格力工业制品

GREE INDUSTRIES PRODUCTS PROFILE

格力工业制品全产品画册

科技创新·成就非凡

CONSTANT INNOVATION CREATES SUPERIOR VALUES

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系统解决方案 SYSTEM SOLUTIONS

高端家电领域系统解决方案

System solution for high-end household appliances

- 格力1Hz精密变频空调系统
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简　　介

INTRODUCTION

格力工业制品是珠海格力电器股份有限公司四大核心业务板块之一，涵盖凌达压缩机、凯邦电机、新元电子、格力电工、格力智能装备、格力精密模具、芜湖精密、励高精工八大子公司业务。作为一个高端工业设备及零部件产品整合营销平台，格力工业制品为客户带来从零部件到系统解决方案的一站式服务体验，产品遍布家电、工业、新能源、智能制造、3C等领域，远销160多个国家和地区。

Gree Industries is one of the four core business parts of Gree Electric Appliances Inc. of Zhuhai. Our brands mainly include Landa Compressor, Kaibang Motor, Xinyuan Electronic, Gree Electric, Gree Intelligent Equipment, Gree Precision Mold, Wuhu Precision and Ligao Valve. As a marketing platform integrates the sales of high-end industrial equipment and components, we are aiming to provide the users with one-stop service from the core components to the whole system solutions. For now, our products are exported to more than 160 countries and regions, and are widely applicable to the household appliances, industrial, new energy, intelligent manufacturing and 3C fields, etc.

1985 冠雄塑胶模具厂成立
Guanxiong Plastic Mold was founded
凌达压缩机成立
Landa Compressor was founded

1986 **格力电工**成立
Gree Electric was founded

1988 **新元电子**成立
Xinyuan Electronic was founded

2003 **凯邦电机**成立
Kaibang Motor was founded

2012 **励高精工**成立
Ligao Precision was founded

格力智能装备有限公司成立
Gree Intelligent Equipment was founded
格力模具投入25亿进行升级
Invest USD 371 million to upgrade Gree Mold

2013 **芜湖精密铸件**成立
Wuhu Precision Casting was founded

2014



核心工业产品
CORE INDUSTRIAL PRODUCTS


压缩机 Compressor

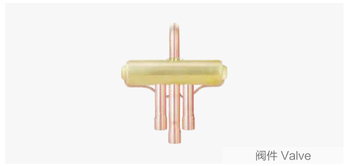

电机 Motor


电容 Capacitor


漆包线 Enameled wire


智能装备 Intelligent equipment


模具 Mold


阀件 Valve


铸件 Casting


新型工业品 New industrial products


新型工业品 New industrial products

凌达压缩机
LANDA COMPRESSOR

珠海凌达压缩机有限公司创立于1985年，是一家集研发、生产、销售、服务于一体的压缩机专业化企业。目前拥有珠海、合肥、重庆、郑州、武汉五大生产基地，产品涵盖13大系列、800多个品种，2018年年产能突破6000万台，占全球压缩机市场24%的份额。

截至目前，凌达压缩机累计获得授权专利1079项，其中包括三缸双级变容、双级增焓、双级喷液（冷冻冷藏）、无稀土磁阻变频等5项国际领先技术。

Founded in 1985, Zhuhai Landa Compressor Co., Ltd. is a specialized enterprise integrating compressor R&D, manufacture, sales and service. For now, we have 5 production bases located in Zhuhai, Hefei, Chongqing, Zhengzhou and Wuhan, with the production capacity exceeded 60 million pcs in 2018. Our products cover 13 series comprising 800 models.

1,079 patents have been authorized to Landa so far, including 5 leading technologies, such as three-cylinder two-stage variable displacement technology, two-stage enthalpy-increasing technology, two-stage liquid injection (freezing& refrigeration) technology and rare earth-free reluctance technology, etc.



5
大生产基地
5 Production Bases



6000
万台年产能
60 Million Pcs



24%
全球压缩机市场占有率
24% Global Market Share

产品目录 CATALOGUE

家用空调压缩机 Compressor for Residential AC

通用压缩机 General-Purpose Compressor
T3中东向压缩机 Compressor for Middle East Market (T3 Condition)
印度向压缩机 Compressor for India Market
宽电压压缩机 Wide Voltage Compressor
新环保冷媒压缩机 New Environmental Refrigerant Compressor

商用空调压缩机 Compressor for Commercial AC

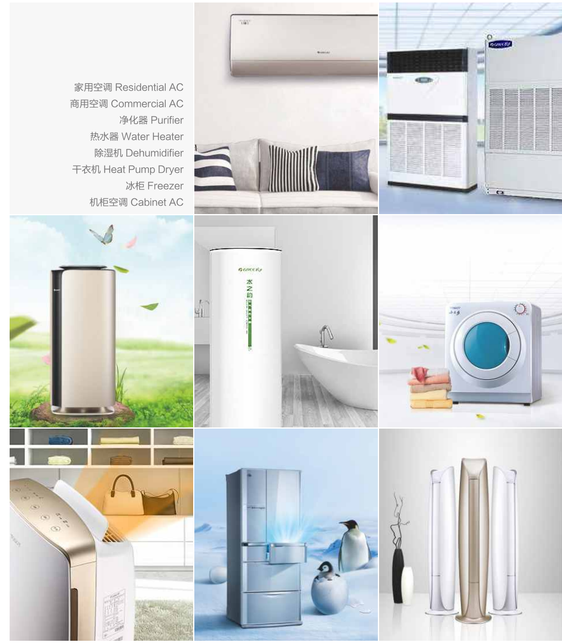
轻商用压缩机 Light Commercial Compressor
风管机用压缩机 Duct AC Compressor

特殊用途压缩机 Compressor for Special-Purpose

热泵热水器压缩机 Compressor for HPWH
除湿机压缩机 Compressor for Dehumidifier
干衣机压缩机 Compressor for Heat Pump Dryer
机柜用压缩机 Cabinet Compressor
工业制冷压缩机 Industrial Refrigeration Compressor
微型压缩机 Mini Compressor
冷冻冷藏压缩机 Compressor for Freezing and Refrigeration
车载压缩机 Compressor for Car AC

应 用 领 域 APPLICATION

家用空调 Residential AC
商用空调 Commercial AC
净化器 Purifier
热水器 Water Heater
除湿机 Dehumidifier
干衣机 Heat Pump Dryer
冰柜 Freezer
机柜空调 Cabinet AC





三缸双级变容积比压缩机

Three-Cylinder Two-Stage Variable Displacement Compressor

- “国际领先”核心技术，拥有完全自主知识产权
  International leading technology, with completely independent intellectual properties (IPR)
- 首次在单台压缩机上实现了可变容积比的双级压缩
  Achieve dual-stage compression with variable volume ratio on a single compressor for the first time
- 能效提高达30%（-15℃制热工况下）
  COP increased to 30% (heating condition at -15℃)
- -35℃至54℃宽温范围稳定运行，-25℃制热量100%不衰减
  Work stably at a wide temp. from -35℃ to 54℃, the heating capacity is not reduced at -25℃



R290冷媒专用压缩机

R290 Compressor

- 完全自主开发的纯天然工质R290压缩机
  G-made R290 compressor with natural refrigerant
- 拥有自主知识产权的安全设计，材料开发保证了压缩机的安全可靠
  The compressor adopts the unique design (with IPR) and superior material, features safe and reliable
- 通过了TUV认证，并取得全球首张R290空调VDE证书
  Obtained TUV and VDE (the first for R290 AC) Certification



热泵热水器压缩机
Compressor for HPWH

R134a系列产品优势
Features of R134a Series Products

- 采用环保冷媒，臭氧层破坏潜能ODP为0
  Eco-friendly refrigerant: ODP=0
- 超长使用寿命，设计寿命达10年
  Ultra-long service life: Design life of 10 years
- 低噪声/低振动，超静音无察觉运行
  Low noise/Low vibration: Ultra-quite operation
- 全年高能效运行，耗电量为普通电热水器的1/4
  Annual energy-efficient operation: Power consumption for a quarter of ordinary electric water heater



新能源热泵铝涡旋压缩机
New Energy HP Aluminum Scroll Compressor

- 宽幅度调速，调速范围900rpm-8500rpm
  Wide speed range from 900rpm to 8500rpm
- 使用温度范围广-25℃-60℃，适用于绝大部分地区
  Suitable for use in different areas (working at -25℃-60℃)
- 完善的自我保护策略，可使压缩机稳定、可靠的工作
  Perfect self-protection function for smooth and reliable running of the compressor
- 优良的密封性，满足IP67
  Good sealing performance, meet IP67 standard
- 整机耐振动可靠性高
  Good vibration resistance and high reliability
- 高效节能，可大幅提高车辆续航能力
  Energy efficient to improve the vehicle endurance power

凯邦电机
KAIBANG MOTOR

珠海凯邦电机制造有限公司创立于2003年，隶属于格力电器旗下，是一家专业从事微特电机的研发、生产、销售与服务的核心机电部件制造企业。目前拥有珠海、合肥、重庆、河南四大生产基地，产品涵盖14个大类、24个系列、1000多个规格品种。2018年凯邦电机年产能达8000万台，年销售额40亿元，跻身全国同行业前列。截至目前，凯邦电机累计获得授权专利648项，其中无刷直流电机等产品的研发能力已达到国际领先水平。

Zhuhai Kaibang Motor Manufacturer Co., Ltd., established in 2003, is a wholly-owned subsidiary of Gree specializing in R&D, production, sales and services of special mini motor. At present, we have 4 production bases located in Zhuhai, Hefei, Chongqing and Henan, and our products cover 14 categories, 24 series and over 1000 specifications. In 2018, Kaibang ranked the top group in China with the annual capacity reaching 80 million pcs and total sales up to USD522 million. So far, we have obtained 648national patents, of which, BLDC motor is one of the world's advanced invention.



4
大生产基地
4 Production Bases



8000万台
年产能
80 Million Pcs



40亿
年销售额
USD522 Million

产品目录 CATALOGUE

汽车电机 Automobile Motor

汽车永磁同步驱动电机（乘用车）Auto Permanent Magnet Synchronous Drive Motor (For Passenger Car)
汽车永磁同步驱动电机（物流车）Auto Permanent Magnet Synchronous Drive Motor (For Logistic Car)
汽车电机控制器 Auto Motor Controller
汽车空调冷凝风机 Auto AC Condenser
汽车空调前蒸发电机 Auto Overhead Evaporation Motor
汽车空调蒸发电机 Auto Overhead Evaporation Motor
汽车前雨刮器电机 Motor for Auto Front Wiper

空调直流电机 DC Motor for AC

挂壁式空调室内机用直流无刷电机（89系） Brushless DC Motor for Wall Mounted Indoor Unit (89 Series)
立柜式空调室内机用直流无刷电机（120系、140系）Brushless DC Motor for Floor Standing Indoor Unite (120 /140 Series)
盘管机标准电机（89系） Standard Motor for Fan Coil Unit (89 Series)
风管机标准电机（89系\105系）Standard Motor for Duct AC (89/105 Series)
风机盘管用直流无刷电机（120系\140系）Brushless DC Motor for Fan Coil Unit(120 /140 Series)
天井机用直流无刷电机（95系\105系\120系）Brushless DC Motor for Ceiling AC(95/105/120 Series)
分体式空调室外机用直流无刷电机（89系\95系）Brushless DC Motor for Split Type Outdoor Unit (89/95 Series)
立柜式空调外机用直流无刷电机（120系）Brushless DC Motor for Floor Standing Outdoor Unit(120 Series)
商用空调室外机用直流无刷电机（105系\120系\140系\173系）Brushless DC Motor for Commercial AC Outdoor Unit (105/120/140/173 Series)

空调交流电机 AC Motor for Air Conditioner

挂壁式空调室内机用交流电机（95系）AC Motor for Wall-mounted Indoor Unit(95 Series)
立柜式空调室内机用交流电机（120系、140系）AC Motor for Floor Standing Indoor Unit (120/140 Series)
风机盘管用交流电机（110系\120系、140系\160系） AC Motor for Fan Coil Unit(110/120 Series, 140/160 Series)
天井机用交流电机（120系）AC Motor for Ceiling Unit (120 Series)
分体式空调室外机用交流电机（80系\95系120系）AC Motor for Split Type Unite (80/95/120 Series)
商用空调室外机用交流电机（120系\140系）AC Motor for Commercial Outdoor Unit (120/ 140 Series)
窗机用交流电机（95系\120系）AC Motor for Window Type Unit (95/120 Series)

空气净化器电机 Air Purifier Motor

油烟机电机 Range Hood Motor

除湿机电机 Dehumidifier Motor

风扇电机 Fan Motor

冰箱风机 Refrigerator Fan Motor

洗衣机标准电机 Washer Standard Motor

净水机用稳压泵 Stabilized Pressure Pump for Water Purifier

多用途电机 Multi-Purposes Motor

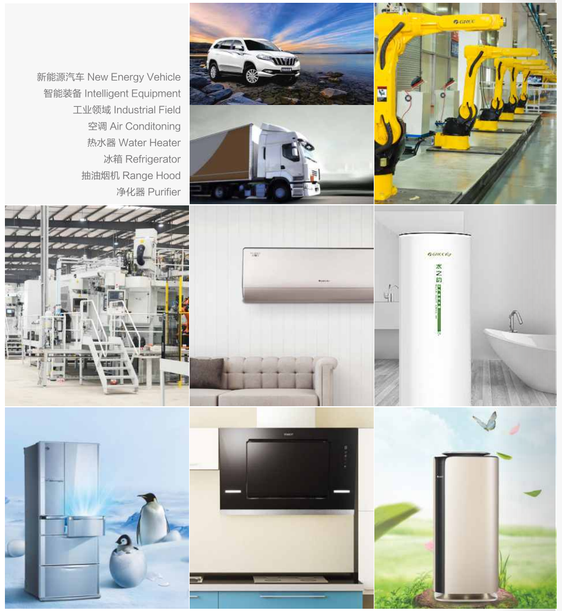
高效工业电机 High-Efficiency Industrial Motor

通用型伺服电机 General Servo Motor

螺杆压缩机电机 Screw Compressor Motor

应 用 领 域 APPLICATION

新能源汽车 New Energy Vehicle
智能装备 Intelligent Equipment
工业领域 Industrial Field
空调 Air Conditoning
热水器 Water Heater
冰箱 Refrigerator
抽油烟机 Range Hood
净化器 Purifier





直流电机
DC Motor

- 直槽型滴水孔结构、塑封外表面三维面散热结构
  The straight channel weeper structure and cooling structure for resin-packed three-dimensional surface
- 获2017中国家电艾普兰奖（核心奖）
  Won 2017 AWE Award (Core Award)



伺服电机
Servo Motor

- 获评国际领先
  International Leader
- 机器人核心部件，定位精准，低齿槽转矩，响应快速
  Robot core components, feature precise positioning, low cogging torque and quick response
- 3~3.5倍过载转矩能力，保证电机恒功率运行；
  3~3.5 times overload torque capacity to ensure constant motor operation



永磁辅助同步磁阻电机
Permanent Magnet Auxiliary Synchronous Reluctance Motor

- 较同功率异步电机（IE2）体积减少50%
  50% smaller than the same power asynchronous motor (IE2)
- 损耗降低60%，达到IE5超高能效水平，节能效果显著
  Excellent power saving effect, loss reduced by 60%, energy efficiency up to IE5 level

新元电容
XINYUAN CAPACITOR

珠海格力新元电子有限公司创建于1988年，是专业从事电容器和IPM智能功率模块研发、生产、销售与服务的国家级高新技术企业，产品已遍布全球各地区，年销售额超过15亿元。产品主要有铝电解电容器、金属化薄膜电容器、IPM智能功率模块、家用电器及工业用控制器等。

公司拥有实力雄厚的技术研发、服务团队，拥有各项专利49项，并拥有众多专有技术工艺方案。通过了包括IATF16949在内的各项管理体系认证及VDE、UL、CQC等系列产品认证。

Zhuhai Gree Xinyuan Electronic Co., Ltd. was established in 1988, is a professional IPM and capacitor manufacturer specialized in product research, production, sales and service. Our wide range of products are marketed around the world, with the annual sales exceeded USD223 million. Our product lineup covers Al electrolytic capacitors, metallized film capacitors, IPM, household appliances and industrial controllers. We have a strong R&D team, sales team, 49 pcs patents and a number of technical processing solutions. Our products have been approved by IATF16949 management system, VDE, UL, CQC, etc.



31年
历史
31 Years History



10万㎡
占地面积
10w㎡ Area



15亿
年销售额
USD223 Million

产品目录 CATALOGUE

铝电解电容器 Al Electrolytic Capacitor

片式铝电解电容器 V-chip Series
引线式铝电解电容器 Redial Series
焊片式铝电解电容器 Snap-in Series
螺栓式铝电解电容器 Screw Series

金属化薄膜电容器 Metallized Film Capacitor

CBB65型产品 Model CBB65
CBB65S型产品 Model CBB65S
CBB61型产品 Model CBB61
CBB65A型产品 Model CBB65A
BKMJ型低压并联电容器 BKMJ Low Voltage Parallel Connection Capacitor
DCL型电容器 DC-Link Capacitor
DCLC型电容器 DCLC Capacitor
DCH型汽车电容器 DCH Auto Metallized Film Capacitor
DCLA型电容器 DCLA Capacitor

智能功能模块 Intelligent Power Module (IPM)

GAM10A060型产品 Model GAM10A060
GAM15A060型产品 Model GAM15A060

电控组件 Electronic Components

家电类控制器 Household Appliance Controller
电机类控制器 Motor Controller

应 用 领 域 APPLICATION

新能源汽车 New Energy Vehicle
光伏风电逆变器
PV Wind Power Inverter
智能电网 Smart Power Grid
UPS电源 UPS Power Supply
变频器 Inverter
家电类 Home Appliances
伺服器 Server
环保照明 Green Lighting












焊片式铝电解电容
Snap-in Aluminum Electrolytic Capacitor

- 耐大纹波
  Withstanding High Ripple Current
- 性能稳定、高可靠性
  Stable performance and high reliability
- 产品故障率连续多年低于1PPM
  Product failure rate less than 1PPM



IPM智能功能模块
Intelligent Power Module

- 外观采用三相对称结构，便于使用设计
  Three-phase symmetrical structure for easy use
- 使用噪声小、采用行业一流原材料厂家
  Adopt the raw materials from industry-leading manufacturers
- 使用寿命可达10年以上，产品安全可靠
  Use cycle up to 10 years, safe and reliable



汽车用金属化薄膜电容器
Auto Metallized Film Capacitor

- 超低ESL和ESR
  Super lower ESL and ESR
- 高温工作环境下提供大电流
  Applying large current at high temperature working condition
- 坚固的结构和端子设计
  Solid structure with terminals design
- 寿命长，可靠性高
  Long life and high reliability

格力电工
GREE ELECTRIC

珠海格力电工有限公司创立于1986年，是一家专门从事漆包线、电线电缆、电器附件等产品的研发、制造、营销与服务的电磁线材企业。目前拥有珠海、马鞍山、眉山、南京四大生产基地，产品涵盖21个品种漆包线、3大系列电线、1种电器附件及3种裸线。格力电工年产能达15万吨，年产值高达百亿元。

Founded in 1986, Zhuhai Gree Electric Co., Ltd. is wholly owned by Gree Electric Appliances, is mainly engaged in R&D, manufacture, sales and service of enameled wire, electrical accessory, wire and cable. Currently, we have 4 production bases in Zhuhai, Ma'anshan, Meishan and Nanjing, with the production capacity of 15,000 tons and output value reaching USD14.5 billion in 2018. Our products cover 21 varieties of enameled copper round wires, enameled copper flat wires, 3 series of hook-up wires, 1 appliance accessory and 3 bare wires.



4
大生产基地
4 Production Bases



4
大系列产品
4 Series Products



100亿
年产值
USD10 Billion

产品目录 CATALOGUE

漆包铜圆线产品 Enameled Round Copper Wire Product

聚酰胺酰亚胺复合聚酯或酯亚胺系列 Polyamideimide Compound Polyester or Polyesterimide Series
聚酯亚胺系列 Polyesterimide Series
聚氨脂系列 Polyurethane Series
聚酯系列 Polyester Series

漆包扁线产品 Enameled Flat Wire Product

聚酰胺酰亚胺复合聚酯或酯亚胺系列 Polyamideimide Compound Polyester or Polyesterimide Series
聚酯亚胺系列 Polyesterimide Series
聚氨脂系列 Polyurethane Series
聚酯系列 Polyester Series

铝漆包线产品 Aluminum Enameled Wire Product

聚酰胺酰亚胺复合聚酯或酯亚胺系列 Polyesterimide Compound Polyamideimide Series
聚氨脂系列 Polyurethane Series

铜加工 Copper Processing

铜线 Copper Wire
镀锡铜线 Tinning Copper Wire
黄铜切割线 Brass Cutting Wire

电线产品 Wire Product

RV 电子线 RV Hook-Up Wire
RV-90电子线 RV-90 Hook-Up Wire
RW52电源线 RW52 Power Wire
RW-53电源线 RW-53 Power Wire
UL1015电子线 UL1015 Hook-Up Wire
带插头电源线 Power Cord with Plug

应 用 领 域 APPLICATION

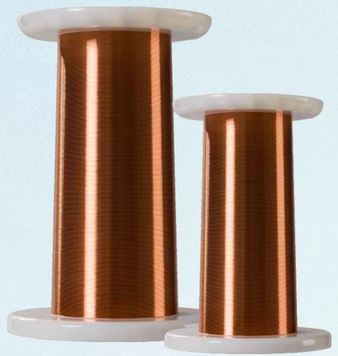
家用电器 Household Appliance
新能源汽车 New Energy Vehicle
电子元器件 Electronic Components
压缩机 Compressor
电机 Motor
变压器 Transformer
航空航天 Aerospace
高速铁路 High-Speed Train









耐电晕漆包线
Corona Resistant Wire

- 新能源汽车电机、电梯曳引电机、防爆电机、风电电机、起重电机
  New energy vehicle motor, elevator traction motor, explosion-proof motor, wind power motor, port hoisting motor, lifting motor
- 耐热温度为200℃，生产规格段：0.500-3.000mm
  Heat-resistant temp: 200℃
  Production spec. segment: 0.500-3.000mm
- 产品通过UL认证
  UL Certification



漆包铜扁线
Enameled Copper Flat Wire

- 比圆截面铜线相比节省空间9~12%，槽满率达到95%
  The space is saved by 9~12% compared with round section copper wire, the coil space factor is up to 95%
- 耐电击穿性能高，柔韧性好
  Good flexibility and high breakdown voltage
- 截面积更大，散热效果显著提高
  Larger sectional area, with better cooling effect
- 产品规格：窄边0.08~0.5mm，宽边0.5~3.0mm
  Product spec.: narrow side is 0.08~0.5mm, wide side is 0.5~3.0mm

格力智能装备

GREE INTELLIGENT EQUIPMENT

珠海格力智能装备有限公司是一家集研发、生产、销售、服务于一体的智能装备生产企业。公司设立了珠海吉大机床、珠海北岭自动化装备、珠海南水机器人三大研发中心，珠海吉大、珠海北岭、珠海南水、武汉蔡甸和洛阳机器人五大产业园区，园区面积达到40万㎡。产品覆盖伺服机械手、数控机床、智能仓储设备、工业机器人、无人自动化生产线体、智能检测、换热器专用机床设备、智能检测等十多个领域，拥有超百种规格产品，累计获得授权专利661项。

Gree Intelligent Equipment Co., Ltd. is one of the subsidiaries of Gree integrating product research, manufacture, sales and service. We have 3 R&D centers, Zhuhai Jida Machine R&D Center, Zhuhai Beiling Automation Equipment R&D Center, Zhuhai Nanshui Robot R&D Center, as well as 5 production bases located in Zhuhai Jida, Zhuhai Beiling, Zhuhai Nanshui,Wuhan Caidian and Henan Luoyang, which covering more than 400 thousand square meter with 1200 employees. Our product lineup is expanded to more than 10 fields including hundreds of specifications such as servo manipulator, CNC machine, intelligent storage equipment, industrial robots, unmanned automatic production line, testing equipment, heat exchanger equipment etc., with 661 patents have been granted.



5
大生产基地
5 Production Bases



100
余种规格产品
100 Specifications



30亿
总产值
USD 447 Million

产品目录 CATALOGUE

数控机床 Numerically-Controlled Machine

立式加工中心GA-V5080 GA-V5080 Vertical Machining Center
钻攻中心GA-Z4060 GA-Z4060 Drilling Center
卧式数控车床GA-C4050 GA-C4050 Horizontal CNC Lathe
五轴加工中心GA-F500 GA-F500 Five-Axis Machining Center

物流仓储设备 Logistic Storage Equipment

旋转式智能立体柜 Rotary Intelligent Stereoscopic Cabinet
垂直式智能立体柜 Vertical Intelligent Stereoscopic Cabinet
智能立体库 Intelligent Stereoscopic Library
AGVS中央调度系统 AGVE Central Control System
潜伏式 AGV Flat AGV
移载式 AGV Trailer AGV

检测设备 Testing Equipment

自动ICT+FCT测试线 Automatic ICT+FCT Testing Line
电加热管自动检测机 Automatic Electric Heating Tester
全自动IPM模块高度检测仪 Advanced Tester for Automatic IPM
电动脉冲油压机 Electric Artery Punching Machine
可程式恒温恒湿箱 Programming Constant Temperature and Humidity Box
智能自动螺钉检测仪 Intelligent Automatic Screw Tester
铁芯自动检测下料项目 Automatic Loading Program for Iron Core

注塑钣金设备 Injection Metal Plate Equipment

GC1300-4A四轴钣金冲压机械手 GC1300-4A 4 Axis Metal Plate Punching Manipulator
GC1850-4A四轴钣金冲压机械手 GC1850-4A 4 Axis Metal Plate Punching Manipulator

精密传动部件 High Precision Driving Components

精密行星减速机（GRPG078-009、GRPG098-009、GRPG125-009、GRPG078-025）High Precision Planetary Reducer（GRPG078-009、GRPG098-009、GRPG125-009、GRPG078-025)

工业机器人及集成应用系统
Industry Robot and Integration System

GR606工业机器人 GR606 Industry Robot
GR 608工业机器人 GR 608 Industry Robot
GR 625工业机器人 GR 625 Industry Robot
GR 650工业机器人 GR 650 Industry Robot
GR 6165工业机器人 GR 6165 Industry Robot
GR 4180工业机器人 GR 4180 Industry Robot
GRS401工业机器人 GRS401 Industry Robot
GRS405工业机器人 GRS405 Industry Robot

工业自动化 Industrial Automation

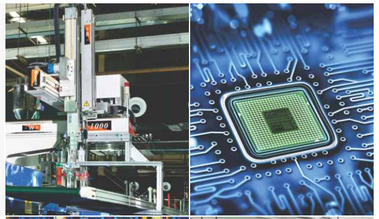
圆形/方形PACK生产线 Circle/Square PACK Production Line
底盘组件自动化生产线 Bottom Assembly Automatic Production Line
化成分容自动物流线 Chemistry Material Distribution Automation Logistic Production Line
散热器自动生产线 Heat Dissipation Automation Production Line
汽车PTC加热器组装生产线 Radiator Automatic Production Line
手推篮子自动化生产线 Hand Basket Automatic Production

热交换器设备 Heat Exchanger Equipment

双工位无收缩胀管机 Shrinkless Expander with two positions
四工位无收缩胀管机 Shrinkless Expander with Four Positions
氦检自动焊接线 Automatic Welding Machine with Helium Detection
蒸发器自动切割机 Automatic Evaporator Cutting Machine
多合一弯管机系列设备 All-in-one Tube Bending Machine
高速长U弯管机 High-speed Long U Bending Machine
全自动连接四管下料机 Automatic 4-tube Loading& Cutting Machine
智能无屑小U套环一体机 Intelligent non-chip short U-shape Bending Machine
小U弯头机 Short U-shape Bending Machine

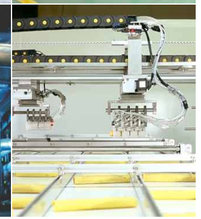
应 用 领 域 APPLICATION

注塑钣金 Injection Metal Plate
集成电路制造
Integrated Circuit Manufacturing
家用电器行业
Home Appliance Industry
物流与仓储 Logistic and Storage
自动化线体
Automatic Production Line
冶金行业 Metallurgy
化工行业 Chemistry Industry
食品行业 Food Industry



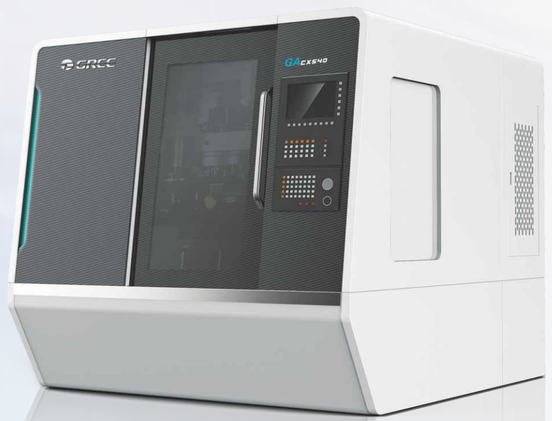




车铣复合加工中心
Turning& Milling Machining Center

- 具备500mmX400mmX200mm的工作行程，主轴转速3000rpm
  Effective working stroke: 500mmX400mmX200mm
  Spindle Speed: 3000rpm
- 定位精度0.005mm，重复定位精度0.003mm
  Positioning accuracy: 0.005mm
  Repeated positioning accuracy: 0.003mm
- 采用矿物铸件结构，机械稳定、振动小、机台精度保持好，配以直线电机加欧洲进口直线导轨，光栅全闭环控制系统
  It adopts mineral casting structure, with small vibration and good precision
  Combined linear motor with European imported linear guide and grating full-closed control system





机床水冷机
CNC Machine Chiller

- 格力机床冷却机是一种高效节能、环保可靠的特种冷却设备，专为各类数控加工机床（线切割、磨床、加工中心等）提供冷水。
  Featuring energy efficient and environmental protection, Gree Water Chiller is specially designed for providing cooling water for various kinds of machining tools.
- 全直流变频技术，负荷调节10%~100%，温控精度最高达到±0.1℃
  Full DC inverter technology can adjust the load by 10%~100%, with the temp. control accuracy reaching ±0.1℃
- 提供远程开关接口、OI-LINK通信等，实现机床联动
  Provide remote switch interface and IO-LINK communication for machine linkage
- 采用钛管换热器（可选），耐磨和抗腐蚀性强
  Adopting titanium tube heat exchanger (optional), features strong wear and corrosion resistance
- 智能监控：GPRS、手机App监控
  Intelligent monitoring: GPRS, Mobile App Monitoring



工业机器人
Industrial Robot

- 产品广泛运用与码垛、焊接、上下料等多个领域
  The products are widely used in palletizing, welding, loading and unloading
- 定位精度最高可达0.005mm
  Positioning accuracy up to 0.005mm

格力模具
GREE MOLD

格力模具始于1985年，是格力电器的奠基分厂之一。历经32年发展，格力模具成为一家集产品研发、样品3D打印、模具生产、工装夹具配套制造于一体的大型模具综合企业，并提供产品智能化生产增值服务。自2003年以来，格力电器对格力模具进行了颠覆式改造，累计投资超过60亿元，配备2000台国际领先的精密加工设备。

目前格力模具已掌握多项领先制造技术，其中高冲精密模具，最高冲次可达380次/分钟，模具核心部件最高精度可达到0.001mm，处于行业前列。

Gree Mold was established in 1985, is one of the founding branches of Gree Electric Appliances. After 32 years of development, we have grown into a large-scale enterprise integrating mold development, sample 3D printing, mold design and production, tooling fixture design and manufacture. Since 2013, Gree has totally invested USD894 million to the company and provide us with 2,000 international leading processing equipment.

We have acquired sorts of advanced manufacturing technologies, among them, the maximum speed of the high-pumping precision mold can reach 380 times per min, and the highest accuracy of the mold core parts is nearly 0.001mm, leading in the world.



0.001mm
精度
Precision of 0.001mm



2000
台进口设备
2000 Imported Equipment



20亿
年产值
USD 290 Million

产品目录 CATALOGUE

汽车模具 Vehicle Mold

家电模具 Household Appliance Mold

办公用品模具 Office Supplies Mold

马达铁芯模具 Motor Core Mold

光学器件模具 Optical Mold

手机模具 Mobile Phone Mold

不锈钢厨具模具 Stainless Kitchenware Mold

医疗器械模具 Medical Instruments Mold

应 用 领 域 APPLICATION

马达铁芯 Motor Core
光学器件 Optics Products
3C 3C
汽车 Vehicle
家电 Household Appliance
办公用品 Office Supplies
不锈钢厨具
Stainless Steel Kitchenware
医疗器械 Medical Instruments







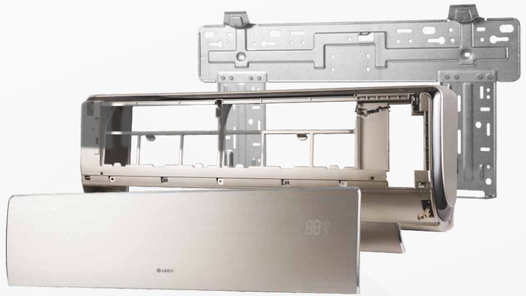












家电模具 Household Appliance Mold

塑胶模具
Plastic Mold

- 掌握极冷极热技术，实现高光无流痕注塑
  Adopt the advanced techniques to achieve injection with no flow mark under extreme conditions
- 行业领先的注塑模具连杆组件的模内装配技术
  Industry-leading injection mold assembly technology
- 局部减薄至1mm透光技术
  Local parts thinned to 1mm (light transmission technology)

钣金模具
Sheet Metal Mold

- 可制作最大尺寸2500(L)X1500mm(H)，最大重量25吨钣金模具
  Max size: 2500(L)X1500mm(H)
  Max weight: 25 tons
- 涵盖工程模、工程油压模、自动送料模、顺送模等多种类型
  It covers stage molds, engineering hydraulic molds, automatic feeding molds, and progressive molds, etc

车用模具 Automobile Mold



保险杠
Bumper

- 汽车内、外饰产品
  Vehicle interiors and exteriors
- 尾翼，车内门装饰条
  Decoration bar for rear wing and interior door

车灯模具组件
Vehicle LED Mold Components

- 前大灯，尾灯
  Headlamps and rail lamps

汽车空调产品
Auto Air Conditioning Products

- 离心风叶，风机端盖
  Centrifugal fan and fan cover

精密铸件
PRECISION CASTING

芜湖格力精密制造有限公司是珠海格力旗下的全资子公司，成立于2014年，项目总投资18.93亿元，规划年生产精密铸件及相应的机加工产品12万吨，主要业务覆盖金属材料研发、金属铸造、精密加工、精密模具制造等；产品涵盖制冷压缩机、泵阀、高铁、汽车、机器人中的精密铸件。

Founded in 2014, Wuhu Gree Precision Manufacturer Co, Ltd. is wholly owned by Gree Electric Appliances. With a total investment of USD283 million, we plan to produce 120 thousand tons of precision castings and machining products annually. Our products cover R&D of metal material, metal casting, precision machining and precision mold manufacturing, and are widely applicable to precision castings in refrigeration compressors, pump valves, high-speed railway, automobiles and robots.



±0.37
最高精度毛坯
Highest Precision of Semi-finished reaches ±0.37



6万
吨年产能
60 thousand tons



10亿
产值
USD 149 Million

产品目录 CATALOGUE

家电类产品 Household Appliance Product

洗衣机：灰铁（轴承座）Washing Machine: Gray Iron(Bearing Housing)
转子空压 Rotary Air Compressor
灰铁：气缸、上法兰、下法兰、隔板 Gray Iron: Cylinder, Upper Flange, Lower Flange, Partition
球铁：曲轴机加件 Ductile Iron: Crankshaft Machine Parts
合金铸件：滚子 Alloy Casting: Roller
冰压：曲轴箱、气缸座 Refrigerator Compressor: Crankcase, Cylinder Block
涡旋压缩机：支架机加件 Scroll Compressor: Bracket Machine Parts

汽车件产品 Auto Parts

支架 Bracket
卡钳 Caliper
转向节 Knuckle
中央轴承座 Central Housing
涡轮增压器壳体 Turbocharger Housing

标准工业电机类产品 Standard Industrial Motor Products

端盖及壳体 End Cover and Housing
沟槽管件类：弯管、接头、三通、卡箍、高颈法兰
Groove Pipe Fittings: Bend, Joint, Tee, Clamp, Welding Neck Flang

应 用 领 域 APPLICATION


家电 Household Appliance


压缩机 Compressor


泵阀 Pump Valve


高铁 High-Speed Train


汽车 Vehicle


机器人 Robot

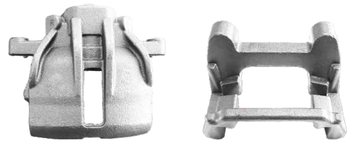


家电类
Household Appliance

- 上法兰：高强度灰铁件，毛坯、半精一体化供应
  Upper Flange: High-strength gray iron parts, one-stop source for raw and semi-finished flanges
- 曲轴：高牌号，优性能，批量生产，最高可满足QT700材质要求
  Crankshaft: High grade, excellent performance, mass production, according to QT700 standards of material
- 气缸座：可实现下芯工艺生产
  Cylinder Block: Do core setting fast

汽车件类
Auto Parts

- 卡钳：高强度、高耐磨性，已通过ISO9001、IATF16949认证审核
  Caliper: High strength and high wear resistance, certified by ISO9001, IATF16949
- 支架：造型速度可达380型/H，已通过ISO9001、IATF16949认证审核
  Bracket: Modeling speed up to 380/H, certified by ISO9001, IATF16949



励高阀件
LIGAO VALVE

珠海励高精工制造有限公司始建于2012年，是一家专业从事家用空调自控阀门部件及衍生产品（截止阀、电磁四通换向阀、电子膨胀阀等）设计、生产、销售和服务的精工制造企业。公司注册资金3000万元，公司自主研发的截止阀、四通阀自动化生产线已成功投产，年产截止阀600万，四通阀100万，年产值超5000万，后续将继续投入对电子膨胀阀自动化生产线的研发。计划待厂房建设完成后，扩充自动化生产线，实现20亿的年销售额。

Founded in 2012, Zhuhai Ligao Precision Manufacturer Co., Ltd. is a precision manufacturing enterprise specializing in the design, production, sales and service of automatic control valves and derivatives of residential AC (shut-off valves, solenoid four-way reversing valves, electronic expansion valves, etc.). In 2013, we became a wholly-owned subsidiary of Gree Electric Appliances Inc. of Zhuhai. At present, our self-developed shut-off valves and four-way valves have been produced in a large number, with annual output reaching 6 million and 1 million pcs respectively. In order to achieve USD297 million sales target, we plan to expand the automatic production line after the new plant put into production.



生产岗位自动化率超过**80%**
Production automation rate exceeds 80%



采用氦检工艺，检测精度比人工水检精度高**100**倍以上
Helium detection accuracy is more than 100 times than manual detection

产品目录 CATALOGUE

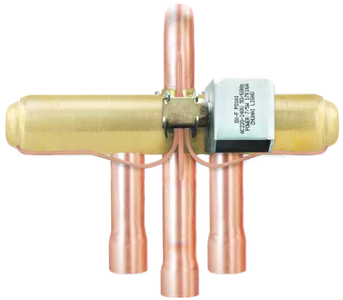
电磁四通换向阀本体 Solenoid Four-Way Reversing Valve
电磁四通阀换向阀线圈 Solenoid Four-Way Reversing Valve Coil
电子膨胀阀本体 Electronic Expansion Valve
电子膨胀阀线圈 Electronic Expansion Valve Coil
3/8"截止阀 3/8" Shut-Off Valve
5/8"截止阀 5/8" Shut-Off Valve

应 用 领 域 APPLICATION


家用空调 Residential AC


商用空调 Commercial AC

明 星 产 品 STAR PRODUCT



电磁四通换向阀
Solenoid Four-Way Reversing Valve

- 适用于空调各种冷媒
  Suitable for all kind of AC refrigerants
- 寿命长
  Long service life
- 耐高压
  High pressure resistant
- 高可靠性
  High reliability

新型工业品

NEW INDUSTRIAL PRODUCTS

格力电器在发展空调业务的过程中，逐渐形成以技术为核心的业态相关多元化。目前，格力依托其领先技术，开发出两大类、十多个系列、五十余个规格的新型工业产品，包括LED工业照明灯具、工业交互终端等产品，能充分满足不同消费群体的各种需求。

New Industrial Products are developed, manufactured and sold by Gree Electric Appliances Inc. of Zhuhai. Under the diversification strategy, Gree is entering new areas such as new energy, intelligent equipment, smart home and Gree industrial products. We have 2 categories, more than 10 series and 50 specifications of innovative products include LED lights, industrial interactive terminals and precision inverter chillers, etc.



工业触控屏产品
Industrial Touch Screen Products



LED工业照明灯具
LED Industrial Lighting

工业触控屏产品

INDUSTRIAL TOUCH SCREEN PRODUCT



电容触控屏（铝壳/塑壳）
Capacitor Touch Screen (Aluminum Shell/Plastic Shell)

GIE-TM120型产品 Model GIE-TM120
GIE-TM070型产品 Model GIE-TM070

电阻触控屏（铝壳/塑壳）
Resistance Touch Screen (Aluminum Shell/Plastic Shell)

GIE-TL120型产品 Model GIE-TL120
GIE-TL070型产品 Model GIE-TL070

智慧盒子移动终端
Intelligent Box Mobile Terminal

GIE-A1型产品 Model GIE-A1

产品优势
Product Advantages

性能强大
Powerful performance

搭载Cortex A8 800MHz CPU、4GB Flash、512MB RAM。采用自主研发的操作系统-格力GIE/OS，可靠性更高
Adopting Cortex A8 800MHz CPU, 4GB Flash、512MB RAM, and G-made GIE/OS system to ensure higher reliability

机身超薄
Ultra-thin body

极致美学设计，30mm超薄，外观轻薄有质感
Ultimate aesthetic design, 30mm thin

铝合金材质
Aluminum alloy design

全新打造HMI全铝合金材质技术，五面防水
Utilizing new HMI AL-alloy technology, overall waterproof effect

清晰度高
High definition

GIE-TM高端系列12 寸配置1024*768高分辨率LCD，并有更宽广的可视角度（T:60°/B:60°/L:70°/:70°）
GIE-TM high-end 12-inch series has high resolution (1024*768) LCD, and an ultra-wide angle
（（T:60°/B:60°/L:70°/:70°）



应 用 领 域 APPLICATION


智能家居 Smart Home


中央空调 Central Air Conditioning

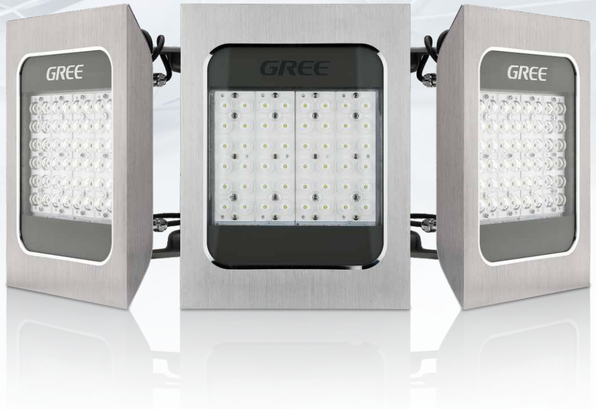

能源管理 Energy Management


工业设备 Industry Equipment


生产现场 Work Site

LED工业照明灯

LED INDUSTRIAL LIGHTING



GIMG100-AC220F型产品
Model GIMG100-AC220F

GIE-LED0W1-DC400/HE型产品
Model GIE-LED0W1-DC400/HE

GIE-LED0W1-DC400/IC型产品
Model GIE-LED0W1-DC400/IC

产品优势 PRODUCT ADVANTAGES

光源好 Good light source	采用进口的美国碳化硅科锐灯珠，灯珠寿命超50000小时 select superior SiC LED lamp beads, with more than 50,000h life duration
用电省 Power saving	独特的发光工艺，代替传统的高功率照明设备 a unique lighting process can replace the traditional high-power lights
防护佳 Good protection	IP65防护等级，室内室外皆可用 IP65 for indoor and outdoor use
散热佳 Superior cooling effect	高低翅片散热设计，超强散热力 high-low fin heat dissipation design to achieve super cooling effect
电源优 Power saving	兼容交直流,实用范围广 compatible with AC and DC, a wide range of applications
维护易 Easy maintenance	电源盒独立外置,圆齿转轴咬合结构，角度灵活可调 with independent external power box and spiral shaft occlusion structure to ensure accurate adjustment of mounting angle
设计美 Exquisite design	铝拉丝合金面板、钢化玻璃面罩 aluminum brushed alloy panel, tempered glass mask

应用领域 APPLICATION



系统解决方案
SYSTEM SOLUTION



高端家电领域系统解决方案
System solution for high-end household appliances

新能源汽车系统解决方案
System solution for new energy vehicle

智慧工厂系统解决方案
System solution for iFactory

3C行业系统解决方案
System solution for 3C industry

微电子行业系统解决方案
System solution for Me industry

高端家电系统解决方案

SYSTEM SOLUTION FOR HIGH-END HOUSEHOLD APPLIANCE

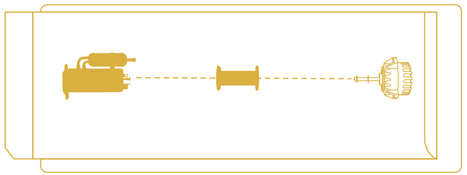
格力工业制品依靠自身强大的空调整机实力，整合旗下各空调零部件板块的高精尖产品，打包建成“一站式销售、服务体系”，推出针对全球各地区市场的“空调/制冷/暖通系统解决方案”。

Rely on the powerful platform of Gree, Gree Industries has successfully rolled out the “one-stop service system” and “overall system solution for AHR” by integrating the sales of various high-end components.

格力1Hz精密变频空调系统

Gree 1Hz Precision Inverter AC System

- 精准控温，可满足1~130Hz宽范围运行，1Hz稳定运行不停机
  Precise temperature control, can run stably at a wide range of 1~130Hz
  1Hz smooth operation without downtime
- 节能环保，最低功率仅15W
  Energy efficient with the min power of 15W
- 具有完善系统、电控保护系统，包括缺氟保护、过负荷保护、风机保护、压缩机保护、PFC保护、IPM保护等，保证整机的可靠运行
  It has perfect electronic control system, including fluorine-lacking protection, overload protection, fan protection, compressor protection, PFC protection and IPM protection, etc., to ensure the reliable operation of the unitary machine



零下30°——54°超强制冷热

Strong Cooling&Heating Capacity at -30℃~54℃

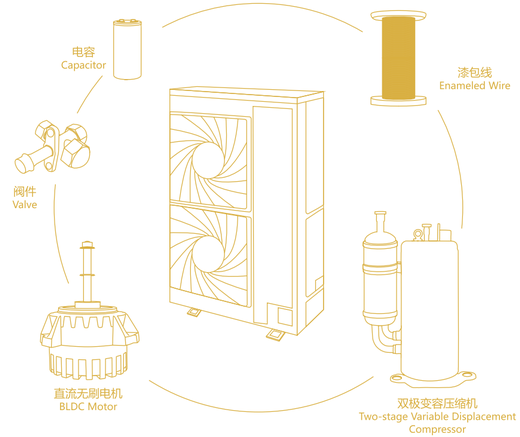
1赫兹变频技术，恒温运行最低15KW

1Hz inverter technology realize constant operation at 15 KW

煤改电超低温制热系统解决方案

System Solution for Coal-Electricity Ultra-Low Temp. Heating

- 零下25℃超低温制热
  Ultra-temp. heating at -25℃
- 标准工况（-12℃）下6P机低温制热量可达14KW
  6P AC can generate 14 KW heat under the standard condition (-12℃)



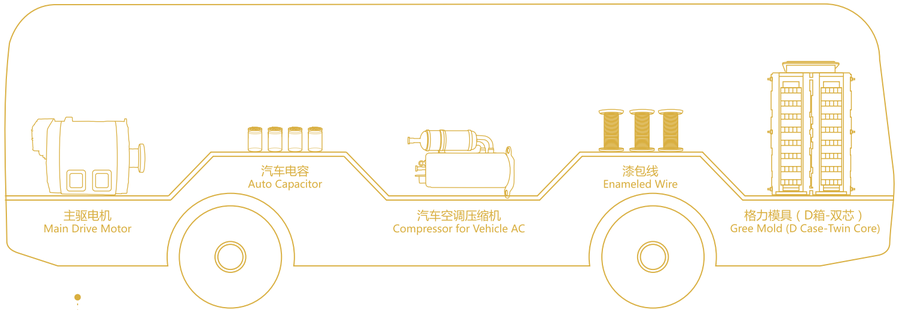
新能源汽车系统解决方案
SYSTEM SOLUTION FOR NEW ENERGY VEHICLE

通过多年的市场调研、技术研发，格力整合内部资源，重磅推出新能源汽车的整体解决方案，可对外承接纯电动客车空调系统、主驱电机及控制器、动力电池箱及电池结构件、电动热泵空调及整车综合热管理系统、车用模具、电容、电工、铸件产品等多种新能源汽车零部件的加工和制造，以及智能装备的一系列产品，为客户提供新能源汽车的一站式服务。

Through years of market research and technology development, Gree has integrated internal resources and launched a total solution for new energy vehicles. It can undertake the processing and manufacturing of various new energy components, include AC system, main drive motors and controllers, power battery and battery structural parts, electric HP AC and integrated thermal management system, automotive molds, capacitors, electric products, casting products, etc.

商用车（客车）产品
Commercial Vehicle (Passenger Car) Product

纯电动客车空调系统 AC System for Pure Electric Bus
主驱电机及控制器 Main Drive Motor and Controller
动力电池箱及整车热管理系统Power Battery Box and Vehicle Thermal Management System
车用模具产品 Auto Mold Product
车用电容产品Auto Capacitor Product
车用电工产品Auto Electrical Product
车用铸件Auto Casting
智能装备 Intelligent Equipment





新能源主驱电机
New Energy Main Drive Motor

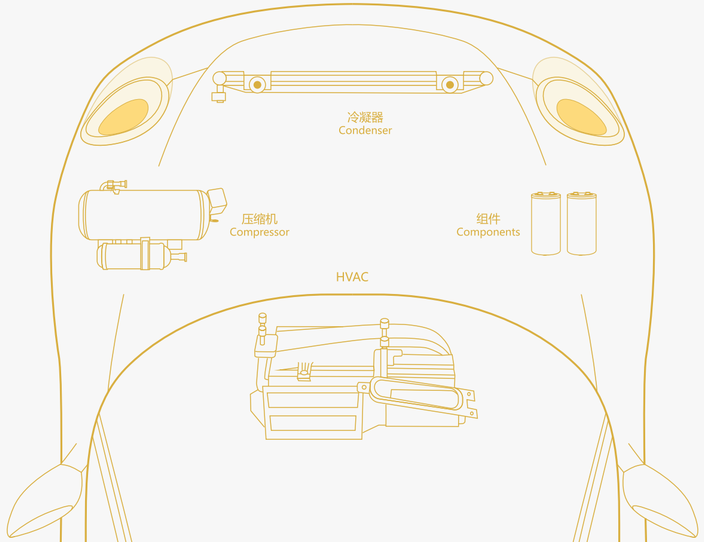
- 可应用于8.5~12米电动大巴
  Applied to 8.5~12m electric bus
- 高功率密度、高可靠性，结构紧凑
  High power density, high reliability and compact size
- 峰值功率200kW
  Peak Power: 200kW
- 峰值扭矩2800Nm
  Peak Torque: 2800Nm
- 产品最高转速：2600~3000rpm
  Max rotation speed: 2600~3000rpm

乘用车产品
Passenger Car Products

新能源汽车热泵系统解决方案
Solution for New Energy Vehicle HP System
车用模具产品 Auto Mold Product
车用电容产品Auto Capacitor Product
车用电工产品Auto Electrical Product
车用铸件Auto Casting
智能装备 Intelligent Equipment

新能源汽车热泵系统解决方案
Solution for New Energy Vehicle HP System

- 双级压缩技术，强劲制冷热
  Strong cooling and heating function with two-stage compression technology
- 高效变频，控温精准，舒适节能
  High-efficiency inverter, precise temperature control, comfortable and energy-saving
- 在-20° C-0° C工况环境下，空调耗电量节省60%，整车续航比例增加13%
  The air conditioning can save 60% electricity at -20° C-0° C, and the battery life ratio of the vehicle is increased by 13%
- 冷暖分离设计有效解决结雾/化霜问题
  Cool and warm isolation design effectively solves condensation/defrosting problems



智慧工厂系统解决方案
SYSTEM SOLUTION FOR IFACTORY



无人化工厂系统方案
System Solution for Unmanned Factory

- 625工业机器人已在码垛、上下料、焊接等领域实际投入应用
  625 industrial robots have been used in the palletizing, loading& unloading and welding, etc
- 格力卧式加工中心重复定位精度可达0.005mm
  The repeated positioning accuracy of Gree horizontal machining center can reach 0.005mm

智能仓储/物流系统解决方案
System Solution for Intelligent Warehousing/Logistic

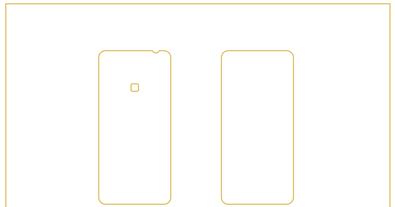
格力智能AGV已经成熟应用在加工产线，搭配机床加工、工业机器人、智能仓储设备，在各个生产环节均可进行无人化开发，形成一整套无人化工厂解决方案。
Gree Intelligent AGV has been maturely applied in the processing line. Equipped with machine processing, industrial robots and intelligent storage equipment, the unmanned factory solutions have been formed and penetrated into the different links of production.



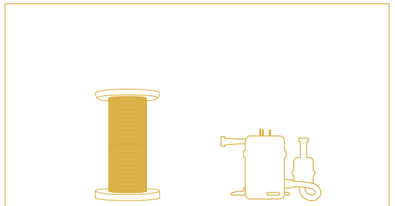
3C行业系统解决方案
SYSTEM SOLUTION FOR 3C INDUSTRY

面向火爆的3C行业，格力可提供精密模具、装备注塑机、石墨加工中心及自动化生产线、电容、漆包线等一站式工业产品，目前已与多家行业领先企业达成深度合作。

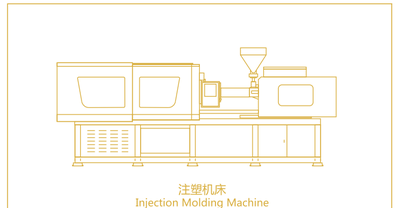
Faced with the hottest 3C, Gree is capable of providing the users with one-stop industrial products including precision mold, injection molding machine, graphite machining center as well as automatic production line, capacitor and enameled wire. Up to now, Gree has entered into the agreements with many industry-leading companies.



精密模具
Precision Mold



工业配件
Industrial Components



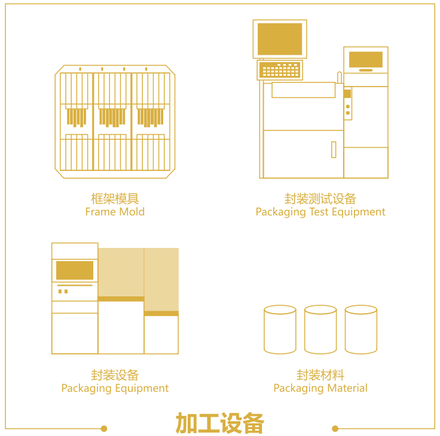
高端设备
High-end Equipment

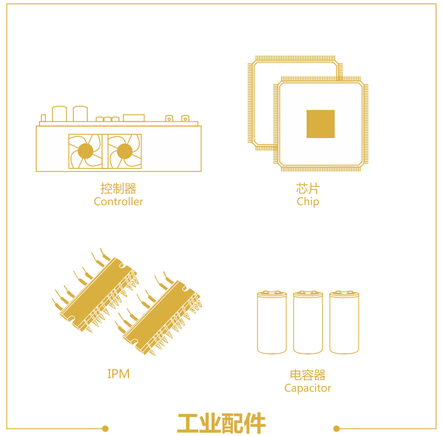
微电子行业系统解决方案

SYSTEM SOLUTION FOR ME INDUSTRY

公司在电器控制和信号逻辑设计拥有多年的核心技术沉淀，电子电容及IPM模块在行业占据领先位置，同时公司不断对芯片和集成电路领域进行布局、技术创新，为顾客提供工业产品在芯片封装测试、封装材料、框架模具及其相关设备一站式服务。

Gree has core technologies for electric control and signal logistic design, and our electronic capacitor and IPM also rank the top in the industry. Meanwhile, Gree is imperative to innovating the chip and integrated circuit, to offer the users with one-stop service for package test, packaging material, frame mold and other related equipment.







微信关注格力工业制品

格力工业制品
GREE INDUSTRIES

珠海凌达压缩机有限公司
ZHUHAI LANDA COMPRESSOR CO., LTD.

地址：广东省珠海市斗门区龙山工业区龙山大道1号
Add: No.1, Longshan Avenue, Longshan Industrial Zone, Doumen District,Zhuhai, Guangdong, China
网址（Web）：http：//www.landa.com.cn

珠海凯邦电机制造有限公司
ZHUHAI KAIBANG MOTOR MANUFACTURE CO., LTD.

地址：珠海市斗门区斗门镇龙山二路西6号
Add：No.6, West Longshan 2RD, Doumen Town, Doumen District,Zhuhai, Guangdong, China
网址（Web）：http：//www.gree-kb.com

珠海格力新元电子有限公司
ZHUHAI GREE XINYUAN ELECTRONIC CO., LTD.

地址：广东省珠海市斗门区龙山工业区龙山2路东8号
Add: No.8, East Longshan 2RD,Longshan Industrial Zone, Doumen District, Zhuhai, Guangdong, China
网址 (Web)：http://www.gree-jd.com

珠海格力电工有限公司
ZHUHAI GREE ELECTRIC ENTERPRISE CO., LTD.

地址：广东省珠海市斗门龙山工业区龙濠路1号
Add：No.1,Longhao Road, Longshan Industrial Zone, Doumen district, Zhuhai, Guangdong
网址（Web）：http://www.gree-wire.com

珠海格力智能装备有限公司
ZHUHAI GREE INTELLIGENT EQUIPMENT CO., LTD.

地址：广东省珠海市九州大道中2323
Add：No.2323,JiuzhouRoad,Zhuhai,Guangdong
网址（Web）：http：//www.gree.com

珠海格力精密模具有限公司
ZHUHAI GREE PRECISION MOLD CO., LTD.

地址：珠海市香洲区前山金鸡路789号
Add：No.789,Jinji Road,Qianshan Town,Xiangzhou District,Zhuhai,Guangdong,China
网址（Web）：http：//www.gree.com

芜湖格力精密制造有限公司
WUHU GREE PRECISION MANUFACTURE CO., LTD.

地址：安徽省芜湖市三山区团洲路以西
Add: West of Tuanzhou Road, Sanshan District, Wuhu, Anhui
邮箱Web：whjmxz@cn.gree.com

珠海励高精工制造有限公司
ZHUHAI LIGAO PRECISION MANUFACTURING CO.,LTD.

地址：珠海市九洲大道中2097号
Add: No.2097 Middle Jiuzhou Road, Zhuhai, Guangdong Province，China
邮箱Web：ligao@cn.gree.com

地址：广东省珠海市前山金鸡西路　Add: Jinji West Rd.,Qianshan Town, Xiangzhou District, Zhuhai, Guangdong, China
电话（Tel）：0756-8570359/0756-8570372/0756-8570371　传真（Fax）：0756-5790323　邮箱（E-mail）：gyzpjyb@cn.gree.com　网址（Web）：http://www.gree.com.cn