Corporation in China. It has five business divisions, namely Thermoelectrics, New Energy, Semiconductor Wafer, Surface Treatment and Cleaning Division.


详细信息 DETAILED INFORMATION


- 

成立时间：1995年5月
- 

注册资金：175.8亿日元
- 

建筑面积：44,151平米
- 

Founded : May, 1995
- 

Registered Capita : JPY 17.58 billion
- 

Building Area : 44,151 m²





上海汉虹精密机械有限公司 Shanghai Hanhong Precision Machinery Co.,Ltd.

上海汉虹精密机械有限公司以开发、生产和销售精密机械装备为主，专业生产半导体设备、光伏系列设备、大型工业洗涤设备、数控自动圆锯机、非金属及轻金属加工设备等专用配套设备。

Shanghai Hanhong Precision Machinery Co., Ltd. ("Hanhong") is a company dedicated in the development, manufacturing and sales of precision machines. Its main products are semiconductor equipment, photovoltaic equipment, large industrial washing equipment, automatic CNC circular saw machine, non-metallic and light metal processing equipment and so on.

详细信息 DETAILED INFORMATION

- 成立时间：2005年
- 注册资金：3970万美元
- 建筑面积：21,399平米

- Founded : 2005
- Registered Capita : USD 39.7 million
- Building Area : 21,399 m²



富乐德科技发展（天津）有限公司 Ferrotec(Tianjin) Technology Co.,Ltd.

富乐德科技发展（天津）有限公司成立于2011年6月，注册资本2000万元人民币。是上海申和热磁电子有限公司在中国北方地区全额投资的一家独立公司，目前的主导业务为精密零部件的洗净、再生服务，涉及范围包含：半导体、太阳能、TFT。

Ferrotec (Tianjin) Technology Co., Ltd. was established in june, 2011 with the registered capital of 20 million RMB, invested by Shanghai Shenhe Thermo-Magnetic Electronics Co., Ltd, is the first manufacturing basement located in Northern China area, The main current business is the precision parts cleaning & recycling for semiconductor, solar energy and TFT.



富乐德科技发展（大连）有限公司 Ferrotec(Dalian) Technology Co., Ltd.

富乐德科技发展（大连）有限公司成立于2016年12月，注册资本2000万人民币。主要从事电子技术；新材料技术开发、技术服务、技术转让、技术咨询；电子工业专用设备制造、销售；电子器件制造、销售；机械设备、金属制品销售及售后服务；清洗服务。

Founded in December, 2016 with the registered capital of 20 million RMB, it is mainly engaged in electronic technology, new material technology development, technical services, technology transfer, and technical consultation; the manufacturing and sales of equipment for electronic products; sales and after-sales service of mechanical equipment and metal products; cleaning service.



宁夏银和半导体科技有限公司

Ferrotec(Ningxia) Semiconductor Technology Co., Ltd.

宁夏银和半导体科技有限公司成立于2015年12月，总投资额2亿元，位于宁夏银川经济技术开发区内。主要生产8英寸掺磷、掺硼、掺砷单晶晶棒及4~6英寸半导体级掺砷、掺磷单晶晶棒。具有年产8英寸半导体级单晶硅片120万片的产能，产品涉及电子、半导体、集成电路、通讯、汽车、医疗、国防等产业领域。

Founded in December, 2015 with a total investment of 200 million RMB, it is located in the Ningxia Yinchuan Economic and Technological Development Zone. It mainly produces 8 inches phosphorus, boron, arsenic doping single crystal ingots and 4~6 inches arsenic, phosphorous doping semiconductor single crystal ingots. It is capable of producing 1.2 million pieces 8 inches monocrystalline silicon wafers for semiconductor. The products are applied in electronics, semiconductor, integrated circuit, communication, automobile, medical, national defense and other industries.



宁夏银和新能源科技有限公司

Ferrotec(Ningxia)New Energy Co.,Ltd.

宁夏银和新能源科技有限公司成立于2011年4月，目前投资总额3.9亿元，是上海申和公司投资的全资子公司。公司具备年产900吨8英寸及以下各种规格的太阳能单晶硅锭，以及年产2900吨125×125mm、156×156mm等规格的多晶硅锭的生产能力。公司拥有目前国内最大的200kg单晶炉及800kg多晶铸锭炉，已经全套先进检测设备，产品质量符合SEMI和国际标准，得到多家国际上市公司的认可和好评。

Founded in April, 2011 with a total investment of 390 million RMB, it is a subsidiary of Shanghai Shenhe Thermo-Magnetics Electronics Co., Ltd. The company is capable of producing 900 tons of 8" and less than 8" solar monocrystalline silicon ingots annually, and 2900 tons of polycrystalline silicon ingots used for 125*125 mm, 156*156 mm and customized size wafers. The company currently has China's largest 200 kg single crystal puller and 800 kg polycrystalline ingot casting furnace and a full set of advanced testing equipments. The product quality is in line with the SEMI and international standards, enjoying good reputations among many international public companies.



四川富乐德科技发展有限公司

Ferrotec(Sichuan) Technology Co., Ltd.

四川富乐德科技发展有限公司成立于2011年6月，总投资额约3500万人民币。是一家专业从事精密洗净、零配件加工以及相关配套服务的公司。公司具有完备的半导体、TFT和光伏及OLED生产设备和系统，公司清洗技术基于上海申和洗净部门十多年的洗净技术和管理经验。

Founded in June, 2011 with a total investment of about 35 million RMB, it is a professional cleaning company specializing in the areas of precision parts cleaning, spare parts processing, and related supporting services. The company has perfect semiconductor, TFT, photovoltaic and OLED production equipments and systems. It applies the cleaning technology transferred from Shanghai Shenhe Thermo-Magnetics Electronics Co., Ltd who has over ten years of experience in cleaning engineering and management.



安徽富乐德科技发展有限公司

Ferrotec(Anhui) Technology Co., Ltd.

安徽富乐德科技发展有限公司成立于2017年12月，注册资本5000万人民币。由上海申和热磁电子有限公司控股，主要从事电子技术研究服务、材料科学研究服务、液晶显示屏、半导体设备修复服务等。公司致力于修建全国最先进的洗净工厂，以铜陵为中心辐射周边400公里，主要为华中地区和华东地区的客户城市群服务。

Ferrotec (Anhui) Technology Co., Ltd. was set up in December, 2017 with the registered capital of 50 million RMB, held by Hangzhou Dahe Thermo-magnetics Co., Ltd., mainly engages in electronic technology research service, materials research service, liquid crystal display and semiconductor equipment repair service etc. The company is committed to construct the most advanced cleanup factory in the country, with 400 kilometers of radiation around Tongling, mainly serving customers in Central China and East China.



江苏富乐德半导体科技有限公司

Jiangsu Ferrotec Semiconductor technology Co., Ltd.

江苏富乐德半导体科技有限公司成立于2018年3月，注册资本1550万美元。是由日本磁性技术控股有限公司在东台市城东新区投资的专业从事半导体功率模块陶瓷覆铜基板(DBC)研发、应用、制造和销售的外商独资企业，项目总投资10亿元人民币，新建厂房9万平方米，年产半导体功率模块DBC基板1200万片。公司拥有超过二十年的DCB基板的制作经验，生产规模国内首位，产品处于国际领先水平。

Jiangsu Ferrotec Semiconductor technology Co., Ltd. was set up in March 16th, 2018 with the registered capital of 15.5 million dollars, is a wholly foreign-owned enterprise engaged in R & D, application, manufacturing and sale of semiconductor power module ceramic coated copper substrate, which is invested by Ferrotec Holdings Corporation in Dongtai City East New Area. The total investment of the project is 1 billion RMB, the new building is 90 thousand square meters, and the annual production of the Semiconductor power module DBC substrate is 12 million pieces. The company has more than twenty years of DCB substrate production experience, the production scale is in the first place in China, and the product is in the international leading level.



启东申通电子机械配件有限公司

Qidong Ferrotec Huitong Components Co., Ltd.

启东申通电子机械配件有限公司成立于2018年4月，注册资本3000万人民币。主要从事机械设备及零配件、电子产品制造、销售。

Qidong Ferrotec Huitong Components Co., Ltd. was founded in April, 2018 with the registered capital of 30 million RMB, mainly engaged in manufacturing and sales of mechanical equipment and spare parts, electronic products.



产业&产品

INDUSTRY & PRODUCTS



产业介绍 Industry Introduction

在半导体领域Ferrotec（中国）不仅为客户提供了品质卓越的半导体硅抛光片、石英坩埚、磁性流体真空传动装置、精密石英等制品，同时也提供高精度的精密机械和精密腔体零部件的加工，以及零部件的化学洗净、硬质阳极氧化和电镀等服务，为半导体设备制造商提供一整套产品解决方案和配套服务。

In the semiconductor industry, apart from high-quality silicon wafers, quartz crucibles, vacuum feed-throughs, fabricated quartzware, etc., Ferrotec (China) also provides high-precision machine tooling and chamber manufacturing as well as chemical cleaning, hard anodization and plating services. Ferrotec offers a complete set of solutions and services for semiconductor equipment manufacturers.

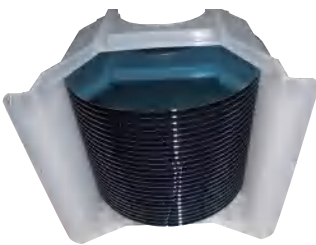


精密陶瓷 Fine Ceramics

精密陶瓷耐高温、抗氧化、耐腐蚀、耐磨耗、高绝缘性，能广泛用于半导体、机械、电子、通讯行业。

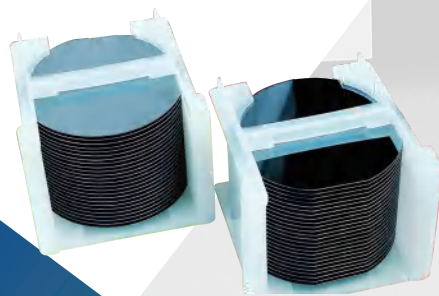
Due to its outstanding material performance characteristics such as high temperature resistance, oxidation resistance, corrosion resistance, abrasion resistance and high insulation, fine ceramics are widely applied in semiconductor, mechanical, electronics and communication industries.

半导体硅棒/硅片 Semiconductor Silicon Ingot & Wafer



<111>和<100>重掺As、Sb、B，4" -6" -8"硅单晶棒和电路级轻掺4" -6" -8"硅单晶棒，4" -6" -8"MOS品电路使用和微波电路以及存储器电路使用的外延衬底重掺的半导体硅片、磨片和抛光片。

<111>and<100> As,Sb or B heavily doped silicon ingot with diameters ranging from 4" to 6" and 8"; lightly doped 4", 6" and 8"silicon ingot; 4", 6" and 8" lapped and polished wafers for MOS IC and memory devices.



精密石英 Fabricated Quartz

高精度的石英制品不仅为 300mm 半导体芯片制程提供可靠保障，也能满足太阳能光伏行业在扩散制程中对低铁、低铜的要求。是一种在半导体、太阳能光伏及通讯光纤制造中广泛采用的理想材料。

High precision fabricated quartzware is an essential part for the 300mm semiconductor wafer processing. It can also meet the high requirements of low iron and copper content as well. It is an ideal material widely applied in semiconductor, PV and fiber communication industry.



半导体产业 SEMICONDUCTOR INDUSTRY



磁性流体真空传动装置 Ferrofluidic Seals And Vacuum Feedthroughs

磁性流体真空传动是把旋转运动传入真空容器的一种部品解决方案，具有长寿命、高可靠性、无污染、低阻尼和适应高速旋转等特性,广泛应用于真空设备及高温高压等有特殊密封要求的场合。

Ferrofluidic Vacuum Feedthrough is a device that transmits rotary motion into a vacuum chamber. It is of long service life, high reliability, free of contamination, low damping and high rotary speed, which is widely used in the ultimate rotary sealing solutions for vacuum environment.

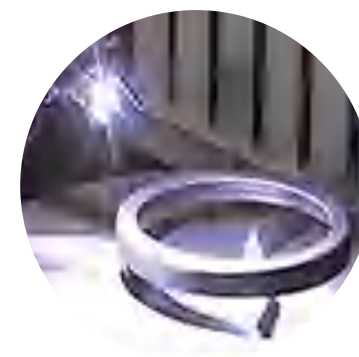
硅部件及组件 SiFusion & SiParts

SiFusion，硅熔接产品，采用30多项专利技术，使用超纯净多晶硅材料制作多晶硅舟，为12英寸、16-40纳米工艺提供超高纯度的硅片承载治具，减少硅片金属污染，错位等缺陷，为最前沿的工艺提供突破性解决方案。

SiParts，硅部件，整合硅材料的生产，切割，加工，洗净，致力于为8英寸、12英寸半导体蚀刻机设备提供高精密、高纯度、无颗粒污染的硅部件。

SiFusion, owning more than 30 patents, dedicates exclusively to the manufacture of poly silicon furnaceware products and is the technology's acknowledged leader. We provide high purity silicon boats for 16-40nm wafer process which help reduce slip and contamination.

SiParts integrates silicon ingot growth, cutting, machining and cleaning to provide high-purity and particle-free silicon parts for 8" and 12" etchers.



半导体表面处理 Surface Treatment

精密零部件精密洗净再生和电镀等半导体表面处理业务，适用于半导体和光电等相关产业。

Surface treatment service, including precision parts cleaning, refurbishment and plating mainly for semiconductor and optoelectronics related industries.

半导体级单晶炉

Semi-grade Single Crystal Silicon Puller

主要用于半导体级单晶硅棒的拉制。

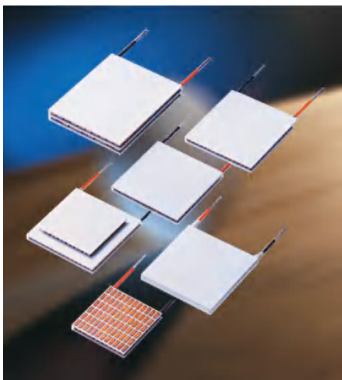
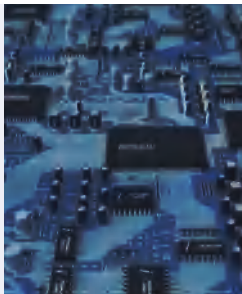
They are mainly applied in the single crystal silicon ingot growing in semiconductor industry.



半导体产业 SEMICONDUCTOR INDUSTRY

电子部品产业在光通信、生物技术、空调、汽车和各种家电产品中得到广泛应用。是具有非常广阔领域和前途的绿色环保产业。

Electronic parts are widely applied in optical communication, biotechnology, air condition, automobile and all kinds of home appliances. It is a green environmental protection industry with a bright future.



热电半导体制冷器 Thermoelectric Modules

用于关键电子部件、光学系统、医疗仪器及其它装置中的精密温度控制。典型应用包括小冰箱、激光管冷却等。

Thermoelectric modules are widely applied in critical electronic components, optical system, medical instrument, and precision temperature control in other devices, etc.

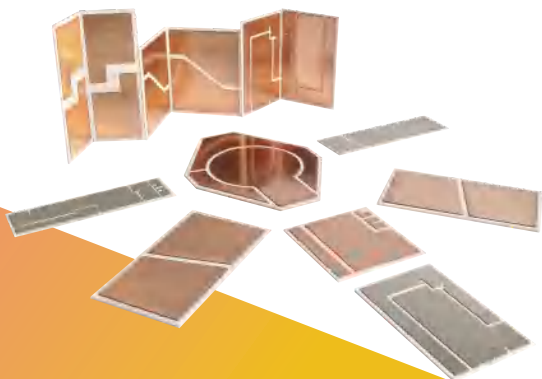
Typical application includes compact refrigerators and laser diode cooling.



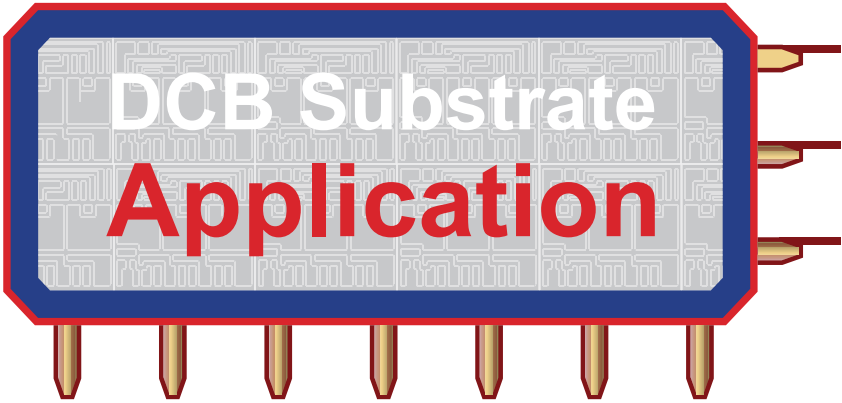
覆铜陶瓷基板 DCB Ceramic Substrate

覆铜陶瓷基板是一种通过热熔式粘合法，在高温下将铜箔直接烧结到氧化铝和氮化铝陶瓷表面而制成的一种复合基板。广泛应用于白色家电、热电制冷器、电力电子模块及汽车等领域。

Direct copper bonding (DCB) ceramic substrate is a kind of composite substrate, which is made by hot-melt bonding method, bonding the copper directly to the ceramic surface of alumina or aluminium nitride under high temperature. It has been widely applied in white household appliances, thermoelectric refrigerating unit, electric and electronic modules and automobile.etc.



电子部品产业
ELECTRONIC PARTS



工业
Industry

热电制冷器 Thermoelectric Coolers
空调 Air Conditioning
电源 Power Supplies



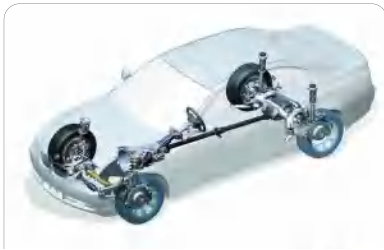
环保技术
Environmental Technology

聚焦太阳能电池
Concentrator Photovoltaic(CPV)
太阳能转换器 Solar Converters
风力发电站 Wind Power Plants
LED 照明 LED Lighting



电力电子技术
Power Electronics

IGBT模块 IGB Modules
IPM模块 IPM Modules
MOS模块 MOS Modules
其他半导体组件
Power Construction Semiconductor Elements



汽车
Automotive

ABS
电子传动 Electrical Power Steering
LED车灯 LED Lighting
混合动力汽车 Hybrid Vehicles
电动汽车 Electric Vehicles



航空航天
Aerospace

热电制冷器 Thermoelectric Coolers
激光 Laser
电源 Power Supplies



家电
Home Appliances

白色家电 White Goods
热电制冷器 Thermoelectric Coolers



铁路
Railway

高铁 High-speed Rail
动车 Bullet Trains



产业介绍 Industry Introduction ▶▶▶

Ferrotec (中国) 将保护地球环境作为企业发展的使命, 积极推进环保产业的发展。在太阳能光伏领域, Ferrotec (中国) 提供太阳能关联产业整体解决方案。

Ferrotec (China) takes ecological responsibility as a part of its corporate mission, actively promoting the development of environment friendly industries. From materials and components to integrated systems, Ferrotec(China) offers a broad range of solutions for the PV industry.

石英坩埚 Quartz Crucible

采用国际先进的加工工艺, 主要生产用于半导体、太阳能、特种玻璃用高质量石英坩埚。

产品规格尺寸从14"-24"。产品可用于半导体和太阳能单晶硅的拉制。

With an international advanced processing technology, we mainly produce high quality quartz crucibles applied in semiconductor, solar energy and special glass industries.

Product size ranges from 14" - 24". Our products can be used in the semiconductor and solar monocrystalline silicon ingot production.



光伏产业 PHOTOVOLTAIC INDUSTRY

产业介绍 Industry Introduction ▶▶

Ferrotec一直致力于先进制造技术的不断提升改进，全力打造现代化精密机械部品和系统装置加工产业。

Ferrotec has been dedicated to the continuous enhancement of advanced machining technology, working closely to build a modern precision machining and system device processing industry.

硬质合金锯片 Carbide Sawblade

和源硬质合金锯片是专门应用于各类材料的精密切断与开槽加工的精密刀具。在木材、家具制造、塑料、建材工业、汽车及金属精密部件制造加工领域都得到了广泛的应用。

Wagen carbide sawblade is the precision tool specialized in precise cutting and slotting. It is widely applied in woodworking, furniture making, plastic industry, building material industry, automobile and precision metal part manufacturing.

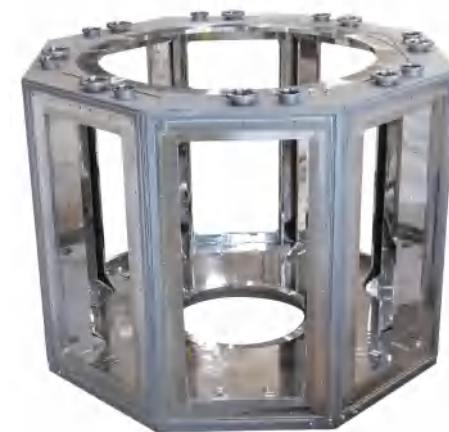


精密机械零部件

Precision Machining Parts

可根据客户需求，按图纸加工制造；为客户提供设计、制造、咨询等全套精密加工技术解决方案。

Manufacturing according to customer's drawings; providing a total solution of precision machining including designing, manufacturing and consultancy, etc.



大型腔体加工 Large Chamber Machining

Ferrotec拥有大型腔体加工设备和配套的表面处理及洗净能力，具备压力容器和特殊腔体的开发和加工能力。

采用不锈钢、碳钢、各类型铝材及一些特殊材料制成的腔体，可广泛应用于半导体装置、光纤通讯、液晶显示、食品包装、OLED、太阳能、医疗设备、核工业等领域。

Ferrotec has the capability of large chamber machining, surface treatment and cleaning. Ferrotec is also capable of developing and manufacturing pressure vessels and customized chambers.

The chambers, made of stainless steel, carbon steel, all kinds of aluminum and some special materials, are widely applied in semiconductor equipment, fiber communication, LCD, food packaging, OLED, solar industry, medical equipment and nuclear industry, etc.

各类通用机械 Various General Machinery

如圆锯机、数控铣床等。广泛用于木工家具、乐器、铝及铜等轻合金制品、航空部件、汽车内饰件、消费类电子产品、半导体、铁路车辆、模具及模型、游艇零部件等行业的轻金属和非金属材料的专业加工。

The machinery, such as circular saw machine and CNC router, is widely used in light metal and non-metallic materials processing in the industries of wood furniture, musical instrument, light alloys (aluminum and copper products), aviation parts, vehicle, inner decoration, consumer electronics, semiconductor, railway vehicle, moulds and models and yacht parts industries.



精密机加工产业 PRECISION MACHINING INDUSTRY

满足客户要求，
美化地球环境，
给社会注入梦想和活力。

Bringing Satisfaction to Customers,
Caring about the Environment,
Providing Dreams and Vitality to the World.



文化传递
COMPANY CULTURE



质量为企业生存之根本 质量为企业发展之灵魂
QUALITY IS VITAL TO OUR ENTERPRISE AND IS ESSENTIAL TO OUR GROWTH



质量第一的理念，贯穿于产品制造的每一个环节。
Ferrotec（中国）专注于产品质量的持续改善与提升，不断地满足并超越客户的需求。

The philosophy of putting quality first is realized in every process of production. Ferrotec(China) devotes itself to ceaseless improvement in product quality to exceed the customer's expectation .



以人为本 和谐发展

PEOPLE-ORIENTED DEVELOPMENT IN HARMONY

Ferrotec（中国）胸怀以人为本的管理理念，努力创造和谐发展之环境，致力于营造优秀的企业文化，实现企业与员工的共同发展。

With a people-orientated management philosophy, Ferrotec (China) strives for harmonious development with a refined corporate culture that enables the corporation and its employees to grow together.

创造价值 回馈社会 Creating value to contribute back to the society



Ferrotec（中国）自创立以来，一直受到各级政府的关怀与支持；
Ferrotec（中国）也积极创造价值，回馈社会，使Ferrotec（中国）成为Ferrotec集团中成长最快的组成部分。
Since the foundation，Ferrotec（China）has won support from governments at all levels. In return, it has also been actively making its contribution to the society，becoming the fastest-growing member of the Ferrotec Group.



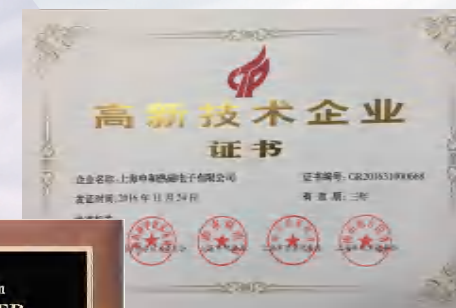
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以质量树企业之信誉 以质量赢全球之宾朋

QUALITY IS WHAT WE USE TO BUILD OUR REPUTATION AND CUSTOMER BASE

对质量坚持不懈的追求，使Ferrotec（中国）的产品和服务享誉全球，为Ferrotec赢得了客户长期的支持和信赖。
Constant pursuit of high quality makes Ferrotec(China)'s products and services renowned worldwide,
consistently winning customers' support and trust.

AMAT/TEL/KE/LAM CERTIFICATION



四川
Sichuan

浙江
ZheJiang

上海
ShangHai

银川
Yinchuan

发展历程

HISTORY & MILESTONES

COMPANY PROFILE
公司概况

INDUSTRY & PRODUCTS
产业&产品

COMPANY CULTURE
文化传递

HISTORY & MILESTONES
发展历程

孵化初创期（1992–1999）

1992年
杭州大和热磁电子有限公司成立
大和热磁导入生产热电半导体制冷器

1994年
大和热磁购置3200 m²一期半山工厂

1995年
上海申和热磁电子有限公司成立
申和热磁导入生产半导体热电材料、覆铜陶瓷基板

1996年
申和热磁导入生产电力电子模块
大和热磁购置3000 m²二期半山工厂
大和热磁导入生产磁性流体惯性阻尼器

1997年
大和热磁导入生产磁性流体真空传动装置

1998年
申和热磁导入生产木工机械设备系列产品
组建杭州大和精密部件有限公司

Incubation(1992–1999)

1992
Hangzhou Dahe Thermo-Magnetics Co.Ltd. was founded.
Dahe began producing thermoelectric semiconductor refrigerating modules.

1994
Dahe bought 3200 m² Banshan factory

1995
Shanghai Shenhe Thermo-Magnetics Electronics Co.,Ltd was founded.
Shenhe began producing DBC substrates.

1996
Shenhe began producing electric and electronic modules.
Dahe bought 3200 m² two stage Banshan factory
Dahe began producing magnetic fluid inertia dampers.

1997
Dahe began producing magnetic fluid vacuum feed-through

1998
Shenhe began producing a woodworking machinery product line
Hangzhou Dahe Precision Parts Co.,Ltd was incorporated

产业规模成长期（2000–2005）

2000年
大和热磁自建滨江一工厂竣工投产
大和热磁导入生产硬质合金锯片系列产品
大和热磁导入生产半导体石英制品、精密陶瓷部品

2002年
大和热磁导入生产精密钣金部件
申和热磁导入半导体洗净项目
申和机加工事业部第一台全自动硅片洗净机试制成功，正式进入半导体设备制造行业

2003年
申和机加工事业部第一台亚洲最大的全自动大型喷砂机试制成功

2005年
大和热磁导入单晶炉真空腔体及零部件项目
上海汉虹精密机械有限公司成立
杭州和源精密工具有限公司成立
大和热磁增建滨江二工厂竣工投产
大和热磁导入生产石英坩埚产品
大和热磁追加资本金到31.96亿日元

Scale Build-up (2000–2005)

2000
Dahe self-built factory in Binjiang was completed and put into operation
Dahe began producing carbide-tipped saw blades
Dahe set up 3-year Ferrotec scholarship at Zhejiang University

2002
Dahe began producing precision sheet metal parts
Shenhe introduced semiconductor cleaning works
Hanhong completed pilot production of the first fully-automated silicon wafer cleaner and enters into the semiconductor equipment manufacturing industry

2003
Shenhe completed pilot production of first-automated sandblaster, the largest in Asia

2005
Dahe introduced silicon single-crystal grower chamber and parts project.
Shanghai Hanhong Precision Machinery Co.,Ltd was founded
WAGEN Precision Tooling Co.,Ltd was founded
Dahe Binjiang +NO.2 factory was completed and put into operation
Dahe began producing quartz crucibles

多元化产业扩张期（2006–2010）

2006年

大和热磁导入生产太阳能电池系列产品
杭州先进石英材料有限公司成立

2007年

申和热磁投资总额达到57.8亿日元
大和热磁投资总额达到69亿日元

2009年

大和热磁注册资本增至38.1亿日元，投资总额达到70.6亿日元
申和热磁注册资本增至39.8亿日元，投资总额达到71.8亿日元
申和热磁多晶硅项目开始投产

2010年

大和热磁追加投资：投资总额达78.6亿日元，注册资本42亿日元
杭州晶鑫科技有限公司成立
FT（中国）的第三产业基地正式落户宁夏回族自治区银川市国家级经济开发区

Diversified Expansion (2006–2010)

2006

Dahe began producing silicon solar cells
Advanced Quartz Material (Hangzhou) Co.,Ltd. was founded.

2007

Investment in Shenhe increased to JPY 5.78 billion
Investment in Dahe increases to JPY 6.9 billion

2009

Dahe increased capital fund so that its registered capital reached to JPY 3.81 billion and its total investment reached to JPY 7.06 billion.
Shenhe increased capital fund so that its registered capital reached to JPY 3.98 billion and its total investment reached to JPY 7.18 billion.
Shenhe launched the polysilicon project and started the production

2010

Dahe increased capital fund so that its registered capital reached to JPY 4.2 billion and its total investment reached to JPY 7.86 billion.
Hangzhou Solartech Co., Ltd is founded
Ferrotec China settled down its third manufacturing base in Yinchuan national Economic and Technological Development Zone in the Ningxia Hui Autonomous Region.

产业结构优化期（2011–2018）

2011年

宁夏银和新能源科技有限公司、宁夏富乐德石英材料有限公司成立
申和热磁注册资本增至：76.8亿日元，投资总额增至：175.8亿日元
大和热磁石英事业部硅材料项目系列产品导入生产
富乐德科技发展（天津）有限公司注册成立

2013年

上海汉虹精密机械有限公司追加投资，投资总额由原2998万美元变更为5848万美元，注册资本由原1200万美元变更为2340万美元
申和热磁注册资本增至：90.8亿日元，投资总额增至217.8亿日元
宁夏银和新能源科技有限公司追加投资，注册资本由原2亿人民币变更为3亿人民币
宁夏富乐德石英材料有限公司追加投资，注册资本由原5000万人民币变更为7500万人民币

2014年

上海汉虹精密机械有限公司追加投资，投资总额由原5848万美元变更为9923万美元，注册资本由原2340万美元变更为3970万美元
宁夏银和新能源科技有限公司成功研制中国首例14英寸单晶硅棒

2015年

上海申和公司的“高性能N型半导体硅片”项目被列入2014年上海市引进技术的吸收与创新计划。
银川工厂荣获银川市开发区授予的“转型升级 创新发展”示范企业称号。
四川富乐德科技发展有限公司内江新工厂建设工程奠基开工仪式。
上海申和热磁电子有限公司注册资本由90.8亿日元增至100.8亿日元。

FerroTec（中国）与中科院上海硅酸盐研究所产学研合作协议签约仪式在上海硅酸盐所举行。

富乐德科技发展（天津）有限公司28纳半导体洗净生产线启动。

杭州大和江东新材料科技有限公司建设工程奠基开工仪式。
上海申和热磁电子有限公司“氮化铝覆铜陶瓷基板的产业化”项目通过上海市宝山区知识产权局“专利产业化项目”申请。
宁夏银和半导体科技有限公司正式工商注册设立。

2016年

四川富乐德科技发展有限公司建设工程竣工投产仪式
上海申和热磁电子有限公司追加投资25亿日元，由242.8亿日元增至267.8亿日元，注册资金由100.8亿元增至110.8亿日元。
宁夏银和半导体科技有限公司建设工程奠基开工仪式。
上海申和热磁电子有限公司半导体8英寸抛光线项目开工建设。
上海申和热磁电子有限公司追加投资100亿日元，由267.8亿日元增至367.8亿日元，注册资金由110.8亿日元增至145.8亿日元。

HISTORY & MILESTONES

Optimization(2011-2018)

2017年

富乐德科技发展（大连）有限公司开业典礼
四川富乐德科技发展有限公司授权两项发明创造专利：压紧环清洗保护及测量治具200910200093.1，一种缓蚀剂、清洗液及其他应用201110376957.2
浙江先导热电科技股份有限公司开业投产
宁夏银和半导体科技有限公司8英寸半导体硅抛光片项目竣工投产
富乐德科技发展（天津）有限公司通过ISO9001、ISO14001质量标准体系认证
宁夏富乐德石英材料有限公司通过海关AEO高级认证
内江经开区和上海申和就四川富乐德二期暨OLED及半导体部件洗净生产项目签约
杭州大和江东新材料科技有限公司竣工投产
杭州中芯晶圆半导体股份有限公司大尺寸半导体硅片项目开工

2018年

浙江汉恒热电科技有限公司注册成立
Ferrotec常山产业园建设工程开工奠基仪式
四川富乐德科技发展有限公司二期建设工程开工奠基典礼
江苏富乐德半导体科技有限公司注册成立
宁夏银和半导体科技有限公司二期建设工程开工奠基典礼
上海申和热磁电子有限公司追加投资30亿日元，现总计175.8亿日元
安徽富乐德科技发展有限公司建设工程开工奠基典礼
启东申通电子机械配件有限公司注册成立
江苏富乐德石英科技有限公司注册成立
杭州大和江东新材料科技有限公司二期工程项目开工奠基仪式
浙江先导精密机械有限公司注册资本增至5000万元人民币
杭州大和热磁电子有限公司注册资本增至78.9亿日元

2011

Ferrotec(Ningxia) New Energy Co.,Ltd. and Ferrotec(Ningxia) Advanced Quartz Material Co.,Ltd.were set up and registered.
Investment to FTS was added: the total investment is JPY 7.68 billion and the registered capital is JPY 17.58 billion.
The Quartz Business Division of FTH imported the Project of Silicon Material Product Series.
Ferrotec(Tianjin) Technology Co.,Ltd. Was set up and registered.

2013

Investment to Shanghai Hanhong Precision Machinery Co.,Ltd. was increased from US\$29.98 million to US\$ 58.48 million ; its registered capital was increased from US\$ 12 million to US\$ 23.4 million
Investment to FTS was added: the total investment is JPY 21.78 billion and the registered capital is JPY 9.08 billion.
The registered capital of Ferrotec(Ningxia) New Energy Co.,Ltd. was increased from RMB 200 million to RMB 300 million.
The registered capital of Ferrotec(Ningxia) Advanced Quartz Material Co.,Ltd. was increased from RMB 50 million to RMB 75 million.

2014

Investment to Shanghai Hanhong Precision Machinery Co.,Ltd. was increased from US\$58.48 million to US\$ 99.23 million ;its registered capital was increased from US\$ 23.4 million to US\$ 39.7 million.
Ferrotec(Ningxia) completes pilot production of the first 14" single crystal ingot in China

2015

FTS’ s project of "High Performance N Type Silicon Wafer" was awarded Shanghai Technology Uptake and Innovation Project.
Yinchuan Factory was awarded "Upgrading and Innovative Enterprise" by Yinchuan National Economic and Technical Development Zone.
The cornerstone laying ceremony of the new Neijiang Factory of Ferrotec Sichuan.
The registered capital of FTS was increased from 9.08 billion JPY to 10.08 billion JPY.

The signing ceremony of the Enterprise-University-Research Institute Cooperation between Ferrotec (China) and Shanghai Institute of Ceramics, Chinese Academy of Sciences was held at Shanghai Institute of Ceramics.
Ferrotec Tianjin launched the 28 nano semiconductor cleaning line.
The cornerstone laying ceremony of Hangzhou Dahe New Material Technology Co., Ltd.
The project of "Industrialization of AlN DBC" of FTS was awarded" Patented Industrialization Project" by Shanghai Baoshan Intellectual Property Administration.
Ningxia Yinhe Semiconductor Technology Co., Ltd. completed its business registration.

2016

The construction completion and production launching ceremony of Ferrotec Sichuan.
An additional investment of 2.5 billion JPN was made into FTS, which made the total investment increase from 24.28 billion JPN to 26.78 billion JPN, and made the registered capital increase from 10.08 billion JPN to 11.08 billion JPN.
The cornerstone laying ceremony of Ningxia (Ningxia) Semiconductor Technology Co., Ltd.
FTS launched the project of 8 inch polishing line for the semiconductor application.
An additional investment of 10 billion JPN was made into FTS, which made the total investment increase from 26.78 billion JPN to 36.78 billion JPN, and made the registered capital increase from 11.08 billion JPN to 14.58 billion JPN.

HISTORY & MILESTONES

HISTORY & MILESTONES

2017

The opening ceremony of Ferrotec (Dalian) Technology Co., Ltd.

Ferrotec(Sichuan)Technology Co., Ltd. authorized two invention and creation patents: cleaning protection and measuring tool of holding-down ring 200910200093.1, a kind of corrosion inhibitor, cleaning fluid and other applications 201110376957.2.

The production launching ceremony of Zhejiang Advanced Thermoelectric Technology Co., Ltd.

The construction completion and production launching ceremony of 8 inch semiconductor silicon polishing chip project of Ferrotec (Ningxia) Semiconductor Technology Co., Ltd.

Ferrotec (Tianjin) is certified by ISO9001 and ISO14001 quality standard system.

Ferrotec (Ningxia) Advanced Quartz Material Co., Ltd. has passed AEO advanced certification of customs.

Neijiang Economic Development Zone and Shanghai Shenhe signed a contract on the second phase of Ferrotec (Sichuan) and the cleaning production project of OLED and semiconductor components.

The construction completion and production launching ceremony of Hangzhou Dahe New Material Technology Co., Ltd.

Hangzhou Semiconductor Wafer Co., Ltd. started the large-size semiconductor silicon chip project.

2018

Zhejiang Hanheng Thermoelectric Technology Co., Ltd. was registered and established.

The founding ceremony of the construction project of the Ferrotec Changshan Industrial Park.

The foundation ceremony of the two phase construction project of Ferrotec (Sichuan)Technology Co., Ltd.

Jiangsu Ferrotec Semiconductor technology Co., Ltd. was registered and established.

The foundation ceremony of the two phase construction project of Ferrotec (Ningxia) Semiconductor Technology Co., Ltd.

An additional 3 billion yen investment was added to Shanghai Shenhe Thermo-Magnetics Electronics Co., Ltd, now the total investment is 17.58 billion yen.

The founding ceremony of the construction project of Ferrotec (Anhui) Technology Co., Ltd.

Qidong Ferrotec Huitong Components Co., Ltd. was registered and established.

Jiangsu Ferrotec Quartz technology Co.,Ltd. was registered and established.

The foundation ceremony of the two phase construction project of Hangzhou Dahe New Material Technology Co., Ltd.

Zhejiang Advanced Precision increased capital fund so that its registered capital reached to RMB 50 million.

Dahe increased capital fund so that its registered capital reached to JPY 7.89 billion.