

苏州莱恩精工合金股份有限公司
RHINE PRECISION ALLOY (SUZHOU) CO.,LTD.

目录

CATALOG

- 01/02 公司简介
Company Introduction
- 03 企业资质
Certification
- 04 主要客户
Main Customers
- 05/06 制造装备
Manufacturing Facility
- 07/08 LED灯用材
LED Profiles
- 09/10 散热器用材
Heat Sink Profiles
- 11/12 轨道航空用材
Railway And Aviation Profiles
- 13/14 医疗器械用材
Medical Device Profiles
- 15/16 工业自动化用材
Industrial Automation Profiles
- 17/18 智能家居用材
Intelligent-housing Profiles
- 19/20 汽车用材
Automobile Profiles
- 21/22 篷房用材
Tent Profiles
- 23/24 电梯用材
Electrical Profiles
- 25/26 登高梯具用材
Ladder Profiles

公司简介

COMPANY INTRODUCTION

苏州莱恩精工合金股份有限公司总部座落在苏州市吴中区胥口镇，是一家集铝合金材料研发、生产，铝制品深加工等多领域经营的规模性公司。

公司现拥有包含台湾梅瑞在内的13条先进挤压生产线，机型能力从580吨到2750吨量级不等，同时配备12米长时效炉，配套喷砂、碱砂、氧化、电泳、喷涂等多条表面处理流水线，其深加工能力包含从精切、冲压、铆接、焊接、CNC加工、高倍铲齿等一系列加工工艺，产品涉及LED灯、散热器、轨道航空、医疗器械、工业自动化、智能家居、汽车、篷房、电梯器材、登高梯具等多领域。

公司组建了一支专业的研发团队，具备成熟的自主研发能力，从材料性能的创新、产品与模具的设计，到工艺的改善与实验，精益求精，不断开拓新兴市场。

目前莱恩精工在江苏苏州、安徽广德、越南平阳等地都建立起了大型铝合金材料和产品深加工生产基地，实现了公司产品

的多行业、多领域以及跨区域、跨国销售和服务。



Located in Xukou Town, Wuzhong district, Suzhou, Rhine Precision Alloy(Suzhou) Co., Ltd, is a diversified company, specialized in Aluminum alloy research and developing, manufacturing, as well as aluminum products deep-processing. Operating 13 advanced extrusion lines from Taiwan Mei Ruey, with extruder capacity from 580 tons to 2750 tons, meanwhile, equipped with heat treatment furnaces with max length of 12 meters and surface treatment equipment such as sand blasting, anodization, electrophoresis, powder coating, Rhine has obtained the capability of precise cutting, punching, riveting, welding, CNC, relieving, etc. Current product range covers LED profiles, heat sink profiles, railway and aviation profiles, medical device related profiles, industrial automation profiles, intelligent housing profiles, and automobile, tent, electrical lift, ladder profiles.

To pursue innovation of material performance, optimization of product and tooling design, improvement of technology, Rhine sets up a professional R&D team with mature independent research and developing capability, for better opening up new markets.

Rhine has built up large production bases, combining aluminum extruding and deep-processing, in Suzhou(Jiangsu Province) , Guangde (Anhui Province) of China and Binh Duong of Vietnam, achieved inter-regional and transnational sales of cross-industry, multi-field products and service.

企业资质

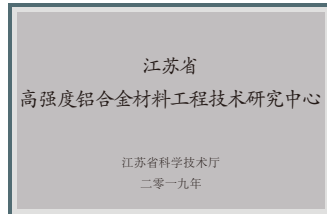
CERTIFICATION



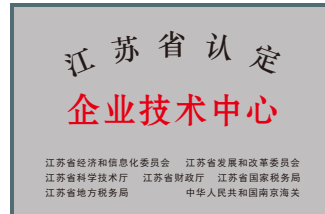
IATF16949:2016认证证书
IATF16949:2016 Certification



ISO9001:2015认证证书
ISO9001:2015 Certification



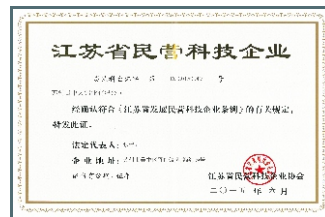
江苏省
高强度铝合金材料工程技术研究中心
江苏省科学技术厅
二零一九年
江苏省高强度铝合金材料工程技术研究中心
Certification of Jiangsu Provincial High-Intensity
Industrial Aluminum Profile Technology Research Center



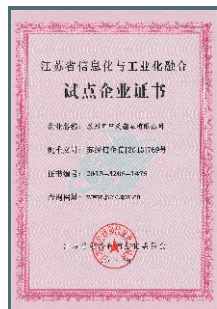
江苏省认定
企业技术中心
江苏省经济和信息化委员会 江苏省发展和改革委员会
江苏省科学技术厅 江苏省财政厅 江苏省国家税务局
江苏省地方税务局 中华人民共和国海关
江苏省企业技术中心
Certification of Jiangsu Provincial
Enterprise Technology Center



国家高新技术企业
Certification of National Hi-Tech Enterprise



江苏省民营科技企业
Certification of Jiangsu
Provincial Hi-Tech Private Enterprise



江苏省两化融合试点企业
Certification of Jiangsu Provincial
Integration of Informationization and
Industrialization Pioneer Enterprise



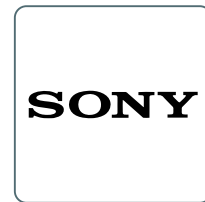
江苏省信用管理示范企业证书
Certification of Jiangsu
Provincial Credit Management
Demonstration Enterprise



苏州市出口名牌证书
Certification of Suzhou
Famous Export Brand

主要客户

MAIN CUSTOMERS





65000T/YEAR (集团总产值)

外接圆周尺寸φ10mm-φ320mm

挤压设备

Circle Size φ10mm-φ320mm



42500T/YEAR (集团总产值)

氧化、电泳

氧化生产线

Anodization Electrophoresis



8600T/YEAR (集团总产值)

KOATINGS快速换色喷房系统

喷涂生产线

KOATINGS- rapid color-change spray system



12M/MATERIALS

温控精确, 性能稳定

时效炉

Precise Temperature Control, Stable Performance

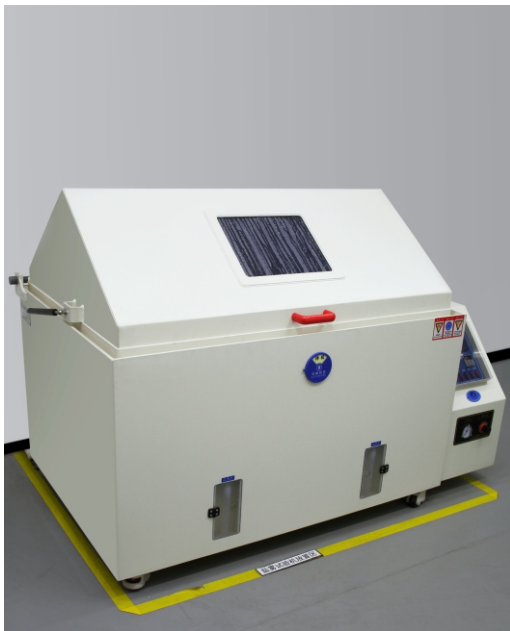
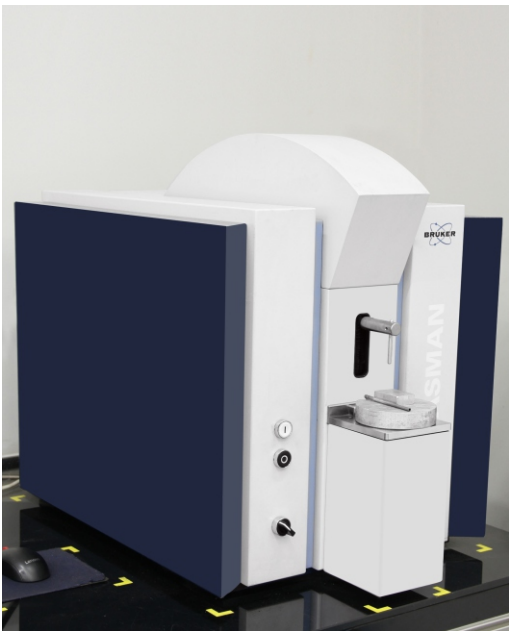
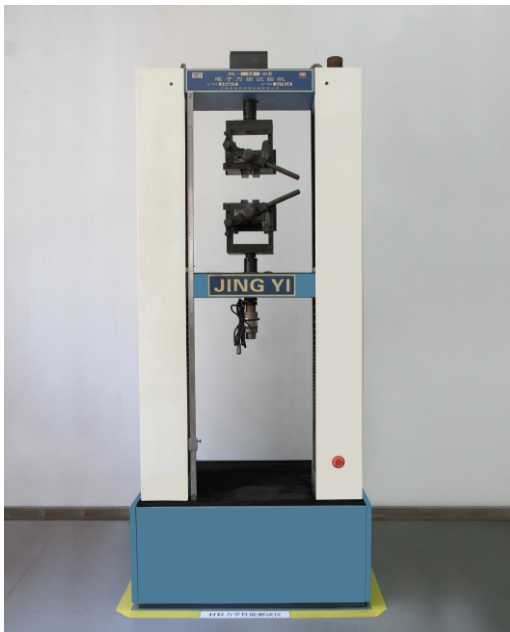
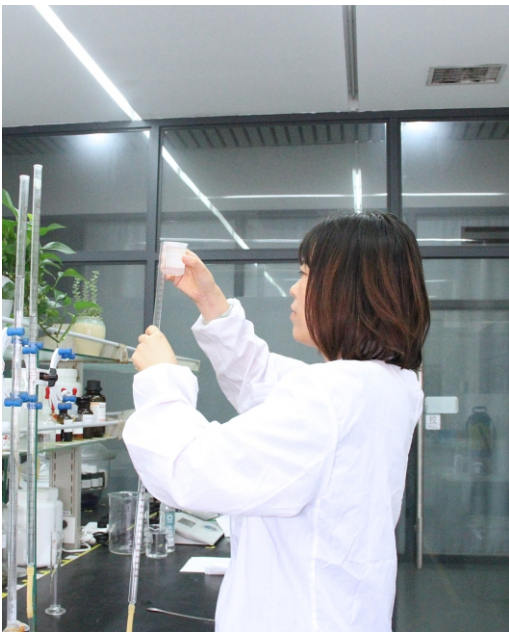
设备型号 Equipment Model	最大圆周尺寸(mm) Maximum Circumference	设备数量 Quantity Of Equipment	生产厂家 Equipment Manufacturer
2750T	320	1	台湾梅瑞 Mei Yuey From Taiwan China
1800T	250	1	
1400T	220	1	业精 Yejing
1000T	160	5	
600T	120	4	
580T	110	1	

设备规格 Equipment Specification	最大处理长度 Maximum Processing Length
1000Tx1	7.5m
色系 Color	银白色、浅香槟色、香槟色、古铜色、黑色 Silver, Light Champagne, Champagne, Bronze, Black
光泽 Luster	亮光, 机械喷砂, 化学碱砂 Bright Light, Mechanical Sand Blasting, Chemical Alkali Sand
年生产能力 Annual Production Capacity	42500Tons/Year

粉末涂料 Powder Coating	数量 Quantity 1
描述 Description	8600 Tons/Year
	引进欧洲先进技术KOATINGS快速换色喷房系统, 保证了高品质高效率的喷涂环境 To Ensure High Quality And Efficient Spraying Environment, We Introduced An Advanced Technology Koatings Rapid Color-change Spraying Room System From Europe.

制造装备

MANUFACTURING EQUIPMENT



加工中心

850-6500mm立式加工中心机

MACHINING CENTER

850-6500mm
Vertical Machining Machine

检测中心

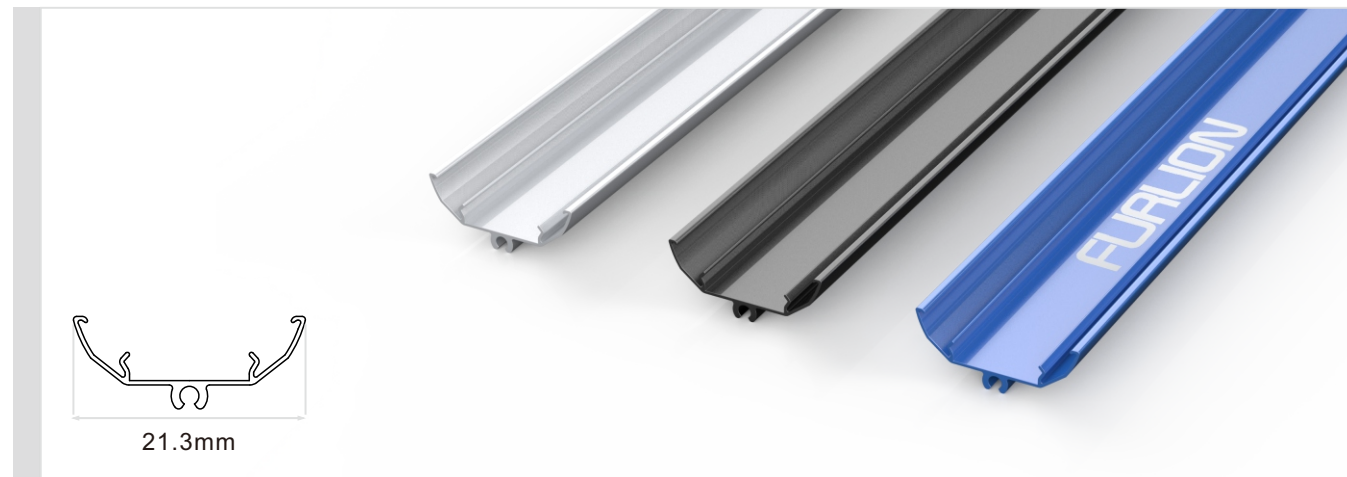
盐雾试验 光谱测试 拉伸机

TESTING CENTER

Salt Spray Test
Spectrum Test, tensile Test

LED灯用材

LED PROFILES

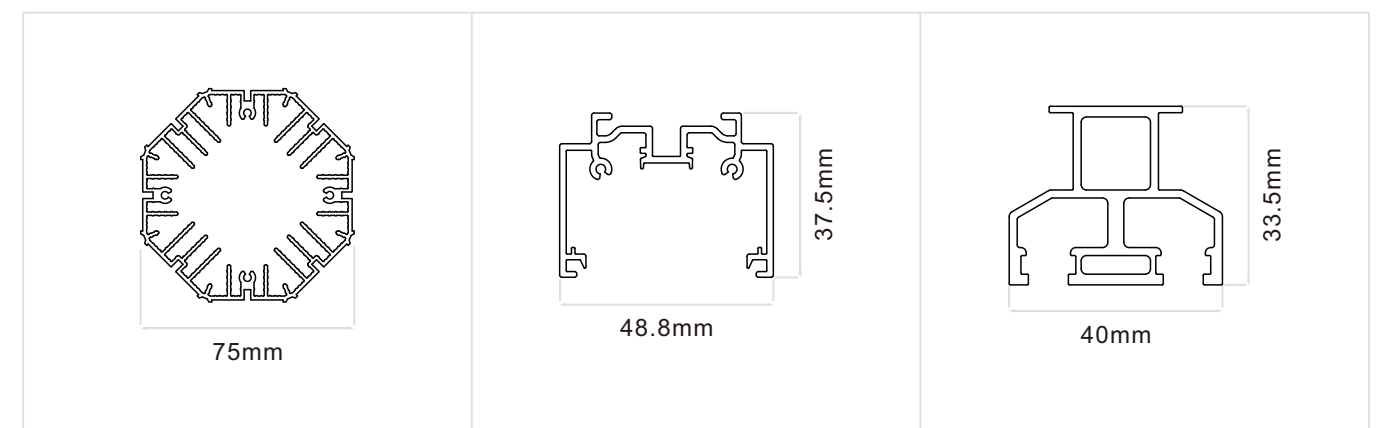
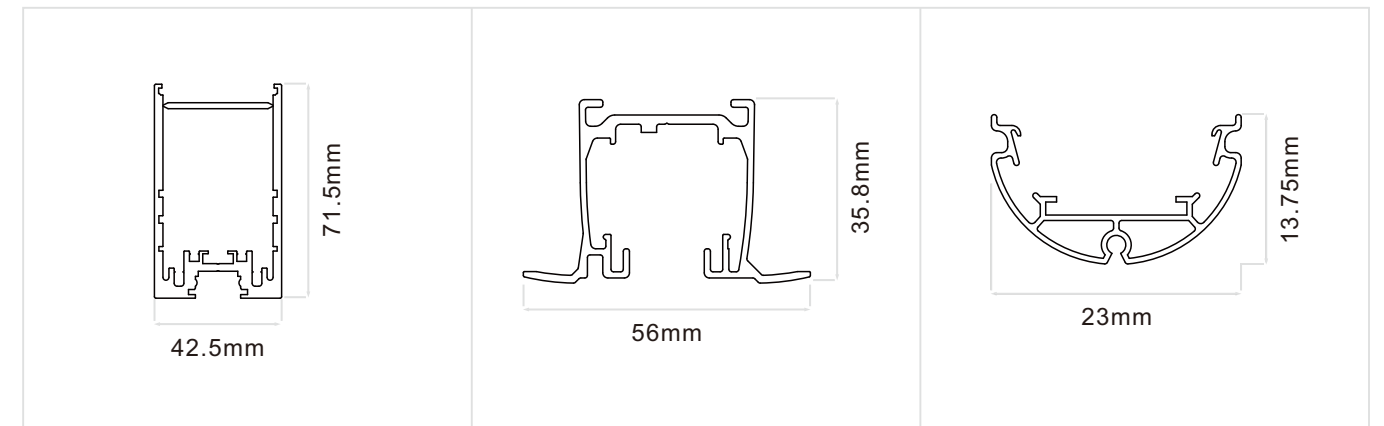


优势

- 在与众多国内外知名LED灯具厂家合作中,在优化产品结构后总结了一套专业的成熟的LED型材领域生产、开发经验;
- 通过优化模具设计方案和合金成分,我司具有生产超薄灯具型材能力,最小壁厚可达0.5mm、米重0.05kg/m,产品最大宽厚比可达100以上;
- 产品可进行阳极氧化,电泳,粉末喷涂等多种表面处理;
- 公司所生产的产品有T4、T6、T8、面框灯等系列。

ADVANTAGES

- In the cooperation with many well-known LED lighting manufacturers at home and abroad, we have summarized a set of professional and mature experience of production and development in the field of LED profiles.
- Through optimizing the mold design and alloy composition, our company has the ability to produce ultra-thin lamps profiles, with the minimum wall thickness up to 0.5mm, the weight of 0.05kg/m, and the maximum width to thickness ratio up to more than 100.
- Products can be processed with various surface treatments, such as anodizing, electrophoresis, powder coating, etc.
- Rhine is able to produce products like T4, T6, T8, panel light frame, etc.



散热器用材

HEAT SINK PROFILES

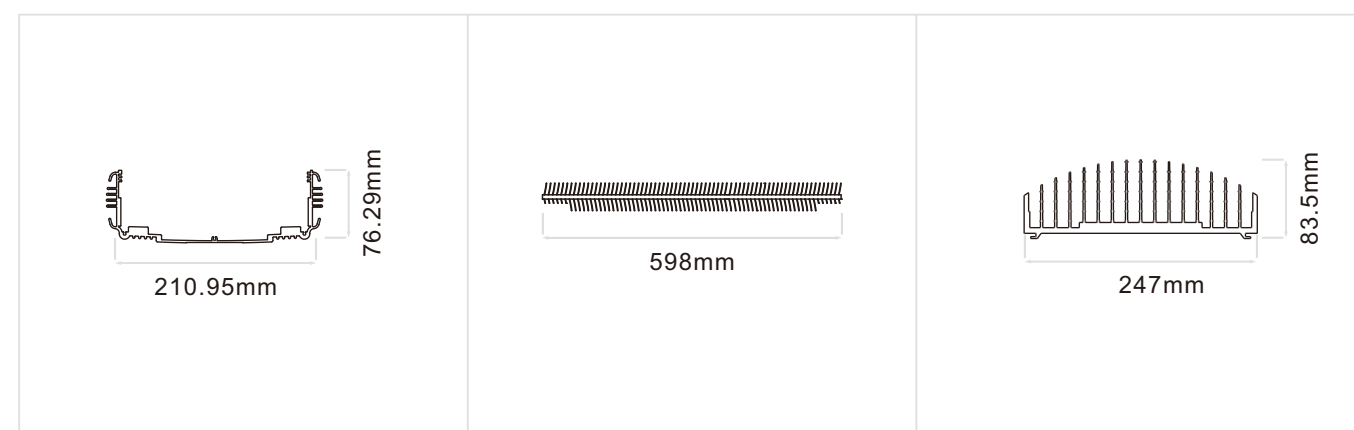
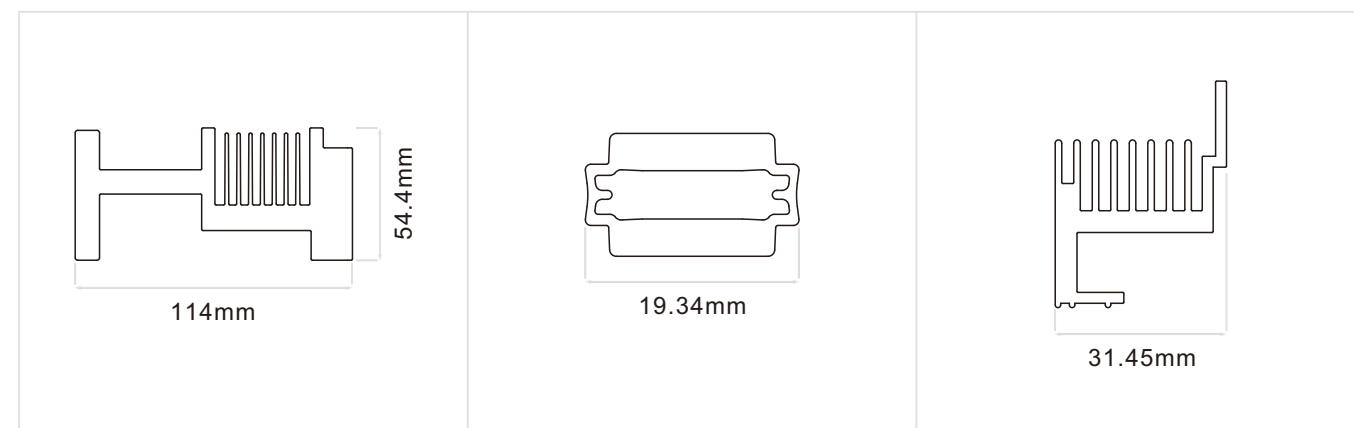


优势

- 拥有开发生产各类散热器型材的能力, 如: 直接挤型式散热器、铲齿成型式散热器;
- 铲齿成型可以生产齿片薄至0.3mm, 齿距可密集至1.7mm, 长度可达1米以上的散热器;
- 配合公司CNC、注塑等能力, 可以满足客户成品交货要求。

ADVANTAGES

- Rhine has the ability to develop and produce various kinds of heat sink profiles, such as: direct extrusion heat sink, relieving heat sink.
- The relieving heat sink Rhine produced with strips thin to 0.3mm, pitch dense to 1.7mm, and whole length over 1m.
- Cooperating with CNC machines, plastic components injection and other capabilities, Rhine can meet customer requirements for various kinds of finished products.





轨道航空用材

RAILWAY AND AVIATION PROFILES

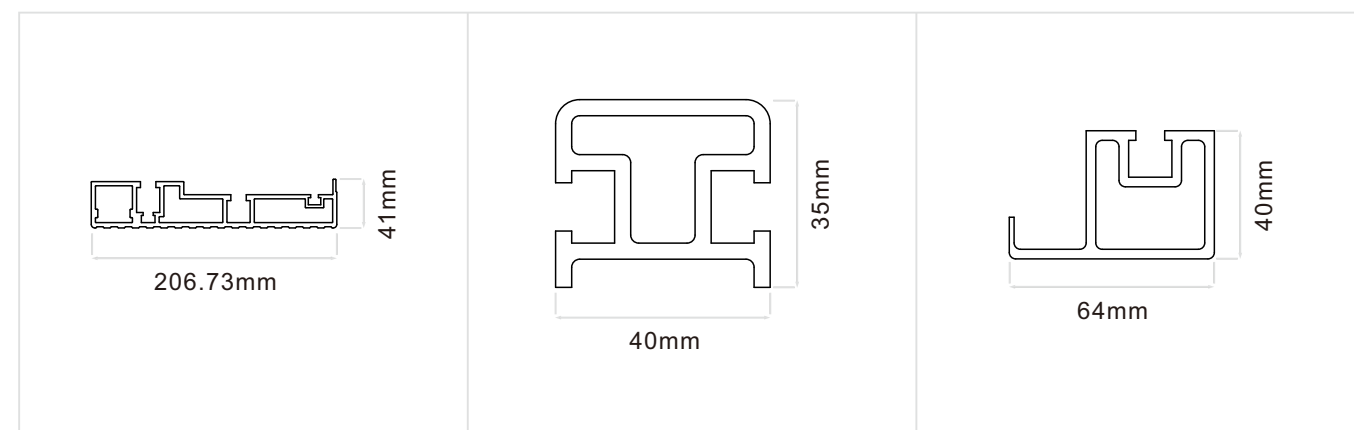
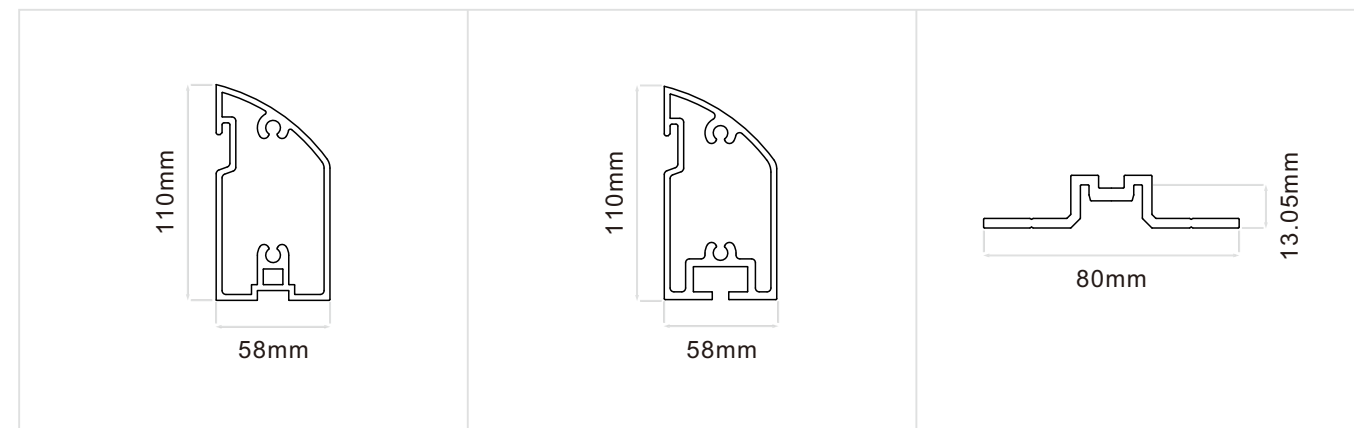


优势

- 我司拥有6061/6082/7003, 7004/7N01等航空级铝合金产品生产经验;
- 合金成分通过多次试验优化, 既满足复杂结构型材的可成型性, 又超越国家标准规定的性能要求, 解决了常规企业生产航空铝产品难成型、性能低的问题;
- 对一些复杂宽板弧面的产品, 可以通过线外整形满足客户要求。

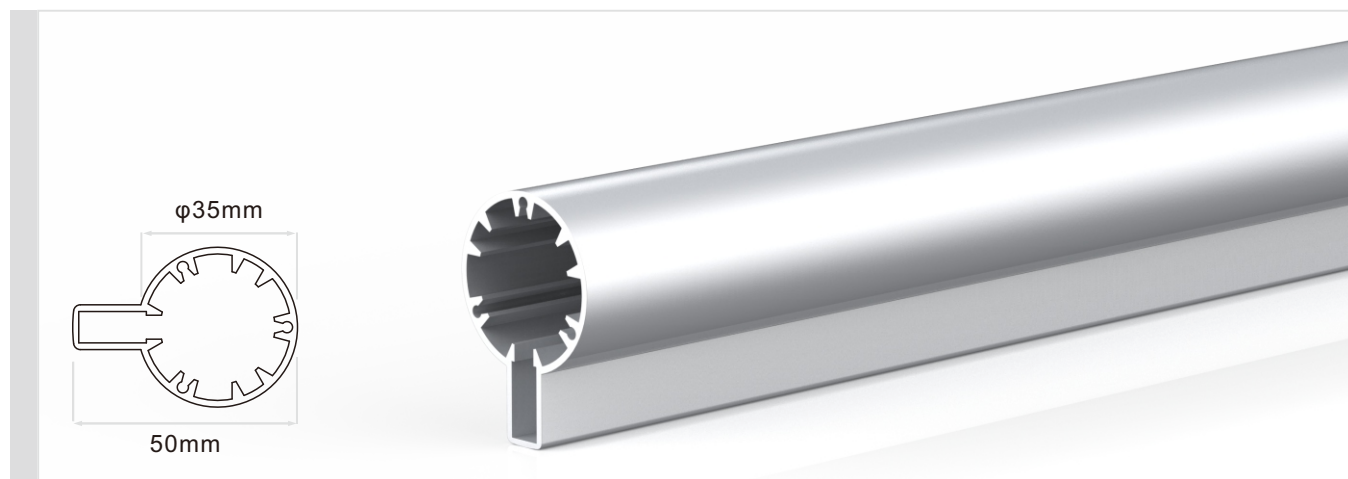
ADVANTAGES

- Rhine is experienced in producing the material of 6061/6082/7003, 7004/7N01.
- The alloy composition Rhine used has been optimized through many experiments, which not only meets the formability of complex structure profiles, but also exceeds the performance requirements stipulated by national standards, and solves the problems of difficult molding and low performance of aviation aluminum products produced by conventional enterprises.
- For some products with complex wide and arc surface, Rhine can meet customer requirements through out line shaping.



医疗器械用材

MEDICAL DEVICE PROFILES

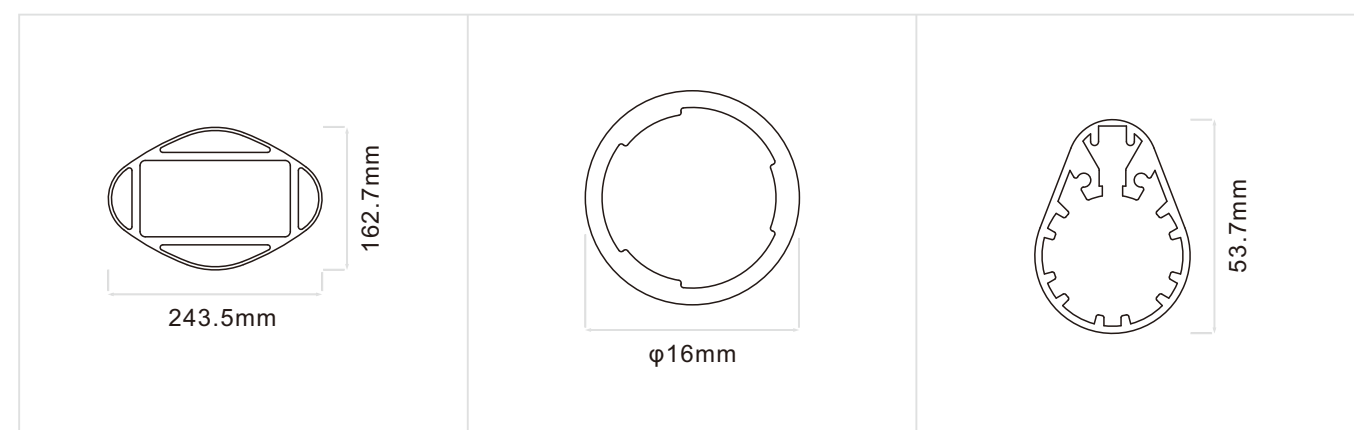


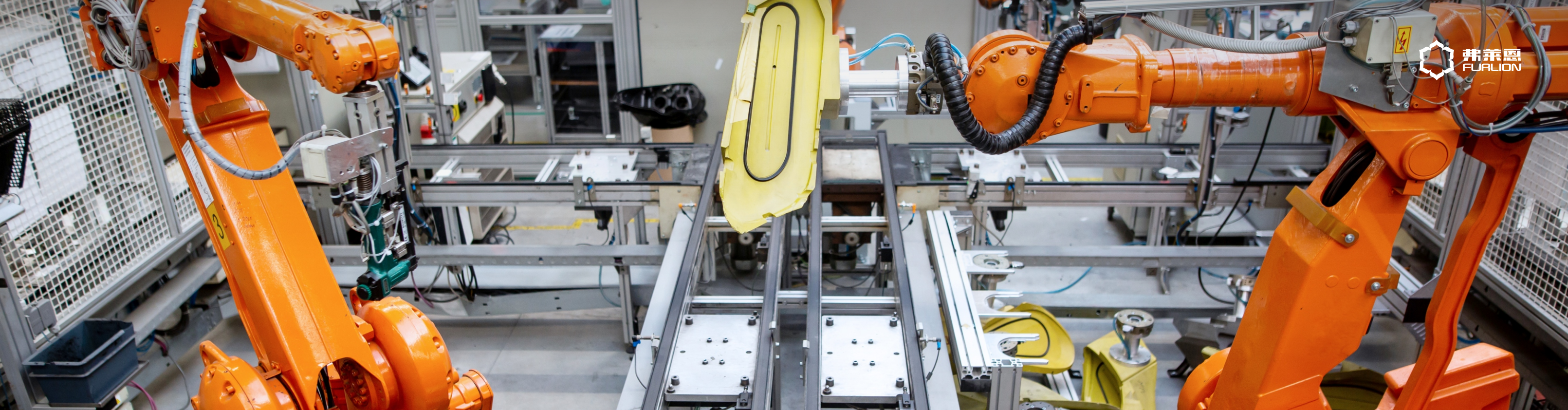
优势

- 针对驱动器产品痛点, 我司研发部门积极探索优化方案, 解决了后道成品装配困难、运转异响等问题。满足此类产品精度要求。
- 通过模具设计优化、挤压工艺设计解决此类产品表面焊合黑线问题。

ADVANTAGES

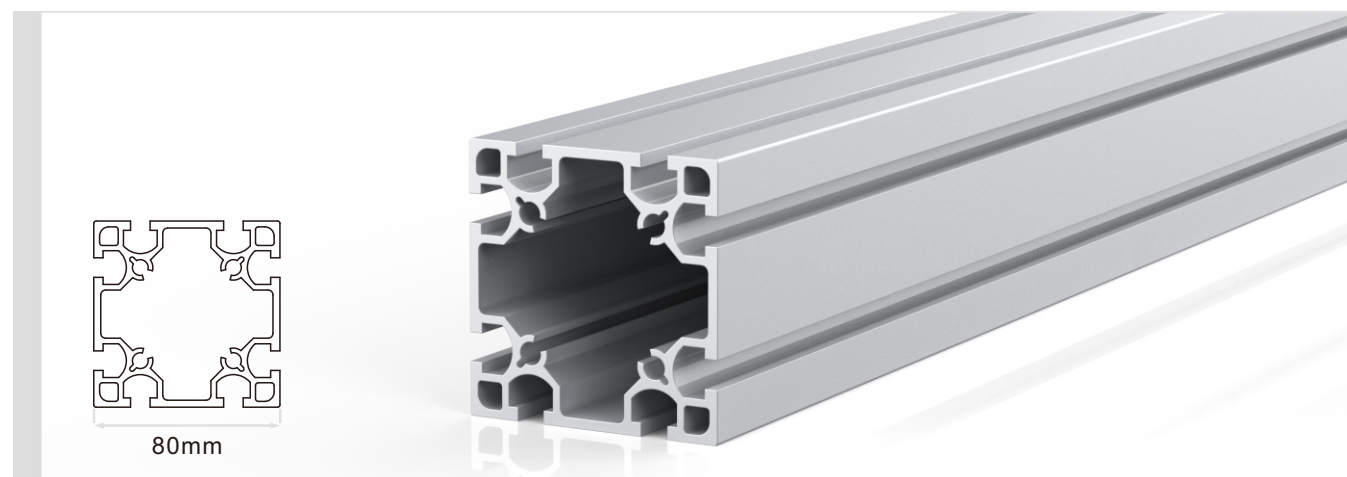
- Rhine's R & D department explored optimization solutions, solving the problems such as difficult assembly of rear finished products and abnormal operation sound, to enable the accuracy meet requirements of such products.
- Through upgrade of mold design and extrusion process, Rhine solved the problem of black wire welding on the surface of medical device products.





工业自动化用材

INDUSTRIAL AUTOMATION PROFILES

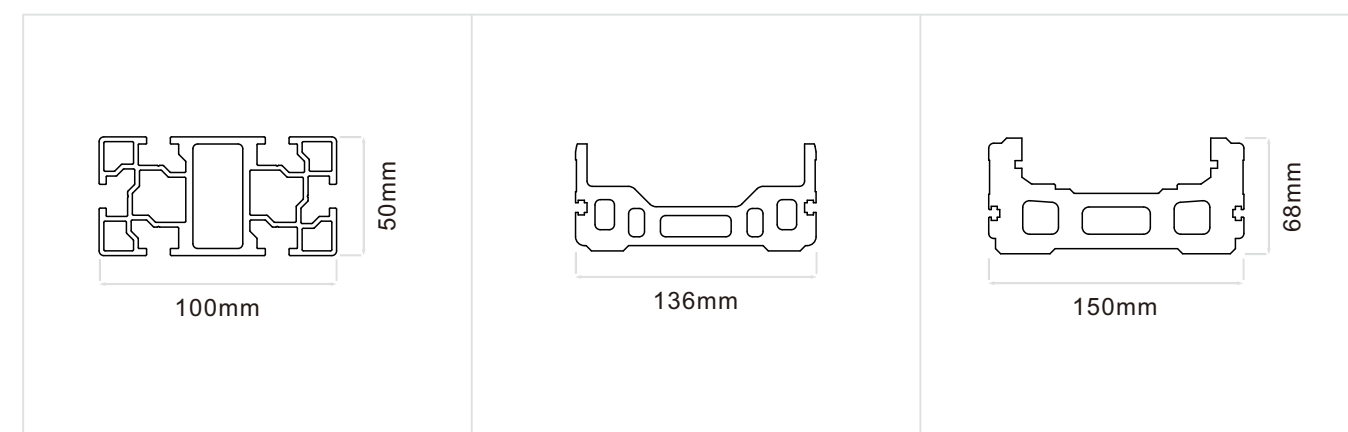
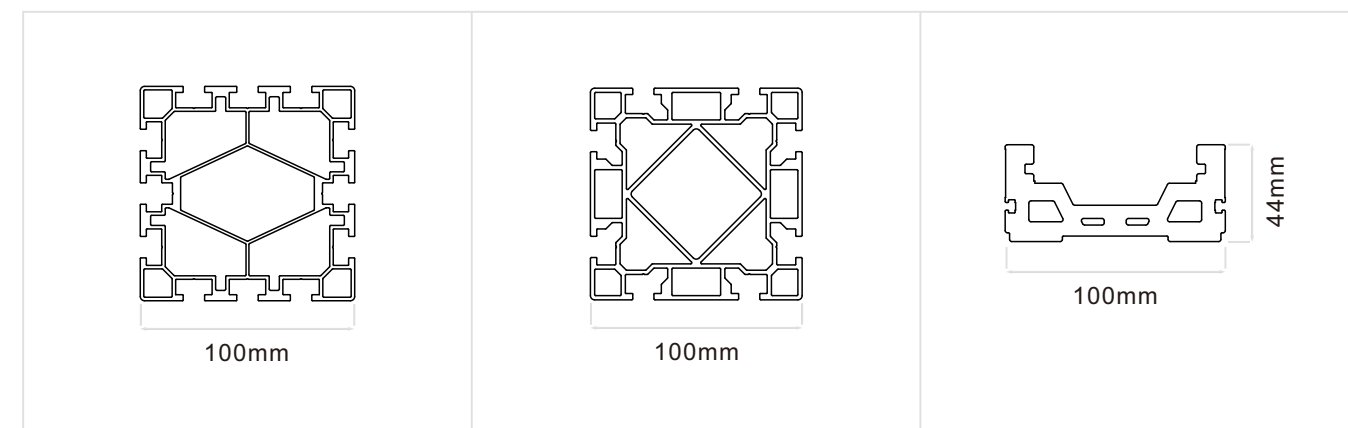


优势

- 通过优化模具设计, 减压提速, 可实现各种多腔体、薄壁厚、高强度的流水线型材的生产需求;
- 通过优化合金配比, 使得产品强度更高, 表面处理性能更优越, 常规6063材质流水线型材其抗拉性能可达到260Mpa, 远超国家标准及同行水平;
- 结构复杂的导轨型材, 通过模具二级焊合和沉桥工艺, 配合先进的拉伸校直技术, 最高可以使产品平面度达到0.5mm/2m, 减少客户后道加工的切削量, 大幅降低材料成本。

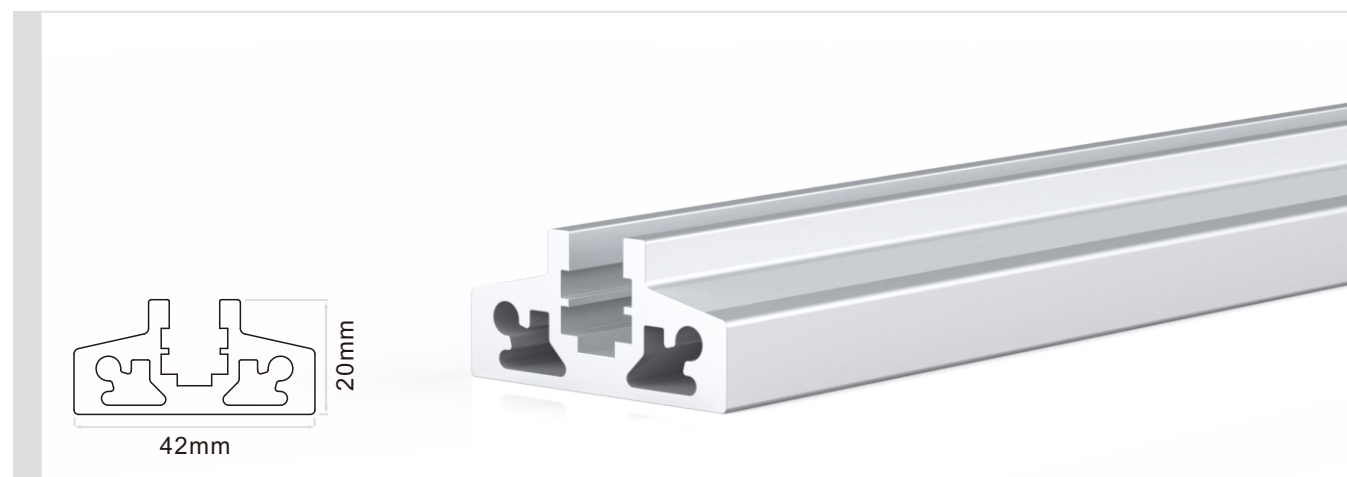
ADVANTAGES

- By optimizing die design, reducing pressure and accelerating speed, Rhine could meet the production requirements of various multi-cavity, thin-wall thickness and high-strength assembly line profiles.
- Through majorizing alloy ratio, profiles produced by Rhine has higher strength and superior surface treatment performance. The tensile performance of the conventional 6063 assembly line profile can reach 260Mpa, far exceeding the national standard and peer level.
- The highest flatness of the guide rail profile with complex structure can reach 0.5mm/2m through the mold secondary welding and sinking bridge process, with advanced tensile straightening technology, which also can shorten the cutting process, and reduce the material cost greatly.



智能家居用材

INTELLIGENT-HOUSING PROFILES

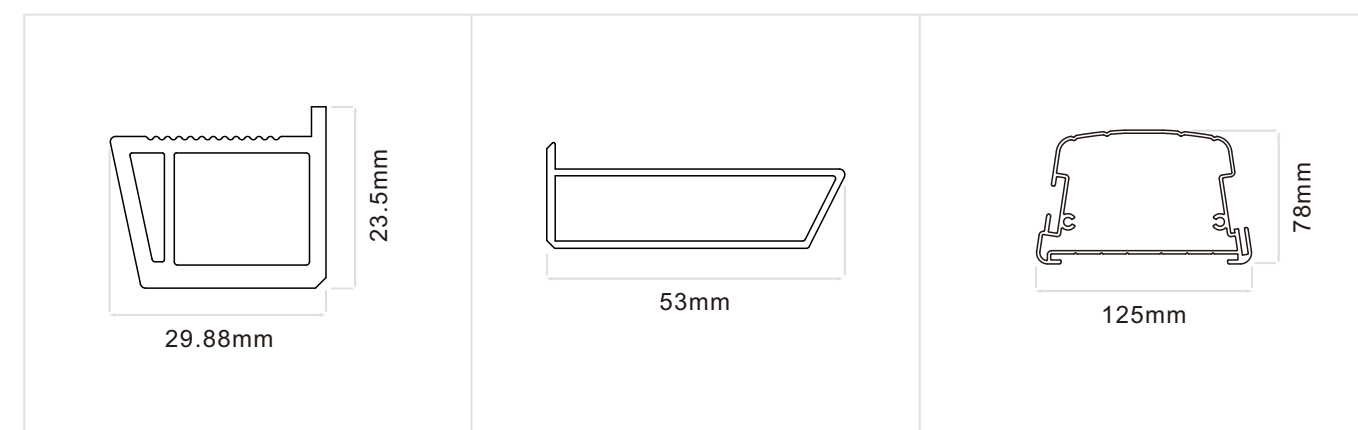
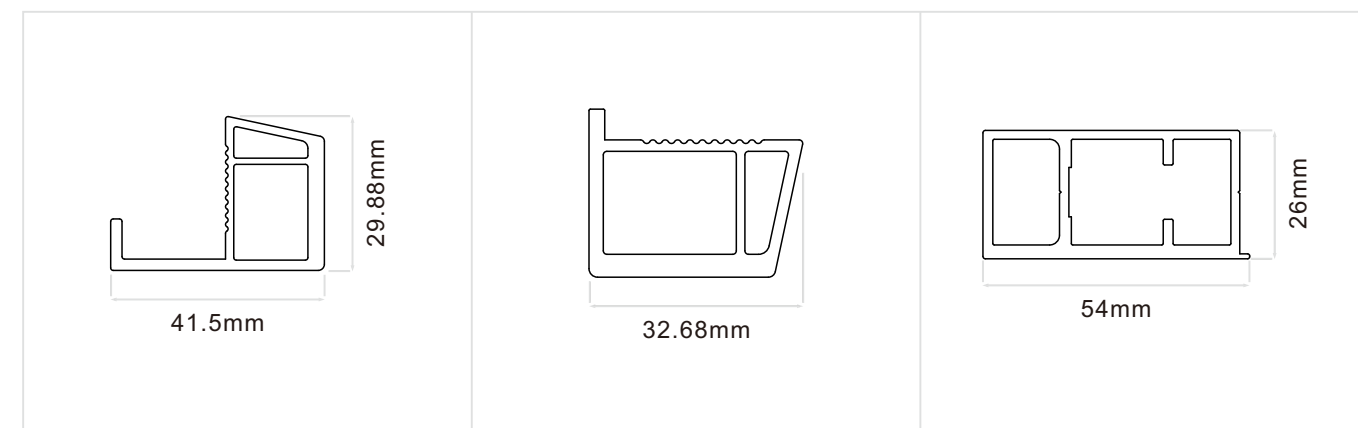


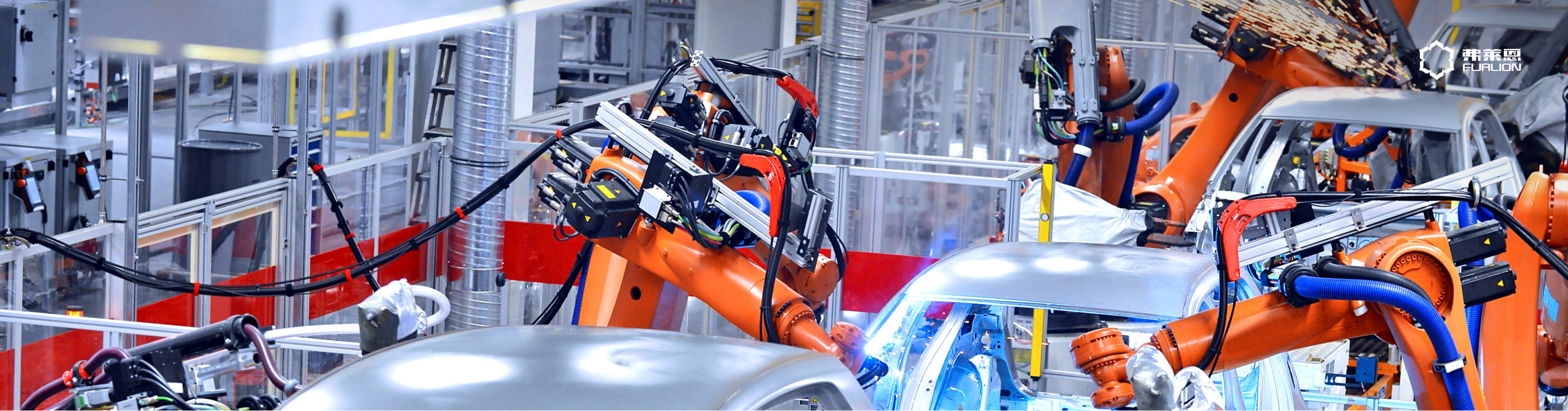
优势

- 针对家居行业表面要求高的特点, 我司通过优化Si、Mg比, 特殊元素的添加研发了6063R合金成分, 使该合金生产的型材外表光亮、无杂点、表面处理性能优越等特点;
- 为满足市场需求, 我司配备了先进的阳极氧化生产线, 可做各种表面处理要求产品, 如: 各色亮光氧化、碱砂氧化、喷砂氧化、电泳等;
- 我司氧化生产产品其膜厚均匀、砂面细腻、耐磨性、耐候性远超国标。

ADVANTAGES

- To meet high surface requirements of the home furnishing industry, Rhine has developed the 6063R alloy composition by optimizing the ratio of elements Si and Mg and adding special elements, to make the profile produced by this alloy have bright appearance with no impurities, and superior surface treatment performance.
- To meet market demand, Rhine is also equipped with advanced anodizing production lines, which can do various surface treatment, such as: bright oxidation of various colors, alkali sand oxidation, sandblast oxidation, electrophoresis, etc.
- Rhine's oxidation products have uniform film thickness and fine sand surface. Their abrasion resistance and weather resistance are far exceeding the national standard.





汽车用材

AUTOMOBILE PROFILES

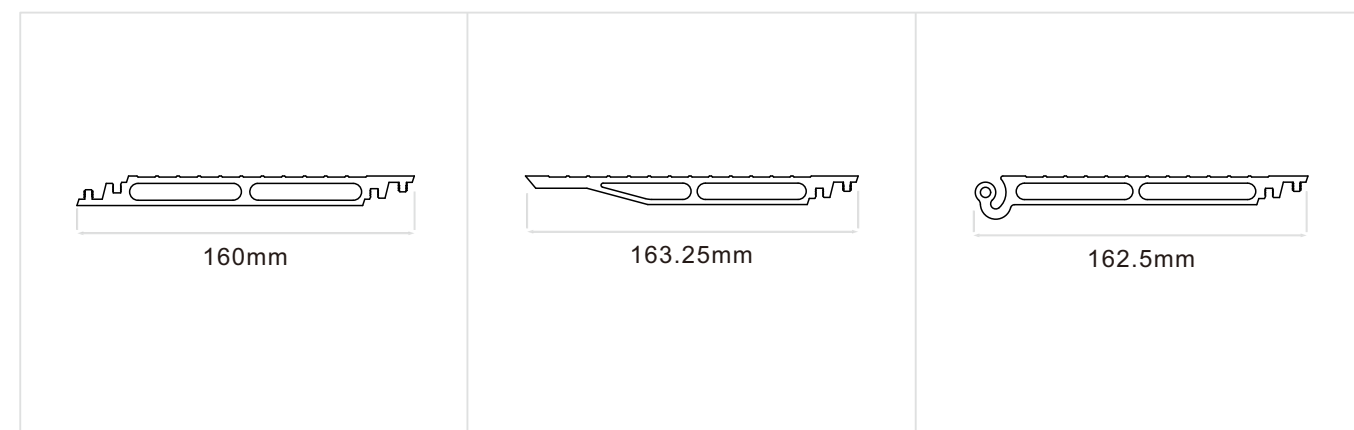
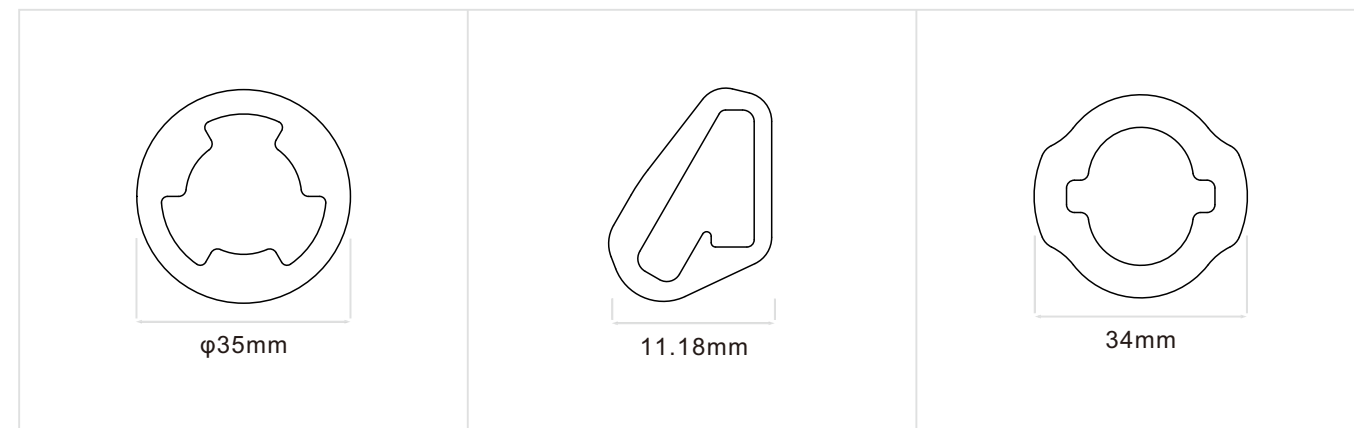


优势

- 拥有行业先进的台湾梅瑞挤压机及后辅设备，自动化程度高、性能稳定、能满足绝大多数传统汽车及新能源车用铝型材的生产工艺；
- 热处理能力包括F、T1、T4、T5、T6、T66等；
- 我司已通过IATF 16949质量管理体系，拥有专业的技术，生产，品质团队，保证产品的开发过程及货品质量。

ADVANTAGES

- Possess the industry's advanced Taiwan Mei Ruey extruder and auxiliary equipment, and with high degree of automation, stable performance, Rhine can meet most of the production processes of aluminum profiles for traditional automobiles and new energy vehicles;
- Rhine's heat treatment capability includes F, T1, T4, T5, T6, T66, etc;
- With IATF 16949 quality management system certification, Rhine also owns a professional technology, production, and quality team to ensure the product development process and product quality.





篷房用材

TENT PROFILES

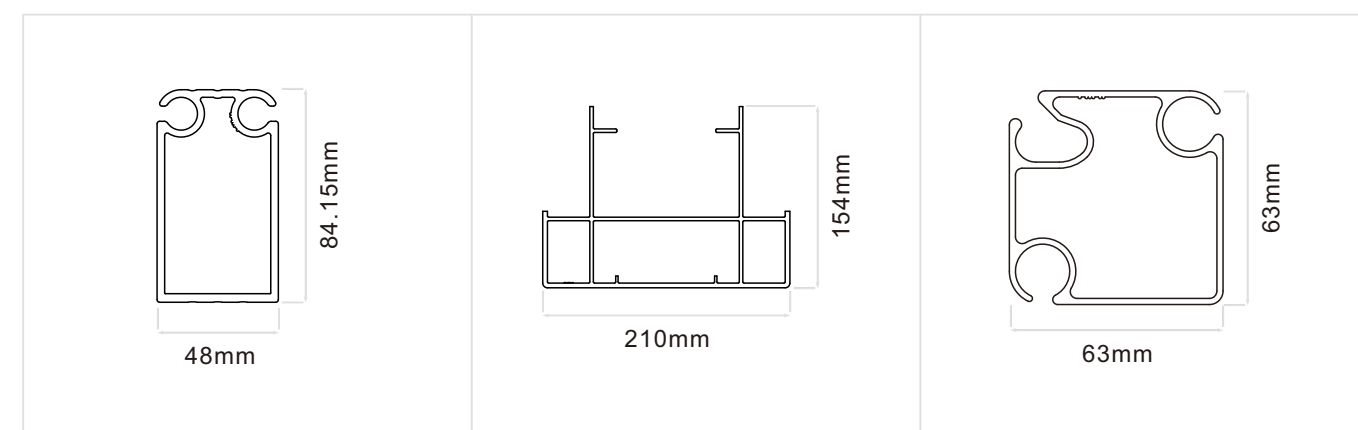
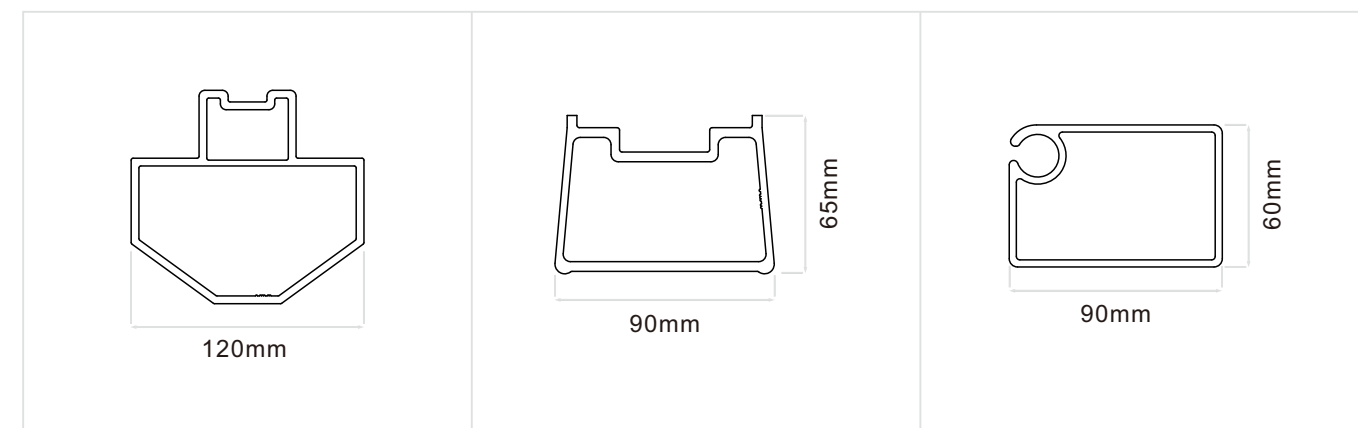


优势

- 篷房用材最大长度可达11m, 满足大跨度建筑结构的安装需求, 且直线度能达到国标精级标准;
- 通过合金成分优化, 6005牌号性能可达: 抗拉强度 $\geq 295\text{Mpa}$, 屈服强度 $\geq 265\text{Mpa}$, 延伸率 $\geq 12\%$, 远超同行业标准。

ADVANTAGES

- The maximum length of the tent material can reach 11m, which can meet the installation requirements of large-span building structures, and the straightness can reach the national standard high-precision level.
- Through the optimization of alloy composition, the performance of 6005 alloy can reach: tensile strength $\geq 295\text{Mpa}$, yield strength $\geq 265\text{Mpa}$, elongation $\geq 12\%$, far exceeding the industry standard.



电 梯 用 材

ELECTRICAL PROFILES

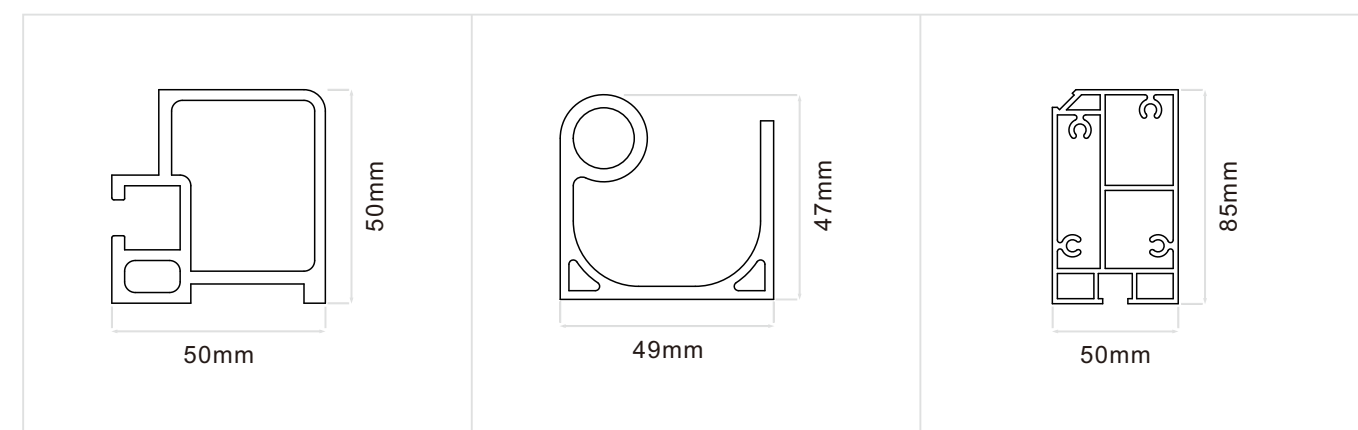
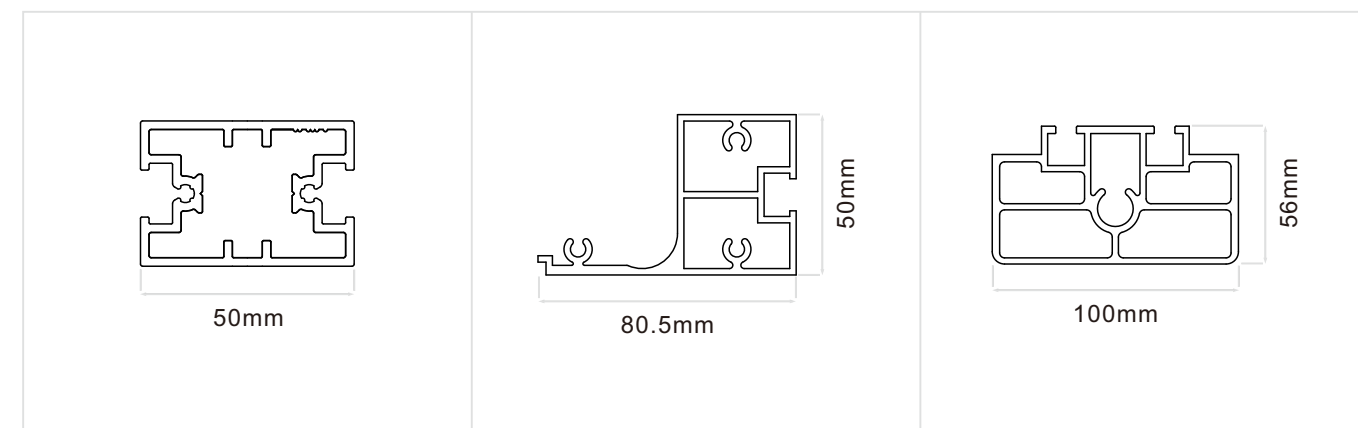


优势

- 通过模具的二级焊合和沉桥工艺,降低挤压压力,提高了多孔型材的生产能力;
- 多孔型材的开发,在相同荷载设计情况下,降低了型材的米重,节约了生产成本;
- 公司配套的氧化、喷涂生产线满足了电梯产品表面颜色多样化的需求。

ADVANTAGES

- The mold secondary welding and bridge sinking process reduces extrusion pressure and improves the production capacity of porous profiles.
- The development of porous profiles reduces the meter weight of the profiles under the same load design and saves production costs.
- Supporting oxidation and spraying production lines in our company can meet the needs of diversified surface colors of elevator products.





登高梯具用材

LADDER PROFILES

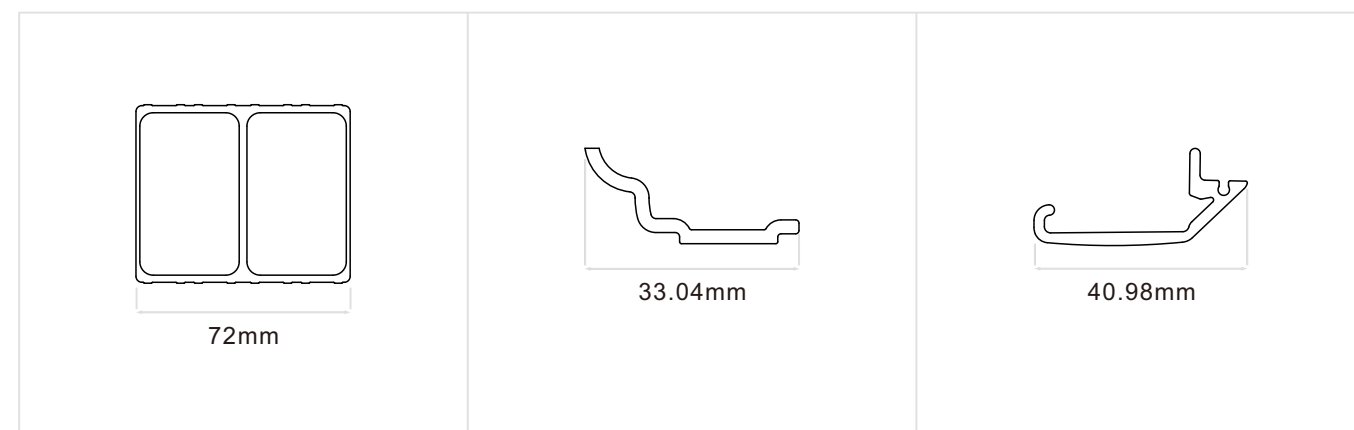
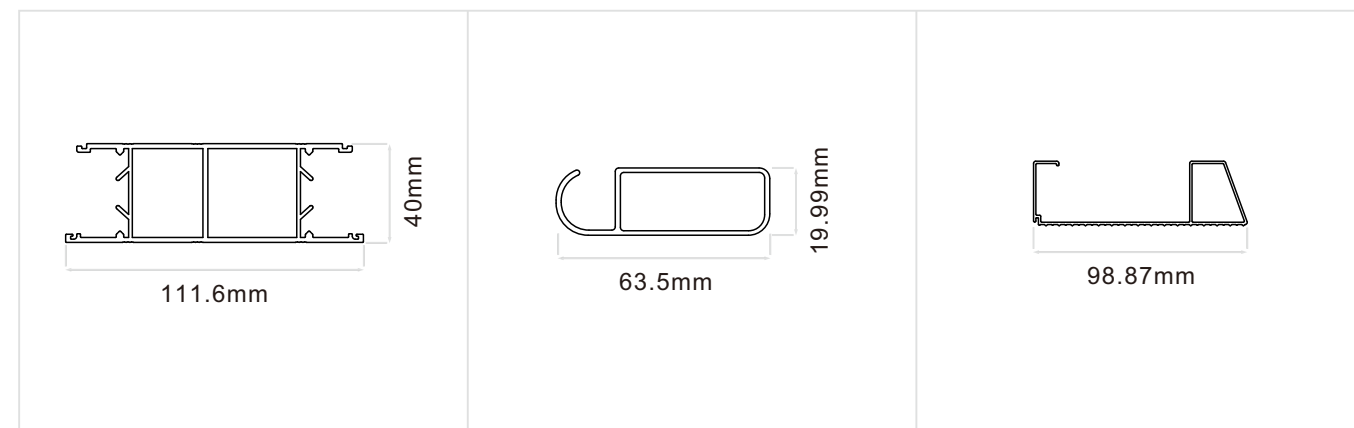


优势

- 我司拥有数十年的梯具型材生产经验,有专业的技术团队为客户提供一站式的梯具产品解决方案;
- 针对梯具产品行业自主研发了6063R,6063T等多款合金,为客户实现高强度,高表面要求的产品;
- 通过模具设计及挤压软件模拟,可生产宽厚比达150的天板型材。

ADVANTAGES

- Rhine has decades of experience in the production of ladder profiles, and has a professional technical team to provide customers with one-stop ladder product solutions.
- Through independent researching and developing of a variety of alloys such as 6063R, 6063T, etc. for ladder products, currently Rhine can produce ladder profiles with high strength and excellent surface treatment for customers.
- Through mold design and extrusion software simulation, Rhine can produce decking profiles with a width-to-thickness ratio of 150.





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