

KAIYUE INTELLIGENT



凯岳数控
KAIYUESHUKONG

真诚零距离 · 服务无止境

体验门窗智能加工新境界

NEW STATE OF INTELLIGENT PROCESSING OF
DOORS AND WINDOWS

Sincere Zero Distance and Endless Service

1:56:07

机械坐标

Y

Y1

Z1

Y2

46.172
-69.836
-5.900

1000.0mm/min 100

0.0mm/min (实际)

加工时间

0 0 0

F1 启动/停止

F2 程序结束

← Page Up R

← Page Dn →

相对坐标

X

Y1

Z1

740.869
46.172
-169.836

自动模式

手轮模式

原点回归

绝对坐标

X

Y1

Z1

Y2

740.869
46.172
-169.836
-22.270

单节执行

手轮X

手轮Y

手轮Z

坐标轴

0RPM 100%

0RPM (实际)

工件数

0 T 0

0.000

0.000

0.000

0.000

持续致力 · 打造门窗加工智慧工厂

大型门窗厂加工系统解决方案

凯岳始于 2005

从数字到数控，从数控到智能，从智能到智慧，凯岳一直在突破！

Building intelligent factory for door & window processing

Solution of Processing System for Large Door and Window Factory

Beginning with 2005

From numbers to numerical control, from numerical control to intelligence, from intelligence to intelligence, Kaiyue has been making breakthroughs!



安全可靠
Safe and Reliable



专业高效
Professional Efficient



持续创新
Continuous Innovation

SMART DOOR-WIN FACTORY

智慧门窗厂的必要性



什么是智慧门窗厂？

智慧门窗厂是基于大数据及物联网的智慧门窗加工全面解决方案及关键技术为核心，以数字化、网络化和智能化等信息技术与门窗智能加工设备的深度融合为基础，以高效、精确、便捷、节能、安全、环保为主要目标，具有自感知、自分析、自诊断、自决策、自学习等为技术特点的新型门窗加工系统。

创建智慧门窗厂的必要性



01 高效：

通过平台软件与设备的无缝对接，实现全过程自动化加工，无需人工干预，减少物料搬运环节，最大限度提升了工作效率。



02 精确：

专业的平台软件可对数据进行分析及精度补偿，优化工件参数，实现零失误、高精度，生产订单标准化生产、智能化调控。



03 便捷：

傻瓜式操作，生产软件联机生产，自动进行所有加工工序，设备的一键开始加工方式是专业软件控制下的标准生产方式，实现更快捷、高质量。



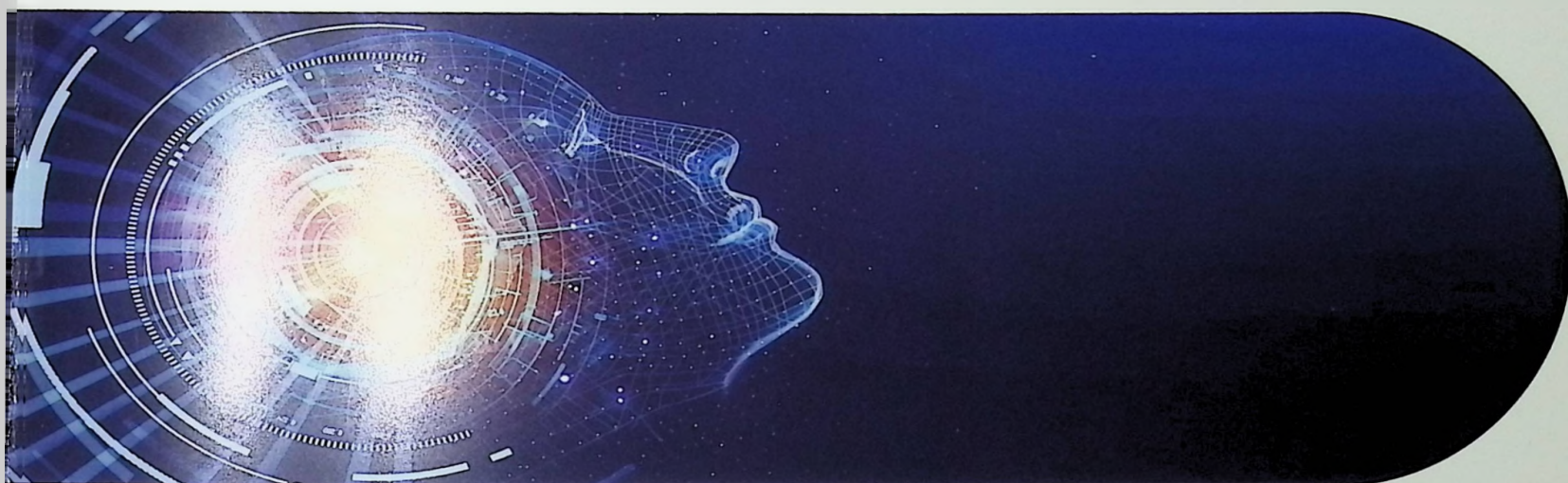
04 节能：

平台软件可优化物料传送路径，指导物料流动及物流路径，自动物料成组，减少工人搬运次数，降低能源无效消耗，大幅度节省生产成本。



05 安全：

平台软件将安全生产信息与生产设备数据交互，针对可能出现的安全问题实现即时响应，做好应急管理和安全防控。



普通门窗厂的弊端！

随着当今建筑业及家装业的快速发展，用户对门窗加工的品质与效率提出了更高的要求，普通门窗厂现普遍存在效率低、生产成本低、成品率低、产品单一、操作工水平低、数据传递易丢失或出现误差、招工难、人员工资高、能耗大，劳动强度大等诸多弊端，难以满足当今门窗业的发展与需求。

普通门窗厂面临的困难

设备落后	设备自动化程度低 产品质量不稳定	设备面向甲方可视 性差，丢失客户	加工精度低，质量 差，无法满足用户
技术落后	操作工水平低，依 赖性强，效率低	工人不掌握门窗加 工技术，质量差	人员更换频繁，加 工技术培训难
客户需求	需求窗型及材料多 样化、个性化	高质量、低成本、 高附加值	快速交货、增值服 务、灵活加工
政策法规	节能降耗，可持续 发展的低能耗产业	绿色环保，对环境 无污染的清洁产业	劳动保护，工人安 全、收入的保障

智慧加工 · 颠覆体验

Wisdom Processing Subversion Experience

ADVANTAGES OF SMART

凯岳智慧门窗厂的优势

100%

产品合格率
Product percent of pass

97%

原材料优化率
Material optimization rate

70%

生产效率提高
Improve efficiency



凯岳数控独立研发的门窗智慧化工厂已助力多家门窗企业实现质变—降低管理费用 70%、降低人工成本 60%、提高生产效率 70% 以上、产品合格率达到 100%。真正为客户提高了产品品质和生产效率，为门窗企业的快速发展，提供全套解决方案和技术支持，给客户体验门窗智能加工新境界！我们推行能为用户长期践行的 1+4 战略，即生产力平台 + 生产软件联网 + 管理软件联网 + 智能设备联网 + 供应链联网。

The intelligent chemical plant for doors and windows independently developed by Kaiyue CNC has helped many door and window enterprises to achieve qualitative changes—reducing management costs by 70%, reducing labor costs by 60%, improving production efficiency by more than 70%, and achieving product qualification rate of 100%. Really improve product quality and production efficiency for customers, provide a complete set of solutions and technical support for the rapid development of door and window enterprises, and experience a new realm of intelligent processing of doors and windows for customers!

The 1+4 strategy that users can practice for a long time is productivity platform+production software networking+management software networking+intelligent equipment networking+supply chain networking.



智能智控 Intelligent control

全面对接生产管理软件，实现一键生成高精度产品下单生产，无需人工干预。

Fully docking production management software, realizing one-click production of high-precision products without manual intervention.

精确精准 More precise

生产软件具备数据分析，精度补偿功能，做到加工工件毫厘必争，树立精度新标杆。

The production software has the functions of data analysis and precision compensation, so as to make every effort to process workpieces.

操作简易 Easy to operate

傻瓜式操作，一键开始加工方式，1分钟培养出操作熟练工，只需轻松点击，实现高效加工。

Fool-like operation, start processing with one button, train skilled workers in one minute, and realize efficient processing with easy click.

节省人工 Save labor

加工过程全自动化完成，减少人工，1-4人一条生产线，制作费每平方米省人工成本45%。

The processing process is fully automated, reducing labor, 1-4 people per production line, and saving labor cost by 45% per square meter.

节省场地 Small volume

智能生产线结构紧凑，一机多用，无需太多设备，占地小，小工厂也能大产量。

Intelligent production line is compact in structure, one machine is multi-purpose, and small factories can also produce large quantities.

做行业创新先行者 · 打造智能装备优秀品牌

Be a pioneer of industry innovation, create excellent brands in the intelligent equipment industry, and create value for users

300⁺

公司员工
Have employees

50⁺

中高级技术人员
Technician

20⁺

产品质检人员
Quality testing

4000⁺

累计服务用户
Service users

2012

成功研发 智能锯切加工中心

2012

成功研发 四米数控加工中心

专利号: ZL 2019 2 2238993.7

2017

成功研发 智能中挺加工中心

专利号: ZL 2019 2 2467509.8

2018

成功研发 智能冲铣加工中心

专利号: ZL 2020 2 1628482.7

2018

成功研发 数控双头转角组角线

专利号: ZL 2020 2 2358454.X

2019

成功研发 数控复合加工中心

专利号: ZL 2021 2 2475827.6

2010

山东建设协会第五届理事会“理事单位”
被山东省建设厅评为“门窗幕墙设备骨干企业”

2014

被评为“济南市高端装备制造创新型企业”以及“名牌产品”

2009

被建设部等五部委评为“全国化学建材先进集体”，其中五项产品被建设部列入“建设部重点科技成果推广项目”，两项产品被科技部列入“国家火炬计划项目”

2013

获得“山东省先进企业”、“山东省创新型民营企业”、“济南市创新型企业”、“济南市知识产权贯标企业”等荣誉称号

凯歌高旋·岳峙渊渟

Sing the Song of Triumph and March Forward Bravely

INTRODUCTION

关于凯岳



济南凯之岳机械有限公司始建于2005年，位于国家重点技术开发区济南市高新区临港街道东柴凯岳工业园，是一家资金、技术实力雄厚，拥有自己的设计研发中心、质量控制中心和营销服务中心的现代化企业。

“凯之岳”作为集科研、生产销售服务为一体的综合性技术企业，现已发展成为国家工业铝型材、门窗幕墙行业的全球专业制造商，品种齐全，产销全球，产品涵盖工业铝材、铝门窗、铝幕墙、塑钢门窗、隔热型材复合、中空玻璃等智能加工设备。

“凯之岳”作为世界知名的中国品牌，拥有一支行业经验非常丰富的高素质员工团队，研发人员从业十五年以上。公司始终信奉质量第一，用户至上的理念，面对千帆竞渡，百舸争流的竞争之势，我们信心百倍，未来将推出更多、更新、更好的加工设备。

“凯之岳”研发产品的理念是一切从实践出发，新型智能化产品一直领先行业。我们不断进行技术革新、制度创新、引进高端技术专业人才，国际先进设备及工艺，执行国际标准，吸收国际先进的设计理念及工艺精髓，关键部件采用国际知名企业产品，使产品不断升级，每年都有新型的智能产品面向市场。全国拥有四十余个服务网络，为广大用户提供及时周到的服务。

“十二五”规划以来，国家调控优化产业布局，重点方向包括航空装备、海洋工程装备、轨道交通装备、卫星制造装备及应用、智能制造装备五大领域，大力发展汽车铝合金板、高速列车用大型铝型材、航空航天用铝合金中厚板、深冷设备用铝合金板材等重点工程，充分体现了我国政府在高端装备制造业的应用价值。

机不可失，时不我待。面对新时代，凯岳人豪情满怀，以极大地热情，不断推出在国内引领行业水准、在与国际巨头试比高低的高端铝材加工设备，为行业发展做出更大的贡献，为民族制造业书写辉煌的一页。

Founded in 2005, Jinan Kaizhiyue Machinery Co., Ltd. is located in Dongchai Kaiyue Industrial Park, Lingang Street, Jinan High-tech Zone, a national key technology development zone. It is a modern enterprise with strong capital and technical strength and its own design and research center, quality control center and marketing service center.

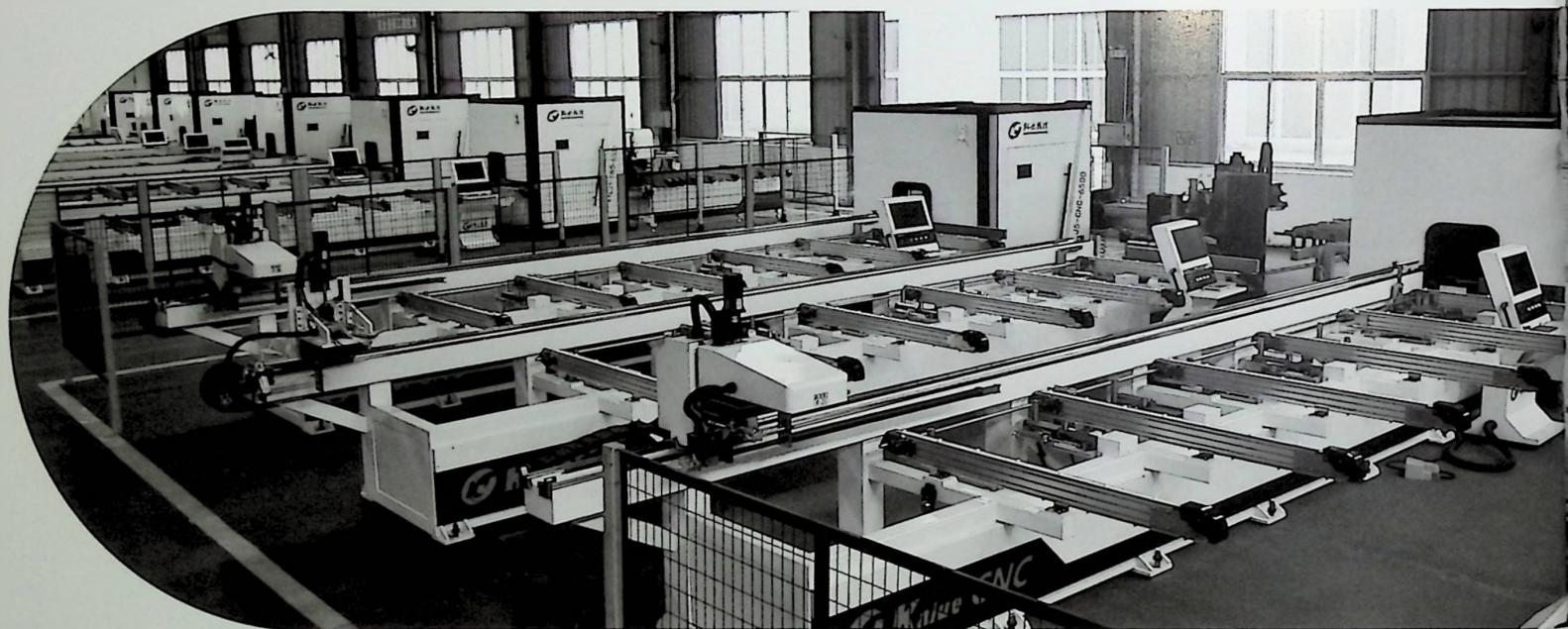
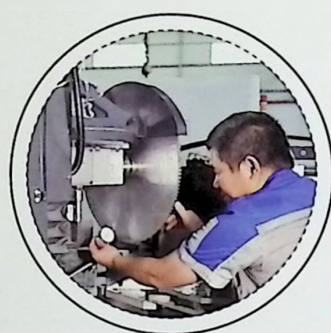
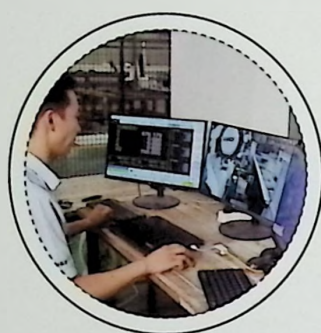
As a comprehensive technology enterprise integrating scientific research, production, sales and service, "Kaizhiyue" has developed into a global professional manufacturer of national industrial aluminum profiles, doors and windows curtain wall industries, with complete varieties and global production and sales. Its products cover intelligent processing equipment such as industrial aluminum, aluminum doors and windows, aluminum curtain walls, plastic steel doors and windows, composite thermal insulation profiles and insulating glass.

As a world-famous Chinese brand, "Kaizhiyue" has a team of highly qualified employees with rich industry experience, and R&D personnel have been in business for more than 15 years. The company always believes in the concept of quality first, customer first. Facing the competition trend of dry sails and hundreds of battles, we are full of confidence and will introduce more, newer and better processing equipment in the future.

The concept of "Kaizhiyue" in product research and development is that everything starts from practice, and new intelligent products always lead the industry. We constantly carry out technological innovation, institutional innovation, introduce high-end technical professionals, international advanced equipment and technology, implement international standards, absorb international advanced design concepts and technology essence, and adopt internationally renowned enterprise products for key components, so that the products are constantly upgraded. Every year, new intelligent products face the market. There are more than 40 service networks throughout the country, providing timely and thoughtful services for the vast number of users.

规模生产 · 集成智造是我们的核心优势

Scale production, integration and intelligence building are our core advantages



科学的生产流程，精准的生产计划，软件与硬件的无缝衔接，实现全程智能化管理，致力成为门窗装备行业的标杆企业

Scientific production process, precise production plan, seamless connection of software and hardware, and realization of intelligent management in the whole process

匠心制造 · 卓越品质

Creative Manufacturing and Excellent Quality

QUALITY ASSURANCE

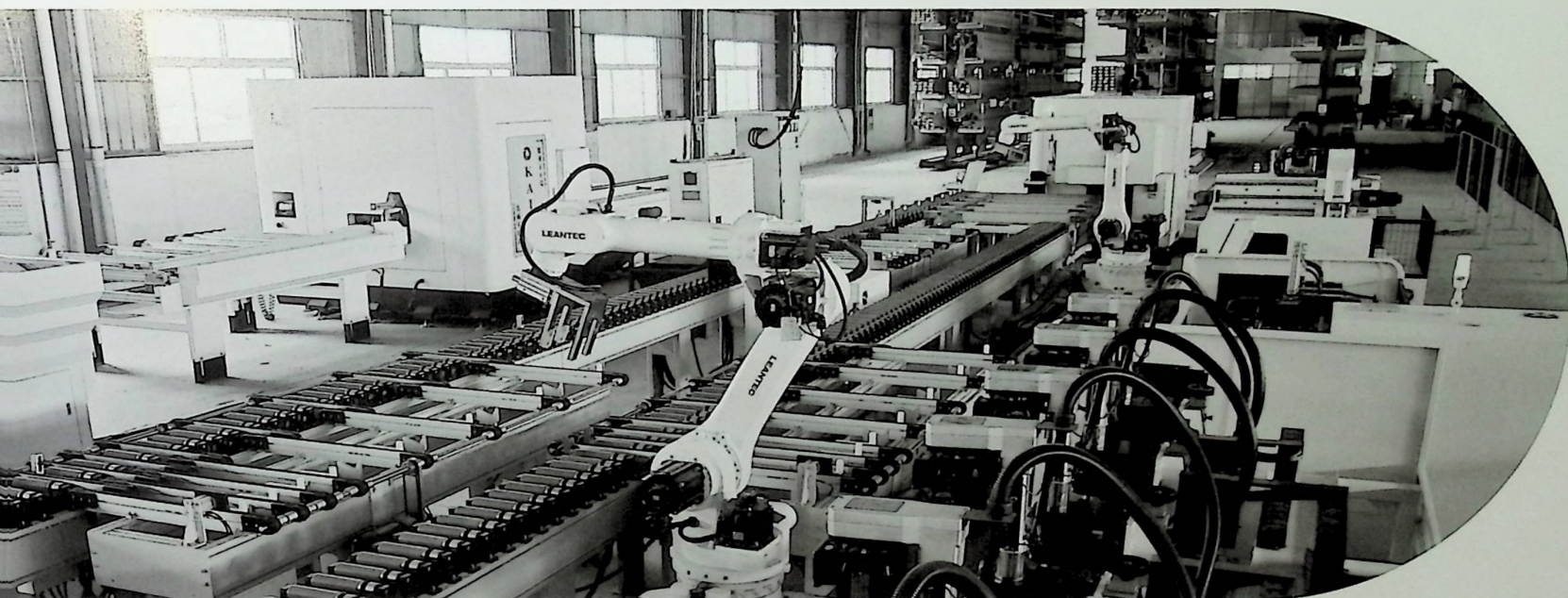
凯岳品质

凯岳机器拥有强大的技术研发团队和雄厚的机加工能力，一流的数字化、自动化成套机加工设备，并应用 ERP 管理系统，以及对生产链连接点的深入研究，实现工业化，智能化生产，不断提升产品核心竞争力。

我们从产品研发、原材料采购、制造、直至包装、配送全程管理控制，确保了产品关键环节的质量控制，从而保证了产品质量的稳定性，使生产体系高效、有序运行。公司建立标准化制造工艺及成品检验制度，精确分工，拥有专业的质量控制流程及手段，以高于行业标准制造和检验每一台设备。

Kaiyue Machine has a strong technical research and development team and strong machining capability, first-class digital and automatic complete machining equipment, and applies ERP management system and in-depth research on production chain connection points to realize industrialization and intelligent production and continuously improve the core competitiveness of products.

We have managed and controlled the whole process from product research and development, raw material procurement, manufacturing to packaging and distribution to ensure the quality control of key links of products. The company has established a standardized manufacturing process and finished product inspection system, with precise division of labor and professional quality control procedures and means to manufacture and inspect every piece of equipment above the industry standard.



品牌元器件全球供应商

Global Suppliers of Brand Components

凯岳智造 · 体验门窗智能加工新境界

Intelligent building experience new realm of intelligent processing
of door & window

+

凯岳机器独立研发的门窗智能生产管理系统，实现软件与硬件无缝衔接，是门窗生产制造的智能解决方案，凯岳门窗智能化解决方案达到门窗技术设计与车间生产一线的完美结合。通过自动化、智能化、柔性化生产来代替人工生产，摆脱管理的制约，深度改善成本结构，达到门窗制造数据零失误、省人工、高效率。

The intelligent production management system for doors and windows independently developed by Kaiyue Machinery, which realizes seamless connection between software and hardware, is an intelligent solution for door and window production. Kaiyue's intelligent solution for doors and windows achieves a perfect combination of door and window technical design and workshop production line. Through automatic, intelligent and flexible production to replace manual production, get rid of management constraints, improve the cost structure in depth, achieve zero errors in door and window manufacturing data, save labor and high efficiency.



订单排产
智能化

Intelligent Order
Scheduling

物料流动
程序化

Material Flow
Programming

加工数据
动态化

Dynamic Processing
Data

设备操作
无人化

Unmanned Operation
of Equipment

INTELLIGENCE

智能智控

凯岳 · 门窗智能生产管理系统

Intelligent Production Management System for Kaiyue Machine Doors and Windows

省人工

- ▷ 节省人工成本 65%
- ▷ 系统门窗传统工厂加工部分 10 人
- ▷ 智能工厂只需 3-4 人
- ▷ 年节省成本 40 万

零失误

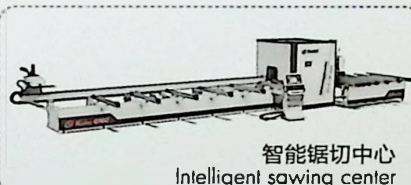
- ▷ 傻瓜式操作，简单易学
- ▷ 软件与设备联机，无纸化下单，数据全自动统计
- ▷ 产品合格率 100%

高效率

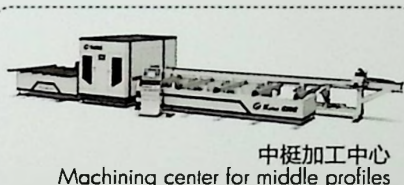
- ▷ 全自动扫码智能加工
- ▷ 中间产品程序化输送，优化物流路径，无需人工干预
- ▷ 生产效率提高 70%

凯岳 · 门窗智能加工车间连线设备

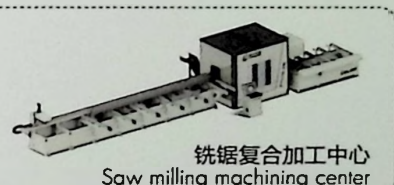
On-line equipment for intelligent processing workshop of doors and windows



智能锯切中心
Intelligent sawing center



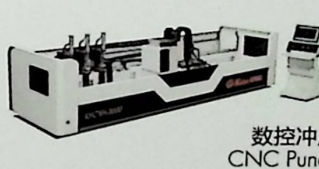
中挺加工中心
Machining center for middle profiles



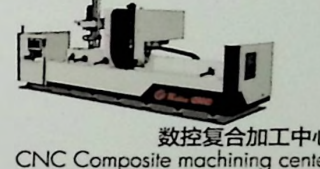
铣锯复合加工中心
Saw milling machining center



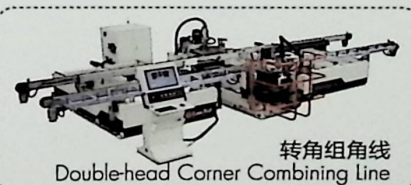
多头数控钻床
CNC Multi-head drilling machine



数控冲床
CNC Punch



数控复合加工中心
CNC Composite machining center



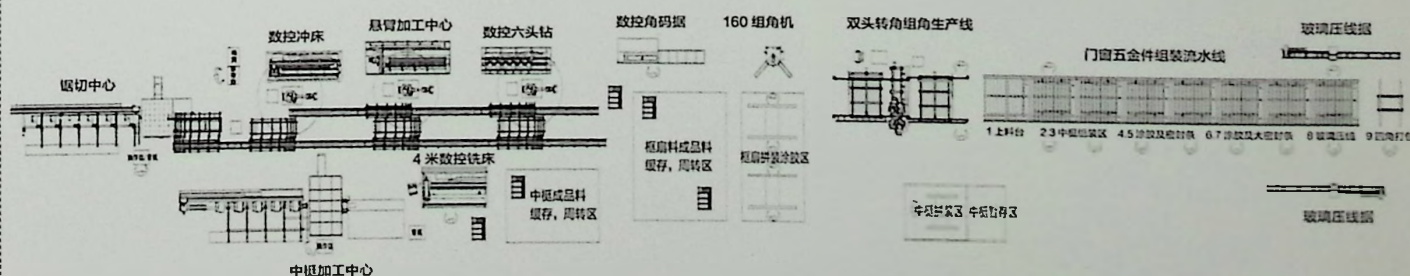
转角组角线
Double-head Corner Combining line



数控角码切割锯
CNC Corner cutting saw



数控压条切割锯
CNC Strip cutting saw



铝门窗中梃智能制造 · 高效流水生产线

Intelligent Manufacturing and Efficient Production Line for Aluminum Doors and windows

该生产线是我公司自主研发并拥有核心技术的全自动化中梃加工设备，获得了国家实用新型专利和发明专利
专利号：ZL 2019 2 246 7509.8（仿冒必究）

该生产线在国内市场上的占有率居首位，主要做到简化门窗的生产工艺，节省人工，可为用户打造数字化、智能化、无纸化门窗加工智能工厂

This production line is a fully automatic machining equipment with core technology independently developed by our company, and has obtained the national utility model patent and invention patent
PatentNo.: ZL 2019 2 246 7509.8 (counterfeiting must be investigated)

The production line occupies the first place in the domestic market, which mainly simplifies the production process of doors and windows, saves labor, and can create a digital, intelligent and paperless intelligent manufacturing door and window processing for users



多工艺集成加工

主要用于铝合金门窗型材的漏水孔、注胶孔的冲、钻、铣加工及激光划线定位，一次上下料可完成多种工艺内容的智能化集成加工，避免设备间转换，极大提高生产效率、减少辅助时间、减小场地占用，避免过度投资。

It is mainly used for punching, drilling, milling and laser marking positioning of water leakage holes and glue injection holes of aluminum alloy door and window profiles. It can complete intelligent integrated processing of various technological contents by loading and unloading at one time, avoiding conversion between equipments, greatly improving production efficiency, reducing auxiliary time, reducing site occupation and avoiding excessive investment.

智能化 高精度

该生产线采用数控化、网络化运行模式，特别适用于品种多、批量大、工件更换频繁的场所使用。设备的一键开始加工方式是专业软件控制下的标准生产方式，无需人工干预，可自动智能化生产，有效降低数据传输失误。

The production line adopts numerical control and network operation mode, which is especially suitable for occasions with many varieties, large quantities and frequent workpiece replacement. One click start processing mode of equipment is a standard production mode under the control of professional software, which can automatically and intelligently produce without manual intervention, effectively reducing data transmission errors.

调整维护方便

该生产线采用模块化、单元化加工方式，自动分配物料加工流转路径，自动安排整个生产线上的各设备的工作内容和次序，实现生产订单全过程智能化。电主轴、激光头均采用伺服进给模式，简单可靠，调整维护方便。

The production line adopts modular and unitized processing mode, automatically allocates material processing flow paths, automatically arranges the working content and sequence of all equipment on the whole production line, and realizes the intelligentization of the whole process of production orders. The motorized spindle and laser head adopt servo feed mode, which is simple, reliable and convenient to adjust and maintain.

中挺型材
90度切断
90 degree cutting

+

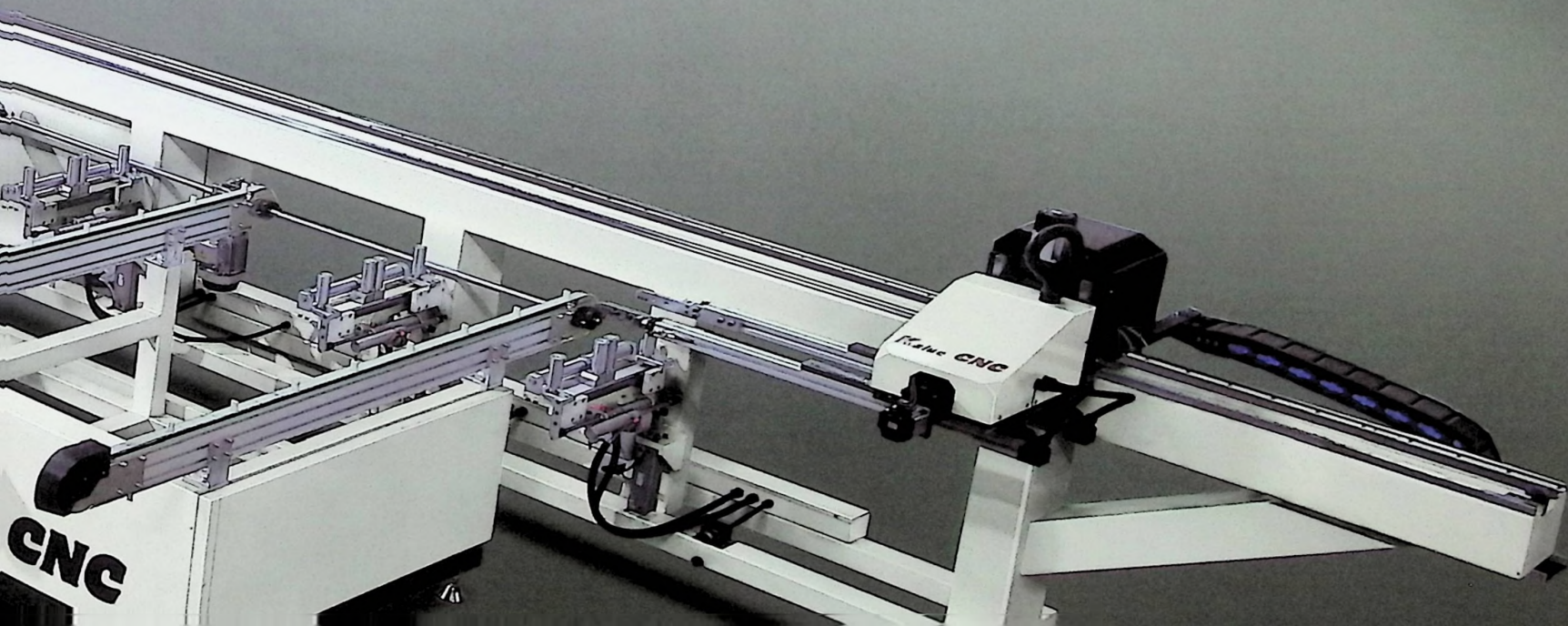
中挺型材
端面铣削成形
End face milling forming

+

中挺型材
激光划线定位
Laser scribing positioning

+

中挺型材
冲/钻/铣加工
Punching/Drilling Milling



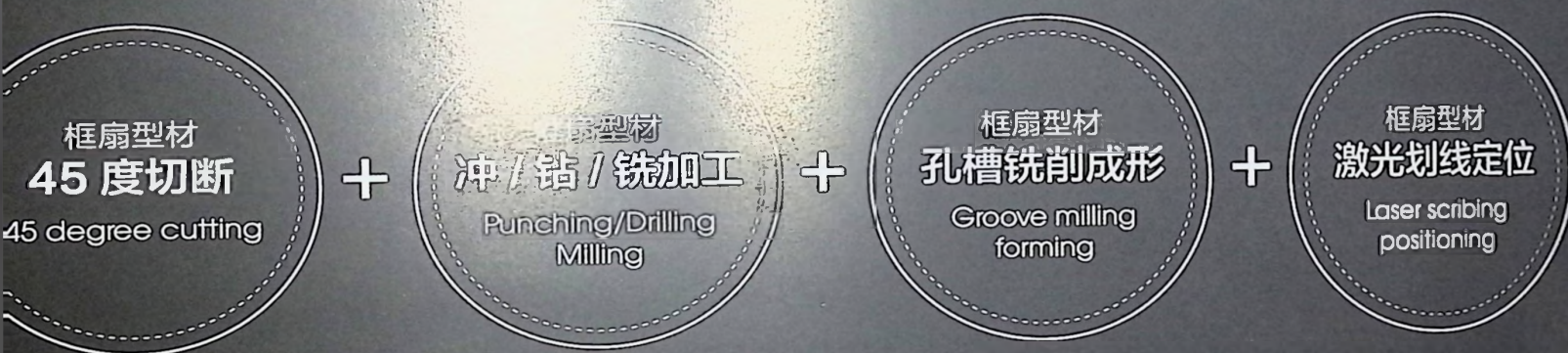
铝门窗框扇智能制造 · 高效流水生产线

Intelligent Manufacturing and Efficient Production Line for Aluminum Doors and windows

软硬件精准结合、智能化控制，系统化制造工艺、实现门窗生产自动化、智能化
凯岳 —— 同步门窗加工技术国际化发展进程

Accurate combination of software and hardware, intelligent control, systematic manufacturing process, automatic and intelligent production of doors and windows

Kaiyue — the internationalization development process of door and window processing technology in synchronous system



智控生产 提质降本

柔性生产线—提高质量，降低成本，增加效益。

智能化操作—更简单，轻松点击，实现高效加工。

自动化制造—更低成本，更少人工，占地面积更少。

高品质部件—性能稳定，保证加工精度。

Flexible production line-improve quality, reduce cost and increase benefit

Intelligent operation-simpler, easy to click, and efficient processing

Automated manufacturing-lower cost, less labor and less floor space

High-quality parts-stable performance to ensure machining accuracy

设备与软件无缝链接

精良设备与专业软件的无缝对接，实现了前端设计、数据处理、生产自动化信息管理系统，这些灵活性极高的先进装备，真正实现从传统生产向现代数字化生产的转变，让您能缩短生产时间、减少生产损耗。

The seamless connection between sophisticated equipment and professional software has realized the front-end design, data processing and production automation information management system. These advanced equipments with high flexibility truly realize the transformation from traditional production to modern digital production, which enables you to shorten production time and reduce production loss.



铝门窗框扇智能多头组角 · 高效生产线

Intelligent Multi-head Corner Combining Line for Aluminum Doors and Windows

该生产线由多台双头组角线组合而成，左端为上料区，右端为下料区，可进一步提高组角效率，超大组框范围，参数化编程设计，加工过程无需人为干预，确保组角工序的高精度、高品质。

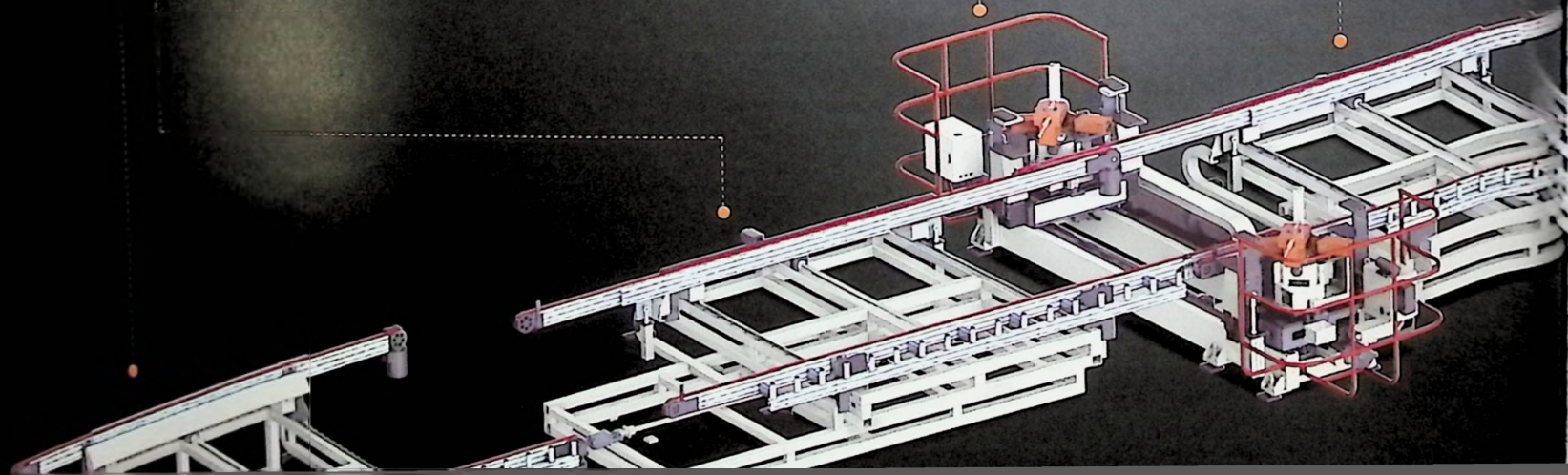
凯岳 -- 同步门窗加工技术国际化发展进程

The production line is composed of several double-head corner lines, with the left end being the feeding area and the right end being the blanking area, which can further improve the corner combining efficiency.

Ultra-large frame assembling range, parametric programming design, no human intervention in the machining process, ensuring high precision and high quality of angle assembling process.

Kaiyue - the internationalization development process of door and window processing synchronous system.

- 01 上料台 A Feeding Table
- 02 接料台 A Material Receiving Table
- 03 组角机 A Corner Combining Machine
- 04 接料台 B Material Receiving Table



大范围组角优势

该组角生产线比国内外同类的组角设备具有更大的组角范围优势，可基本满足国内外门窗厂家的铝门窗边框的组角需求。

最大组框范围：
2400 × 3600mm

Compared with similar corner-assembling equipment at home and abroad, this corner-assembling production line has a larger corner-assembling range advantage, and can basically meet the corner-assembling requirements of aluminum door and window frames of door and window manufacturers at home and abroad.

Max. framing range: 2400×3600mm

单元式加工 可靠稳定

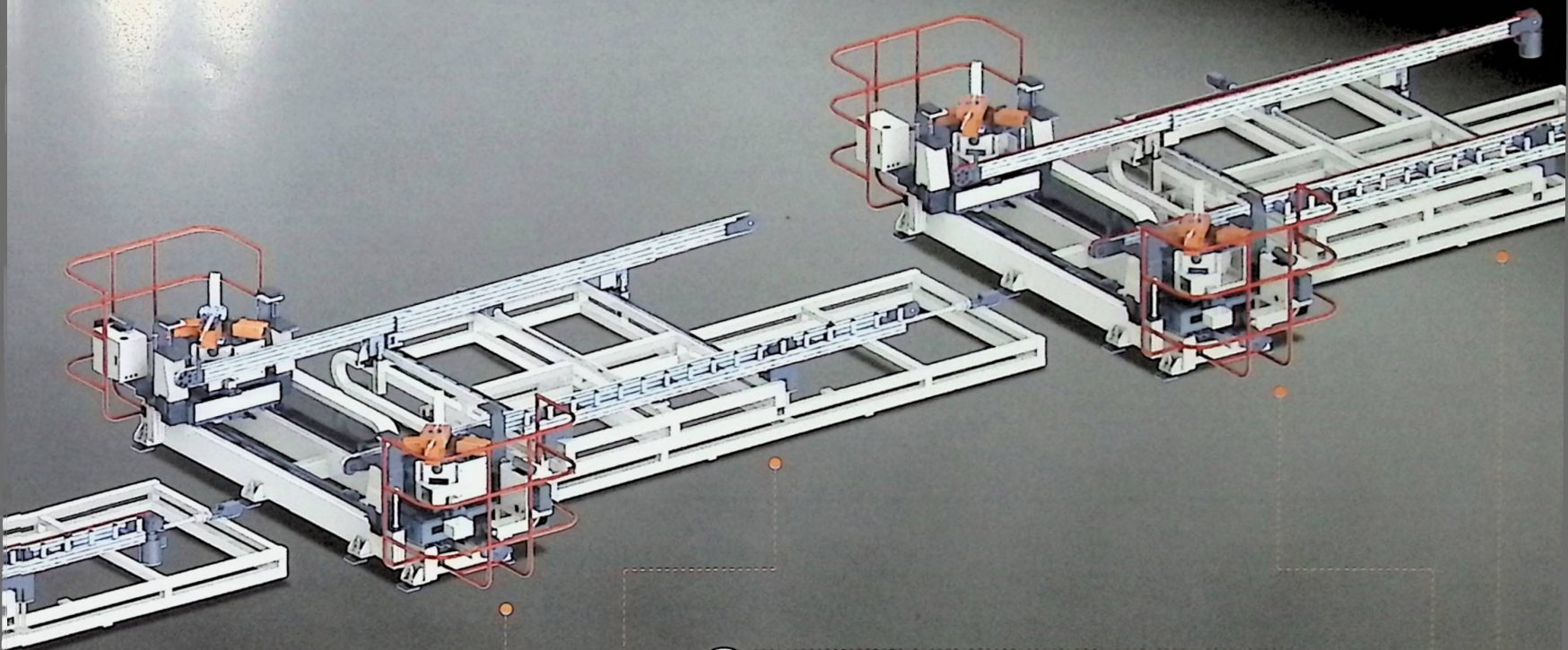
生产线由上料单元、3个组角单元、3个传输单元、落料单元三个部分组成，通过控制系统，可实现高效稳定的流水线作业模式。参数化编程设计，使整个操作过程简洁明了，操作人员掌握容易，维护方便。

The production line consists of three parts: loading unit, three angle setting units, three transmission units and blanking units. Through the control system, an efficient and stable assembly line operation mode can be realized. Parametric programming design makes the whole operation process concise and clear, easy for operators to master and convenient for maintenance.

创新设计 高速高质

创新的转角组框模式、伺服控制技术、液压同步控制技术，确保铝门窗组角工序的高精度、高品质。该生产线组一个框/扇的时间是22秒，可以满足每年20万平方的产能。

Innovative corner framing mode, servo control technology and hydraulic synchronous control technology ensure the high precision and high quality of aluminum door and window framing process. The time of one frame/fan in this production line group is 22 seconds, which can meet the annual production capacity of 200,000 square meters.



05

组角机 B

Corner Combining Machine

06

接料台 C

Material Receiving Table

07

组角机 C

Corner Combining Machine

08

下料台

Blanking Table

铝型材智能数控锯切中心

CNC Intelligent Cutting Center for Aluminum Profile

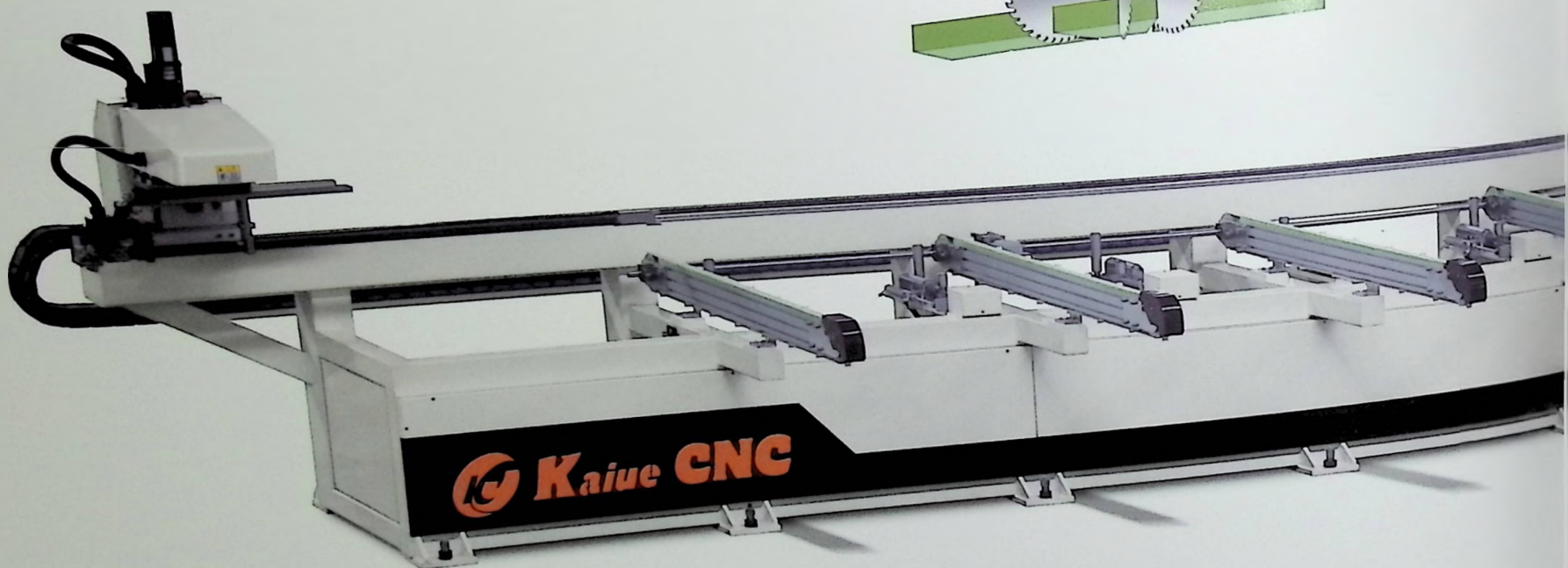
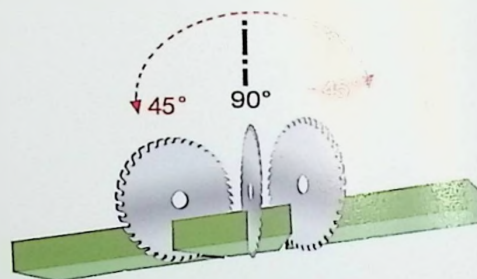
KYLJ5-CNC-6500

主要用于加工铝合金型材、PVC 型材及断桥铝型材的切割下料，数控系统全程控制，可实现 45°、90° 角自动切割。

It mainly processes aluminum alloy profiles, PVC profiles and bridge-broken aluminum profiles. The CNC system controls the whole process and can realize automatic cutting at 45° and 90° angles.



扫一扫 获取更多视频资料

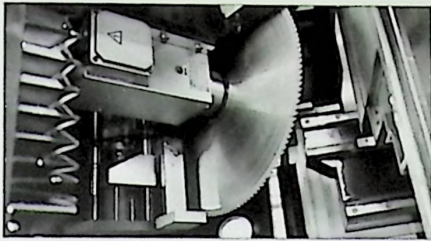


设备特点

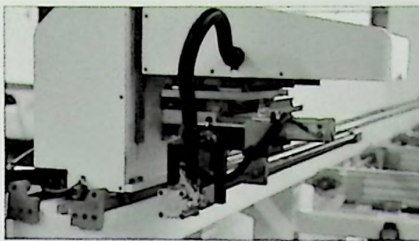
- 稳定的高精度床身，经时效处理，结构设计合理，操作方便。
- 采用法国施耐德控制系统，自带 COM 软件编程，具有完美的视窗操作界面。
- 送料与出料系统全伺服控制，快速精确，配有标准装夹系统。
- 本设备与优化软件对接，降低了工人操作误差，也不需要水平很高的操作工，比起普通的双头锯操作劳动降低很多。
- 整机气电保护装置，机械防护装置，确保安全生产。
- 整个切割流程仅需单人操作，高效、简单、快捷。
- (标配) 打码机，手动贴码。
- (选配) 可自动打印标签，既能及时快捷的标注型材，也可为后继工序提供完善的解决方案。

Equipment Features

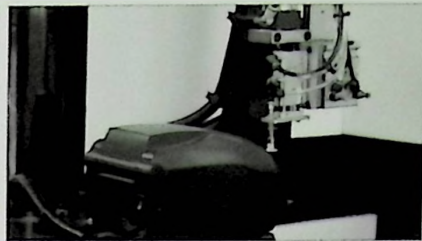
- The stable high-precision lathe bed, after aging treatment, has reasonable structural design and convenient operation.
- Adopt French Schneider control system, bring its own COM software programming, and have perfect window operation interface.
- Feeding and discharging system is fully servo controlled, fast and accurate, equipped with standard clamping system.
- The equipment interfaces with the optimization software, thus reducing the operation error of workers and eliminating the need for high-level operators, which is much lower than the operation labor of common double-head saws.
- Gas and electricity protection device and mechanical protection device of the whole machine ensure safe production.
- The whole cutting process needs only one person to operate, which is efficient, simple and fast.
- (standard) coding machine, manual coding.
- (Optional) Labels can be printed automatically, which not only can mark profiles in time and quickly, but also can provide perfect solutions for subsequent processes.



锯切单元
Sawing unit



精准送料单元
Accurate feeding unit



打印贴标单元
Label printing unit



技术参数
Technical Parameter

No.	项目	PROJECTS	KYLJ5-CNC-6500
01	电源电压	Power supply voltage	330V/50Hz
02	整机功率 / 锯切电机转速	Total power/Motor speed	18kW 3000r/min
03	工作气压	Operating pressure	0.6~0.8MPa
04	耗气量	Air consumption	200L/min
05	切割长度	Cutting length	260~6500mm
06	切割宽度 × 高度	Cutting width × height	45°145mm/ 90° 130mm×145mm
07	送料速度	Feeding speed	30~60m/min
08	送料返回速度	Feeding and return speed	80~120m/min
09	出料 / 抱料速度	Discharge/holding speed	80~90m/min
10	锯片升降速度	Saw blade vertical speed	3~5m/min
11	锯切角度	Sawing angle	45° 90°
12	锯片规格	Saw blade specification	Φ550×4.4×Φ30 Z=144
13	切割精度	Cutting accuracy	±0.2mm
14	切割角度误差	Cutting angle error	±5°
15	外形尺寸	Overall dimension	14000×3500×2400mm
16	整机重量	Weight	约 7900kg

铝塑门窗中挺加工中心

CNC Machining Center for Middle Profiles of Doors and Windows

KYJX2-CNC-6500

主要针对铝门窗中挺型材的深加工，一台机器同时完成型材的切断、铣榫工序，全数控系统控制，精度高，效率高。

Mainly aiming at the deep processing of aluminum door and window mullion profiles, one machine simultaneously completes the cutting and tenon milling processes of profiles, with full numerical control system control, high precision and high efficiency.



扫一扫 获取更多视频资料



设备特点

- 整机由上料段—加工段—出料端三部分组合而成。
- 上料段：一次可以上 8 只原材料（6 米 / 根）2 根型材为一组，通过两组机械手夹住 2 根型材同时送入切割段进行深加工。
- 加工段：型材进入加工区到所需位置以后切断锯片启动并且自动完成切断功能。切段完成后铣榫刀片会自动启动并且完成往复铣削功能，铣榫主轴安装组合刀片往复一次完成两头端面铣削，安装单刀片往复一次完成两头端面单槽铣削。如果型材带有加强筋机器会自动切割。
- 出料段：铣榫好的型材通过出料机械手拿出放入输送带自动传出。

Equipment Features

- The whole machine is composed of three parts: an upper feeding section, a processing section and a discharging end.
- Feeding section: 8 raw materials (6m/piece) and 2 profiles can be fed into one group at a time, and the 2 profiles are clamped by two groups of manipulators and fed into the cutting section for further processing.
- Processing section: after the profile enters the processing area to the required position, the cutting saw blade starts and automatically completes the cutting function. After the cutting is completed, the tenon milling blade will automatically start and finish the reciprocating milling function. The tenon milling spindle is installed with the combined blade to finish the milling of the two end faces in a reciprocating way, and the single blade is installed to finish the single groove milling of the two end faces in a reciprocating way. If the profile is provided with reinforcing ribs, the machine will cut it automatically.
- Discharging section: the section bar with milled tenon is taken out by the discharging manipulator, put into the conveying belt and automatically delivered.

铝型材铣锯复合加工中心

CNC Intelligent Saw Milling Machining Center for Aluminum Profile

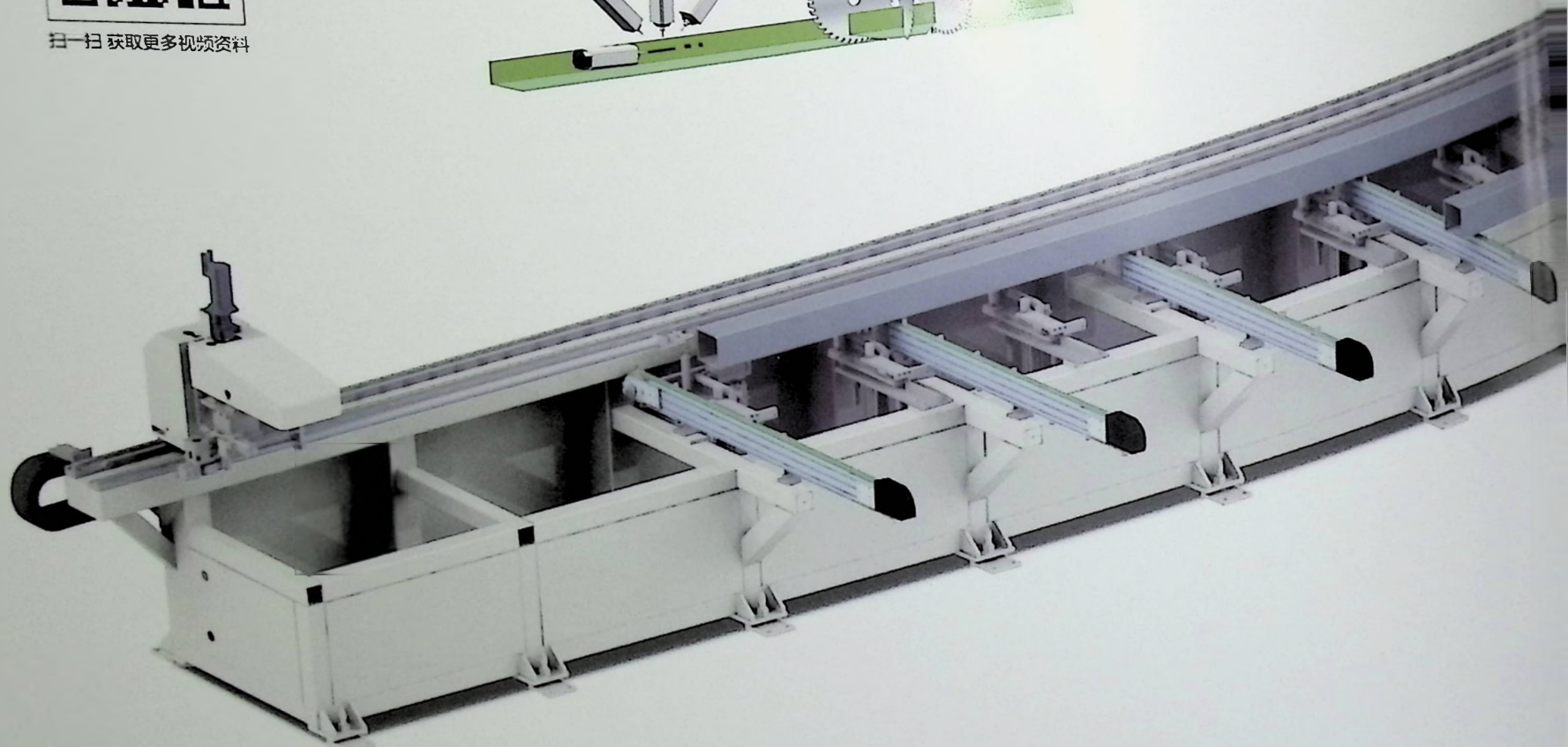
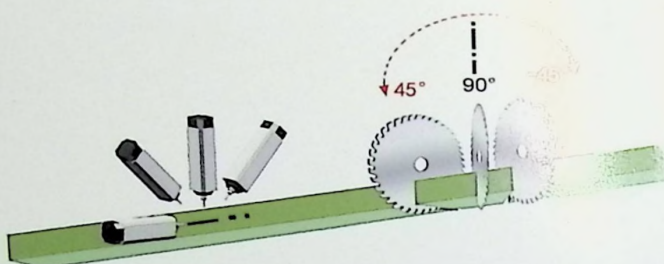
LKYXJ-CNC-6500

主要针对铝门窗型材钻孔、铣槽、锯切加工，可与我公司其它设备连线，组建成高效的数字化工厂。

Mainly for drilling, milling and sawing aluminum door and window profiles, which can be connected with other equipment of our company to form an efficient digital factory.



扫一扫 获取更多视频资料

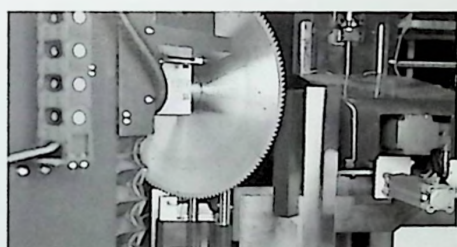


设备特点

- 该机是针对铝门窗型材钻孔、铣槽、锯切加工的专用设备，可在一次送料基础上，完成工件四面钻孔、铣槽加工及型材水平面内的45°/135°、90°锯切加工。
- 该机具有自动化、数字化、智能化等显著特点及性能可靠、操作简单、维保方便等诸多优势，是加工铝门窗型材的理想设备。
- 该机可与本公司锯切中心、锯铣中心、四头组角生产线、物流单元一起，组建成高效的数字化工厂/车间。

Equipment Features

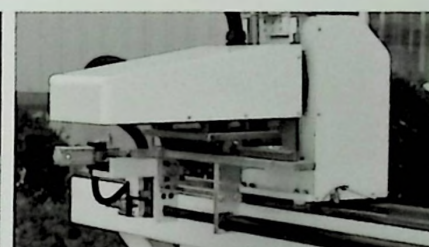
- This machine is a special equipment for drilling, milling and sawing aluminum door and window profiles. It can finish drilling, milling and sawing at 45°/135° and 90° in the horizontal plane of profiles on the basis of one-time feeding.
- This machine has obvious features such as automation, digitalization and intelligence, and many advantages such as reliable performance, simple operation and convenient maintenance, etc. It is an ideal equipment for processing aluminum door and window profiles.
- This machine can be built into an efficient digital factory/workshop together with the sawing center, sawing and milling center, four-head corner assembly production line and logistics unit of our company.



锯切单元
Sawing unit



铣削单元
Milling unit



精准送料单元
Accurate feeding unit

技术参数 Technical Parameter

No.	项目	PROJECTS	LKXJ-CNC-6500
01	电源电压	Power supply voltage	380V/50Hz
02	总功率	Total power	50kW
03	工作气压	Operating pressure	0.6-0.8MPa
04	钻铣电主轴功率	Drilling and milling spindle power	4.5kWx6
05	钻铣电主轴最高转速	Max. speed of drilling and milling spindle	18000r/min
06	锯切电主轴功率	Sawing spindle power	3.0kWx3
07	锯切电主轴转速	Rotating speed of sawing spindle	3000r/min
	加工行程	Machining stroke	
08	送料 X1/Y1/Z1-轴	Feeding X1/Y1/Z1-axis	8900mm/105mm/120mm
09	钻铣 X2/Y2/Z2-轴	Drilling and milling X2/Y2/Z2-axis	300mm/320mm/320mm
10	锯切 Z3-轴	Sawing Z3-axis	650mm
11	出料 X3-轴	Output X3-axis	1000mm
12	送料进给速度 X1-轴	The feeding speed X1-axis	120m/min
13	出料进给速度 X3-轴	Output feed speed X3-axis	90m/min
14	工件尺寸长 x 宽 x 高	Workpiece size	6500x140x150mm
15	润滑	Automatic lubrication system	自动润滑系统
16	冷却	Spray cooling	喷雾冷却
17	外形尺寸	Overall dimension	16000x6000x2500mm

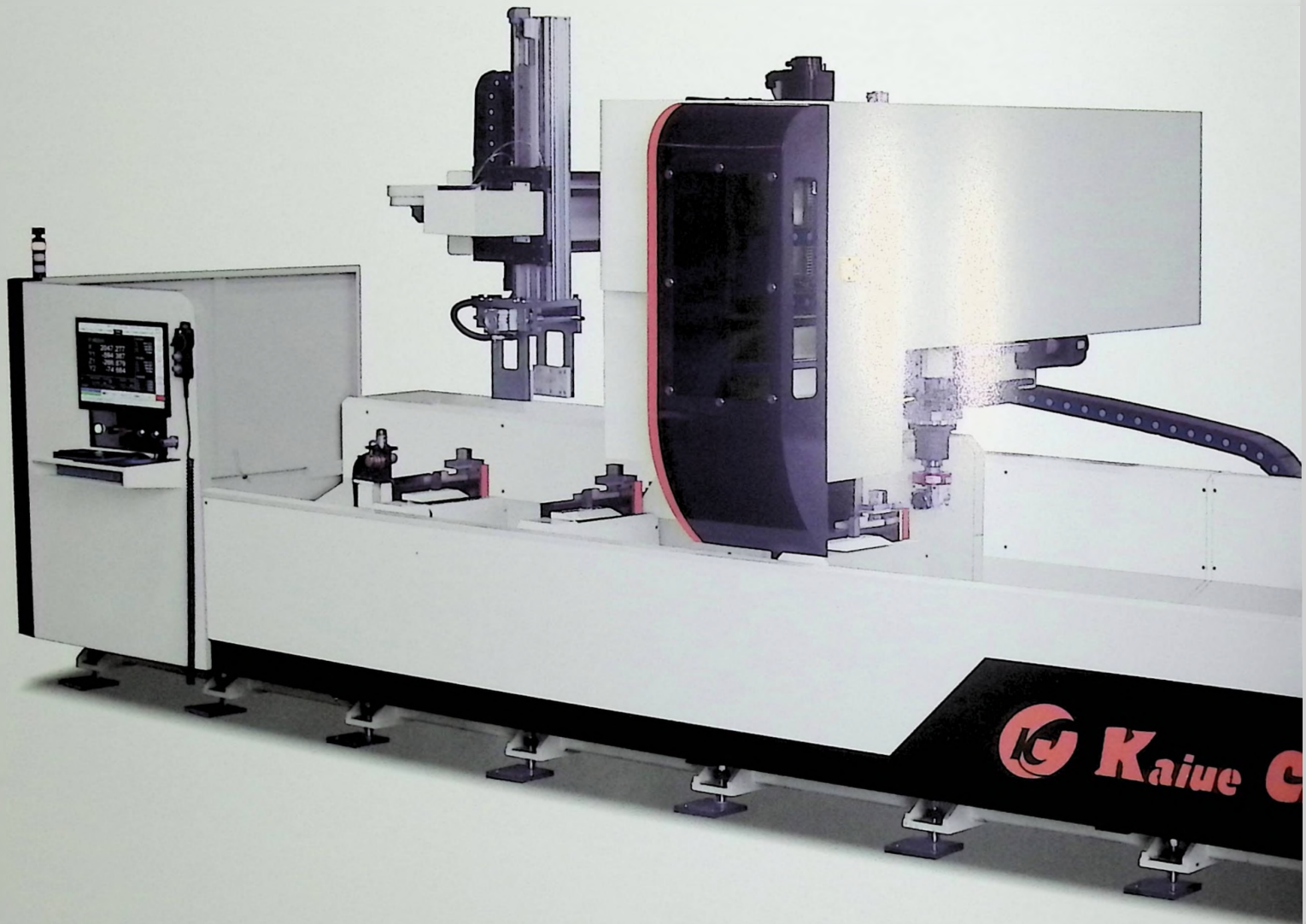
铝型材数控复合加工中心

CNC Composite Machining Center for Aluminum Profile

KYFHC-CNC-3600

适用于铝型材各类型孔、槽的高效精确铣削加工，一次夹装，可完成型材前、上、后三面的加工，配备激光划线集成装置，可实现工件前、上、后三个面的划线作业。

It is suitable for efficient and accurate milling of various types of holes and slots of aluminum profiles. It can finish the machining of the front, upper and rear faces of profiles by clamping at one time. Equipped with laser scribing integrated device, it can realize the scribing operation of the front, upper and rear faces of workpieces.

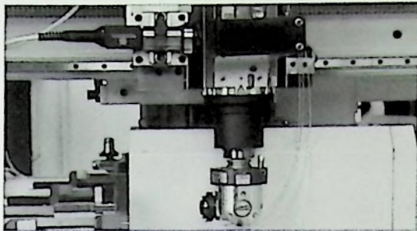


设备特点

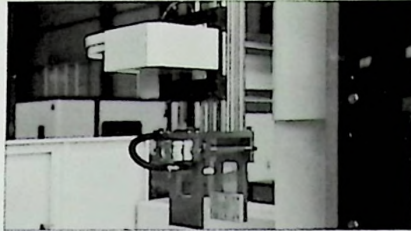
- 该加工中心采用单悬臂结构模式，主电机安装在滑板上，配合直角头可完成型材前、上、后三面的加工。
- 侧动力头组配备两套电主轴，加工型材后面孔系，避免了频繁换刀，极大提高了生产效率。
- 激光划线装置集成在主电机侧面，可实现工件前、上、后三个面的划线作业，一机多用，避免了工件的设备间转移，减少了设备投入、场地占用，既提升了生产效率，又极大地避免了设备、场地等的过度投资。
- 设备自带上下料夹爪，节省了关节机器人，解放了操作者，省时高效。
- 伺服夹具装置，从四面对工件进行包裹式定位夹紧，夹紧更牢固、加工精度更高，自动避让刀具，生产效率更高。

Equipment Features

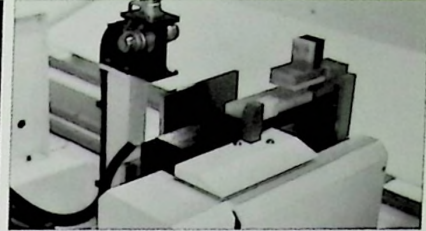
- The machining center adopts a single cantilever structure mode, and the main motor is installed on the sliding plate, and the front, upper and rear sides of the profile can be machined with the right angle head.
- The side power head unit is equipped with two sets of motorized spindles to process the hole system at the back of the profile, thus avoiding frequent tool change and greatly improving the production efficiency.
- The laser scribing device is integrated on the side of the main motor, which can realize scribing operations on the front, upper and rear surfaces of the workpiece. One machine is multi-purpose, which avoids the transfer between equipments of the workpiece, reduces equipment investment and site occupation, improves production efficiency, and greatly avoids excessive investment in equipment and site.
- The equipment is equipped with loading and unloading jaws, which saves joint robots, liberates operators, and saves time and efficiency.
- Servo fixture device, which can package and position and clamp the workpiece from four sides, has stronger clamping, higher machining accuracy, automatic tool avoidance and higher production efficiency.



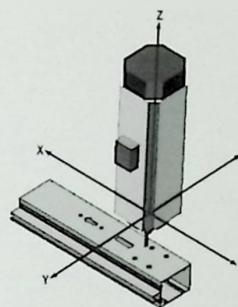
主轴 / 直角头
Main shaft/right angle head



自带上下料夹爪
Loading and unloading gripper



专业夹具
Professional fixture



选配机器人工作站
Matching Robot Workstation

LRA2100-60-6A-C



技术参数
Technical Parameter

No.	项目	PROJECTS	KYFHC-CNC-3600
01	电源电压	Power supply voltage	380V/50Hz
02	工作气压	Operating pressure	0.5~0.8MPa
03	耗气量	Air consumption	200L/min
04	刀库容量	Tool magazine capacity	5T
05	主电机	Main motor	8kW 24000r/min
06	侧电机	Side motor	2x3.5kW 18000r/min
07	激光头功率	Laser head power	20W
08	激光头工作角度	Working angle of laser head	-90°~0°~90°
09	工件长度	Workpiece length	550~3600mm
10	工件截面 (宽 × 高)	Section of workpiece (widthx height)	140x150mm
11	工作台高度	Table height	850mm
12	X轴全行程定位精度	X-axis full stroke positioning accuracy	±0.1mm
13	X/Y/Z 轴行程	X/Y/Z axis travel	X 4000mm/Y 1200mm/Z 340mm
14	伺服夹具数量	Servo fixture number	4
15	外形尺寸	Overall dimension	7200x2650x2500mm

铝型材数控高速加工中心

CNC High-speed Processing Center for Aluminum Profile

KYGMC-3600

主要用于铝型材各类型孔、槽的高效精确铣削加工，可衔接 MES 制造执行系统，可组建智能化生产连线。

It is mainly used for efficient and accurate milling of various types of holes and slots of aluminum profiles. It can be connected with MES manufacturing execution system and set up intelligent production line.

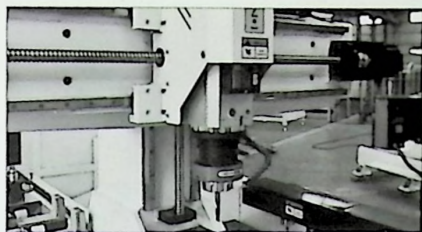


设备特点

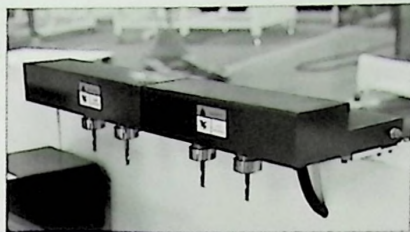
- 该机主要由底座、移动工作台、立柱、横梁、刀具系统、控制系统、外围防护等部分组成。
- 立柱、横梁中置式的布局形式，底座导轨阶梯式分布结构，使得立柱横梁运动体更接近于重心驱动的理想方式，振动更小，运行更为平稳，加工精度更高。
- 移动工作台采用高牌号铸铁制成，并经时效处理，精度稳定可靠。
- 双出直角头 + 直柄铣刀的组合，极其简单的实现了工件的三面加工，避免了低刚度回转工作台的扭曲、加工振动问题，大大提高了加工效率，提升了刀具的使用寿命，降低了生产管理成本。
- 多刀位的固定式直排刀库，可保障设备最大化的自动运行复杂程序，减少刀具管理及人工干预。
- 可与机器人配合，组建无人化生产单元。
- 可衔接 MES 制造执行系统，与锯切中心、数控冲床、物流系统一起，组建高效的数字化工厂 / 车间，打造智能化生产连线。

Equipment Features

- The machine is mainly composed of base, movable worktable, upright post, cross beam, cutting tool system, control system and peripheral protection.
- The layout of the column and beam in the middle, and the stepped distribution structure of the base guide rail make the moving body of the column and beam closer to the ideal mode driven by the center of gravity, with smaller vibration, more stable operation and higher machining accuracy.
- The movable worktable is made of high-grade cast iron and has been aged, with stable and reliable precision.
- The combination of double-output right-angle head and straight-shank milling cutter can realize the three-side machining of the workpiece very simply, avoid the distortion and machining vibration of the rotary table with low rigidity, greatly improve the machining efficiency, prolong the service life of the cutter and reduce the production management cost.
- The fixed straight-line tool magazine with multiple tool positions can ensure the automatic operation of complex programs to the maximum extent, and reduce tool management and manual intervention.
- It can cooperate with robots to form unmanned production units.
- It can be connected with MES manufacturing execution system, and together with sawing center, CNC punch press and logistics system, it can set up an efficient digital factory/workshop to create intelligent production connection.



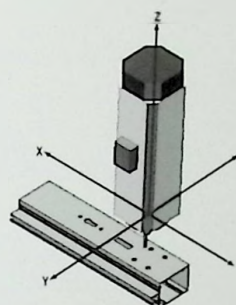
高精度主轴
High precision spindle



直排刀具库
Straight-row tool magazine

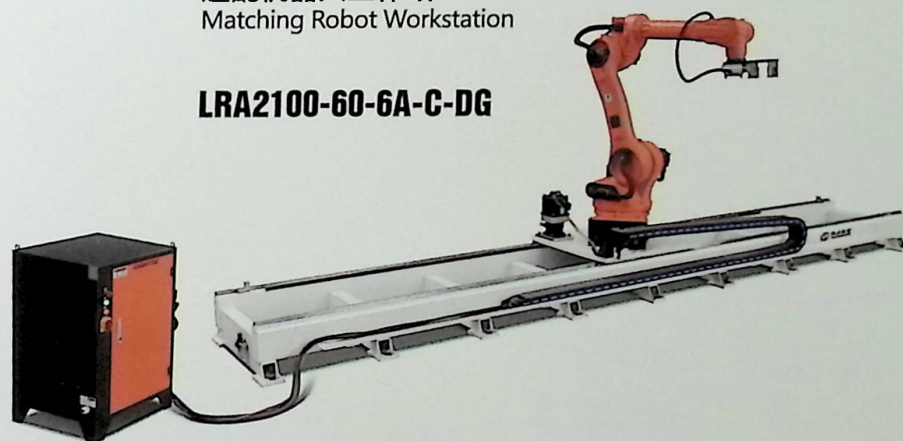


移动工作台
Moving workbench



选配机器人工作站
Matching Robot Workstation

LRA2100-60-6A-C-DG



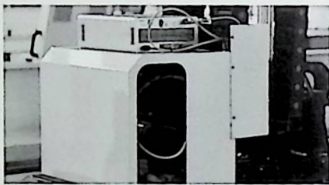
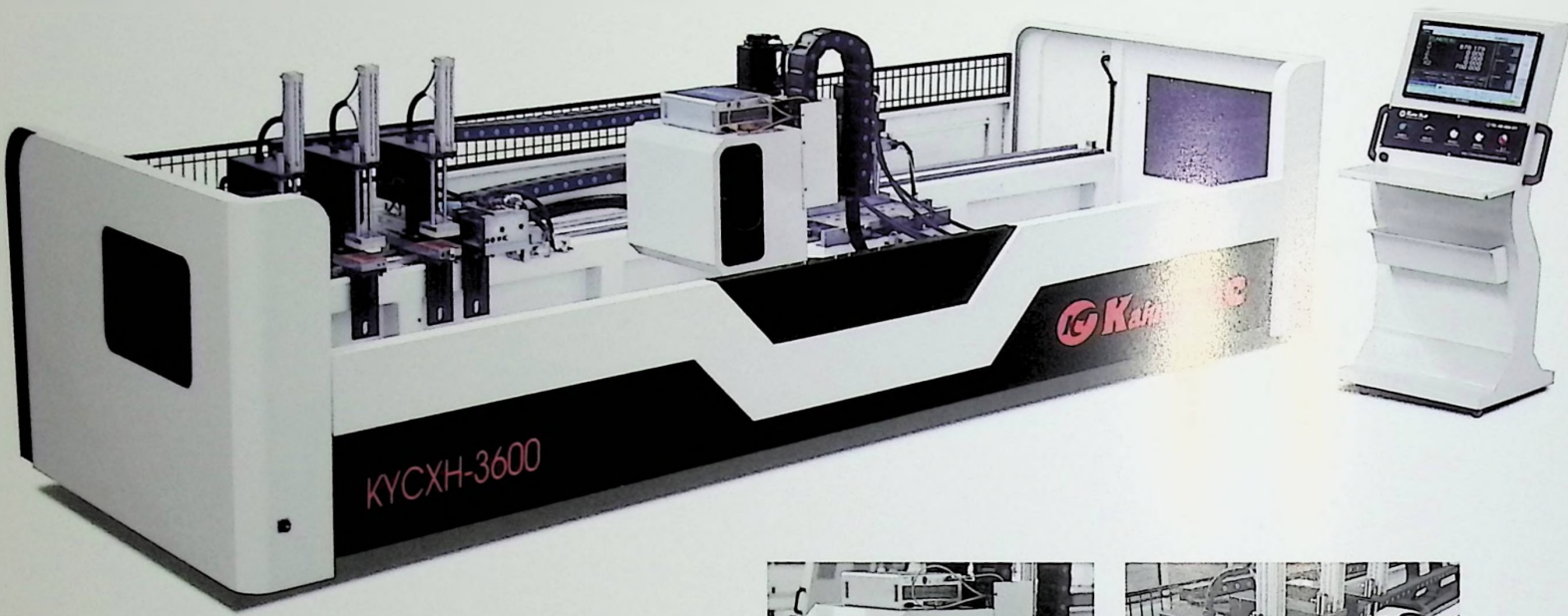
技术参数
Technical Parameter

No.	项目	PROJECTS	KYGMC-3600
01	电源电压	Power supply voltage	380V/50Hz
02	主电机功率	Main motor power	9.0kW
03	工作气压	Operating pressure	0.5~0.8MPa
04	耗气量	Air consumption	200L/min
05	进给轴参数 X 轴	Feed shaft parameter X-axis	3600mm
06	Y 轴	Y-axis	870mm
07	Z 轴	Z-axis	340mm
08	运行速度 X 轴	Operating speed X-axis	80m/min
09	Y 轴	Y-axis	30m/min
10	Z 轴	Z-axis	20m/min
11	刀库	Tool magazine	排式刀库 Row tool magazine (5T)
12	最大工件尺寸	Max. workpiece size	3600x150x150mm
13	最小工件尺寸	Min. workpiece size	420x30x30mm
14	外形尺寸	Overall dimension	6750x1600x2200mm
15	整机功率	Whole machine power	16kW

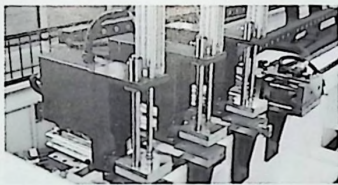
铝型材数控冲铣中心
CNC Punching and Milling Center for Aluminum Profile

KYCXH-3600

适用于铝合金门窗型材的执手孔、漏水孔、安装孔、注胶孔的冲、钻、铣加工及激光划线定位。
It is suitable for punching, drilling, milling and laser scribing positioning of handle holes, water leakage holes, installation holes and glue injection holes of aluminum alloy door and window profiles.



激光划线定位单元
laser scribing positioning unit



压紧单元
Compaction unit

设备特点

- 电主轴、冲具、激光头均采用伺服进给 + 气动换位模式，简单可靠，调整维护方便。
- 多工艺集成，一次上下料可完成多种工艺内容的加工，避免设备间转换，极大提高生产效率、减少辅助时间、减小场地占用，避免过度投资。
- 数控化、网络化运行模式，特别适用于品种多、批量大、工件更换频繁的场所使用。
- 人工、关节机器人上下料模式灵活切换，可与锯切中心、加工中心等设备组建成高效的数字化加工车间或智能制造单元。

Equipment Features

- Electric spindle, punch and laser head all adopt servo feed+pneumatic transposition mode, which is simple, reliable and convenient to adjust and maintain.
- Multi-process integration, one-time loading and unloading can complete the processing of various process contents, avoiding the conversion between equipments, greatly improving production efficiency, reducing auxiliary time, reducing site occupation and avoiding over-investment.
- Numerical control and network operation mode, especially suitable for occasions with many varieties, large quantities and frequent workpiece replacement.
- Manual and articulated robots can flexibly switch the loading and unloading modes, and can be combined with sawing centers, machining centers and other equipment to form an efficient digital machining workshop or intelligent manufacturing unit.

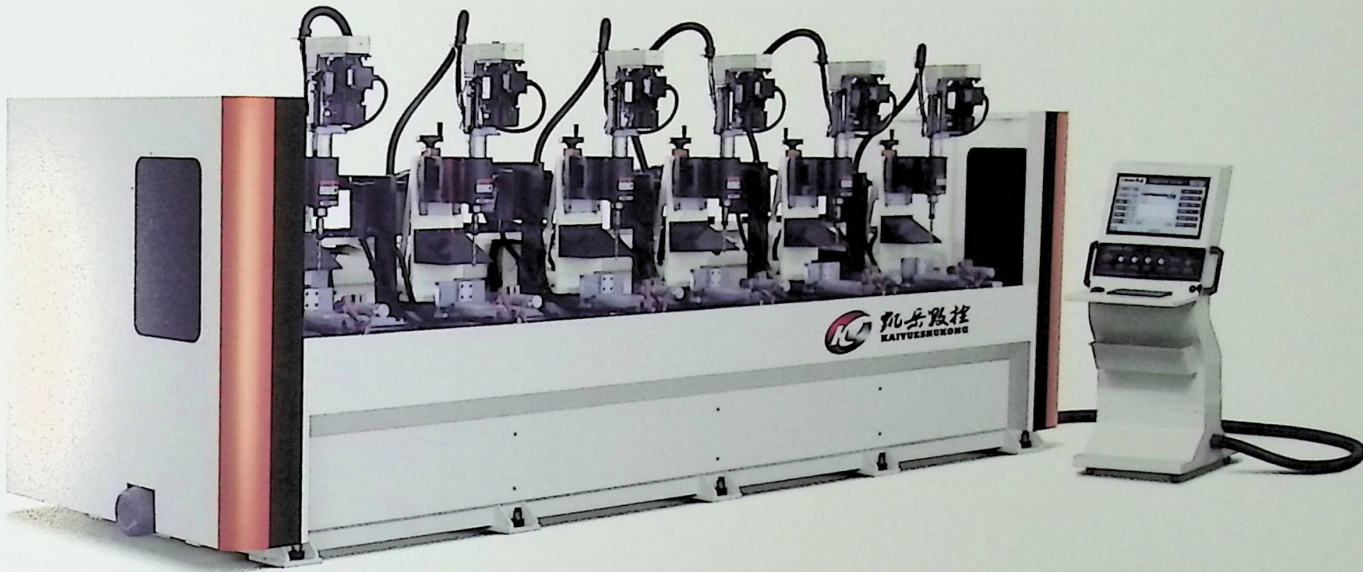
技术参数
Technical Parameter

No.	项目	PROJECTS	KYCXH-3600
01	电源电压 / 总功率	Power supply voltage / Total power	380V/50Hz 18kW
02	工作气压 / 耗气量	Operating pressure / Air consumption	0.5~0.8MPa 120L/min
03	电主轴数量	Number of motorized spindles	2
04	伺服轴数量	Number of servo shafts	4
05	冲具数量	Number of punching tools	4
06	X/Y/Z/Y1 轴行程	X/Y/Z/Y1 axis travel	3600mm/100mm/340mm/100mm
07	冲孔工件最大长度	Max. length of punched workpiece	3600mm
08	钻铣工件最大长度	Max. length of milling workpiece	2850mm
09	划线工件最大长度	Max. length of scribing workpiece	2700mm
10	最大工件截面	Max. workpiece section	150x150mm
11	外形尺寸	Overall dimension	5500x1650x1600mm

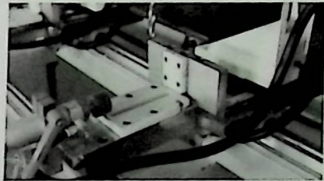
铝型材多头数控钻床
CNC Multi-head Drilling Machine for Aluminum Profile

KYSKZ-3600

适用于铝型材的钻孔，可配套机器人上下料，也可与其它设备组建成高效的数字化加工车间或制造单元。
It is suitable for drilling aluminum profiles, can be matched with robot loading and unloading, and can also be combined with other equipment to form an efficient digital processing workshop or manufacturing unit.



组合动力头
Combined power head



创新型工作台
Innovative workbench

- 设备特点
- 主电机采用气动进给头形式，简单可靠，调整维护方便。
 - 六组动力头 X、Y 轴位置，均由数控轴驱动到位并锁止，参数化设置，一键完成，避免了人工频繁调整动力头位置的弊端，极大地提高了生产效率。
 - 特别适用于品种多、批量大、工件更换频繁的场所使用。
 - 可采用人工或关节机器人上下料模式，与锯切中心、加工中心、数控冲床等设备组建成高效的数字化加工车间或制造单元。

- Equipment Features
- The main motor is in the form of pneumatic feed head, which is simple, reliable and convenient for adjustment and maintenance.
 - The x-axis and y-axis positions of the six groups of power heads are driven in place and locked by the numerical control shaft, and are set parametrically and completed by one key, thus avoiding the disadvantage of manual frequent adjustment of power head positions and greatly improving the production efficiency.
 - It is especially suitable for occasions with many varieties, large batches and frequent workpiece replacement.
 - It can adopt manual or articulated robot loading and unloading mode, and form an efficient digital processing workshop or manufacturing unit with sawing center, machining center, numerical control punch press and other equipment.

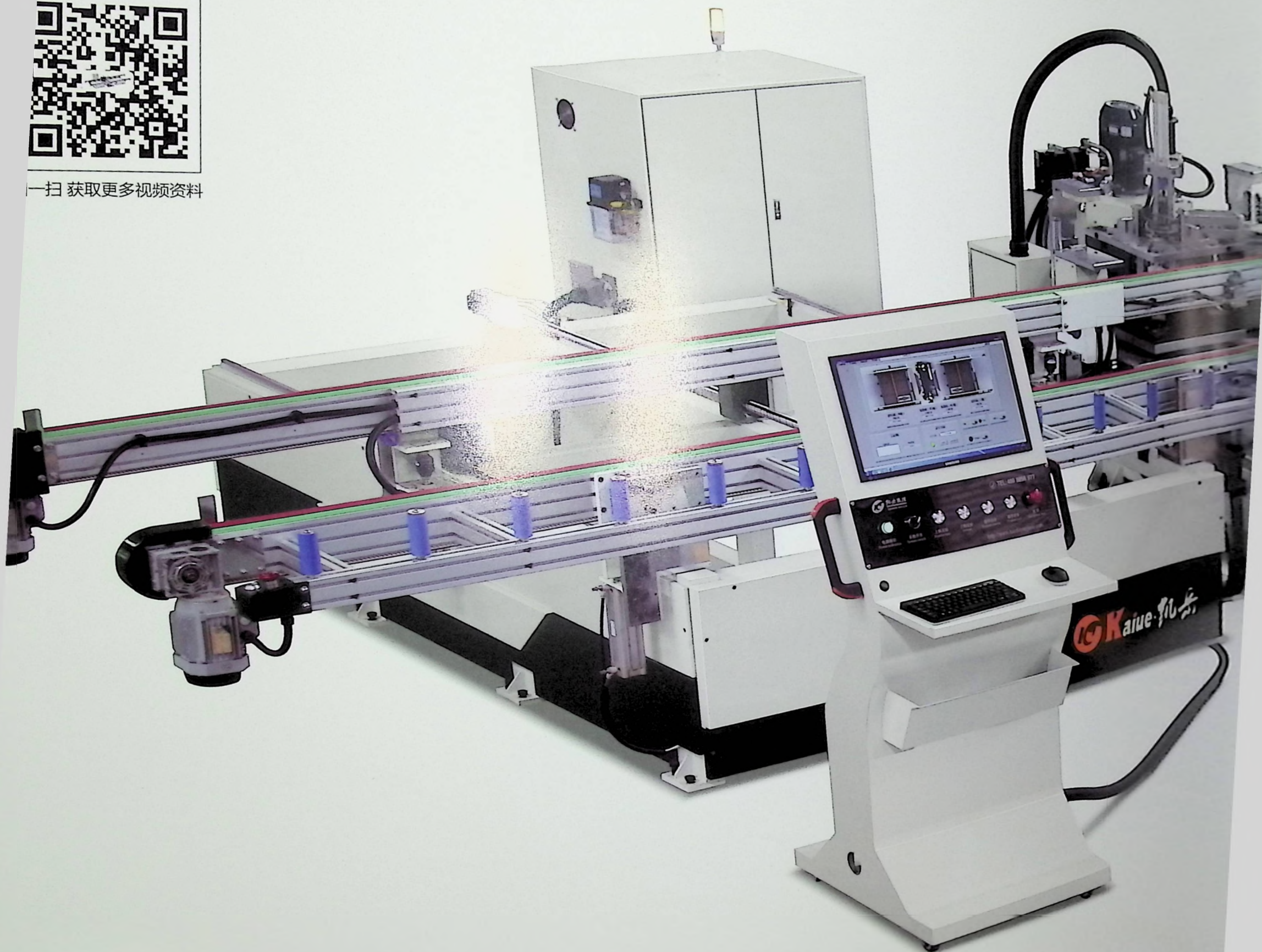
技术参数 Technical Parameter	No.	项目	PROJECTS	KYSKZ-3600
	01	电源电压	Power supply voltage	380V/50Hz
	02	输入功率	Input power	6.5KW
	03	电机转速	Motor speed	1400r/min
	04	工作气压	Operating pressure	0.5~0.8MPa
	05	耗气量	Air consumption	120L/min
	06	最大钻孔直径	Max. drilling diameter	Φ13mm
	07	最大工件长度	Max. workpiece length	3600mm
	08	最大工件截面	Max. workpiece section	150x150mm
	09	动力头最小间距	Min. distance between power heads	300mm
	10	X/Y 轴行程	X/Y axis travel	3400mm/150mm
	11	外形尺寸	Overall dimension	5500x1500x1900mm

100 × 2400 × 3600

要用于铝门窗四个角的组角工序，可与锯切中心、锯铣中心、冲铣生产线、物流单元一起，组建成高效的数字化工厂。
used in the corner assembly process of four corners of aluminum doors and windows, and can be built into an efficient digital factory
together with sawing center, sawing and milling center, punching and milling production line and logistics unit.

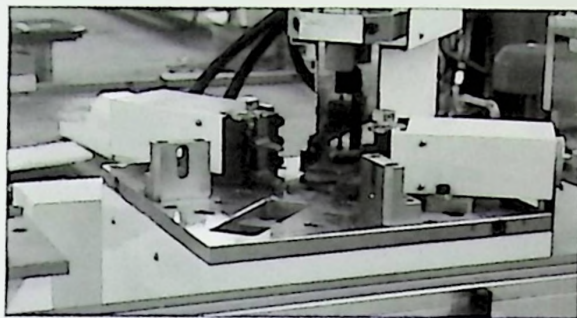


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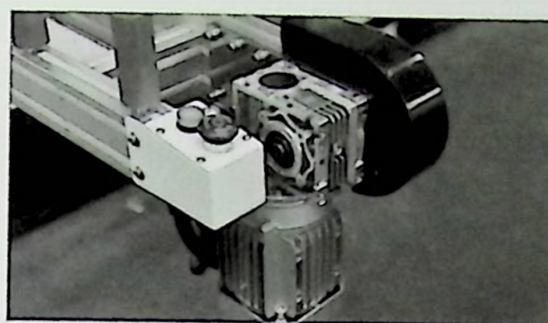


设备特点

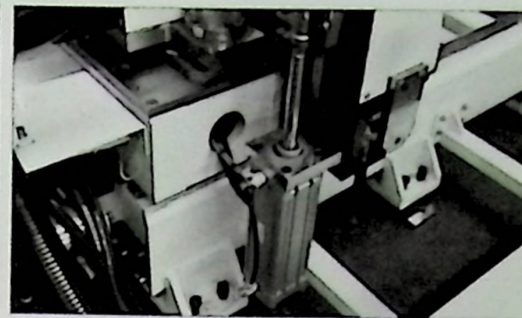
- 适用于铝门窗边框的四角两两自动组角加工。
- 比国内外同类的组角设备具有更大的组角范围优势，可基本满足国内外门窗厂家的铝门窗边框的组角需求。
- 生产线由上料单元、组角单元、落料单元三个部分组成，通过控制系统，可实现高效稳定的流水线作业模式。
- 创新的转角组框模式、伺服控制技术、液压同步控制技术，确保铝门窗组角工序的高精度、高品质。
- 参数化编程设计，使整个操作过程简洁明了，操作人员掌握容易，维护方便。
- 控制系统、直线导轨、滚珠丝杠、电器元件、液压元件等关键配套件，均采用国内外知名品牌，运行平稳可靠。



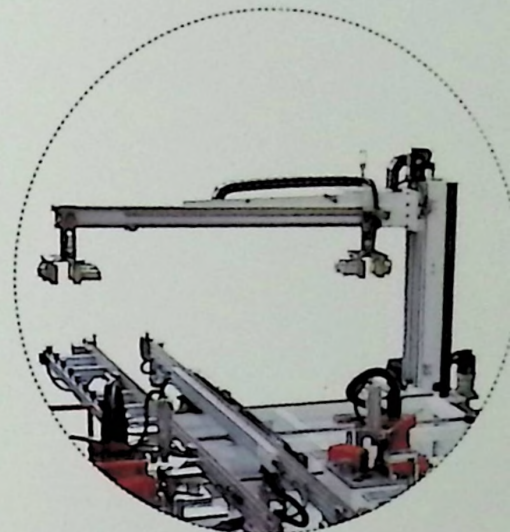
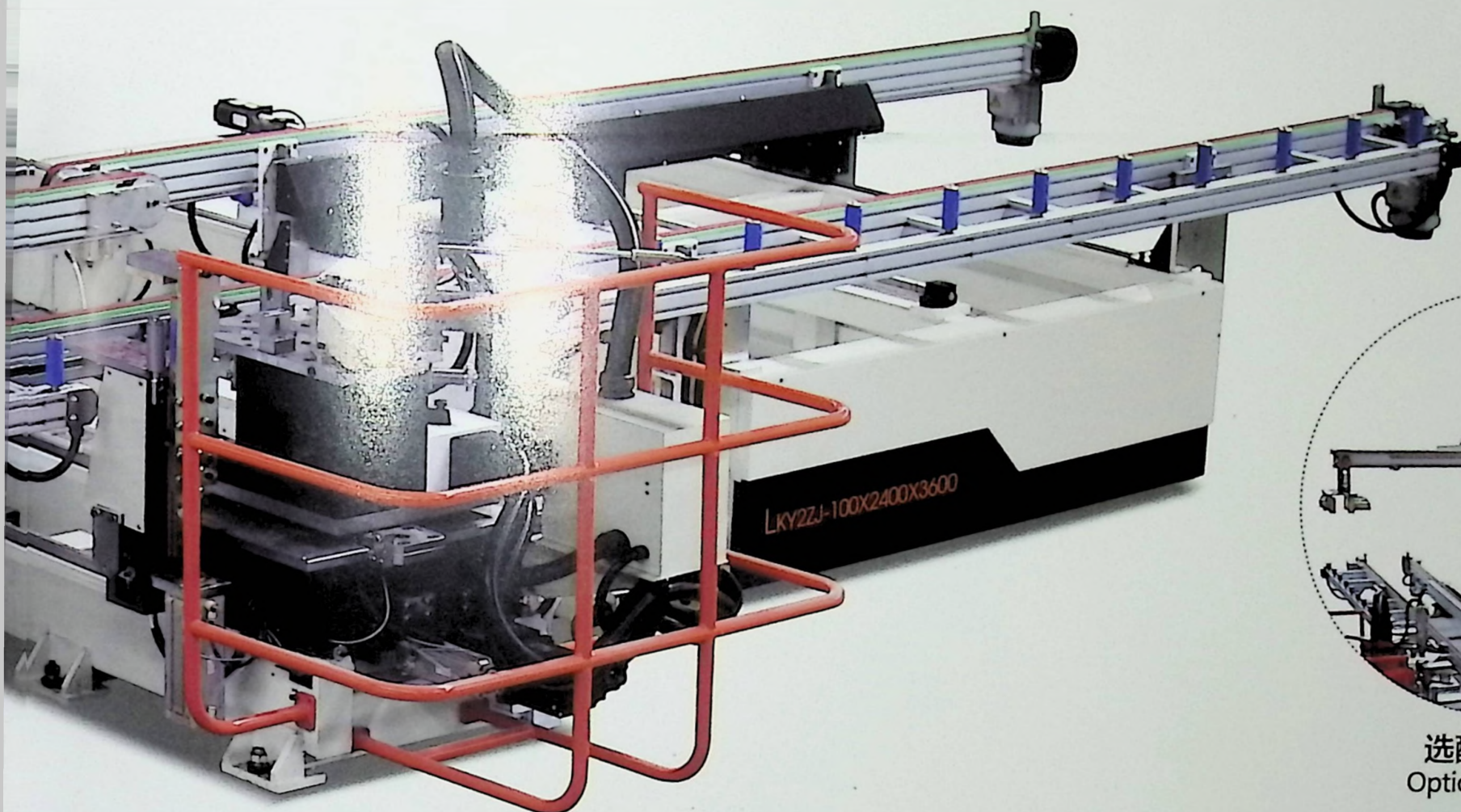
多位组角单元
Corner combining unit



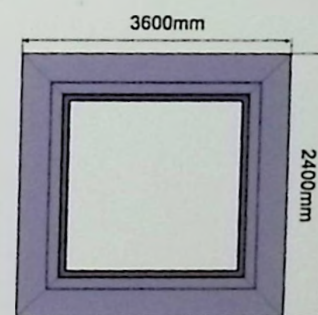
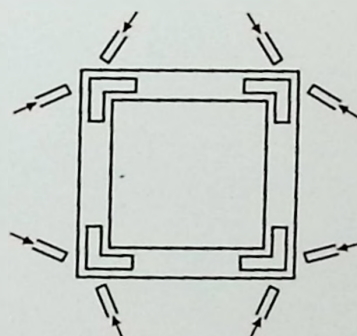
输送减速电机
Conveying deceleration motor



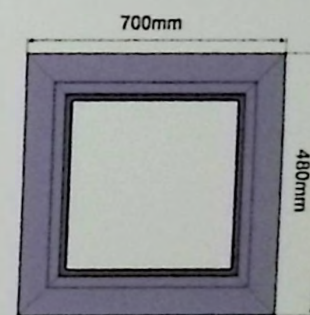
精准升降装置
Accurate lifting device



选配码垛机
Optional Stacker



组框最大尺寸
Max. from dimension



组框最小尺寸
Min. from dimension

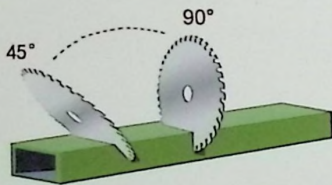
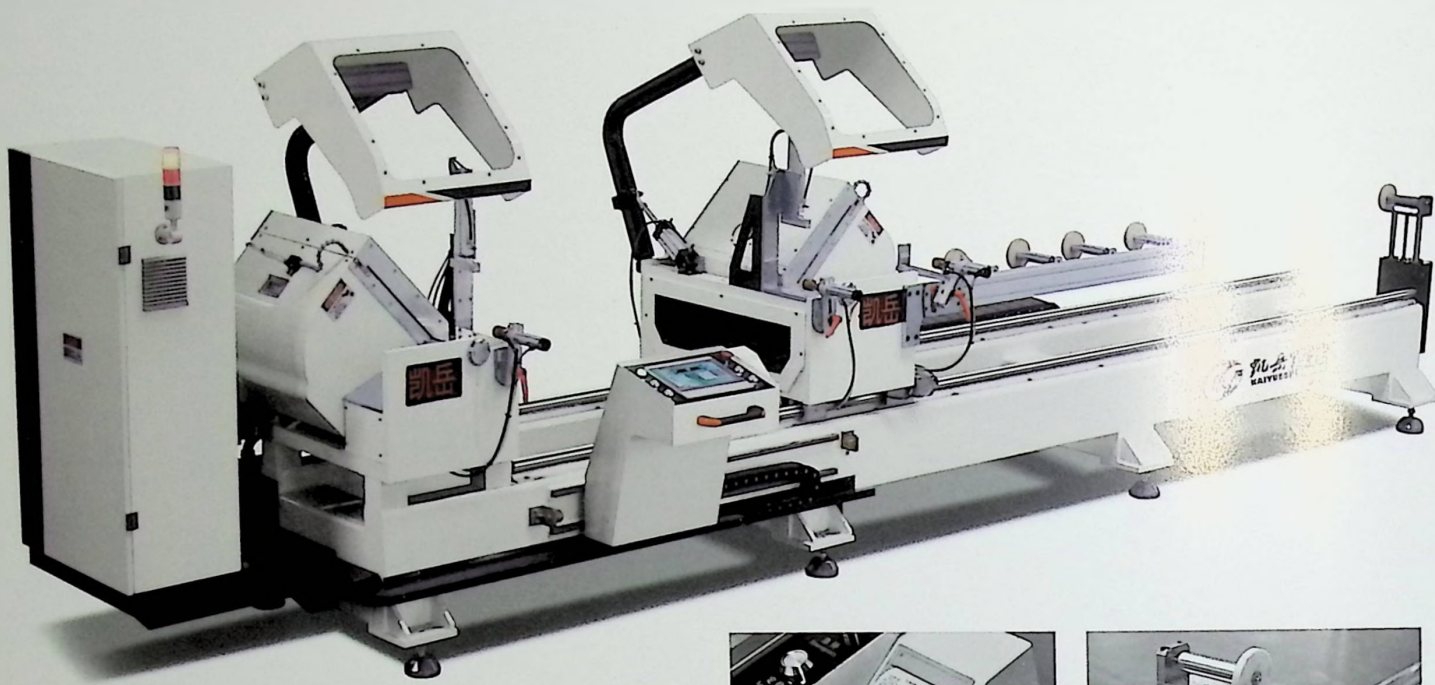
技术参数 Technical Parameter

No.	项目	PROJECTS	LKY2ZJ-100×2400×3600
01	电源电压	Power supply voltage	380V/50Hz
02	总功率	Total power	11kW
03	液压系统额定压力	Rated pressure of hydraulic system	16MPa
04	工作气压	Operating pressure	0.5~0.8MPa
05	最大组角高度	Max. group angle height	100mm
06	最大组框范围	Max. frame range	2400×3600mm
07	最小组框范围	Min. box range	700×480mm

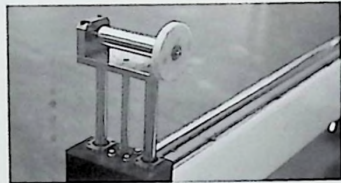
铝型材数控双头切割锯
CNC Double-head Cutting Saw for Aluminum Profile

LJZ2-CNC-500-4450

适用于铝型材高品质 45°、90° 角切割，配备打标机，自动打标、人工贴标，便于生产智能化管理。
Suitable for high-quality 45° and 90° angle cutting of aluminum profiles, equipped with marking machine, automatic marking and manual labeling, which is convenient for intelligent production management.



自动打标装置
Automatic marking device



气缸升降托料架
Lifting material support

设备特点

- 左右箱体、滑座、滑板均采用高标号铸铁制成，并经热处理去除应力，精度稳定、吸震性好。
- 活动机头采用大规格圆导轨导向，齿轮齿条传动形式，承载力大，精度保持性好。
- 电机直联锯片方式，气缸驱动 + 气液阻尼模式，确保进给平稳，切割质量好。
- 固定式托料座，气缸驱动升降，长短料均可得到有效托举；随动型材托料架，固定于活动机头右侧，结构简洁，避免长工件下垂；两者结合使用，提高了工件的切割精度。

Equipment Features

- The left and right box bodies, sliding seats and sliding plates are all made of high-grade cast iron, and stress is removed by thermal aging, which has stable precision and good shock absorption.
- The movable nose is guided by large-size circular guide rail and driven by gear and rack, which has high bearing capacity and good accuracy retention.
- The motor is directly connected with the saw blade, and the cylinder drive+gas-liquid damping mode ensures stable feeding and good cutting quality.
- Fixed material support seat, driven by air cylinder, long and short materials can be effectively lifted; Follow-up material rack, fixed on the right side of the movable machine head, with simple structure, to avoid long workpieces from sagging; The combination of the two methods improves the cutting accuracy of the workpiece.

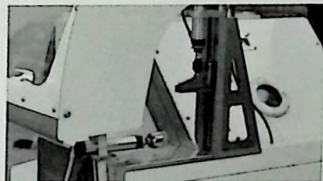
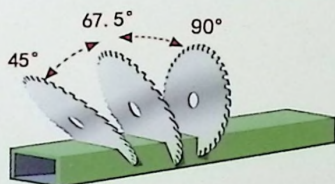
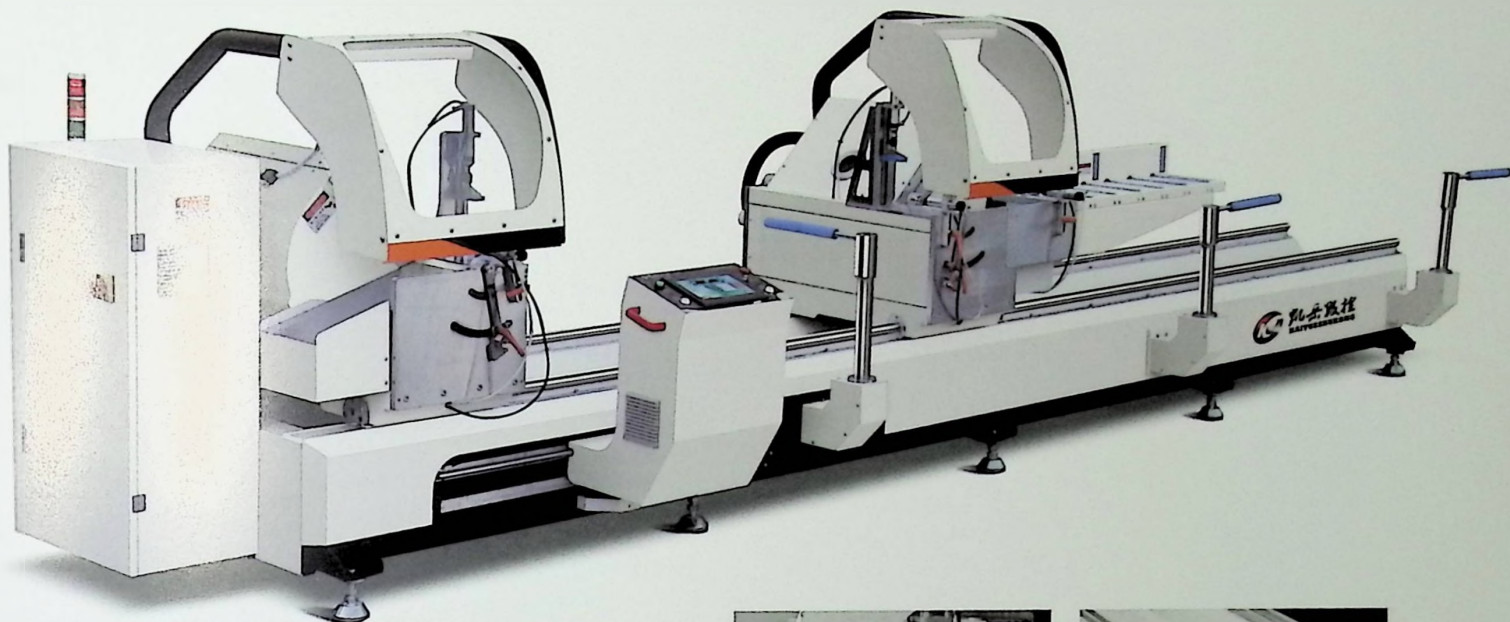
技术参数
Technical Parameter

No.	项目	PROJECTS	LJZ2-CNC-500-4450
01	电源电压	Power supply voltage	380V/50Hz
02	输入功率	Input power	7.5kW
03	电机转速	Motor speed	2800r/min
04	工作气压	Operating pressure	0.5-0.8MPa
05	耗气量	Air consumption	120L/min
06	切割长度	Cutting length	360-4450mm
07	切割宽度	Cutting width	45° 150mm 90° 150mm
08	切割高度	Cutting height	45° 155mm 90° 220mm
09	锯切角度	Sawing angle	45° 90°
10	锯片规格	Saw blade specification	Φ500×4.4×Φ30 Z=120
11	外形尺寸	Overall dimension	7500×1650×1800mm

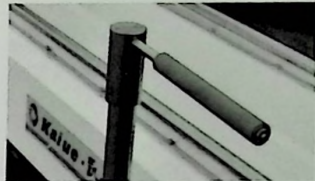
铝型材曲线数控切割锯
CNC Curve Double-head Cutting Saw for Aluminum Profile

LMCE-CNC-550

适用于铝型材高品质切割，移动机头自动定位和摆角，气动旋转锯切 45°、67.5°、90° 角度切割。
High-quality cutting equipment for aluminum door and window profiles, automatic positioning and swing angle of moving machine head, pneumatic rotary sawing at 45°, 67.5° and 90°.



气动压钳
Pneumatic clamp



旋转料架
Rotating rack

设备特点

- 传动方式采用德国软传技术；Elgo 数控反馈系统，从而生产了闭环监测；定位速度快，精确。
- 本机实现曲线切割，极大的保护了锯片提高了切割精度。
- 此设备带有安全气压监测功能，压力不足时机器会停止运行并且给与提示。

Equipment Features

- The transmission mode adopts German soft transmission technology. Elgo CNC feedback system, thus producing closed-loop monitoring. The positioning speed is fast and accurate.
- This machine realizes curve cutting, which greatly protects the saw blade and improves the cutting precision.
- This equipment is equipped with safety air pressure monitoring function. When the pressure is insufficient, the machine will stop running and give a prompt.

技术参数
Technical Parameter



扫一扫 获取更多视频资料

No.	项目	PROJECTS	LMCE-CNC-550
01	电源电压	Power supply voltage	380V/50Hz
02	输入功率	Input power	6.85kW
03	电机转速	Motor speed	2800r/min
04	工作气压	Operating pressure	0.5-0.8MPa
05	耗气量	Air consumption	200L/min
06	切割长度	Cutting length	340-5000mm
07	切割宽度	Cutting width	170mm
08	切割高度	Cutting height	370mm
09	锯切角度	Sawing angle	45° 90° 67.5°
10	锯片规格	Saw blade specification	Ø550x4.4xØ30 Z=144
11	外形尺寸	Overall dimension	6500x1100x1700mm

铝型材高速数控加工中心
CNC High-speed Processing Center for Aluminum Profile

LGSZ5-CNC-4000

适用于铝型材的圆孔、槽孔、锁孔、异型孔等以及铝型材的铣削、倒角、平面雕刻等工序的加工。
This machine is designed for processing round holes, slots, keyhole etc on aluminum profile, window-door and curtain wall industry, it is also suitable for processing milling, chamfering,engraving plane surface and other procedure.



设备特点

- 床身采用厚重方管焊接工艺。
- 床身经过时效处理，抗变形稳定构件精度增强加工稳定性。
- 机身经过母机加工修正母线，提高机床精度。
- 各精密结构件均采用 CNC 加工中心加工，保证高精度。
- 移动机构均采用进口高精度直线导轨和精研级高精度滚珠丝杠。

Equipment Features

- The lathe bed adopts heavy square pipe welding process.
- After aging treatment, the lathe bed can improve the machining stability by stabilizing the precision of deformation resistant components.
- The machine body is processed by the mother machine to correct the bus bar and improve the precision of the machine tool.
- All precision structural parts are machined by CNC machining center to ensure high precision.
- The moving mechanism adopts imported high-precision linear guide rail and precision grinding high-precision ball screw.

铸铁工作台
Cast iron workbench



激光扫码装置
Laser code scanning device

技术参数
Technical Parameter



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No.	项目	PROJECTS	LGSZ5-CNC-4000
01	电源电压	Power supply voltage	380V/50Hz
02	输入功率	Input power	13kW
03	工作气压	Operating pressure	0.6~0.8MPa
04	X/Y/Z 轴行程	X/Y/Z-axis travel	4000mm/400mm/400mm
05	X 轴运行速度	X-axis speed	0~60m/min
06	Y 轴运行速度	Y-axis speed	0~30m/min
07	Z 轴运行速度	Z-axis speed	0~15m/min
08	主轴转速 / 功率	Main axis rev/power	24000rpm/9kW
09	工作台工作位置	Worktable work position	-90° 0° +90°
10	加工尺寸范围	Processing size	3200/380/380mm
11	外形尺寸	Overall dimension	5200×2000×1800mm

铝型材数控铣棒机
CNC Tenon Milling Machine for Aluminum Profile

KYC6Z-CNC-350

适用于铝型材的多数量、多批次的成型加工，数控系统控制，可同时完成多根型材的端面加工。
It is used for multi-quantity and multi-batch forming processing of aluminum profiles, controlled by numerical control system, and can finish the end face processing of multiple profiles at the same time.



设备特点

- 该机用于各种铝门窗型材的端面加工。
- 可以同时完成多根型材的端面加工，提高生产效率。
- 刀具可伺服自动上下前后调整，适用于不同型材的端面。
- 其中一刀可以在伺服电机驱动下完成 $0^{\circ} \sim \pm 45^{\circ}$ 之间的调整。
- 不必订制刀具，从而缩短生产准备周期和降低成本刀具直径大，切割精度高。

主轴铣刀
Spindle milling cutter

Equipment Features

- This machine is used for end face processing of various aluminum door and window profiles.
- End face processing of multiple profiles can be completed simultaneously. Improve production efficiency.
- The cutting tool can be automatically adjusted up and down, back and forth by servo, and is suitable for the end faces of different profiles.
- One of the knives can be adjusted between $0^{\circ} \sim \pm 45^{\circ}$ under the drive of servo motor.
- It is not necessary to order the cutter, thus shortening the production preparation period and reducing the cost. The cutter has large diameter and high cutting accuracy.



铸铁双压钳结构
Double press pliers structure

技术参数
Technical Parameter



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No.	项目	PROJECTS	KYC6Z-CNC-350
01	电源电压	Power supply voltage	380V/50Hz
02	主电机功率	Main motor power	3.0kWx2
03	电机转速	Motor speed	3000r/min
04	工作气压	Operating pressure	0.5~0.8MPa
05	耗气量	Air consumption	150L/min
06	工作台进给行程	Table feed stroke	0~1600mm
07	切割宽度 × 高度	Cutting widthx height	80x350mm
08	铣刀直径	Milling cutter diameter	Φ350mm/Φ400mm
09	工作台宽度	Table width	700mm
10	伺服电机功率	Servo motor power	0.75kWx3+1.1kWx3
11	外形尺寸	Overall dimension	4000x2200x2400mm

铝门窗智能组角机

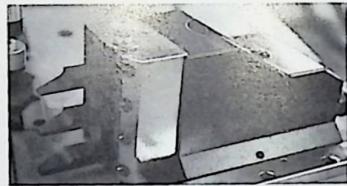
Intelligent Corner Combining Machine for Aluminium Doors and Windows

LKYZ-160

主要用于角码结构的平开门、铝门窗 90° 接缝的挤压连接，适应型材高度 160mm，数控系统控制。
It is used for extrusion connection of 90° joints of flat doors and aluminum doors and windows with angle structure, suitable for profile height of 160mm and controlled by numerical control system.



数控操作屏
CNC operation screen



多位组角刀
Multi-position corner cutter

设备特点

- 数控操作屏。
- 组角前，在两个被联接的型材腔内放一公用角码，定位夹紧后，两个液压驱动的冲头强力冲向角码的凹槽处，使型材外壁产生永久性的冷变形。
- 内定位系统更智能，可升降平移，自动化程度更高，适合于制作大尺寸门窗。
- 采用全新的组角刀更换系统，便于组角刀的快速取放，缩短换刀时间。
- 组角刀距离加工型材的位置可任意调整，使组角过程中组角刀的位移变小，缩短组角。

Equipment Features

- CNC operation screen.
- Before corner assembly, a common corner code is placed in the two connected profile cavities. After positioning and clamping, the two hydraulically driven punches strongly rush to the groove of the corner code, resulting in permanent cold deformation of the outer wall of the profile.
- The internal positioning system is more intelligent, can move up and down, has a higher degree of automation, and is suitable for manufacturing large-sized doors and windows.
- A brand-new angle cutter replacement system is adopted to facilitate quick taking and placing of angle cutters and shorten cutter replacement time.
- The distance between the corner cutter and the processed profile can be adjusted arbitrarily to reduce the displacement of the corner cutter and shorten the corner.

技术参数
Technical Parameter



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No.	项目	PROJECTS	LKYZ-160
01	电源电压	Power supply voltage	380V/50Hz
02	输入功率	Input power	3.0kW
03	电机转速	Motor speed	1400r/min
04	工作气压	Operating pressure	0.5~0.8MPa
05	耗气量	Air consumption	10L/min
06	额定油压	Rated oil pressure	14MPa
07	油箱容量	Tank capacity	40L
08	加工型材高度	Height of processed profile	160mm
09	外形尺寸	Overall dimension	1200×1100×1300mm

铝型材数控超效角码切割锯

CNC Super-effect Corner Connector Cutting Saw for Aluminum Profile

LSG-CNC-1300

主要用于铝门窗角码型材的切割下料，数控系统控制，稳定高效，适合大批量生产。
It is mainly used for cutting and blanking aluminum door and window corner profiles, controlled by numerical control system, stable and efficient, and suitable for mass production.



切割单元
Cutting unit



数控操作屏
CNC operation screen

设备特点

- 该机主要用于铝门窗角码型材的切割下料。
- 该机由滚珠丝杠、数控系统控制，稳定高效，适合大批量生产。
- 自动记数系统，可自行设置切割数量，同时可切割 1-8 支型材，方便批量下料。
- 往返送料功能，可实现超长料的切割。
- 工进采用滚珠丝杠传动控制，安全稳定，生产效率高。
- 进口硬质合金锯片，加工精度高，耐用度高。

Equipment Features

- This machine is mainly used for cutting and blanking aluminum door and window corner profiles.
- The machine is controlled by ball screw and numerical control system. It is stable and efficient and suitable for mass production.
- The automatic counting system can set the cutting quantity by itself and cut 1-8 sections for batch cutting.
- The back and forth feeding function can realize cutting of ultra-long materials.
- The work is controlled by ball screw drive, which is safe and stable and has high production efficiency.
- Imported carbide saw blade has high processing precision and durability.

技术参数

Technical Parameter



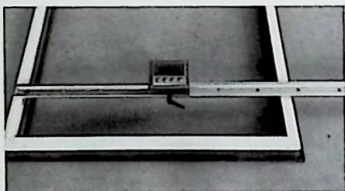
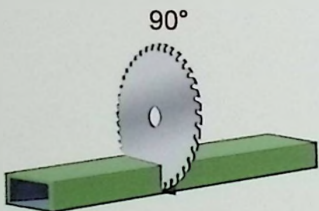
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No.	项目	PROJECTS	LSG-CNC-1300
01	电源电压	Power supply voltage	380V/50Hz
02	输入功率	Input power	4.5kW
03	电机转速	Motor speed	2840r/min
04	工作气压	Operating pressure	0.5~0.8MPa
05	耗气量	Air consumption	120L/min
06	锯片进给速度	Feed speed of saw blade	0~3m/min
07	自动送料长度	Auto-feeding length	3~400mm
08	切割高度	Cutting height	160mm
09	锯切角度	Sawing angle	90°
10	锯片规格	Saw blade specification	Φ500x4.4xΦ30mm
11	外形尺寸	Overall dimension	5600x1400x1300mm

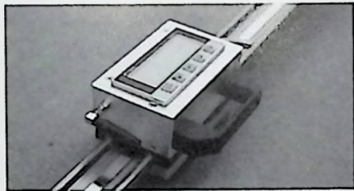
红外传输 90° 玻璃压条切割锯
 CNC Cutting Saw With Wireless Measurement of Depression Bar

LYTA-90A

主要用于铝合金玻璃压线型材 90° 的精密切割工艺，配有无无线手持传输系统，适合大批量连续生产。
 It is used for 90° precision cutting of aluminum alloy glass wire pressing profile, equipped with wireless hand-held transmission system, and suitable for mass continuous production.



红外测量装置
 Infrared measuring device



一键发送测量数据
 One-touch data transmission

设备特点

- 适用于铝合金玻璃压线型材 90° 的精密切割工艺，适合大批量连续生产。
- 采用红外传输，精度准确，无需二次修改。
- 配有刀具检测系统，提示使用寿命。
- 配有无无线手持传输系统，自动减料功能。
- 标配打码功能，方便客户使用料型，不会选错，提高现场的使用率。
- 配有西米克 2KW 主轴电机，功率大，负载能力强，对后期使用提供保障。

Equipment Features

- It is suitable for 90° precision cutting process of aluminum alloy glass wire pressing profile, and is suitable for mass continuous production.
- Infrared transmission is adopted, the accuracy is accurate, and no secondary modification is required.
- Equipped with a tool detection system, indicating service life.
- Equipped with wireless hand-held transmission system, automatic material reduction function.
- The standard coding function is convenient for customers to use the material type without making mistakes, thus improving the utilization rate of the site.
- Equipped with Simic 2KW spindle motor, it has high power and strong load capacity, providing guarantee for later use.

技术参数
 Technical Parameter



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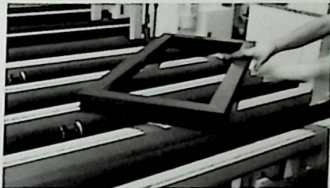
No.	项目	PROJECTS	LYTA-90A
01	电源电压	Power supply voltage	380V/50Hz
02	输入功率 / 电机转速	Input power/Motor speed	1.5kW 2800r/min
03	工作气压	Operating pressure	0.6~0.8MPa
04	耗气量	Air consumption	15L/min
05	切割长度	Cutting length	200~2500mm
06	切割宽度 × 高度	Cutting width × height	70×80mm
07	锯切角度	Sawing angle	90°
08	锯片规格	Saw blade specification	Φ350×3.2×Φ30 Z=100
09	切割精度	Cutting accuracy	±0.1mm
10	切割角度误差	Cutting angle error	±5'
11	外形尺寸	Overall dimension	8500X1200X1100mm

门窗组装流水线

Windows and Doors System Assembly Production Line

LSTA-2200

主要用于铝合金门窗、PVC 门窗的五金件安装、注胶、压条、装玻璃等。
Mainly used for hardware installation, glue injection, layering, glazing, etc. of aluminum alloy doors and windows and PVC doors and windows.



门窗传输作业
Transfer job of window



台面升起作业
Table lifting operation

设备特点

- 适用于系统门窗流水线形式的高效组装。
- 从涂抹组角胶、穿入角码及钢片开始，到组角加工、中挺拼装、安装胶条、安装五金、压条配做，直至包装完成，全部的生产作业均可在此流水线上完成。
- 节省了人工搬运作业，可根据各个工序的实际用时，进行节拍优化，并可根据窗型及组装人员熟练程度进行变频调速。
- 有效提高生产效率达 40% 以上。
- 采用脚踏和按钮双控制。

Equipment Features

- It is suitable for efficient assembly of system doors and windows assembly line.
- All the production operations can be completed on this assembly line from daubing corner glue, penetrating corner codes and steel sheets to corner processing, assembling with center stiles, installing rubber strips, installing hardware and layering, and finishing packaging.
- The manual handling operation is saved, the beat can be optimized according to the actual time of each working procedure, and the frequency conversion speed regulation can be carried out according to the window type and the proficiency of the assembler.
- Effectively improve the production efficiency by more than 40%.
- Adopt double control of pedal and button.

技术参数
Technical Parameter

No.	项目	PROJECTS	LSTA-2200
01	电源电压	Power supply voltage	360V/50Hz
02	电机功率	Motor power	1.5kW
03	工作气压	Operating pressure	0.5~0.8MPa
04	耗气量	Air consumption	200L/min
05	辊筒高度	Roller height	710mm
06	台面升起高度	Elevated height of table top	900mm
07	滚筒直径	Roller diameter	54mm
08	包胶最大速度	Max. speed of encapsulation	40m/min
09	辊筒间距单	Roller spacing	250mm
10	单组长 × 宽 × 高	Overall dimension	2500×3500×900mm
11	单组重量	Single group weight	约 500kg

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2008年11月印刷