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FOCUS ON ELECTRIC FURNACE PRODUCTION, DIFFICULT MAINTENANCE, ENERGY
SAVING TRANSFORMATION, DESIGN DEFECT REPAIR

KANGDA ELECTRIC FURNACE 康达电炉

山东康达电炉有限公司

SHANDONG KANGDA ELECTRIC FURNACE CO., LTD.

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安全
SAFE



稳定
STABLE



节能
ENERGY-SAVING



高效
EFFICIENT

COMPANY PROFILE 企业简介 >>

山东康达电炉有限公司是一家集研发、设计、生产及服务为一体的高科技企业。

产品涵盖：中频感应熔炼炉、中频透热炉、中频热处理炉、封闭式冷却塔，是一家中频感应加热领域的专业制造商。依靠自身强大的技术实力并引进吸收国内外先进技术，产品在生产实践中得到不断的发展与完善，稳定性及节能方面，都得到了客户的一致好评。

创新引领企业发展，技术创新打造企业核心竞争力，康达电炉的产品在不断的技术进步中一路向前。在制造过程中，我们深知质量就是产品的生命线，通过不断完善生产工艺，层层把关设备质量以及全面的产品测试方案，严格参照质量标准加以实施，确保每套设备的制造质量。因为康达人对产品质量的不懈追求，赢得了众多用户的一致好评，康达的产量与产值以每年20%~30%的速度在稳定发展，产品全方位覆盖国内二十三个省，四大直辖市，五大自治区，远销欧洲，北非，中亚及俄罗斯，等全球三十多个国家和地区。

公司现拥有国内一流的技术专家团队，我们不但为员工提供各种完备的薪酬福利待遇，而且还为他们设计了良好的个人发展计划，在提升员工自身价值的同时，不断地增强企业技术实力。立足中国、放眼世界，康达电炉正式进入发展的快车道，同时也热忱的欢迎德才兼备的优秀人才加入我们的团队，与公司共同创造美好明天。

公司自成立以来，始终致力于为铸造、锻造、热处理等行业提供专业设备制造服务，山东康达电炉有限公司欢迎广大用户的惠顾和指导，真诚期待与您共创辉煌。



Shandong KangDa Electric Furnace Co., Ltd. is a high -tech enterprise integrating R & D, design, production and service.

Products cover: Medium-frequency induction furnace, medium -frequency heat furnace, mid -frequency thermal processing furnace, and closed cooling tower. It is a professional manufacturer in the field of frequency induction heating. Relying on its own strong technical strength and introducing advanced technology at home and abroad, the products have been continuously developed and improved in production practice. Both stability and energy-saving have been well received by customers.

Innovation leads the development of enterprises, technology innovation builds the core competitiveness of enterprises, and the products of Kangda electric furnace have moved forward in continuous technological progress. In the process of manufacturing, we know that the quality is the lifeline of the product. By continuously improving the production process, the quality of the equipment and the comprehensive product test plan, we strictly implement the quality standards to ensure the manufacturing quality of each set of equipment. Because of the unremitting pursuit of product quality, Kangda has won unanimous praise from many users. Kangda's output and output value is developing stably at a rate of 20%to 30%per year. The Greater Municipality, the five major autonomous regions, exported to Europe, North Africa, Central Asia and Russia, including more than 30 countries and regions around the world.

The company now has a team of first -class technical experts in China. We not only provide employees with a variety of complete salary and benefits, but also design a good personal development plan for them. While improving employees' own value, we continuously enhance the technical strength of the enterprise. Based on China and looking at the world, the Kangda electric furnace have officially entered the fast lane of development. At the same time, it also warmly welcomes outstanding talents with both German talents to join our team to create a better tomorrow with the company.

Since the establishment of the company, it has always been committed to providing professional equipment manufacturing services for industries such as casting, forging, and heat treatment. Shandong Kangda Electric Furnace Co., Ltd. welcomes the guidance and guidance of the majority of users and sincerely looks forward to creating glory with you.

企业文化

COMPANY CULTURE

使命 MISSION

对外成就客户，对内成就员工
Externally achieve customer success,
internally achieve employees growth.

价值观 VALUE

客户第一，团结合作，开拓进取，敢于担当
Customers first, unity and cooperation, pioneering and
enterprising, dare to take responsibility.

产品观 PRODUCT VIEW

安全，稳定，节能，高效
Safe, stable, energy -saving, efficient.

愿景 VISION

致力于成为感应加热行业系统解决方案的卓越服务商和受尊敬的企业
Committed to become an excellent service provider and respected
enterprise to the inductive heating industry system solution.

CORPORATE HONOR

企业荣誉 >>

核心技术专利

Core Technology Patent

康达电炉多年以来秉承“品质源于专业”的质量方针,在激烈的市场竞争中,不断创新、进取、超越和完善并荣获了多项荣誉证书,这些荣誉不仅是对我们过去努力的肯定,更是对我们未来发展的期许。

The Kangda Electric Furnace has been adhering to the quality policy of "quality derived from professionalism" for many years, and has continuously innovated, aggressive, transcended and improved in fierce market competition. Won a number of honorary certificates, these honors are not only affirming our past efforts, but also the expectations of our future development.



企业专利

Corporate Patent

本公司在感应电炉领域不断创新,吸取国外先进技术和设计理念,设计制造更安全、更节能、更先进的感应电炉系统。到目前为止,我公司获得由中华人民共和国国家知识产权局颁发的专利一百余项:

Our company continues to innovate in the field of induction electric furnaces, absorb foreign advanced technology and design concepts, and design and manufacture a safer, more energy -saving, and more advanced sensing electric furnace system. So far, Our company has obtained more than one hundred patents issued by the National Intellectual Property Office of the People's Republic of China.

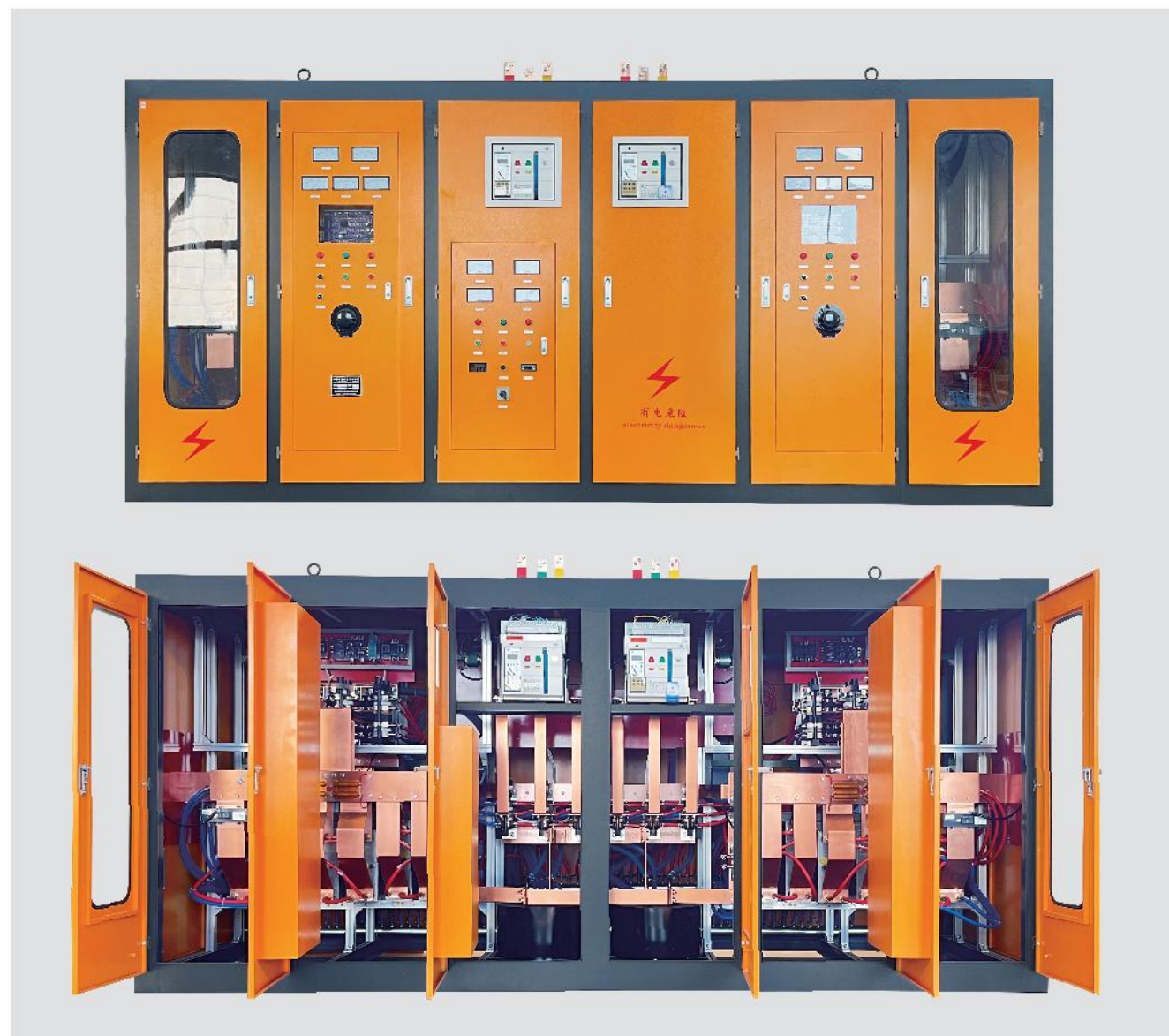
序号 NUMBER	专利权人 PATENTEE	专利名称 PATENT NAME	专利号 PATENT NO
1	山东康达电炉有限公司 Shandong Kangda Electric Cooker Co., Ltd.	串联一拖二熔炼系统 Candidate one drag two melting system	ZL2022 22054705.4
2	山东康达电炉有限公司 Shandong Kangda Electric Cooker Co., Ltd.	电炉炉衬推出机构 Electric furnace lining agency	ZL2022 22332826.0
3	山东康达电炉有限公司 Shandong Kangda Electric Cooker Co., Ltd.	封闭式中频电炉冷却系统 Closed intermediate frequency electric furnace cooling system	ZL2022 22479984.9
4	山东康达电炉有限公司 Shandong Kangda Electric Cooker Co., Ltd.	减少涡流损耗的中频炉 III reducing vortex losses	ZL2022 22508391.0
5	山东康达电炉有限公司 Shandong Kangda Electric Cooker Co., Ltd.	具有便于送料结构的中频透热炉 Mid-frequency transparent hot furnace with convenient feeding structure	ZL2022 22667052.7
6	山东康达电炉有限公司 Shandong Kangda Electric Cooker Co., Ltd.	中频炉用旋风式吸尘罩 The mid-frequency furnace uses a whirlwind vacuum cover	ZL2022 22219819.X
7	山东康达电炉有限公司 Shandong Kangda Electric Cooker Co., Ltd.	中频钢壳炉 Mid-frequency steel shell furnace	ZL2022 22103465.2
8	山东康达电炉有限公司 Shandong Kangda Electric Cooker Co., Ltd.	一种曝气机循环交替互投线路控制箱 A fenant recycling of the interchange line control box	ZL2019 20773978.X
9	山东康达电炉有限公司 Shandong Kangda Electric Cooker Co., Ltd.	中频炉自动控制系统 Mid-frequency furnace automatic control system	ZL2019 21888777.1
10	山东康达电炉有限公司 Shandong Kangda Electric Cooker Co., Ltd.	一种中频电炉综合保护控制装置 Shandong Kangda Electric Cooker Co., Ltd.	ZL2019 20597963.2
11	山东康达电炉有限公司 Shandong Kangda Electric Cooker Co., Ltd.	封闭式水冷 A comprehensive protection control device for intermediate frequency electric furnace	ZL2019 30172730.3
...
106	山东康达电炉有限公司 Shandong Kangda Electric Cooker Co., Ltd.	一种中频感应加热开放式水冷 A mid-frequency induction heating open water cold	ZL2019 20596445.9

公司已通过ISO9001质量体系认证,产品质量有保证。
The company has passed the ISO9001 quality system certification, and the product quality is guaranteed.

SERIES RESONANT POWER SUPPLY 串联谐振中频电源 >>

◆ KGCL 串联谐振中频电源 KGCL Series Resonant Power Supply

康达电炉设计生产的KGCL系列中频电源能完美地胜任一拖二（一拖多）的工作模式，可实现一台熔炼一台保温（或者多台熔炼多台保温）的熔炼工艺流程，能够大大提高变压器的利用率，实现效率的最大化。



产品优势

- 节能: 电源效率高比普通设备节电20%。
- 高效: 无高次谐波, 功率因数最高, 功率因数可达95%以上, 不用上无功补偿装置和消谐波装置。一台同时带一台炉熔炼, 一台炉保温精炼, 变压器利用率高, 可以省去一半的变压器容量使用费用。一拖二电炉, 两炉可同时浇铸, 也可连续供应钢水浇铸。
- 故障率低: 较低的工作电压有效保证可控硅等功率器件具有非凡的稳定性。
- 安全: 谐波少, 电网的污染低, 有效保证了用电安全。
- 起动性能佳: 一拖二电炉, 功率任意分配, 启动率100%。



The KGCL series intermediate frequency power supply, developed by Kangda Electric Furnace, adeptly handles the one-to-two (or one-to-many) operating mode. It facilitates a melting process that involves melting in one operation while maintaining heat in another (or multiple melting operations with multiple heat maintenance). This can greatly improve the utilization rate of transformers and achieve maximum efficiency.

Product advantages

- Energy saving: With high power efficiency, it saves 20% of electricity compared to ordinary equipment.
- Efficient: No high-order harmonics, highest power factor, power factor can reach over 95%, without the need for reactive power compensation devices and harmonic elimination devices. One furnace is used for smelting, while the other furnace is used for insulation and refining. The transformer utilization rate is high, which can save half of the transformer capacity usage cost. One to two electric furnaces can be used for simultaneous casting or continuous supply of molten steel for casting.
- Low failure rate: The lower operating voltage effectively ensures the extraordinary stability of power devices such as thyristors.
- Safety: With fewer harmonics and low pollution in the power grid, it effectively ensures electricity safety.
- Excellent starting performance: One to two electric furnace, with arbitrary power distribution and a starting rate of 100%.

◆ IGBT 串联谐振中频电源 IGBT Series Resonant Power Supply



IGBT串联谐振中频电源所有器件都安装在封闭的柜子内,它的优势在于当IGBT串联谐振系统处于正常工作状态下时其整流部分是满开的,控制的对象为逆变部分的输出功率,即IGBT串联谐振是通过调整逆变来调节中频电源的输出功率的,所以在此系统下中频电源可以是一拖二或者一拖多。

电源柜同时配有一个方便操作的熔炼管理器(选配),功能包括:冷炉启动,故障诊断,故障信息显示,运行信息显示,系统状态显示,信息存储等功能。

串联逆变电源由进线变压器、整流器、滤波电容器、逆变器、谐振电容器、感应线圈及VIP控制器组成,具有主回路控制简单,故障率低、维护方便、设备运行效率高等优点。

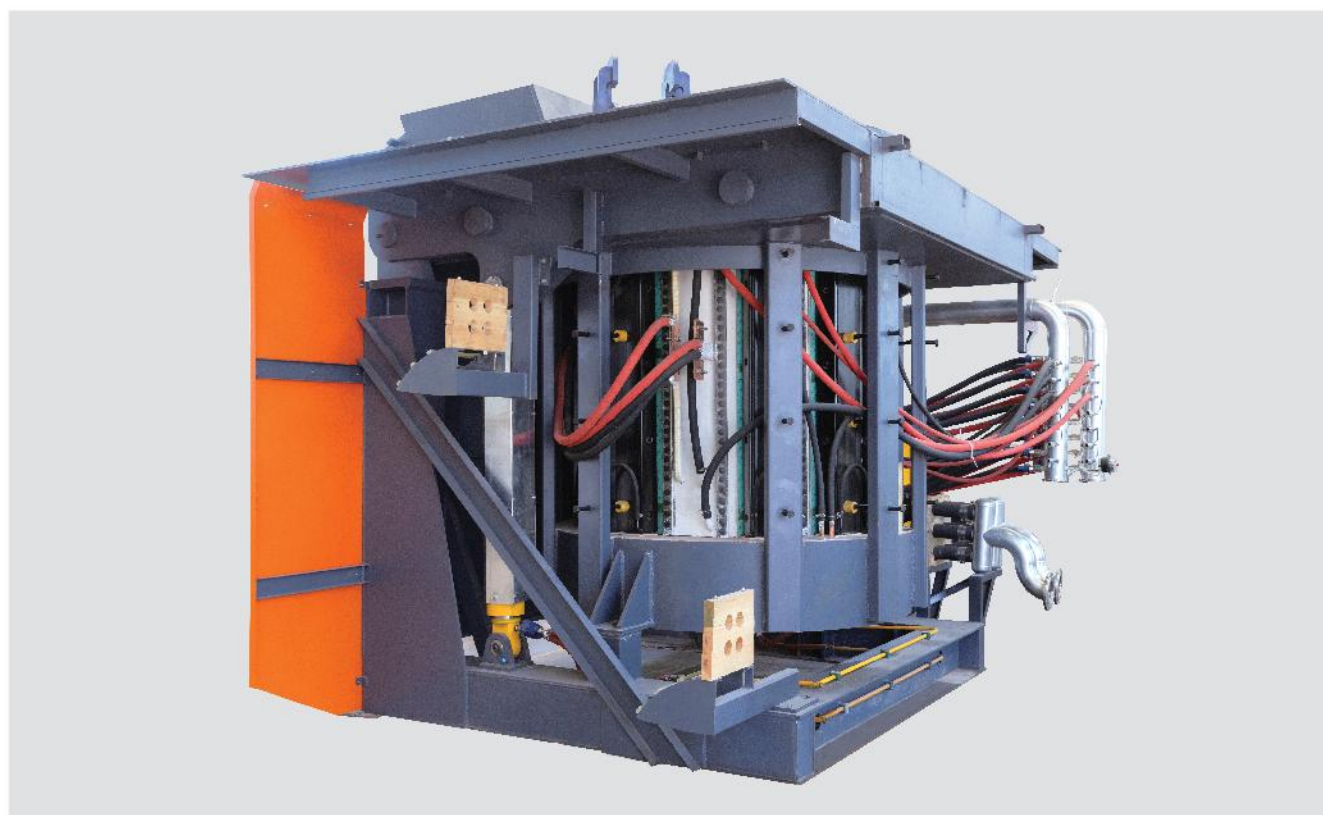
All devices of IGBT series resonance mid -frequency power supply are installed in a closed cabinet. Its advantage is that when the IGBT series resonance system is in a normal working state, the rectifier part is full. IGBT series resonance is to adjust the inverter to adjust the output power of the medium -frequency power supply, so the medium frequency power supply can be one-drag-two or one-drag-multi under this system.

The power cabinet is equipped with a melting manager (optional) that is convenient to operate at the same time. The functions include: cold stove start, failure diagnosis, fault information show, operating information display, system state display, information storage and other functions.

Candidate inverter power consists of a wire transformer, rectifier, filter capacitor, inverter, resonant capacitor, induction coil and VIP controller. It has the advantages of simple main circuit control, low failure rate, convenient maintenance, and high equipment operation efficiency.



STEEL SHELL FURNACE 钢壳炉 >>



◆ 炉体结构 Furnace Structure

炉体结构由炉固定架和炉本体组成，炉固定架和炉体采用整体性骨架结构。炉体的倾转是由液压系两侧的两个液压缸顶起实现的，一套倾炉液压缸带有钢质的保护罩，可保护油缸杆被灰尘和飞溅金属的沾污。炉体的复位是靠炉体的自重产生的压力实现的。炉膛中铁液的高度和直径比较高。本炉膛参考国外先进炉型，是在计算机分析的基础上确定的，细高比增大，自然功率因数得到改善，电效率得到提高。

The furnace body structure consists of a fixed frame and the furnace body. The tilt of the furnace body is implemented by the two hydraulic cylinders on both sides of the hydraulic system. A set of hydraulic oil cylinders with a tilt furnace can protect the oil cylinder pole from the dust and splash metal. The reset of the furnace body is achieved by the pressure of the self-weight of the furnace body. The height and diameter of the iron liquid in the furnace are relatively high. The furnace's advanced foreign furnace type is determined on the basis of computer analysis. The fine height ratio increases, the natural power factor is improved, and the electricity efficiency is improved.

◆ 设备用料 Device Material

采用较强钢结构，美观耐用，磁轭采用宝钢等有取向磁轭，对感应圈产生的磁场进行有效的屏蔽，采用压接工艺，提高热效率。采用5mm;6mmT2紫铜冷轧管制造感应器，全身三遍绝缘漆处理，并采用绝缘布包扎等绝缘处理，绝缘等级达到H级，避免匝间打火有效保护感应器，提高线圈使用寿命。

The strong steel structure is beautiful, beautiful and durable, and the magnetic ravioli uses Baosteel and other orientation magnetic crickets to effectively block the magnetic field generated by the inductive ring. The pressure connection process is used to improve thermal efficiency. Use 5mm; 6mmT2 Copper cold-rolled pipes to create sensors, three times the insulation paint treatment, and use insulation and other insulation treatment. The insulation level reaches H-class, avoiding effective protective sensors between turbine fires and improving the service life of the coil.

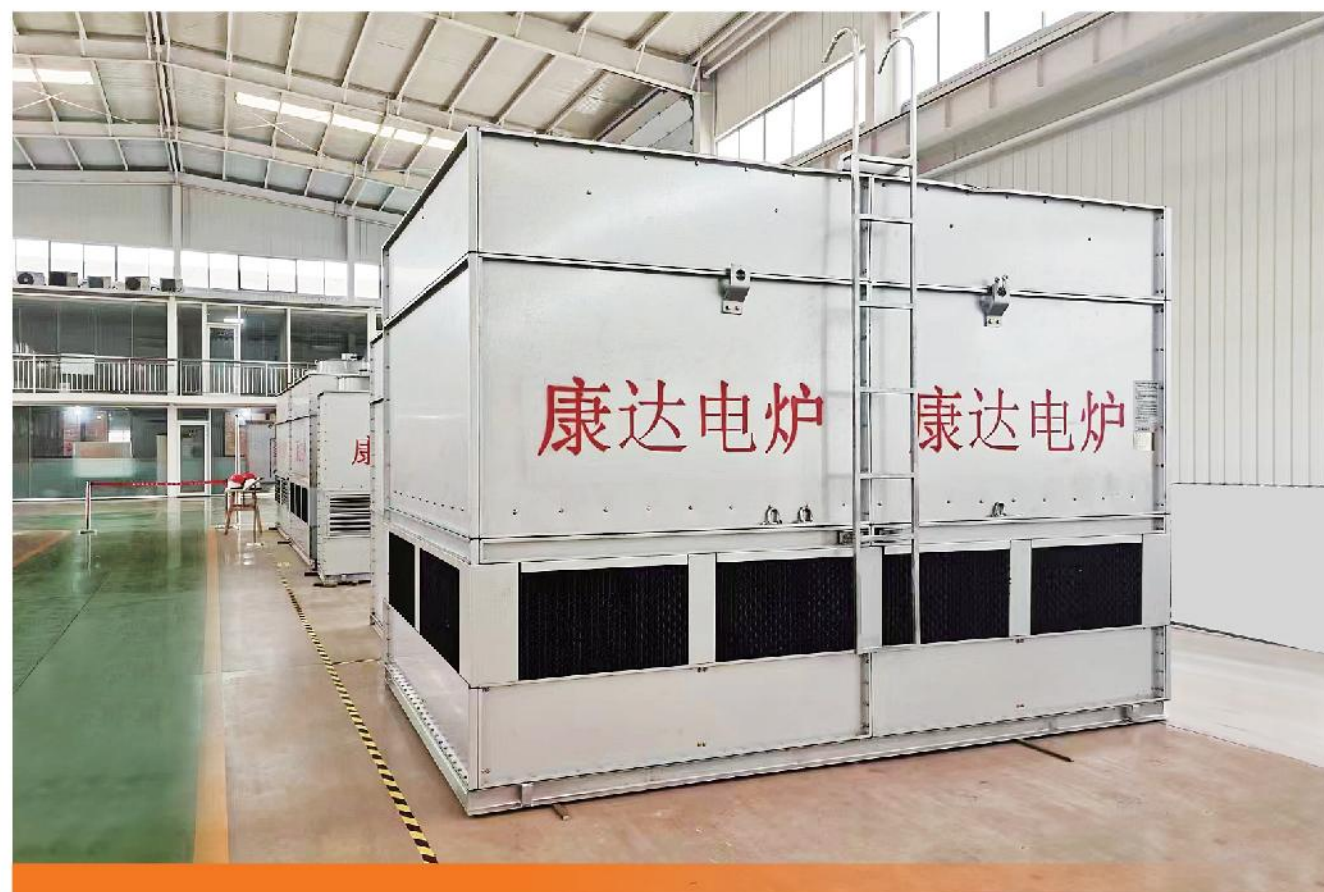
◆ 炉体设计 Furnace Design

设备保护可靠，使用简单，故障率低具有多重保护系统，水压，缺相，过流，欠压，过压等。操作系统采用液压设计，安全性高，操作简单。双电机设计，让设备始终处于安全状态。谐波小，因为串联谐振的整流部分始终处于全开放状态，谐波小，对电网污染小。

The equipment is reliable in protection, easy to use, and has a low failure rate. It has multiple protection systems, including water pressure, phase loss, over-current, under-voltage, over-voltage, etc. The operating system adopts hydraulic design, with high safety and simple operation. The dual motor design ensures that the equipment is always in a safe state. The harmonics are small because the rectification part of the series resonance is always in a fully open state, resulting in small harmonics and minimal pollution to the power grid.



CLOSED WATER COOLING SYSTEM 封闭式水冷系统 >>



产品优势

- 全封闭式循环冷却, 杜绝杂物引起的管路堵塞。
 - 采用软水循环冷却, 无水垢生成引起的电源、可控硅、电容器、感应线圈等过热损坏。
 - 不需水池和冷却塔、占地小、安装维护简单、移动方便。
 - 散热效率高、运行成本低。
 - 封闭式循环水耗量很小, 符合环保节能的要求。
 - 软水中无导电离子, 不会使设备的冷却部件因发生电解而损坏。
 - 闭式冷却塔在出水口设有水温显示及报警功能, 并能通过数显温控仪控制喷淋系统来实现进出水温度的调节。
- 使闭式冷却塔在规定的水温范围内对设备连续、安全地高效冷却。

Product advantages

- Cooling of fully enclosed cycles to eliminate tube blocks caused by debris.
- Adopting soft water circulation cooling, there is no overheating damage caused by scale formation in power supply, thyristors, capacitors, induction coils, etc.
- No pool and cooling tower, small occupation, simple installation and maintenance, convenient movement;
- High heat dissipation efficiency and low operating costs.
- The consumption of closed circulating water is very small, which meets the requirements of environmental protection and energy saving.
- There are no conductive ions in soft water, which will not damage the cooling components of the equipment due to electrolysis.
- The closed cooling tower is equipped with water temperature display and alarm functions at the outlet, and can adjust the inlet and outlet water temperature by controlling the spray system through a digital temperature controller, which ensure that the closed cooling tower continuously, safely, and efficiently cools the equipment within the specified water temperature range.



CUSTOMER USE SITE 客户使用现场 >>



SERVICE SYSTEM 售后服务体系

24 小时售后服务热线
24-hour after-sales service hotline

+86 199-0536-6760
+86 147-0646-8686

优秀的售后服务人员
Excellent after-sales service staff

从电力电子专业、工业自动化专业、机电专业等相关专业中选拔优秀的学院毕业生,从电源、成套设备的装配工做起,再选拔至售后服务部做服务助理人员进行带动培养,每一位售后服务人员经历至少二年的时间,方可转为正式的售后服务人员,从而保证了售后服务人员的优秀素养。

Outstanding college graduates are selected from related majors such as Electronics and Electronics, Industrial Automation, and Mechanical and Electrical majors. Starting from the power supply and set of equipment, it is selected to the after-sales service department for service assistants for training. Each after-sales service personnel have experienced at least two years before they can be converted into formal after-sales service personnel, thereby ensuring the excellent literacy of after-sales service personnel.

国内同行业中唯一一家面向用户,
提供完善、到位的售后服务免费培训的专业公司

The only professional company in the same industry in China that provides users with comprehensive and comprehensive after-sales service and free training

为了更好地为用户提供便利的服务,公司定期举办“技术培训班”,在提供优秀售后服务的同时,使用户具备更专业的自修能力,极大程度地降低了不必要的设备故障,获得了用户的一致认可和好评。

In order to better provide users with convenient services, the company regularly organizes "technical training courses". While providing excellent after-sales service, users have more professional self-cultivation capabilities, which greatly reduces unnecessary equipment failures and obtains obtaining it. The user's unanimous recognition and praise.