江苏金美诚金属制品有限公司

JIANGSU JINMEICHENG METAL PRODUCTS CO., LTD

充电房—高效便捷的充电解决方案

Charging Room—Efficient and convenient charging solutions

Company Profile公司简介

Jiangsu Jinmeicheng Metal Products Company, established in 2015, is a high-tech enterprise with 10 years of expertise in the aluminum industry. We integrate product design, production, sales, and maintenance, operating from a facility spanning over 10,000 square meters. Our advanced equipment includes 4 aluminum alloy extrusion lines (600-2000 tons), 2 drawing lines, 5 finned tube production lines, and 2 CNC units. We offer oxidation and post-processing services to meet diverse customer needs.

Specializing in customized aluminum solutions for transportation, aviation, furniture, construction, chemical engineering, electronics, manufacturing, and electricity, our core products include aluminum tubes, bars, irregular profiles, charging rooms, and finned tubes. Certified with NSF-ISR, ZTW, UDEM, and ECM standards, our products serve over 50 countries worldwide.

Backed by a skilled team in technology, sales, production, and quality control, we ensure end-to-end professional service from design to project delivery. Our vision is to enhance lives through innovative aluminum profiles. We look forward to collaborating with you!

江苏金美诚金属制品公司成立于2015，是一家深耕铝行业10年的高新技术企业。我们集产品设计、生产、销售和维护于一体，厂区面积超1万平方米，拥有4条铝合金挤压生产线（600-2000吨）、2条拉拔线、5条翅片管生产线及2台数控设备，并提供氧化及后处理服务，全方位满足客户需求。

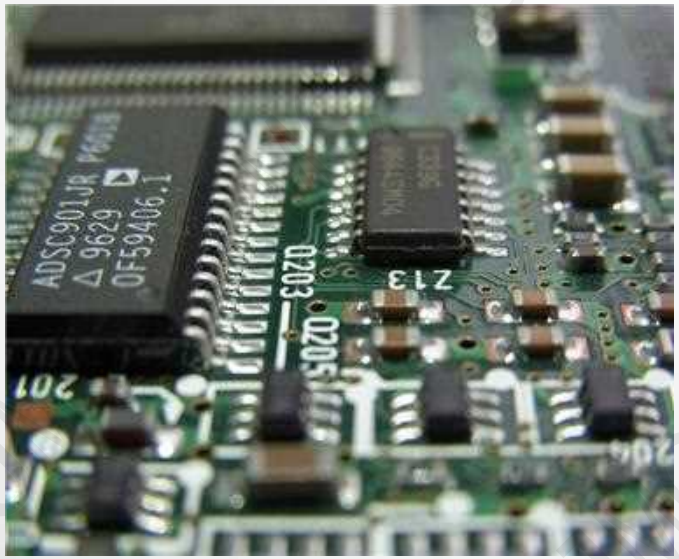
专注于为交通、航空、家具、建筑、化工、电子、制造及电力领域提供定制化铝产品解决方案，主要产品涵盖铝管、铝棒、异型材、充电房、翅片管等。产品通过NSF-ISR、ZTW、UDEM、ECM认证，远销全球50余国。

公司拥有技术、销售、生产及质检领域的专业团队，确保从产品设计到项目落地的全流程高效服务。我们致力于以铝型材提升生活品质，期待与您合作！

Design concept 设计理念

1.Eco-friendly & Sustainability: Uses 100% all-aluminum alloy material, offering both durability and high recyclability, with no harmful coatings. Complies with global eco-friendly standards, with very high recycling value.

1.环保与可持续性：采用 100% 全铝合金材料，兼具耐用性与高回收率，无有害涂层，符合全球环保标准，回收价值极高。



2.Innovation & Technology Integration: Integrated circuit electronic control system, PLC intelligent management system, combined with modular design, adaptable to usage needs in different scenarios.

2.创新与科技融合：集成电路电控系统、plc智能管理系统，结合模块化设计，适配不同场景下的使用需求。

Design concept 设计理念

three-control roll-up doors
三控卷帘门

anti-collision reflective post
防撞反光柱

exhaust ventilation functions
排气排风扇

3.User-Friendly Experience: Simplified operation process, supports remote/manual/fully automatic three-control modes for the roller shutter door. Equipped with anti-collision reflective posts and exhaust ventilation functions, lowering the threshold for user management and maintenance.

3.用户友好体验：简化操作流程，支持遥控 / 手动 / 全自动 三控卷帘门，配备机器狗防撞反光柱与排气排风等功能，降低用户管理与维护门槛。

Features功能特点

1.Multi-Scenario Adaptation: Covers commercial spaces (e.g., malls, hotels) and industrial fields (e.g., factories, power stations).
1.多场景适配：覆盖商业空间（如商场、酒店）、工业领域（如工厂、电站）。

2.High Compatibility: Compatible with mainstream all-aluminum alloy robotic dog models in the market. Charging stations can be expanded (add modules as needed).
2.高兼容性：兼容市场主流全铝合金机器狗型号，可扩展充电位（按需增加模块）。

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Advantages 核心优势

1.Corrosion Resistance: Surface treated with oxidation or coating, can be used long-term in humid, dusty environments. Service life extended to over 10 years (compared to approx. 1-2 years for ordinary steel equipment).
1.耐腐蚀性：表面经氧化或喷涂处理，可在潮湿、粉尘环境下长期使用，使用寿命延长至 10 年以上（普通钢材设备约 1-2 年）。

2.Lightweight & High Strength: Aluminum alloy density is only 2.7g/cm³ (about 1/3 of steel), but compressive strength reaches 260MPa, facilitating handling and installation, with strong wind load resistance.
2.轻质高强：铝合金密度仅 2.7g/cm³（约为钢材的 1/3），但抗压强度达 260MPa，便于搬运安装，同时抗风载能力强。

Charging room accessories parameter table-1 充电房配件参数表-1

No. 序号	Item 品名	Qty. Qty.	Std./Opt. 标配/选配	Unit Price 单价	Remarks 备注
1	All-Aluminum Alloy Charging Room 全铝合金充电房 (Standard size 2m x 2m x 2.2m) （标准尺寸2米×2米×2.2米）	1	Standard 标配	**具体详谈**	The main structure uses all-aluminum alloy material conforming to GB 8624-2012 'Classification for Burning Behavior of Building Materials and Products' Class A1 non-combustible standard, ensuring no burning or toxic gas release in fire. Aluminum alloy surface should have anti-corrosion treatment (e.g., anodizing) to enhance durability. (Standard size: 2m x 2m x 2.2m) 充电房主体采用的全铝合金材料需符合GB 8624-2012《建筑材料及制品燃烧性能分级》的A1 级不燃材料标准，确保在火灾中无燃烧、无有毒气体释放。铝合金表面应进行防腐处理（如阳极氧化），提升耐久性。
2	Ramp 坡道	1	Standard 标配	**具体详谈**	Ramp has anti-slip pattern 坡道有防滑式纹
3	Air Conditioner 空调	1	Standard 标配		Configured with 1.5HP AC, includes automatic temperature control system 配置1.5P空调,空调includes automatic temperature control system自带自动控温系统
4	All-Aluminum Roller Shutter Door 全铝卷帘门	1	Standard 标配		AC motor 22V/80 torque/28 speed high-speed motor, faster response, longer lifespan. 交流电机22V/80扭矩/28转速高速电机，响应更快，使用寿命更长
					DC motor 24V/50 torque/10 speed motor, no overheat protection, slower speed, add 500 RMB. 直流电机24V/50扭矩/10转速电机，无过热保护，转速偏慢，加500元
5	All-Aluminum Emergency Door 全铝应急门	1	Standard 标配		All-aluminum specification matches the room body for better aesthetics. 全铝规格与房体统一，更美观
6	Exhaust Fan排气扇	4	Standard 标配		Axial flow exhaust fan. 轴流式排风扇
7	LED Light LED灯	1	Standard 标配		/
8	Power System 电力系统	1	Standard 标配		Distribution box switch: Configured with one 40A leakage protection main switch, 3 branch switches for one 5-hole socket circuit, one exhaust system circuit, one lighting system circuit, with corresponding wiring; one network cable reserved, one main power input line reserved. 配电箱开关：配置1个40A漏保总开，3个分开，对应一路五孔插座，一路排风系统，一路照明系统，并接好对应线材；预留一路网线，预留一路总电源进线。

Charging room accessories parameter table-2 充电房配件参数表-2

No. 序号	Item 品名	Qty.	Std./Opt. 标配/选配	Unit Price 单价	Remarks 备注
9	Automatic Control System 自动控制系统	1	Standard 标配		Siemens PLC automatic control system (reserved connection port for robotic dog and PLC). 西门子PLC自动化控制系统（预留机器狗与PLC连接端口）
10	All-Aluminum Cable Tray 全铝线槽	1	Standard 标配		Newly upgraded all-aluminum cable tray, more aesthetic, convenient for maintenance and cable management. 全新升级全铝线槽，更加美观，方便维修及理线
11	Anti-Collision Reflective Post 防撞反光柱	2	Standard 标配		/
12	3-Position Controller for Roller Door 卷帘门三位控制器	2	Optional 选配		Can add push-button control based on remote and manual control. 在远程和手动控制的基础上还可以增加手按式
13	Waterproof Box for 3-Position Controller 三位控制器防水盒	1	Optional 选配		Protects controller and provides waterproofing. 保护控制器和防水
14	Exterior Color 外观颜色	1	Optional 选配		Standard colors free of charge; non-standard colors 300 RMB for color change. 常规颜色不收费，非常规颜色300元改色
15	Socket 插座	1	Optional 选配		5-outlet socket 5头插孔
16	Mini Weather Station 微型气象站	1	Optional 选配		7 elements (Wind direction, wind speed, rainfall, temperature, humidity, atmospheric pressure, illumination) 7要素（风向、风力、雨量、温度、湿度、气压、光照）
17	Dry Powder Fire Extinguisher 干式灭火器	2	Optional 选配		4KG dry powder portable type 4KG 干粉手提式

Accessories display 配件展示

Back 背面

Side door 侧门

Electrical box 电箱

Reflectivw column 反光柱

Air conditioner 空调

Aluminum profile frame全铝结构

Accessories display 配件展示

Internal exhaust fan 内部排风扇

All-aluminum frame 全铝框架

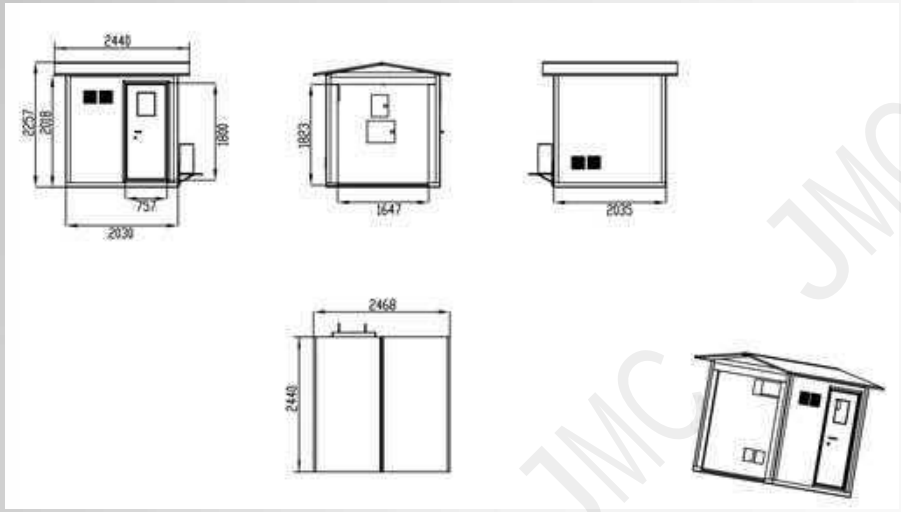
All-aluminum frame profile 全铝框架型材

Manual rolling door 手动卷帘门

Ramp 斜坡板

External exhaust fan 外部排风扇

Charging room production process 充电房制作过程



1. Confirm the drawing specifications 装备装配

2. Prepare accessories 确认图纸参数规格

4.Assembly 组装

3.Coating 喷涂 Anodizing 氧化

Charging room production process 充电房制作过程

5. Test 调试

6. Finished product 成品

8. Shipment 出厂

7.Packaging 包装

Charging room application scenarios---Robot Dogs
机器狗充电房应用场景

Security patrol　安防巡逻

Electricity　电力

Railway　轨道交通

Chemical industry 化工行业

Distribution services 配送服务

Emergency rescue 应急救援

Charging room application scenarios 充电房应用场景

Electric vehicles
电瓶车

Industrial and logistics sectors
工业和物流领域

Energy storage
能源储存

Commercial and residential
商业住宅

Data centers
数据中心

Emergency charging
应急充电

Advantages of charging room 充电房优点

Version 2.0
All-aluminum construction, featuring aluminum insulation panels
1. All-aluminum is lighter
2. High plasticity
3. High thermal insulation
4. Aluminum's high outdoor corrosion resistance
5. High recycling value

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FAQ

1.Q： What are the overall components of a charging room? A:In addition to basic rain and sun protection, the room integrates a robot charger, a robot control cabinet, an automatically controlled front roller shutter door, and a manual rear door for maintenance.A dedicated cable duct at the bottom provides access to the charger.The room can be equipped with a ventilation fan, industrial power outlets, and other electrical accessories as required by the customer.	1.问题：充电房整体组成是哪些? 回答：该房体除了具有最基础的防雨水防日晒功能，可集成机器人充电器、机器人控制电柜，以及可自动控制的前卷帘门和检修使用的手动后门。底部有电缆专用线槽，可供接通充电器使用。房体内部可配有换气扇、工业用电插座及客户所需的其它电器配件。
2.Q:What is the charging room made of? A:The room is constructed of all-aluminum thermal insulation and fireproof panels, which are fully rust-proof and fire-resistant. Custom explosion-proof cabinets can also be manufactured for special conditions.	2.问题：充电房房体材质是什么? 回答：房体材料选用全铝隔热防火板，具有完全的防锈防火能力，也可定做特殊条件下的防爆柜体。
3.Q: What are the advantages of a charging room? A:①Centralization: Charging facilities are concentrated in a specific area for easier management and use. ②Safety: Appropriate safety measures, such as fire prevention, explosion prevention, and overcurrent protection, are implemented to ensure a safe and reliable charging process. ③Professionalism: Professional charging equipment and supporting facilities are typically available to meet the charging needs of different types of devices.	3.问题：充电房的优点有哪些? 回答：①集中性：将充电设施集中在一个特定区域，方便管理和使用。 ②安全性：配备相应的安全防护措施，如防火、防爆、过流保护等，以确保充电过程安全可靠。 ③专业性：通常具备专业的充电设备和配套设施，能满足不同类型设备的充电需求。

FAQ

4.Q:Can the charging room be customized? A:We support OEM & ODM, with customizable dimensions, colors, and surface finishes.	4. 问题：充电房可以按照客户的需求定制 回答：支持OEM&ODM，可定制尺寸、颜色、表面处理等。
4.Q:Delivery time for the charging room?Delivery method? A:10-15 days.We can ship the room assembled or disassembled with installation instructions, depending on customer needs.	5.问题：充电房多久完成？如何发货？ 回答：10-15天。按照客户需求，可以组装成品发货，也可以拆散配备安装说明书发货。
4.Q:How to use the room? A:Our electrical engineers can perform remote debugging and control, providing guidance.	4.问题：如何使用？ 回答：可由我司电器工程师进行远程调试控制，指导客户操作。

Looking forward to your cooperation~

Dear Customers:

If you have any needs for aluminum products, you are welcome to call us and visit the factory. Our company integrates industry and trade, sells directly from the factory, supports customization, adheres to the principle of strictly selecting materials and operating with integrity, and sincerely serves you. We firmly believe in "win with integrity" and all products are traceable to the original manufacturer's certificate to ensure high quality and transparency. Our goal is to provide competitive aluminum products to customers around the world. Look forward to working with you!

Address：No.111,Shanzheng Road,jingang Street,Zhangiiagang, Suzhou,Jiangsu Province,China

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