



国际领先的磁力应用系统服务商
GLOBAL LEADING MAGNETIC EQUIPMENT SUPPLIER



COMPANY CULTURE 企业文化

企业愿景 国际领先的磁力应用系统服务商

核心价值观 创新永无止境

企业宗旨 用心为客户创造价值

企业精神 合作创新 追求卓越

企业口号 想您所想 共赢未来

客户服务理念 客户永远是第一位的

质量管理理念 质量是企业的生命



CORPORATE VISION ; GLOBAL LEADING MAGNETIC EQUIPMENT SUPPLIER

THE CORE VALUE ; ENDLESS INNOVATION

THE SPIRIT ; COOPERATIVE INNOVATION, THE PURSUIT OF EXCELLENCE

THE CORPORATE SLOGAN; THINK MAGNET, THINK HUATE

CUSTOMER SERVICE CONCEPT ;CUSTOMER IS ALWAYS THE FIRST,

QUALITY MANAGEMENT CONCEPT; QUALITY IS THE COMPANY' S LIFE



20万m²工业园鸟瞰图

Aerial view of Huate Industrial Park covering 200,000 square meters



COMPANY PROFILE

华特公司简介

山东华特磁电科技股份有限公司是国家创新型试点企业、国家级高新技术企业、国家磁电与低温超导磁体应用产业技术创新战略联盟理事长单位、中国重型机械工业协会常务理事单位，获得山东省省长质量奖。设有国家级博士后科研工作站、综合院士工作站、省级磁电工程技术中心、中国机械工业超导磁体工程技术中心，是全球范围内占地面积最大的磁力应用设备生产基地。

Shandong Huate Magnet Technology Co., Ltd is National Innovative Pilot Enterprise, National Key High-Tech Enterprise, Director Unit of National Magnetic-Electric and Cryogenic Superconducting Magnet Innovation Strategic Union and Standing Director Unit of China Heavy Machinery Industry Association, and has been awarded with Shandong Province Governor Quality Prize. We have set up National Post-Doctoral Scientific Research Workstation, Comprehensive Workstation for Academicians, Provincial Magnetic-Electric Engineering Technology Center and Superconducting Magnet Engineering Technology Center of China Machinery Industry. Huate is the largest production base by floor space for magnetic application equipment in the world.

公司总占地面积27万平方米，设有潍坊和临朐两个生产基地，公司总资产5.8亿元，员工600多人，专业生产低温超导磁力分选装备、磁力除铁器、磁选机、磁力搅拌器、超细粉碎分级设备、矿山成套设备、医用核磁共振成像超导磁体等。服务范围涉及矿山、煤炭、电力、冶金、有色金属、环保、医疗等10多个领域，产品远销澳大利亚和欧美等国家，客户超过2万家。

Our company covers an area of 270,000 square meters and has built two production bases in Weifang and Linqu, with total assets of 580 million CNY, employing more than 600 staffs. We are specializing in manufacturing cryogenic superconducting magnetic separation equipment, magnetic iron separator, magnetic separator, magnetic stirrer, ultra-fine grinding and classifying equipment, mining complete set equipment, etc, medical magnetic resonance imaging (MRI) superconducting magnet. Our service scope involves coal, mine, electricity, building material, metallurgy, non-ferrous metal, environmental protection, medical and so on more than 10 fields. With more than 20,000 customers, our equipment are exported to USA, Europe, Australia and many other countries.

公司与德国亚琛工业大学、澳大利亚昆士兰大学、中科院电工研究所、高能物理研究所等建立了长期的科研合作，公司承担了“1.5T核磁共振成像超导磁体”、“5T低温超导磁选机”、“立环高梯度磁选机”国家“十二五”科技支撑计划3项，先后有36项产品通过省部级鉴定，其中“立环高梯度磁选机”、“核磁共振成像超导磁体”等18项产品达到国际领先水平，完成国家重点新产品、国家火炬等项目50多项；主持和起草《立环高梯度磁选机》等国家机械行业标准17项；授权国家发明等专利147件，在美国、欧盟、澳大利亚等50多个国家和地区申请国际专利5件。

Our company has established long-term scientific research cooperation with RWTH Aachen University, University of Queensland in Australia, China Academy of Sciences Institute of Electrical Engineering, Institute of High Energy Physics, etc. The company undertakes the “1.5T magnetic resonance imaging (MRI) superconducting magnet”, “5T cryogenic superconducting magnetic separator” and “Vertical Ring High Gradient Magnetic Separator” in National Twelfth Five-Year Technology Supporting Plan, and 36 products have successively passed the appraisal of provincial and ministerial level. Among them, “Vertical Ring High Gradient Magnetic Separator”, “MRI superconducting magnet” and other 18 products reach the international leading level, and we have completed more than 50 projects in National Key New Products and National Torch Plan; Huate has presided over the drafting of [Vertical Ring High Gradient Magnetic Separator] and other 17 national machinery industry standards; We are holding 147 national invention and other patents and 5 international patents in USA, the European Union, Australia and other more than 50 countries and regions.

公司始终奉行“合作创新、追求卓越”的企业精神和“创新永无止境”的发展理念。致力于全球领先的超导磁体技术、磁共振技术、节能环保型高科技磁电技术、智能传感分选技术研发和产业化，发展成为“国际领先的磁力应用系统服务商”。

Our company always pursues the enterprise spirit of “cooperative innovation, the pursuit of excellence” and business ideas of “endless innovation”. Huate is committed to the development and industrialization of world's leading superconducting magnet technology, magnetic resonance technology, energy-saving and environment-friendly high-tech magnetic-electric technology and intelligent sensor based separation technology, becoming an “international leader of magnetic application system service provider.”



7万m²新力超导工业园区

Xinli Superconducting Industrial Park
covering 70,000 square meters



生产加工车间外景 Production And Processing Workshop Exterior



核磁共振超导磁体生产车间内景 Interior Of MRI Superconducting Magnet Production Workshop



COMPANY PROFILE

新力公司简介

潍坊新力超导磁电科技有限公司—于2009年在潍坊国家级高新区成立，注册资金1500万元，山东省高新技术企业。在超导技术领域与中科院高能物理研究所、中国科学院电工研究所、山东大学、东北大学、武汉理工大学等高等院校展开合作。主导产品为医用超导核磁共振（MRI）系列和工业用超导磁分离系列装备。

Weifang Xinli Superconducting Technology Co., Ltd, founded in Weifang Hi-tech Development Zone in 2009, is a hi-tech enterprise of Shandong Province with registered capital of CNY 15,000,000. In the superconducting technology field, Xinli collaborated with China Academy of Sciences Institute of High Energy Physics, Institute of Electrical Engineering, Shandong University, Northeastern University, Wuhan University of Technology and other famous institutions. The leading products include medical superconducting magnetic resonance imaging (MRI) series and industrial superconducting magnetic separation series equipment.

公司技术力量雄厚，“院士工作站”、“博士后科研工作站”、“中国机械工业超导磁体工程技术研究中心”、“山东省超导磁体工程技术研究中心”等研发平台均在我公司设立。设有以叶朝辉、严陆光院士为首的国内13位医学界、超导界权威专家组成的学术委员会，指导公司研发、产业化工作。

With a powerful technical strength, we have set up Academician Research Station, Post-doctoral Research Station, Superconducting Magnetic Technology Research Center in China machinery industry, Shandong Province Superconducting Magnetic Technology Research Center and other R & D platforms. An academic board, composing of thirteen authorized experts in medical and superconducting fields in China led by academician Ye Zhaohui and Yan Luguang, directs the R & D and industrialization for our company.

公司主要产品技术性能均达到国际领先水平，超导除铁器和超导磁选机填补了国内空白。1.5T MRI超导磁体系列产品分别列入国家“十二五”科技支撑计划、“山东省自主创新成果转化重大专项”，3.0T MRI超导磁体被列入“山东省重点研发计划项目”，7.0T MRI生命代谢超导磁体项目被列入山东省“十三五”科技发展规划；工业用超导磁分离装备分别被列入国家“十二五”科技支撑计划及“山东省国家自主创新示范区重点项目”。

The technical performances of our main products all reach the international leading level and the superconducting magnetic separators fill the domestic blank. The 1.5T MRI superconducting magnet series products are listed in National Twelfth Five-Year Technology Supporting Plan and Independent Innovation Achievement Transformation Major Special Projects of Shandong Province. The 3.0T MRI superconducting magnet is listed in Key R & D Planned Projects of Shandong Province. The 7.0T MRI life metabolism superconducting magnet project is listed in Shandong Province Thirteenth Five-Year Science and Technology Development Plan. The industrial superconducting magnetic separation equipment is listed in National Twelfth Five-Year Technology Supporting Plan and National Independent Innovation Demonstration Area Key Project of Shandong Province.

公司始终奉行“合作创新，追求卓越”的企业精神，致力于全球领先的医用超导磁体系列和工业用超导装备系列的研发与生产，全力打造成为“国际领先的超导磁体系统服务商”。

Our company always pursues the enterprise spirit of “cooperative innovation, the pursuit of excellence”, and is committed to the development and production of world's leading medical superconducting magnet series and industrial superconducting series equipment, becoming a “international leader of superconducting magnet system service provider”.

COMPANY MEMORABILIA

公司发展历程

1993年8月，公司董事长兼总裁王兆连和另外两位立志创一番事业的年轻人走到一起，筹措1万元，开启创业历程。

In August 1993, Zhaolian Wang, the President and Chairman, and the other two young men came together and decided to establish a business and borrowed CNY 10,000 in order to start up the business.

华特快速发展的核心动力是创新。创新成就了华特的卓越品质和跨跃式发展。

The core power to Huate's rapid development is innovation, and innovation has made Huate's excellent quality and dramatic development.

01 / Difficult start-up period
艰难创业期
(1993 -- 1999)

华特前身：临朐华光的初创阶段来自这两间瓦棚（原临朐路100号）



1994年，王兆连董事长在办公室翻阅技术手册

02 / Rapidly growing period
快速成长期
(2000 -- 2003)

2000年，鞭炮齐鸣庆祝乔迁新址（秦池路48号）



2003年潍坊华特磁电设备有限公司建厂十周年暨科技园竣工启用庆典仪式举行（华特路5777号）

03 / Develop & take-off period
发展腾飞期
(2004 -- 2007)

2004年，与中科院电工所顾国彪院士签订蒸发冷却技术开发合作协议



2007年实施企业股份制改革，积极开拓国际市场，产品出口三十多个国家

04 / Market Internationalization
市场国际化
(2008 --)

2008年，与中科院高能所合作开发的中国第一台低温超导除铁器北京鉴定会现场打破垄断坚冰仪式



2008年9月28日，国家博士后管理中心原主任庄子健和县领导为公司博士后工作站揭牌。

公司已成为全球磁电行业实力最强、规模最大、品种最全、服务最优的企业之一，铸就了中国磁电产品的经典，打造了世界磁电企业的驰名品牌，并将继续创造辉煌。

At present, our company has become one of the biggest enterprises with the largest scale, the most complete product varieties and best service in the magnetism industry all over the world, creating classics for magnetic products of China and building a famous brand of worldwide magnetism enterprise. Huate will continue to get brilliant achievement in the future.

Continuous development
06 持续发展



超导技术应用发展论坛
 1.5T核磁共振成像超导磁体新产品发布会

2016年4月26日，“超导技术应用发展论坛”和“1.5T（特斯拉）核磁共振成像超导磁体新产品发布会”在潍坊新力超导磁电科技有限公司隆重召开



2017年8月18日，“3.0T核磁共振分子成像超导磁体样机检测暨超导磁体技术协同创新研讨会”在潍坊隆重召开



2018年3月7日，华特磁电与德国科洛尼矿业集团举行隆重签约仪式

Successfully listed
05 成功上市
 (2014年12月)



2014年12月8日，公司“新三板”挂牌仪式在全国中小企业股份转让有限责任公司隆重举行。华特磁电成为行业第一家成功登陆全国性资本市场的企业（股票代码：831387）



2015年7月，乔迁至新工业园（华特路6999号）

2012~2013



2012年7月1日，全球首台零挥发5.5T低温超导磁选机下线仪式暨“十二五”国家科技支撑计划项目启动仪式在潍坊新力超导举行



2013年2月，王兆连董事长荣获第四届山东省省长质量奖，山东省原省长姜大明为王总颁奖

2009



2009年10月30日，潍坊新力超导磁电科技有限公司揭牌仪式举行



2009年12月14日，潍坊新力超导磁电科技有限公司与中科院高能物理研究所签订战略合作协议

ENTERPRISE HONOR

企业荣誉

公司先后承担国家“863”和“十二五”科技支撑计划 3 项、承担国家重点新产品计划、国家火炬计划、国家星火计划等共计 25 项，省科技攻关、科技发展计划、技术创新等计划 48 项；完成并通过省级鉴定的新产品 36 项，共获省部级科技进步奖和专利奖 15 项，申请和被确权的国家专利 147 件，4 件发明专利通过 PCT 途径申请 50 个国家的专利，主持和参与制订国家行业标准 17 项。这些成果带动了产业升级，促进了企业的快速发展。

The company has successively undertaken 3 projects in the National "863" Plan and National Twelfth Five-Year Technology Supporting Plan, and 25 projects in National Key New Products, National Torch Plan and National Spark Plan, and 48 projects in Shandong Province Scientific Problem Tackling Plan, Science And Technology Development Plan and Technology Innovation Plan; 36 new products have successively passed the appraisal of provincial level; We have been awarded with a total of 15 provincial and ministerial level scientific and technological progress awards and patent awards; We are holding 147 national invention and other patents and 4 international invention patents in USA, the European Union, Australia and other more than 50 countries and regions; Huate has presided over the drafting of 17 national machinery industry standards. These achievements lead to industrial upgrading, and promote the rapid development of the enterprise.



HONORARY CERTIFICATE 荣誉证书



PRODUCT CERTIFICATE 产品资质



THE PATENT CERTIFICATE 专利证书



CE, ISO QUALITY CERTIFICATION CE、ISO质量认证



TECHNOLOGY R & D

技术与研发



公司是中国重型机械工业协会常务理事单位、中国科学院技术合作企业、磁电与低温超导磁体创新战略联盟理事长单位，设有博士后科研工作站、综合院士工作站、中国机械工业超导磁体工程技术研究中心、省磁电工程技术研究中心、省磁力应用技术装备重点实验室。与中国科学院电工研究所、高能物理所以及山东大学等重点院校合作，广泛吸收世界最新科技成果，研发具有国内和国际领先水平、自主知识产权的磁电产品。



远程中央控制室 Remote Central Control Room

Our company has established long-term scientific research cooperation with China Academy of Sciences Institute of Electrical Engineering, Institute of High Energy Physics, Shandong University and other high institutions, widely absorbing the latest scientific and technological achievements in the world to develop magnetic-electric products at domestic and international leading level and with independent intellectual property rights.



Technology R&D Division 1 技术研发一部



技术研发二部 Technology R&D Division 2



Expert Office 专家办公室



综合院士工作站 Comprehensive Workstation for Academicians

- 综合院士工作站
- 山东省磁电工程技术研究中心
- 山东省磁电装备工程研究中心
- 山东省认定企业技术中心
- 山东省磁力应用技术装备重点实验室
- 国家“十二五”科技支撑计划项目承担单位
- 山东省省级一企一技术研发中心
- 山东省省级磁电产业集群

- 冶金矿山磁电装备工程技术研究中心
- 中国机械工业超导磁体工程技术研究中心
- 国家重点新产品计划项目承担单位
- 国家重点火炬计划项目承担单位
- 国家行业标准起草单位
- 潍坊鸢都学者岗位
- 潍坊市工业设计中心

- Comprehensive Workstation for Academicians
- Shandong Province Magnetic-Electric Engineering Technology Center
- Shandong Province Magnetic-Electric Equipment Engineering Research Center
- Shandong Province Identified Enterprise Technology Center
- Shandong Province Key Laboratory of Magnetic Application Technologies and Equipment
- Project Undertaking Unit for National Twelfth Five-Year Technology Supporting Plan
- Shandong Province Provincial One Enterprise One Technology R&D Center
- Shandong Province Provincial Magnetic-Electric Industry Concentration

- Magnetic-Electric Equipment Engineering Technology Research Center of China Metallurgical Mines Association
- Superconducting Magnet Engineering Technology Center of China Machinery Industry
- Project Undertaking Unit for National Key New Products Plan
- Project Undertaking Unit for National Key Torch Plan
- Drafting Unit for National Industry Standards
- Weifang "Scholars of the Kite City" Title
- Weifang City Industrial Design Center

PRODUCTION PLANT

生产车间



生产车间外景 Production Plant Exterior View



生产车间内景 Production Plant Interior View

PRODUCTION CAPACITY 生产加工能力



C5263 数控双柱立式车床 C5263 CN Double Column Vertical Lathe



大型龙门铣床
Large Gantry Milling Machine



YT-1200 四柱油压机
YT-1200 Four Column Hydraulic Press



12米重型卧车
12m Heavy-Duty Horizontal Lathe



数控等离子切割
CNC Plasma Cutting



表面处理生产线
Surface Treatment Production Line



水旋喷漆房
Water Spinning Spray Room

CARE OF LEADERS

领导关怀



2004年12月，顾国彪院士向胡锦涛总书记汇报
领先全球的蒸发冷却技术应用

In December 2004, Academician Guobiao Gu reported to President Jintao Hu on the application of the globally leading evaporative cooling technology.



2013年2月，王兆连董事长荣获第四届山东省省长质量奖
省长姜大明颁奖

In February 2013, Zhaolian Wang, president of the company, won the fourth Shandong Provincial Governor Quality Prize, awarded by Provincial Governor Daming Jiang.



2017年6月，山东省科技厅厅长刘为民、副厅长李储林在潍坊市副市长李平、市科技局局长张宝胜、临朐县委副书记、县长刘裕斌等领导陪同下参观华特生产现场

In June 2017, Weimin Liu, Director of Science and Technology Department of Shandong Province, Chulin Li, Vice-Director, were accompanied with Baosheng Zhang, Director of Weifang Science and Technology Bureau, Yubin Liu, Vice-Mayor of Linqu County, and other officers to visit Huate.



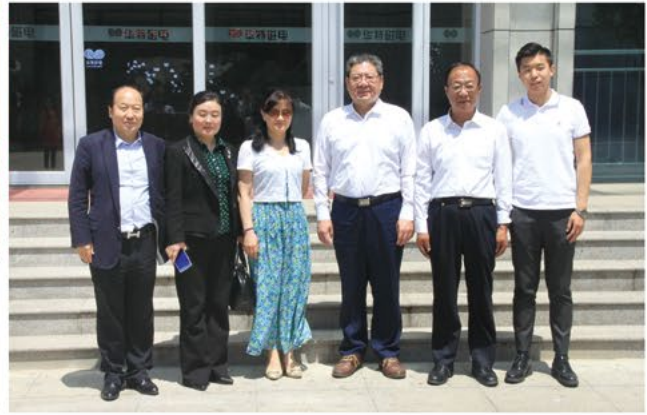
2012年10月，山东省政协副主席、山东省科技厅原厅长翟鲁宁来公司指导

In October 2012, Shandong CPPCC vice chairman, Shandong provincial science and technology department of the original director Zhai Luning to guide the company.



2012年7月，国家科技部领导、山东省政协副主席、潍坊市原市委书记许立全等领导出席全球首台零挥发5.5T低温超导磁选机下线仪式和“十二五”国家科技支撑计划项目启动仪式

In July 2012, main officers from National Ministry of Science and Technology, The vice-chairman of Shandong CPPCC, former Municipal Party Secretary of Weifang City and other main officers were invited to attend the Launching Ceremonies of the World's 5.5T Cryogenic Super-conduction Magnetic Separator with no volatilization and the "125" National Science and Technology Support Program.



2018年5月，山东省中小企业局党组书记、局长王兆春莅临华特公司调研指导工作

In May 2018, Zhaochun Wang, Secretary of Party Leadership Group and Director of Provincial Bureau of Small and Medium Enterprises, visited Huate for research and guidance.



2016年4月，潍坊市委书记、市人大常委会主任刘曙光在高新区党工委书记初宝杰等领导陪同下，到新力公司调研

In April 2016, Weifang Municipal party committee secretary, the Municipal People's congress standing committee director Liu Shuguang accompanied by the high-tech zone CPC secretary of Chu Baojie to research the XinLi company.



2018年4月，省委统战部常务副部长赵强一行莅临华特公司考察调研

In April 2018, Zhao Qiang, executive vice minister of the United Front Work Department of the Provincial Party Committee, and his delegation visited Huate for research and survey.

COOPERATIVE INNOVATION

合作创新

华特公司与中科院电工所、高能物理所、理化所、等离子所，山东大学，中南大学，南开大学，武汉理工大学等开展产学研合作，取得了丰硕成果。使企业自主创新能力得到显著提升，研制完成了一批具有自主知识产权的关键技术，取得了一批高水平的创新成果，部分产品填补了行业空白，其技术水平达到国际先进水平，并有多项技术已居国际领先水平。



2004年9月，与中科院电工所顾国彪院士签订蒸发冷却技术开发合作协议

In September 2004, Huate signed Evaporative Technology Development Cooperation Agreement with Guobiao Gu, Academician of Chinese Academy of Electrical Engineering Institute.



2006年5月，与中科院高能所副所长姜晓明签订超导除铁器技术开发合作协议

In May 2006, Huate signed the Superconducting Iron Removal Technology Cooperation Agreement with Xiangming Jiang, vice director of CAS High Energy.



2007年5月，公司董事长王兆连与山东大学签订合作协议

In May 2007, The chairman Wang Zhaolian signed a cooperation agreement with Shandong University



2008年5月，公司董事长王兆连与中科院等离子所张束青教授签署絮体磁分离技术合作协议

In May 2008, the company president Wang Zhaolian and Professor Zhang Shuqing from the plasma Institute of China Academy of Sciences signed cooperation agreement of flocs magnetic separation technology.

COOPERATIVE INNOVATION

合作创新

Huate company and the Chinese Academy of Sciences Institute of Electrical Engineering, Institute of Physics, Institute of Physics and Chemistry, the Institute of Plasma, Shandong University, Central South University, Nankai University, Wuhan University of Technology to carry out production and research cooperation, and achieved fruitful results. So that the ability of independent innovation has been significantly improved, the development of a number of key technologies with independent intellectual property rights, has made a number of high level of innovation, some products to fill the gaps in the industry, its technical level reached the international advanced level, and a number of Technology has been the leading international level.

华特磁电公司与武汉理工大学技术合作



2009年5月，公司董事长王兆连与武汉理工大学彭会清副院长签订技术合作协议

In May 2009, Company chairman Wang Zhaolian and Vice president Peng Huiqing Wuhan University of Technology signed a technical cooperation agreement.

中科院高能物理研究所超导项目合作签约仪式



2009年12月，王兆连董事长与中科院高能所所长王贻芳院士签订共建超导磁体工程中心合作协议

In December 2009, Wang Zhaolian Chairman and Yifang Wang, director of CAS of Chinese Academy of Science signed a cooperation agreement to build a superconducting magnet Engineering center.



2012年公司与中科院电工所顾国彪院士签订技术合作开发协议

In 2012, our company signed technical cooperation and development agreement with academician Guobiao Gu from Institute of Electrical Engineering of the Chinese Academy of Sciences.



2016年度山东科技大学“华特磁电”奖学金颁奖典礼

2016 Shandong University of Science and Technology "HUATE MAGNET" scholarship awards ceremony.

GLOBAL R&D

全球研发

◎ 德国—工业4.0中德磁电与智能选矿技术研发中心



2017年7月，华特与亚琛工业大学在德国联合共建了工业4.0中德磁电与智能选矿技术研发中心，共同研发国际一流的磁电选矿装备和X光、近红外光谱、荧光分选等智能传感分选装备。同年，中德磁电与智能选矿技术研发中心主任海爾曼·沃特魯巴教授被认定为泰山产业领军人才、潍坊市鸢都产业领军人才。

In July, 2017, Huate has collaborated with RWTH Aachen University to create an industry 4.0 research facility dedicated to smart mineral processing technology and magnetic separation. The facility has top of the line equipment such as electromagnetic separators and x-ray diffract meters, and Near Infrared Spectrum Instrument, as well as other mineral sensing and separating machinery. In the same year, Prof. Dr.-Ing. Hermann Wotruba, Head of Sino-German Technology Development Center of Electro-Magnetic Separation and Mineral Processing with Artificial Intelligence, was affirmed as Taishan Leading Expert and Weifang City YuanDu Leading Expert.

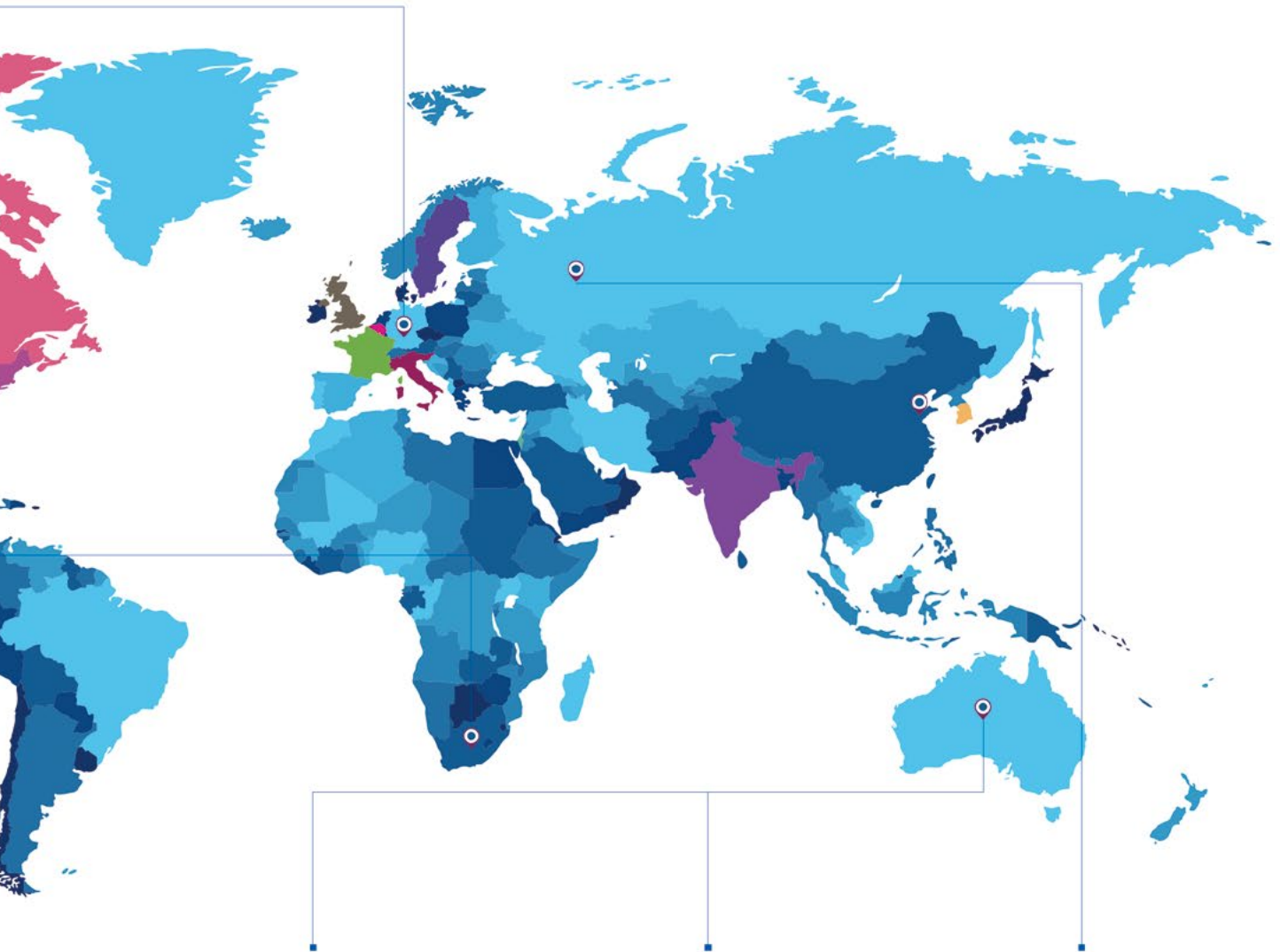
◎ 南非—“AMG—华特选矿技术研究中心”



2017年9月，“AMG—华特选矿技术研究中心”由华特公司和AMG集团联合成立，并在南非政府注册，服务范围包括矿山工程技术咨询，选矿试验研究，设备安装调试，选厂EPC工程总承包服务等。同时成立的“华特磁电南非办事处”是华特公司为南非客户提供更好、更便捷的服务而专门设立的机构。

In September, 2017, "AMG - Huatae Mineral Processing Technology Research Center" was jointly set up by Huate and AMG Group and registered in the South Africa, focusing on mine engineering technology consultation, mineral processing testwork research, equipment installation commissioning, beneficiation plant EPC turnkey project service, etc. At the same time, the establishment of the "South African Office of Huate Magnet" is a specialized agency for Huate to serve the South African customers better and more conveniently.





公司与澳大利亚昆士兰大学专家合作
签约仪式
Cooperation signing ceremony between
Huate and experts from University of
Queensland in Australia



公司与澳大利亚ALS设计院联合
共建选矿实验室
Mineral processing laboratory jointly
established by Huate and ALS Design
Institute of Australia



公司与俄罗斯乌拉尔设计院合作签约仪式
Cooperation signing ceremony between
Huate and Ural Design Institute of Russia

ACADEMICIAN TEAM

院士团队

华特公司先后聘请顾国彪、严陆光、叶朝辉、周远四位院士，组建院士工作站和综合院士工作站。

HUATE has hired Guobiao Gu, Luguang Yan, Zhaohui Ye, Yuan Zhou four academicians to establish Academician Workstation and Comprehensive Academician Workstation.



中科院电工研究所
顾国彪 院士

Institute of Electrical Engineering
Chinese Academy of Sciences
Guobiao Gu academician

与中科院顾国彪院士为主的课题组联合开发和完成“RCDZ型蒸发冷却电磁除铁器”、“蒸发冷却电磁除铁器成果转化”，利用介质相变吸热原理与发热体直接接触，有效地解决了散热问题，提高了磁势利用率，保证了除铁器场强和吸力，目前与顾国彪院士团队正式签订合作协议，合作研发1.5特斯拉居世界领先水平的世界第一台蒸发冷却立环高梯度磁选机。



中科院武汉分院
叶朝辉 院士

Wuhan Branch Chinese Academy of
Sciences
Zhaohui Ye academician

与中科院叶朝辉院士团队合作的“低温超导磁共振成像系统的研发”取得突破性进展，已经研制出样机，2011年，1.5T核磁共振成像超导磁体被列入“2011年度国家重点新产品计划”，同时“1.5T短腔核磁共振成像超导磁体”也被列入国家“十二五”科技支撑计划，属于“医学影像等中高端医疗器械研发”项目。



中科院电工研究所
严陆光 院士

Institute of Electrical Engineering
Chinese Academy of Sciences Lu-
guang Yan academician

与中科院严陆光院士团队联合进行开发的“电磁流体海水浮油分离与回收装置”，本项目将研制一艘油污海水处理量为35m³/h的分离回收试验船并进行海水实况试验研究，为该技术的实用化奠定坚实的技术基础。



中科院理化技术所
周远 院士

Technical Institute of Physics and
Chemistry, Chinese Academy of Sci-
ences
Yuan Zhou academician

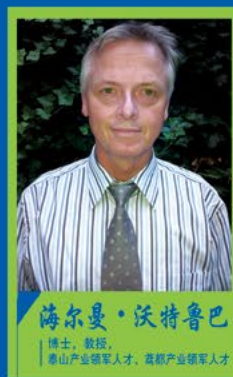
与中科院周远院士团队合作，致力于低温超导系统关键技术的开发，本项目目标是建立一套大型液氮低温站，研究开发适用于超导磁体的低温系统。

EXPERT TEAM

专家团队

华特公司注重研发队伍建设，拥有一支实力雄厚、技术精湛的专家团队，既有一批博士、硕士、本科生组成的知识结构合理的青年创新才俊，又有多位经验丰富的行业著名专家以及在学术前沿卓有建树的特聘教授，为公司的持续创新发展提供了技术保障。

Huate focuses on R & D team construction, and has a strong skilled team of experts. There are a number of experienced industry experts as well as the professors in the academic with outstanding achievements, providing technical guarantee for the company's continuous innovation and development.



MEDICAL MRI SUPERCONDUCTING MAGNET

医用核磁共振成像超导磁体系列



- 国家重点新产品计划
编号为 2011TJC60050
- 国家十二五科技支撑计划
项目编号 2011BA112B00
- 专利号:ZL200920352658.3
- 专利号:Z201020685550.9
- 专利号:ZL201120027048.3
- 专利号:ZL201120027046.4
- 专利号:ZL201110029019.5



国际领先水平 International Leading Level

1.5T液氦零挥发核磁共振成像超导磁体 (全身型)
1.5T Liquid Helium Zero Volatilization MRI Superconducting Magnet (whole body type)

国际领先水平 International Leading Level

3.0T核磁共振成像超导磁体 (全身型)
3.0T MRI Superconducting Magnet (whole body type)

国内外首创 国际领先水平
Initiative at Home and Abroad, International Leading Level

3.0T 移动式多功能核磁共振超导磁体
3.0T Portable Multi-Functional MRI Superconducting Magnet



1.5T核磁共振成像超导磁体使用现场
Application Site of 1.5T MRI Superconducting Magnet



3.0T移动式多功能核磁共振超导磁体(整机系统)
3.0T Portable Multi-Functional MRI Superconducting Magnet (Complete machine system)

CRYOGENIC SUPERCONDUCTING SERIES

低温超导系列

全球首台5.5T零挥发低温超导磁选机

5.5Tesla Superconducting Magnetic Separator is a creation in the world

专利号: ZL201220044035.1 ZL201210065971.5 ZL201220063987.2
 ZL201220093694.4 ZL201220093063.2 ZL201220093065.1
 鉴定号: 鲁科成鉴字[2012]第311号



▲ 该产品适用于稀有金属、有色金属和非金属矿选矿，如钴矿富集、高岭土和长石类非金属矿的除杂提纯，也可用于污水处理和海水净化等领域。
 This product is suitable for beneficiation of rare metal, non-ferrous metal and non-metallic minerals, such as enrichment of asbolite, impurity removal and purification of kaolin and feldspar non-metallic minerals. It can also be used for sewage treatment and seawater purification and other fields.



国际领先水平 国家发明专利产品 中国第一台
 International Leading Level National Invention Patent
 Product First Set In China

RCSC 低温超导除铁器

Cryogenic Superconducting Magnetic Iron Separator
 发明专利号: 200710116248.4
 成果鉴定证书号: 鲁科成鉴字[2010]第367号

◀ 该产品适用于煤炭、输煤港口、火电厂等对除铁要求特别高的场所，磁场 $\geq 4000Gs$ 以上。

This product applies to occasions with particularly high iron removal requirements in coal mines, coal conveying ports, thermal power plants and other industries. Its magnetic field can reach above 4000Gs.

VERTICAL RING HIGH GRADIENT ELECTROMAGNETIC SEPARATION SERIES

电磁立环高梯度磁选系列



◀ 本产品适用于-1.2毫米（-200目占30~100%）的细粒红矿（赤铁矿、褐铁矿、菱铁矿等）、锰矿、钛铁矿、黑钨矿等多种弱磁性金属矿的湿式分选和黑钨分离、黑钨与锡石分离，也可用于非金属矿如石英、长石、霞石矿、高岭土的除杂铁提纯。

This product applies to wet processing of -1.2 mm (30~100% passing -200 mesh) fine grained red ore (hematite, limonite, siderite, etc), manganese ore, ilmenite, wolframite and other kinds of weakly magnetic minerals, and separation between wolframite and scheelite, and separation between wolframite and cassiterite. It can also be used for impurity removal and purification of non-metallic minerals such as quartz, feldspar, nepheline ore and kaolin.



全球第三代强制油冷却 (1.0T) 立环高梯度磁选机

The Global Third Generation 1.0T
Forced Oil Cooling Vertical Ring High
Gradient Magnetic Separator

专利号: ZL200820019710. 9 ZL200820024592. 0
ZL201110233277. 5 ZL201120295548. 5
ZL201120295570. X ZL201220041890. 7
ZL200820019710. 9

JK鉴字[2011]第1058号 鲁科成鉴字[2011]第793号



全球第四代油水复合冷却 (1.4T) 立环高梯度磁选机

The Global Fourth -Generation 1.4T
Oil-Water Compound Cooling Vertical
Ring High Gradient Magnetic Separator

专利号: ZL201110233277. 5 ZL201210028744. 5
ZL201220332872. 4 ZL201220041902. 6

JK鉴字[2011]第1058号 鲁科成鉴字[2012]第333号



全球第五代蒸发冷却 (1.7T) 立环高梯度磁选机

The Global Fifth Generation 1.7T
Evaporative Cooling Vertical Ring
High Gradient Magnetic Separator

专利号: ZL201120295548. 5 ZL201220332872. 4
ZL201220041902. 6

国内外首创 国际领先水平

Initiative At Home And Abroad, International Leading Level

油水复合冷却立环高梯度磁选机

Oil-Water Compound Cooling Vertical Ring High Gradient Magnetic Separator

周期式电磁高梯度磁选机

Periodic High Gradient Electromagnetic Separator



专利号: ZL201420721957.0

◀ 该系列产品背景场强0.8~1.7T可调,分选腔直径从150~2000mm,最大处理量60吨/小时,适应物料粒度0~1mm,多种分选介质可供选用,适用于石英、长石、高岭土、陶瓷原料、尾矿、化工原料提纯等处理。

The background field intensity of this series of products is adjustable from 0.8 to 1.7T, with diameter of separation chamber being 150~2000mm. The maximum processing capacity is 60 tons per hour, and the applicable material size is 0~1mm. A variety of separation media are available. This product is applicable to purification and other processing for silica sand, feldspar, kaolin, ceramic raw materials, tailings and chemical raw materials.



◀ 该产品广泛应用于耐火材料、陶瓷、玻璃等非金属矿以及化工、医药、食品等行业纯化物料。

This product widely applies to material purification in refractory material, ceramics, glass and other non-metallic mineral industries, medical, chemical, food and other industries.

周期式电磁干粉高梯度磁选机

Periodic Dry Powder High Gradient Electromagnetic Separator

MAGNETIC SEPARATOR SERIES

磁选机系列



提精降渣磁选机

Raising Concentrate Grade & Decreasing Dregs Content (RCG&DDC) Drum Permanent Magnetic Separator



电磁淘洗精选机

Elutriation Electromagnetic Separator



1850型永磁筒式磁选机

1850 Model Drum Permanent Magnetic Separator

SENSOR BASED INTELLIGENT SORTING SYSTEM

智能传感分选系统



X射线智能传感分选机 HRS- X-ray sensor based intelligent sorting system

MAGNETIC IRON SEPARATOR SERIES

磁力除铁器系列



强迫油循环自卸式电磁除铁器
Oil Forced Circulation Self-Cleaning
Electromagnetic Separator



矿用隔爆型自卸式电磁除铁器
Mine Flame-proof Self-Cleaning
Electromagnetic Separator



永磁自卸式除铁器
Self-Cleaning Permanent
Magnetic Separator

POWDER PROCESSING EQUIPMENT

粉体设备



气流分级机
Air Classifier



卧式分级机
Horizontal Classifier



高纯砂专用生产设备
High Purity Sand Dedicated
Production Equipment

MINING COMPLETE SET EQUIPMENT

矿山成套设备



球磨机
Ball Mill



单传动、双传动高压辊磨机
Single-drive and double-drive High
Pressure Grinding Roller



永磁尾矿回收机
Permanent Magnetic Tailing Reclaimer

MAGNETIC STIRRING EQUIPMENT

磁力搅拌设备

交直交变频电磁搅拌器

AC-DC-AC Frequency Converting Electromagnetic Stirrer



节能环保底置式永磁搅拌器
Energy - Saving And Environment
Friendly Bottom Laid Permanent
Magnetic Stirrer



交-交变频电磁搅拌器
AC-AC Frequency Converting
Electromagnetic Stirrer



节能环保底置式直流电磁搅拌器
Energy - Saving And Environment
Friendly Bottom Laid DC Electromag-
netic Stirrer

**MARINE & LAKE MILITARY EQUIPMENT
INDUSTRY TECHNOLOGY**

海洋、湖泊军工装备产业技术



稀土永磁高效絮体分离机工作原理

Working Principle Of Rare Earth Permanent Magnetic Highly Efficient Floc Separator



电磁流体海面浮油回收分离技术装置
 Electromagnetic Fluid Seawater Floating Oil
 Separation And Recover Equipment



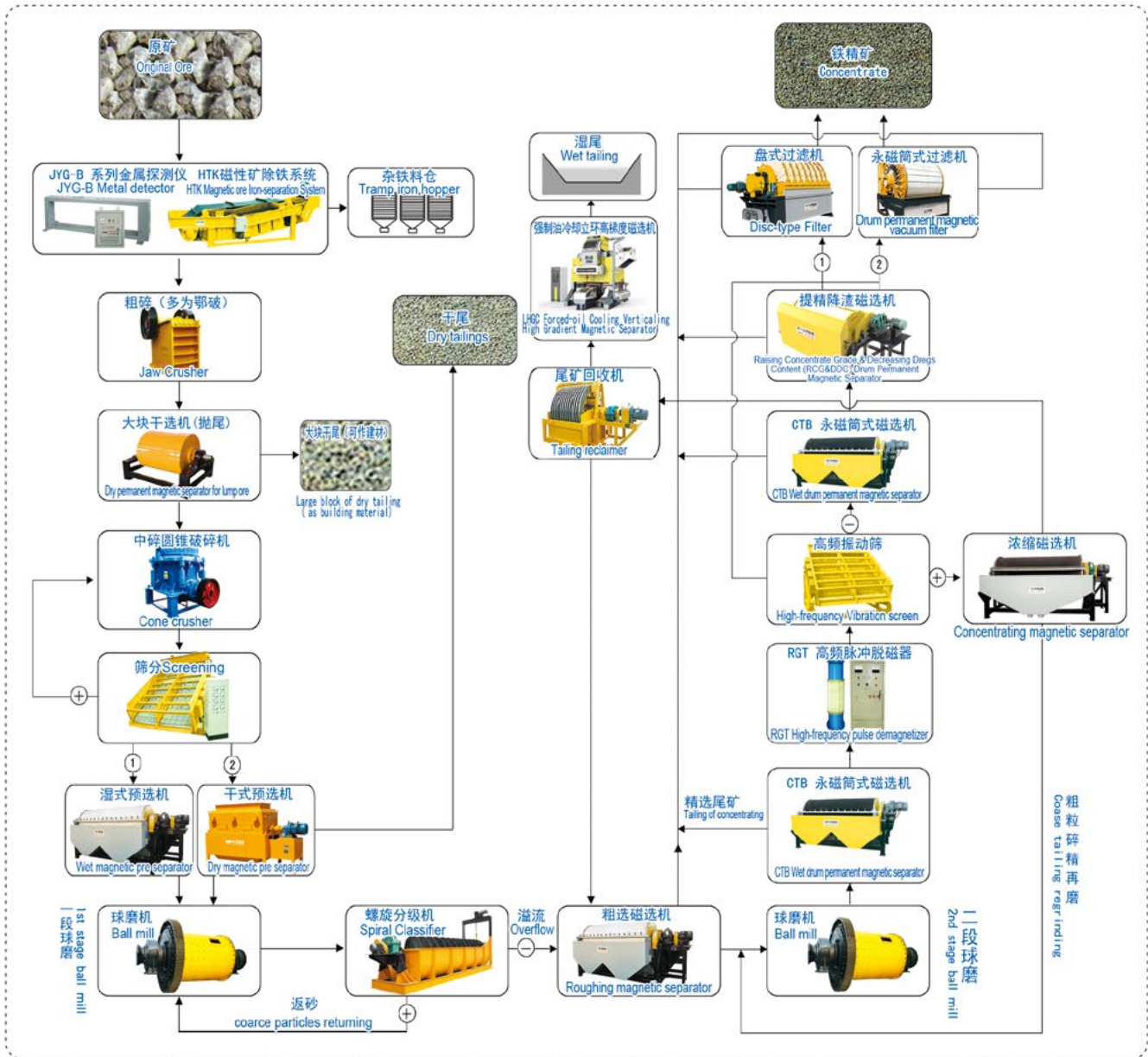
波浪能发电装置
 Wave Energy Generator

MINING COMPLETE SET PRODUCTION LINE EPC

矿山成套生产线总承包

华特公司凭借先进的加工设备和雄厚的技术力量，专业制造成套矿山生产用设备。公司依靠有十六位选矿设备和工艺专家组成的专家团队，可为大、中、小型矿山提供集选矿试验研究，工程设计咨询，设备制造加工，设备安装工艺调试，人员培训一条龙服务。

With advanced processing equipment and powerful technology, Shandong Huate Magnet Technology Co., Ltd is specialized in manufacturing complete set equipment for iron ore production. Supported by the specialist team composed of sixteen mineral beneficiation equipment and process specialists, our company can provide one-stop service including mineral beneficiation test research, engineering design consultation, equipment manufacture, equipment installation and debugging and personnel training for large, medium and small mines.



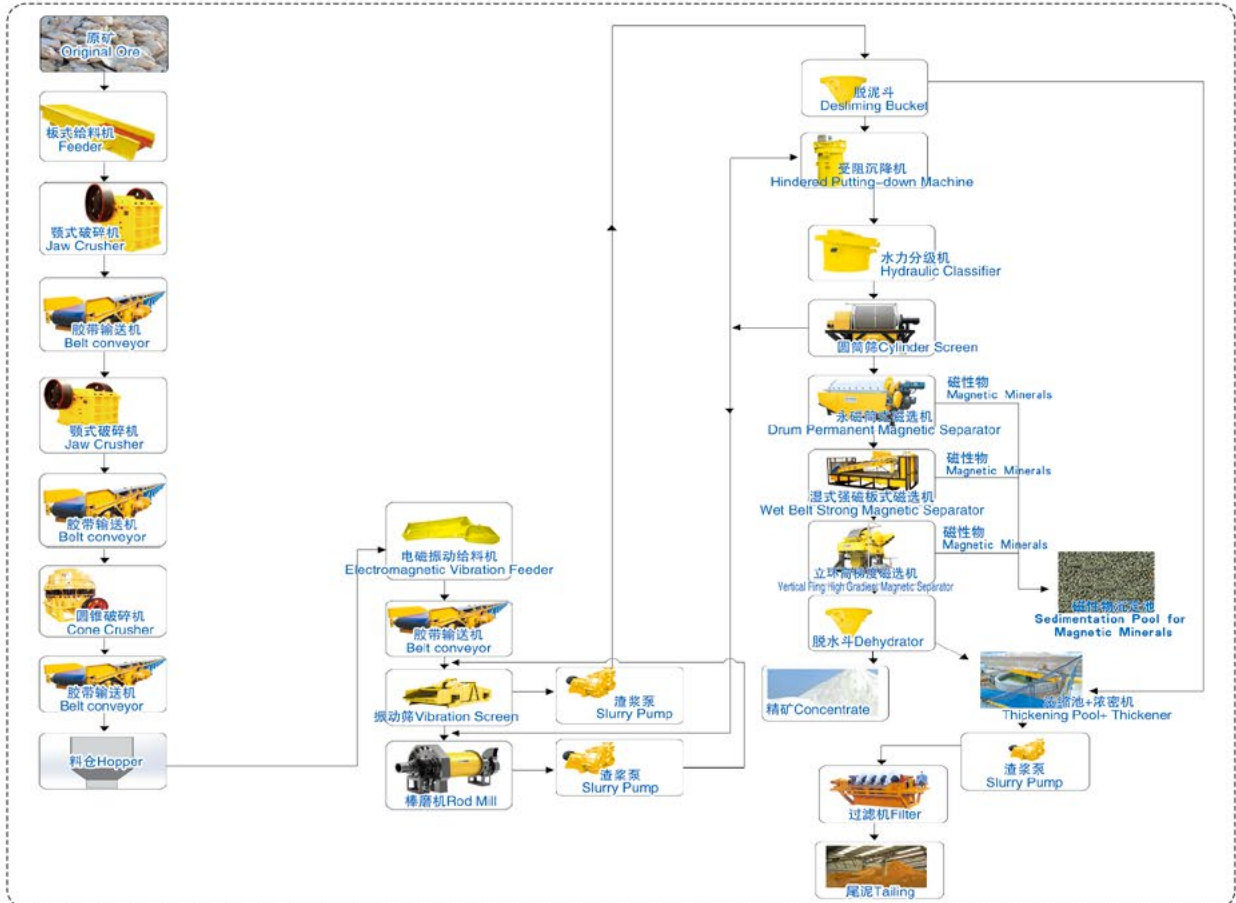
提供铁矿选矿全套设备总承包工程为企业创造更高效益

Provide iron ore beneficiation complete set equipment EPC project to create higher profit for the enterprise

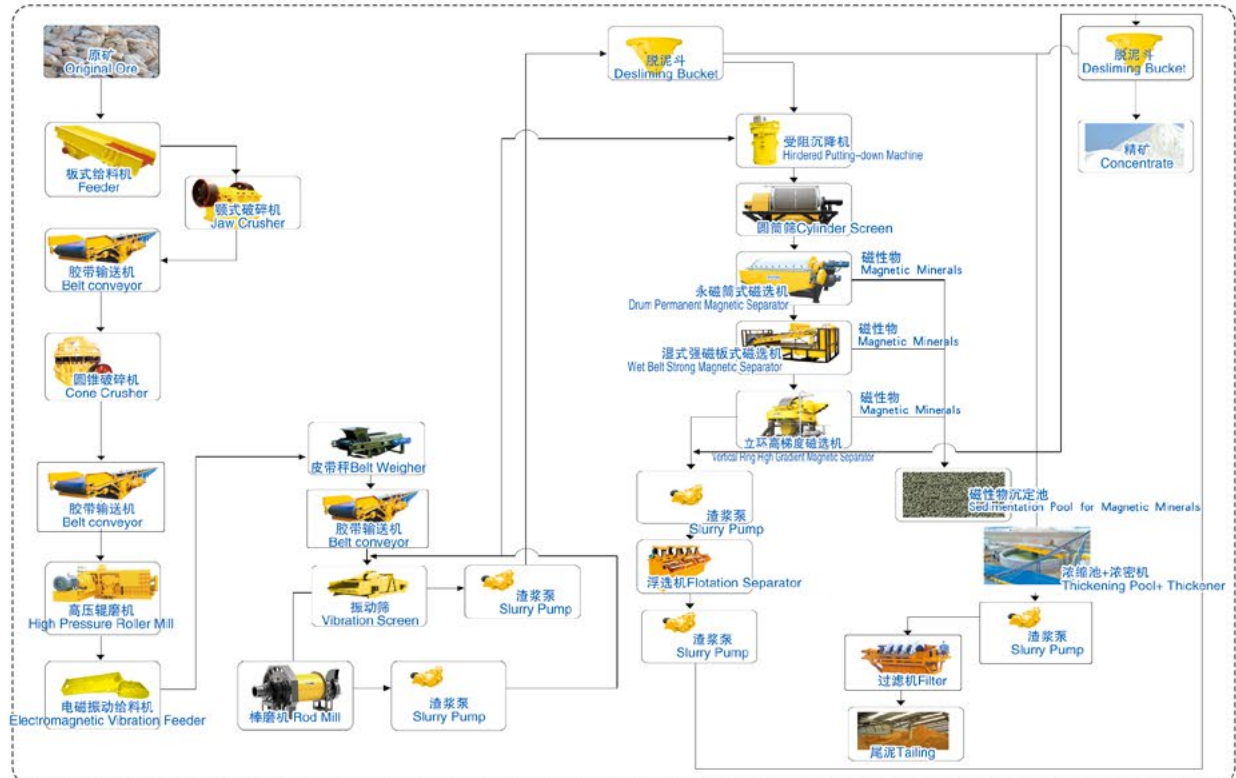
COMPLETE SET PRODUCTION LINE FOR NON-METALLIC MINERALS —EPC PROJECT

非金属矿山成套生产线—EPC工程总承包

石英砂选矿工艺流程 Silica Sand Processing Flow



长石选矿工艺流程 Feldspar Processing Flow



NATIONAL PROFESSION KEY MINERAL PROCESSING
LABORATORY OF MAGNETIC APPLICATION TECHNOLOGIES

国家行业磁力应用技术重点选矿实验室



公司拥有占地面积 8600 平方米的国家行业重点选矿实验室，现有专职或兼职试验研究人员 120 人，公司实验室被山东省科技厅批复为省级磁力应用技术装备重点实验室，实验室加工设备齐全，检测分析仪器完善，具备较好的产品实验条件，拥有各种实验设备、仪器 210 多台，60% 达到国内领先水平，其中 40% 达到国际领先水平，以发展磁力选除设备制造业为出发点，面向磁力装备技术领域，重点开展超导磁体、超导磁选机、高梯度磁选机、搅拌器等大型磁力应用技术装备研究。

Our company owns a national-level mineral processing key laboratory covering an area of 8,600 square meters and currently has 120 full-time or part-time testwork researchers, Huate owns two lab centers of superconducting and common conducting magnetic separation, which are provided with complete processing equipment, perfect detection analysis instruments and good experimental conditions. We have 210 sets of all kinds of experimental equipment and instruments, 60% of which can reach the domestic leading level and 40% can reach the international leading level. We take manufacturing magnetic separation equipment as our starting point and face to magnetic equipment technology field for R&D of superconducting magnet, superconducting magnetic separators, high gradient magnetic separators, magnetic stirrer and other large-scale magnetic application technology equipment.



智能传感试验区
Sensor based sorter test area



低温超导磁选试验区
Cryogenic superconducting magnetic separation testing area

山东省磁力应用技术装备重点实验室

Shandong Province Key Laboratory of Magnetic Application
Technologies and Equipment



湿式强磁选试验区 Wet Strongly Magnetic Separation Testing Area



连选试验区 Continuous test area



干选试验区 Dry Magnetic Separation Testing Area



矿物破碎加工区 Crushing Area

NATIONAL PROFESSION KEY MINERAL PROCESSING
LABORATORY OF MAGNETIC APPLICATION TECHNOLOGIES

国家行业磁力应用技术重点选矿实验室



山东衡标检验检测有限公司总面积 1800 多平方米，固定资产 600 多万元，专业检验检测人员 25 人，其中高级职称工程师和化验技师 10 名，是为矿山和金属材料相关产业链行业提供专业检验检测、信息技术咨询、教育培训等服务的具有国家认可、能够独立承担法律责任的公共服务平台。按照 CNAS-CL01:2018（检测和校准实验室认可准则）运营和服务。下设化学分析室、仪器分析室、材料检测室、物理性能检测室等。拥有美国赛默飞世尔 X 射线荧光光谱仪和原子吸收光谱仪、等离子发射光谱仪、碳硫分析仪、直读光谱仪、冲击试验机、万能试验机等主要仪器设备 70 多台。检测范围包括非金属和金属矿物的元素化学分析，金属材料的材质和物理性能检测等。

Shandong Hengbiao Inspection and Testing Co., Ltd. has a total area of more than 1,800 square meters, fixed assets of CNY 6 million, and 25 professional inspection and testing personnel, including 10 senior title engineers and laboratory technicians, this service platform operates in accordance with CNAS-CL01: 2018 (Testing and Calibration Laboratory Accreditation Criteria), providing professional inspection and testing, information technology consulting, education and training and other services for the mining industry and metal materials related industry chain. The company has chemical analysis room, instrument analysis room, material testing room, physical performance testing room, etc. Hengbiao has American Thermo Fisher X-ray fluorescence spectrometer and atomic absorption spectrometer, plasma emission spectrometer, carbon and sulfur analyzer, direct reading spectrometer, impact testing machine, universal testing machine and more than 70 main instruments and equipment. The testing range of the platform includes elemental chemical analysis of non-metal (quartz, feldspar, kaolin, mica, fluorite, etc.) and metal (iron, manganese, chromium, titanium, vanadium, tungsten, molybdenum, lead, zinc, nickel, gold, silver, rare earth ores, etc.) minerals, material and physical properties of stainless steel, carbon steel, copper, aluminum and other metal materials. The company adheres to the service policy of "fair, rigorous, scientific and efficient", is committed to providing authoritative and accurate technical services for our customers.



滴定室 Titration room



小仪器室 Small Instrument Room

山东衡标检验检测有限公司

Shandong Hengbiao Inspection and Testing Co., Ltd.



高温室 Heating Room



天平室 Weighing Room



X荧光光谱室 X Fluorescence Spectroscopy Room



ICP室 ICP room



火花直读光谱仪 IDirect reading spark spectrometer



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APPLICATION SITE
用户现场



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