从设备设计到规模生产提供整体解决方案

Provide overall solutions from equipment design
to large-scale production



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广东铝航科技有限公司

GUANGDONG LVHANG TECHNOLOGY CO., LTD

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Beside Guangyun Road, Shiling Village Committee, Xiaotang,
Shishan Town, Nanhai District, Foshan City

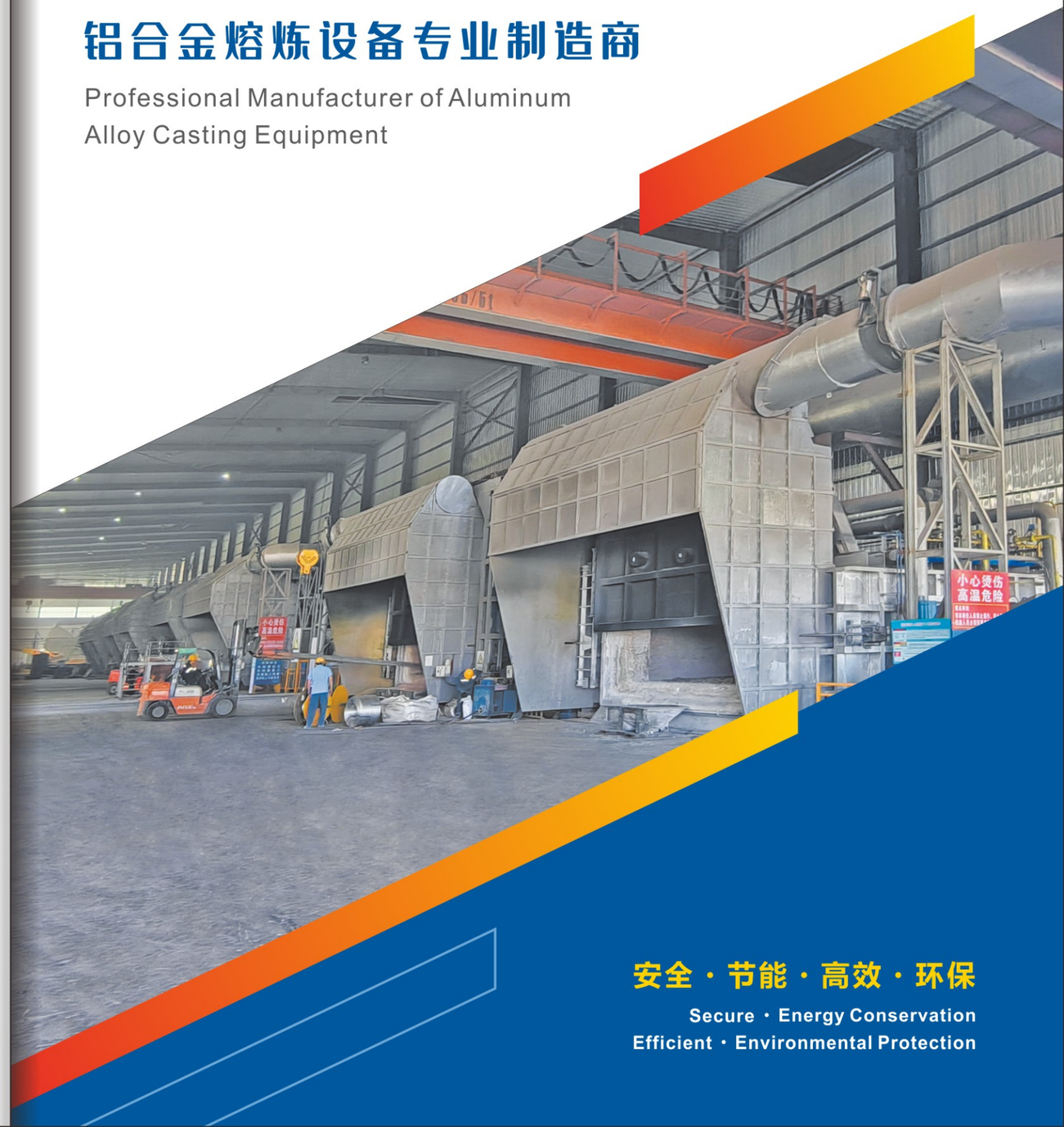
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铝航科技

LVHANG TECHNOLOGY

铝合金熔炼设备专业制造商

Professional Manufacturer of Aluminum
Alloy Casting Equipment



安全・节能・高效・环保

Secure・Energy Conservation
Efficient・Environmental Protection



铝航科技
LVHANG TECHNOLOGY

公司简介
Company Profile

广东铝航科技有限公司是一家集创新研发、设计、制造铝合金熔炼设备专业制造商，秉承“更安全、更环保、更节能”的理念。历经多年的熔铸生产管理经验，创新研发出先进的装备制造和生产管理及工艺核心技术。主要生产：熔铝炉、均质炉、燃烧系统、铝合金铸造设备、铸造模具等专业设备。可根据客户的生产需求，定制化设计整体规划技术方案。

广东铝航科技有限公司拥有完善配套的机械加工，产品的装配生产线。铝航科技坚持以“用户至上、信誉第一、质量第一”的服务宗旨，立足于铝型材加工设备行业，与时俱进，共同发展。依靠先进的技术和设备，专业的生产技术人才和管理队伍，积极引进国内外先进的技术，开发出国内顶尖水平的铝加工设备。不断为客户提供，最符合成本效益的先进熔炼设备及系统，以满足市场不断变化的需求。

不断追求创新、追求完美是我们前进的动力。我们将以合理的价格，优质的产品和完善的售后服务，成为您值得信赖的合作伙伴 。以提升客户的市场竞争力，为实现与客户合作双赢的局面作出不懈的努力！

Guangdong LVHANG Technology Co., Ltd. is a professional manufacturer specializing in innovative research and development, design, and manufacturing of aluminum alloy melting equipment, adhering to the concept of "safer, more environmentally friendly, and more energy-saving". After years of experience in melting and casting production management, we have innovatively developed advanced equipment manufacturing, production management, and process core technologies. Main production: professional equipment such as aluminum melting furnaces, homogenizing furnaces, combustion systems, aluminum alloy casting equipment, casting molds, etc. We can customize and design overall planning technical solutions based on customer production needs.

Guangdong LVHANG Technology Co., Ltd. has a complete set of mechanical processing and product assembly production lines. Aluminum Aerospace Technology adheres to the service tenet of "customer first, reputation first, and quality first", based on the aluminum profile processing equipment industry, keeping up with the times and developing together. Relying on advanced technology and equipment, professional production technicians and management teams, actively introducing advanced technology from both domestic and international sources, we have developed top level aluminum processing equipment in China. Continuously providing customers with the most cost-effective advanced smelting equipment and systems to meet the constantly changing needs of the market.

Continuously pursuing innovation and perfection is our driving force for progress. We will become your trusted partner with reasonable prices, high-quality products, and comprehensive after-sales service. To enhance customers' market competitiveness and make unremitting efforts to achieve a win-win situation in cooperation with customers!

铝航品质·科技智造

LVHANG Quality· Technological Intelligent Manufacturing

铝航科技
LVHANG TECHNOLOGY



值得信赖的熔炼设备合作伙伴
Trusted Smelting Equipment Partner

安全·节能·高效·环保
Secure · Energy Conservation · Efficient · Environmental Protection



LVHANG TECHNOLOGY

理 想
IDEAL

秉持追求顾客满意的熔炼设备，自主维修服务及完善的后勤支援，为顾客的生产线提供强而有力的后盾。

Adhering to the pursuit of customer satisfaction in smelting equipment, independent maintenance services, and comprehensive logistics support, we provide strong and powerful support for customers' production lines.

创 新
INNOVATION

以安全、节能、高效、环保的核心概念致力于熔炼设备的开发，颠覆传统设备设计的研发与创新。

Committed to the development of smelting equipment with the core concepts of safety, energy conservation, efficiency, and environmental protection, subverting the research and innovation of traditional equipment design.

智 能
INTELLIGENT

智能化设备，致力达成全方位智慧解决方案，推动熔炼产业的升级与进步。

Intelligent devices are committed to achieving comprehensive intelligent solutions and promoting the upgrading and progress of the smelting industry.

目录
Contents

P01–02 熔铸车间整体规划方案 Overall Planning Plan For The Melting And Casting Workshop

P03–04 蓄热倾动式熔炼炉 Regenerative Tilting Melting Furnace

P05–06 蓄热固定式熔炼炉 Heat Storage Fixed Smelting Furnace

P07–08 均质炉 Homogeneous Furnace

P09–10 内导液压铸造机 Inner Guide Hydraulic Casting Machine

P11–12 钢丝绳铸造机 Steel Wire Rope Casting Machine

P13 铸造模具 Casting Mold

P14 自动锯棒机 Automatic Saw Rod Machine

P15–16 辅助设备 Auxiliary Equipment

P17 工程施工案例 Engineering Construction Cases

P18 部分客户名录 Partial Customer Directory

熔铸车间整体规划方案

Overall Planning Plan For The Melting And Casting Workshop

我司不仅为客户提供高品质的设备和优质的服务，同时也为客户提供整体设备布局规划方案设计。我们将根据客户的厂房布局特点和针对每个客户各自的独特要求，再结合我们多年来积累的厂房设计实践经验，设计整体设备布局，从而实现熔铸车间的设备合理摆放，工作流程衔接顺畅，利于提供生产效率，材料运输方便快捷和空间利用率最大化。

我们的布局图和设备基础图在发给客户之前都必须经过层层严格的审核，确保每个客户项目工程的精确和精准，以免造造成不必要的资源浪费。

Our company not only provides customers with high-quality equipment and services, but also provides overall equipment layout planning and design solutions. We will design the overall equipment layout based on the characteristics of the customer's factory layout and the unique requirements of each customer, combined with our years of accumulated practical experience in factory design, in order to achieve the reasonable placement of equipment in the melting and casting workshop, smooth workflow connection, and facilitate the provision of production efficiency, convenient and efficient material transportation, and maximize space utilization.

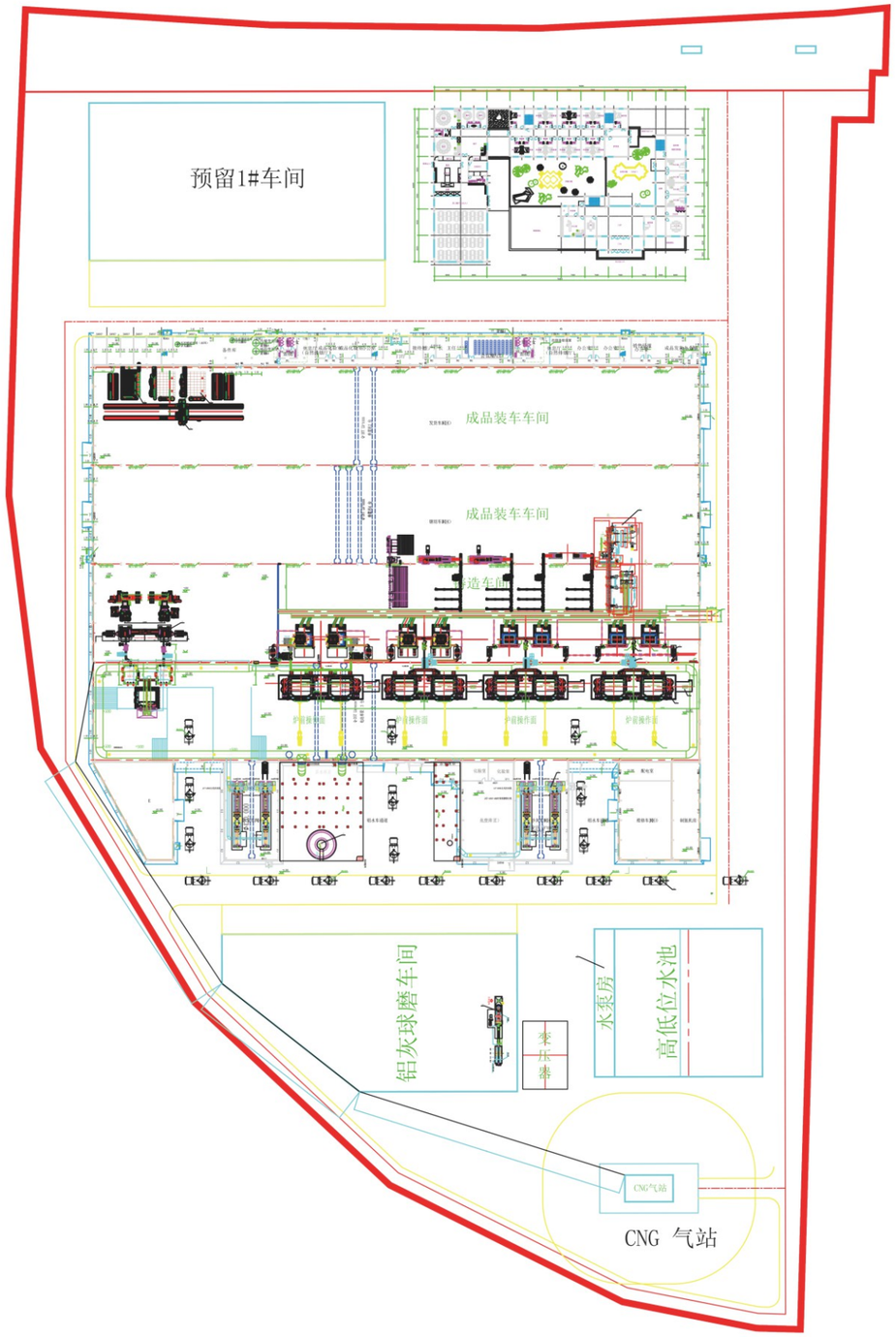
Our layout and equipment foundation drawings must undergo rigorous review at every level before being sent to customers to ensure the accuracy and precision of each customer's project engineering, in order to avoid unnecessary resource waste.

设备清单

（1）电磁搅拌
（2）倾动式熔铝炉
（3）在线除气
（4）电保温过滤箱
（5）内导液压铸造机
（6）水系统自控阀门站
（7）自动锯棒机
（8）燃气均质炉
（9）三维送料车
（10）铝棒冷却炉
（11）铝卷热扎机
（12）抄灰机
（13）环保除尘
（14）循环供水池
（15）铝水转运台包
（16）铝灰球磨

The Equipment List

（1）Electromagnetic stirring
（2）Tilting aluminum melting furnace
（3）Online degassing
（4）Electric insulation filter box
（5）Inner guide hydraulic casting machine
（6）Water system automatic control valve station
（7）Automatic saw rod machine
（8）Gas homogenizer
（9）3D feeding truck
（10）Aluminum rod cooling furnace
（11）Aluminum coil hot rolling machine
（12）Ash copying machine
（13）Environmental dust removal
（14）Circulating water supply pool
（15）Aluminum water transfer platform package
（16）Aluminum gray ball milling



蓄热倾动式熔炼炉
Regenerative Tilting Melting Furnace



产品特点
Product Features

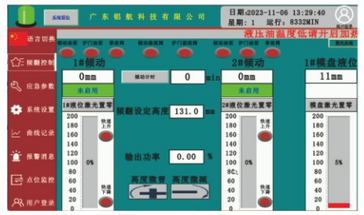
- 适应熔铸车间环境的坚固结构和多种合金熔炼；
- 设计先进，操作方便，维修费用低；
- 炉口由气缸夹紧装置加上炉门框耐热铸钢件，密封性能良好；
- 带完全PLC控制系统的高效再生式烧嘴系统。

- A sturdy structure suitable for the melting and casting workshop environment and the melting of various alloys;
- Advanced design, easy operation, and low maintenance costs;
- The furnace mouth is equipped with a cylinder clamping device and a furnace door frame made of heat-resistant cast steel, ensuring good sealing performance;
- Efficient regenerative burner system with complete PLC control system.

技术参数
Technical Parameter

承载吨位 Capacity	15-60t
燃料类型 Fuel Type	电、天然气、液化石油气、重油、柴油 Electricity, Natural Gas, LPG, Heavy Oil, Diesel
炉型 Furnace Type	倾动式 Tilting
燃烧系统 Burner Type	蓄热式 Regenerative
用途 Application	熔化 Melting
熔化率 Melting Rate	4-12吨铝/小时 4-12t.al/ hour





蓄热固定式熔炼炉
Heat Storage Fixed Smelting Furnace

产品特点
Product Features

- 固定式斜炉门的结构简单，炉口设计范围小（1.5m-3.5m），能方便客户的不同需求；
- 固定式斜炉门的气耗在55立方米/吨*铝（按天然气计算）；
- 使用再生式燃烧系统，废气排放温度低，约250摄氏度，从而减少从炉体带走的余热，减少能耗；
- 温度控制方法：热电偶非连续测温，自动调节火力；
- 这款炉型的密封性没有直炉门好，通过炉门自重进行密封压紧。

- The fixed inclined furnace door has a simple structure and a small range of furnace mouth design (1.5m-3.5m), which can facilitate the different needs of customers;
- The gas consumption of the fixed inclined furnace door is 55 cubic meters/ton* aluminum (calculated based on natural gas);
- Using a regenerative combustion system, the exhaust gas emission temperature is low, about 250 degrees Celsius, thereby reducing the waste heat taken away from the furnace body and reducing energy consumption;
- Temperature control method: thermocouple non continuous temperature measurement, automatic adjustment of firepower;
- The sealing of this furnace type is not as good as that of a straight furnace door, and it is sealed and compressed by the weight of the furnace door.

技术参数
Technical Parameter

承载吨位 Capacity	5-60t
燃料类型 Fuel Type	电、天然气、液化石油气、重油、柴油 Electricity, Natural Gas, LPG, Heavy Oil, Diesel
炉型 Furnace Type	固定式 Stationary
燃烧系统 Burner Type	蓄热式 / 高速 Regenerative / High Speed
用途 Application	熔化、保温 Melting / Holding
熔化率 Melting Rate	2-8吨铝/小时 2-8t.al/ hour



均质炉
Homogeneous Furnace



产品特点
Product Features

- 铝棒铸造后进行热处理的均质化专用设备，在消除铸锭时产生的残余应力和金相组织的不均匀，进而改善后工序的挤压加工工艺性能，提高生产效率和提高铝型材产品的质量。
- 全套设备采用 PLC 和触摸屏全自动控制。即可用于挤压用（铝棒）的均匀化处理，也可用于压延方锭的均匀化处理。

- The homogenization specialized equipment for heat treatment after aluminum rod casting can eliminate residual stress and uneven metallographic structure generated during ingot casting, thereby improving the extrusion processing performance of the subsequent process, improving production efficiency, and improving the quality of aluminum profile products.
- The entire equipment adopts PLC and touch screen fully automatic control. It can be used for homogenization treatment of extrusion (aluminum rod) and also for homogenization treatment of rolling square ingots.

技术参数
Technical Parameter

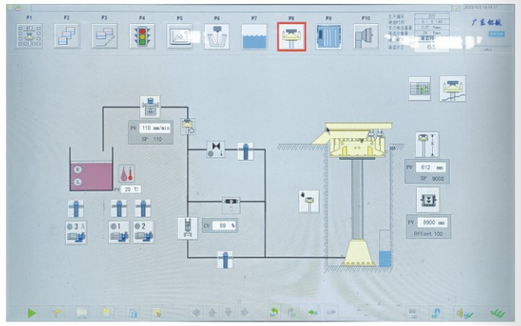
承载吨位 Capacity	8-60t
燃料类型 Fuel Type	电、天然气、液化石油气、柴油 Electricity, Natural Gas, LPG, Diesel
温控 Temperature	温控效果好，温差可控≤ ±5℃ Temperature difference control ≤ ±5℃
燃烧系统 Burner Type	高速烧嘴组成（除电加热均热炉） High speed burners (exclude electrical heating)
升温速度 Heating up speed	580℃ / 2.5小时 580℃ / 2.5 hours
用途 Application	铝棒均质炉是铝棒铸造后进行热处理的均匀化专用设备，用于消除铝棒铸造时产生的残余应力。 Aluminum rod homogenizing furnace is a specialized equipment for homogenizing aluminum rods after heat treatment, used to eliminate residual stress generated during aluminum rod casting.

内导液压铸造机
Inner Guide Hydraulic Casting Machine

产品特点
Product Features

- 提高生产率：提供可控制的, 可重复的铸造开始及停止；
- 提高回收率：通过优化铸造工艺操作减少裂纹和锭端锯头；
- 提高安全性：减少铸造开始、停止、紧急处理的人员涉猎；
- 提高质量：提高铸次间金属性能的一致性。

- Improve productivity: Provide controllable and repeatable casting start and stop;
- Improve recovery rate: reduce cracks and ingot end saw heads by optimizing casting process operations;
- Improve safety: reduce personnel involvement in casting start, stop, and emergency handling;
- Improve quality: Improve the consistency of metal properties between castings.







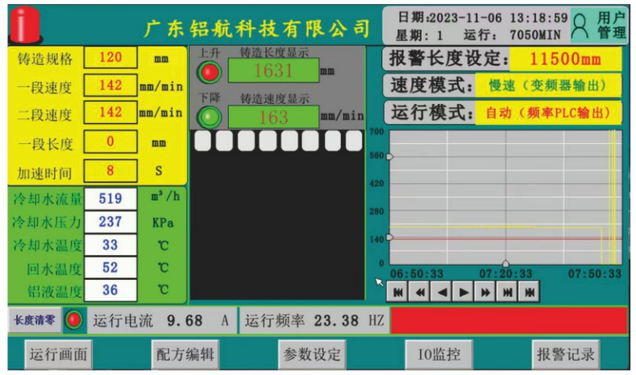
钢丝绳铸造机
Steel Wire Rope Casting Machine



产品特点
Product Features

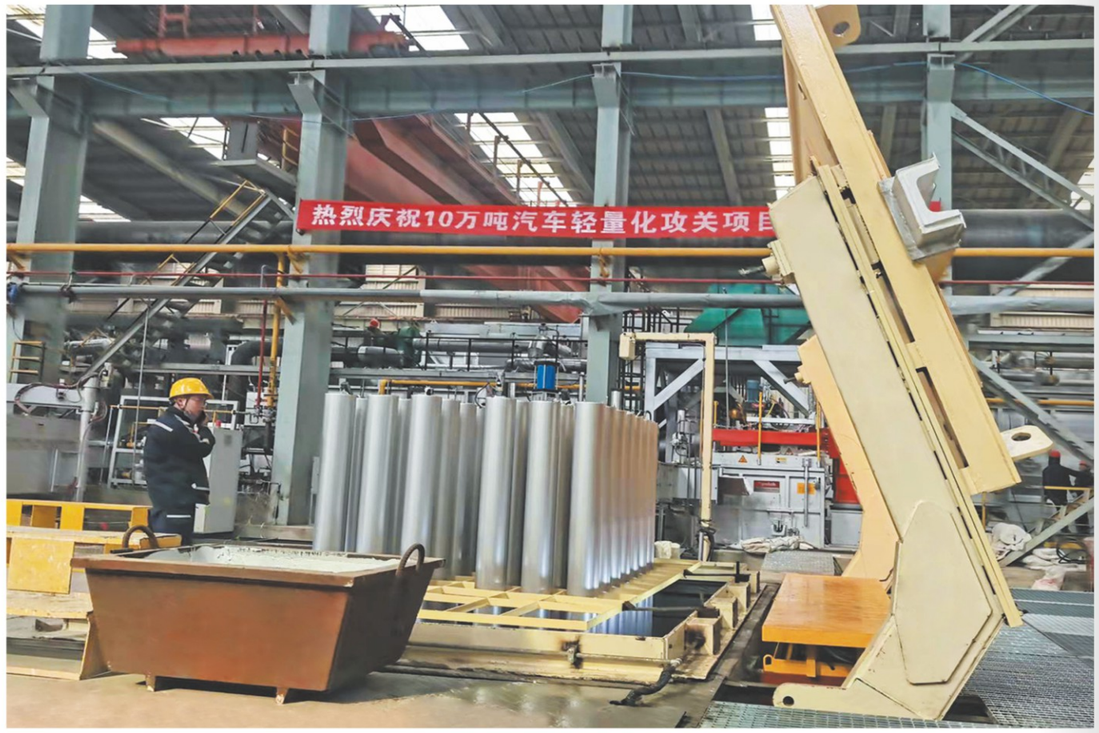
- 铸造机用于铝棒垂直铸造时作牵引作用；
- 主要由电机，减速机，卷筒，机架组成；
- 由变频器控制速度，自动化高，速度精确；
- 吨位选择多，5-45吨；
- 结构简单，容易维护。

- The casting machine is used for traction when vertically casting aluminum rods;
- Mainly composed of motor, reducer, drum, and frame;
- The speed is controlled by a frequency converter, with high automation and precise speed;
- Multiple tonnage options, 5-45 tons;
- Simple structure and easy maintenance.





铸造模具
Casting Mold



产品特点
Product Features

- 跟传统铸造的圆棒比较，较小的壳状区代表了较快的挤压速度，有较短的均质化周期；
- 增强的结晶器几何，显著地提高冷却速率；
- 气滑结晶器构造坚固，单件铝精密加工而成的；
- 有较快的铸造速度、维护较少。

- Compared with traditional cast round rods, the smaller shell shaped area represents a faster extrusion speed and has a shorter homogenization period;
- Enhanced crystallizer geometry significantly improves cooling rate;
- The air sliding crystallizer has a sturdy structure and is precision machined from a single piece of aluminum;
- Has faster casting speed and less maintenance.





自动锯棒机
Automatic Saw Rod Machine



产品特点
Product Features

- 自动送料机构，工作稳定效率高，又可避免原材料浪费；
- 硬质合金镶齿锯片，线速度高，加工精度高；
- 自动计数功能，能提高工作效率，方便数据复用；
- 微量润滑装置，可提高加工精度，又可延长锯片使用寿命。

- Automatic feeding mechanism, stable and efficient operation, while avoiding waste of raw materials;
- Hard alloy toothed saw blade with high linear speed and machining accuracy;
- Automatic counting function can improve work efficiency and facilitate data reuse;
- Micro lubrication device can improve machining accuracy and extend the service life of saw blades.



辅助设备
Auxiliary Equipment



在线除气
Online degassing



电保温过滤箱
Electric insulation filter box



喂丝机
Wire feeder



环保除尘
Environmental dust removal



平台耐火材料
Platform refractory material



水泵、水过滤器
Water pump, water filter



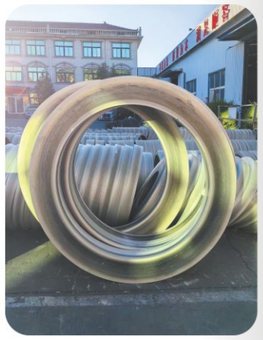
电动精炼灌
Electric refining tank



倾动炉液压站
Tilting furnace hydraulic station



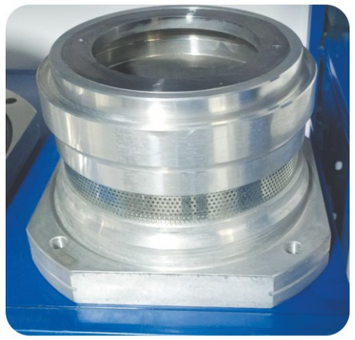
铸造参数看板
Casting parameter kanban



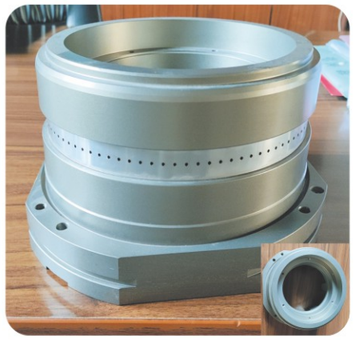
铝锻件
Aluminum forgings



T锭结晶器
T ingot crystallizer



方棒结晶器
Square bar crystallizer



油气滑结晶器
Oil gas sliding crystallizer



方棒石墨环
Square stick graphite ring



液压倾动倒包器
Hydraulic tilting and rewinding device



内导油缸出厂测试
Factory testing of inner guide cylinder



双室炉
Double chamber furnace



内衬施工
Lining construction



内导铸机液压站
Inner guide casting machine hydraulic station

工程施工案例
Engineering Construction Cases

不断追求技术创新，不断完善生产流程，铝航科技严格把握产品质量，以高品质的产品见证着品牌快速而坚实的发展轨道。以国际标准进行严格的质量检验，确保每一台设备完美交付。

Continuously pursuing technological innovation and improving production processes, LVHANG Technology strictly grasps product quality, witnessing the rapid and solid development trajectory of the brand with high-quality products. Strict quality inspection is carried out according to international standards to ensure the perfect delivery of each equipment.














部分客户名录（排名不分先后）
Partial Customer Directory (Ranked in no particular order)



内蒙古福耀（通辽）精铝有限责任公司



内蒙古保硕新材料有限公司

安徽浩源铝业科技有限公司	安徽恒泰铝业有限公司	安徽万峰精工铝业科技有限公司	奥朗斯集团江西西美克科技有限公司
大石桥永顺铝业有限公司	大治市荣麟工贸有限公司	佛山鼎可技工业自动化装备	佛山市海铧贸易有限公司
福建三明市三菲铝业有限公司	甘肃宏达铝型材有限公司	光智科技股份有限公司	广东广亚铝业有限公司
广东金铭工业铝材有限公司	广东精美特种型材有限公司	广东名铸金属材料科技有限公司	广西宝新铝业有限公司
广西鸿达铝业有限公司	呼和浩特超今新材料有限公司	湖北创伟科技股份有限公司	湖北大冶万和铝业有限公司
湖北黄石晨茂铝业有限公司	湖北黄石佳美铝业有限公司	湖北金桥铝业有限公司	湖北竣辉铝业有限公司
湖北蓝华铝业有限公司	湖北省浩飞铜业科技有限公司	湖北万佳宏铝业有限公司	湖北兴和电力新材料股份有限公司
湖北兴进铝业有限公司	湖北正明铝业有限公司	湖北卓群铝业有限公司	湖南博威铝业有限公司
湖南华皓再生资源有限公司	湖南千源铝业有限公司	湖南振升恒佳新材料科技有限公司	江苏张家港新联成铝材设备有限公司
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营口市老边区晨晨合金材料有限公司	营口顺发铝业有限公司	营口托田铝业有限公司	……