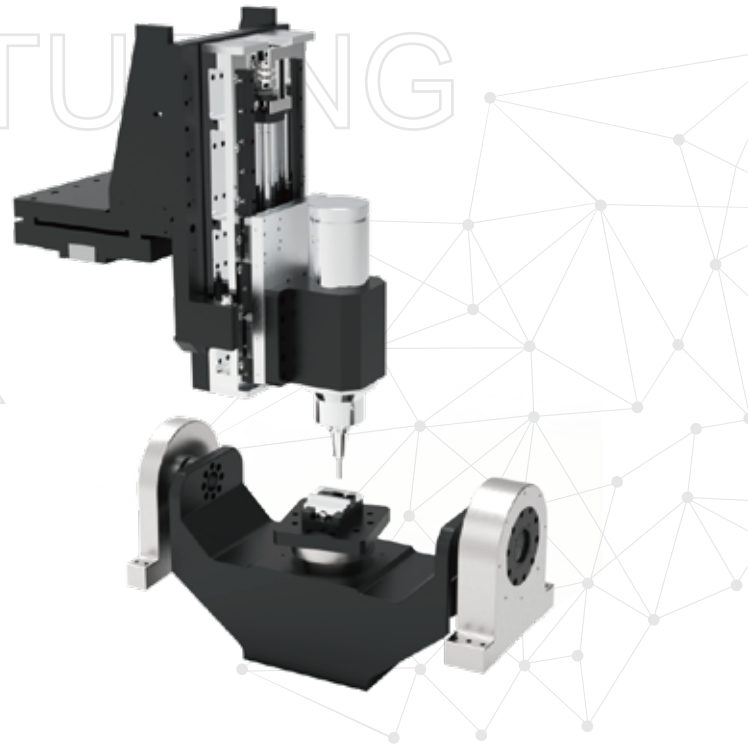


INTELLIGENT
MANUFACTURING
SYSTEM
PROVIDER



COMPREHENSIVE CATALOGUE OF PRECISION CARVING MACHINES

精雕设备综合型录

HIGH PRECISION / 精度高
HIGH EFFICIENCY / 效率高
GOOD PERFORMANCE / 性能好



深圳市艾姆克斯科技有限公司 Shenzhen Aimkse Techonology Co,LTD

深圳市艾姆克斯科技有限公司成立于 2015 年，专注智能制造领域，是一家集研发，生产、销售一体的国家高新技术企业，智能制造系统提供商，旗下控股有东莞市东涛实业有限公司和湖北东涛实业有限公司两家全资子公司。公司拥有数字化高速高精运动系统、高水平直驱技术和多轴联动数控系统三大技术平台，率先研发出直驱五轴联动数控加工中心、直驱五轴精雕机、五轴联动点胶机，属国内首创，填补市场空白。公司其它主要产品还包括高精度直线电机、DD 马达、智能检测循环线系统、五轴激光机、智能全自动组装平台等。艾姆克斯致力于为客户创造价值，秉承“闯”“创”“干”精神，持续创新，以自动化、数字化、智能化为核心，从实际产业需求出发，提供技术先进、性能卓越的产品，打破国际垄断，实现国产替代，为全球制造企业提供专业完善且超高性价比的智能制造系统方案。

Shenzhen Aimkse Technology Co.Ltd. was founded in 2015, focusing on the field of intelligent manufacturing, it is a R&D, production, sales in one of the national high-tech enterprises and intelligent manufacturing system provider, and holdings are Dongguan Dongtao Industrial Co., Ltd. and Hubei Dongtao Industrial Co., Ltd. two wholly-owned subsidiaries. Aimkes has three technology platforms: digital high-speed and high precision motion system, high level direct drive technology and multi-axis linkage CNC system, it is the first to develop direct drive five-axis linkage CNC machining center, direct drive five-axis precision engraving machine and five-axis linkage dispensing machine, which is the first in China and fills the market gap. Aimkes's other main products include high precision linear motor, DD motor, intelligent detection cycle line system, five axis laser machine, intelligent automatic assembly platform, etc. Aimkes is committed to creating value for customers, adhering to the spirit of "break though", "innovation" and "hard work", the company continues to innovate, from the actual needs of the industry, to provide advanced technology, excellent performance products, breaking international monopolies, achieving domestic substitution, and providing professional, comprehensive, and highly cost-effective intelligent manufacturing system solutions to global manufacturing enterprises.

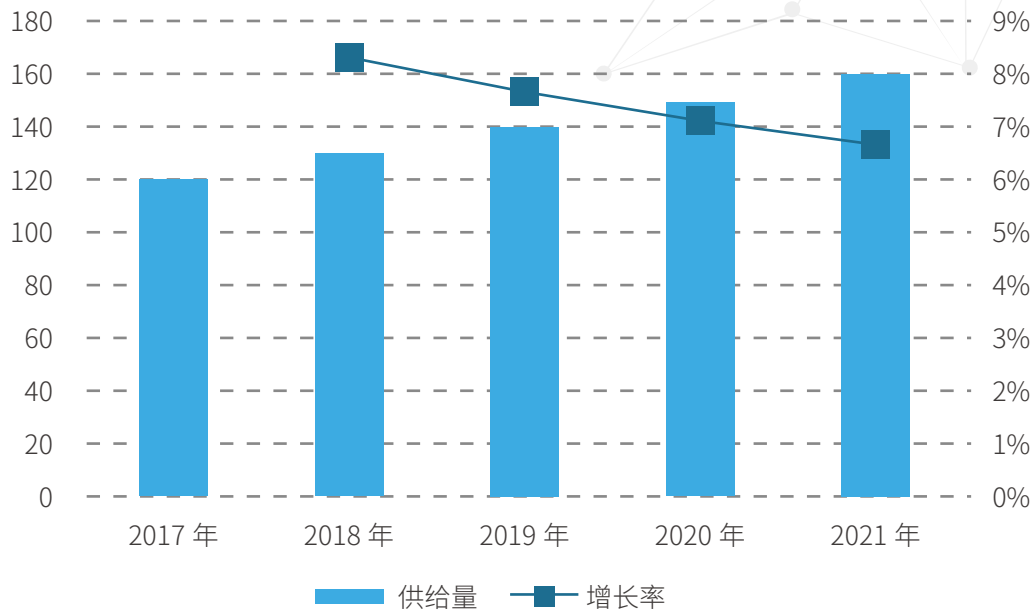
THE MARKET DEMAND IS STEADILY INCREASING AND TECHNOLOGY IS CONSTANTLY INNOVATING

市场需求稳增,技术日益创新

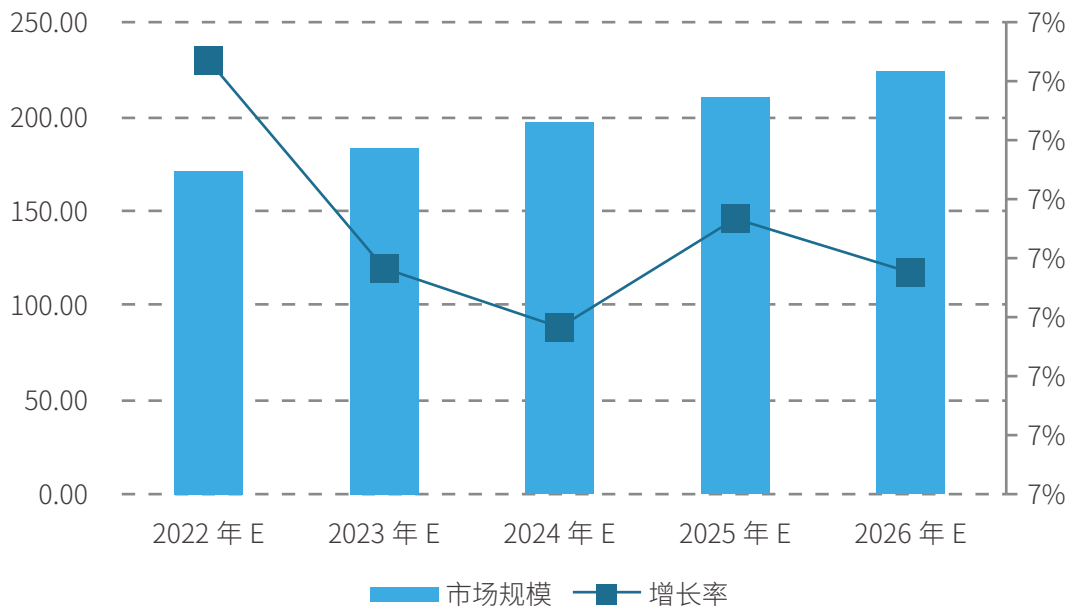
市场前景/Market prospect

- ▶ 近年来，精密雕刻机行业市场火爆，其应用场景跨越式发展的根本原因在于技术、安全和多样性的创新。消费者对个性化产品的需求不断增加，为数控雕刻机提供了广阔的市场空间。
- ▶ 随着数控技术、加工工艺和材料科学的进步，数控雕刻机的性能不断提升。例如，高速数控雕刻机、五轴加工中心等先进设备的应用，可提高生产效率和加工质量。
- ▶ 下游各应用领域对产品加工过程中的高准确、高效率、低耗能、低耗材的要求不断提升，精雕机自身技术不断成熟，下游新兴应用领域不断涌现，国内人工成本的不断增长，原有老旧设备的更新换代等等，都将对精雕机市场起到积极的推动作用。可以预计，未来精雕机行业将持续高速增长。
- ▶ In recent years, the precision carving machine industry has seen a booming market due to innovation in technology, safety, and diversity, resulting in a significant development in application scenes. The increasing demand for personalized products from consumers has provided a vast market space for CNC engraving machines.
- ▶ With the advancement of CNC technology, processing technology, and materials science, the performance of CNC engraving machines has been continuously improving. For example, the application of advanced equipment such as high-speed CNC engraving machines and five-axis machining centers can improve production efficiency and processing quality.
- ▶ The downstream application fields have continuously raised their requirements for product processing, specifically in high accuracy, high efficiency, low energy consumption, and low material consumption. With the maturation of precision carving machine technology, new emerging downstream application fields are continuously emerging. The continuous growth in labor costs in China, as well as the replacement of obsolete equipment, will all play a significant driving role in the precision carving machine market. It can be predicted that the precision carving machine industry will continue to experience high-speed growth in the future.





*2017-2021年精雕机行业供给分析
 *Supply Analysis of Precision Engraving Machine Industry from 2017 to 2021



*2022-2026年中国精雕机市场预测分析
 *Forecast and Analysis of China's Precision Engraving Machine Market from 2022 to 2026

PRECISION CARVING MACHINES TECHNOLOGY AND EQUIPMENT

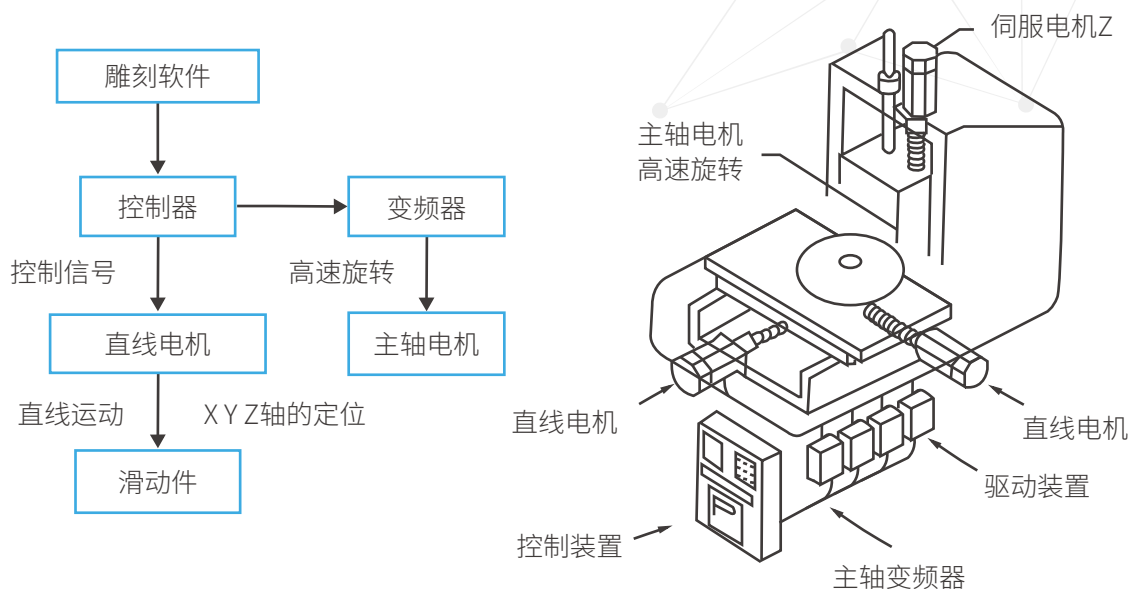
精雕机技术与装备

技术原理/Technical principles

精雕机既可以雕刻，也可铣削，是一种高效高精的数控机床，可对金属或非金属材料，管材进行接触切割打孔。采用了计算机数值控制（CNC）技术，在进行加工前，需要先将 CAD 设计文件导入计算机，并根据具体要求编写相应的控制程序。控制程序通常包括几个方面的内容，如加工过程的开始位置、切割深度、加工速度、切割角度和步长等；在开始加工时，先将原材料安装到加工平台上，然后通过 CNC 控制系统来控制刀具的运动，实现精确的加工过程。

A precision carving machine is a highly efficient and highly precise CNC machine tool that can perform both carving and milling. It can be used for non-contact cutting and punching of metal or non-metallic sheets and pipes. The machine uses computer numerical control (CNC) technology. Before processing, the CAD design files must first be imported into the computer, and corresponding control programs must be written according to specific requirements. Control programs typically include several aspects, such as the starting position of the machining process, cutting depth, processing speed, cutting angle, and step size. When processing begins, the raw material is first installed on the processing platform, and then the movement of the cutting tool is controlled by the CNC control system to achieve an accurate processing process.





雕刻机原理图示

精雕机优点/Precision carving machine advantages

精雕“用刀标准化” | Precision carving "standardization with knife"

精雕“用刀标准化”，规范用刀方法，可控制刀具磨损，保障刀具切削过程准确。

The precision carving of "standardization of tool use" regulates the method of tool use, controls tool wear, and ensures the accuracy of the cutting process.

精雕“数字化仿真” | Precision carving "digital simulation"

在精雕 CAM 软件中做加工，避免多轴运动中工件、刀具、机床结构件碰撞的风险，保障五轴加工的安全。

When performing machining with precision carving CAM software, the risk of collision between workpieces, tools, and machine structure components during multi-axis motion is avoided, ensuring the safety of five-axis machining.

精雕“刀具测量” | Precision carving "tool measurement"

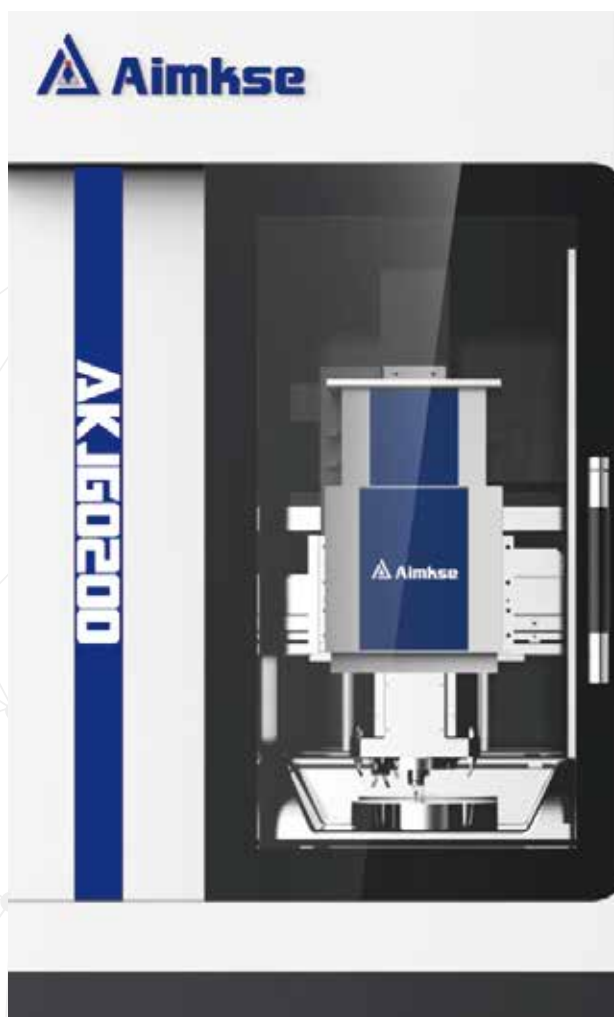
在切削开始前测刀具，确保解算切削路径的“刀具尺寸”是正确的，并可以进行必要的补偿。

Measure the tool before starting the cutting process to ensure the “tool size” used for calculating the cutting path is correct, and necessary cutting tool offset can be updated.

INTEGRATED INTO ONE ACCURATE AND EFFICIENT

集成一体, 精准高效

五轴精雕技术/Five axis precision carving technology



艾姆克斯创新性地将精密机床、数控系统和 CAM 软件集成为一体, 充分利用自主核心技术优势, 从稳定“机床执行机加工工艺的准确度”和完善“五轴自动化工作模式”两方面开展相应工作, 实现精雕机具有“精准高效”实现微米级精度零件加工的能力。

随着零件复杂程度和精度要求的不断提升, 为满足客户微米级五轴加工精度的需求, 艾姆克斯研发的五轴精雕加工中心, 配合精雕特色技术和专业软件, 使高精度和高表面效果成为可能, 企业可以根据自身生产需求, 选择我们合适的精雕设备。

Aimkse has innovatively integrated precision machine tools, CNC systems, and CAM software, fully utilizing its core technology advantages. It has focused on achieving stable “accuracy of machine tool execution of machining processes” and perfecting “five-axis automation mode” to enable precision carving machines to achieve the ability to process micro-precision parts with “precise and efficient” results.

With the increasing complexity and precision requirements of parts, Aimkse's research and development of five-axis precision carving machining centers, coupled with precision carving characteristic technology and professional software, make high precision and high surface quality a possibility. Companies can choose suitable precision carving equipment according to their own production needs.



核心优势/Core advantages

自研直驱控制系统 | Self-developed direct-drive control system

Aimkse 自主研发独创直驱技术，定位精度可达 $\pm 0.5\mu\text{m}$ ，行业顶级水平；

Aimkse independently developed original direct-drive technology, with a positioning accuracy up to $\pm 0.5\mu\text{m}$, which is at the top level in the industry.

自研五轴数控系统 | Self-developed five-axis CNC system

100 余人的博士级研究团队，自主研发五轴联动技术， 360° 无限旋转，全维度作业，专注技术创新与突破；

A research team of over 100 doctoral-level professionals, independently developed a five-axis linkage technology with 360° infinite rotation and full dimensional operation. Focus on technological innovation and breakthrough.

标准化 | Standardization

可升级为自动化单元，实现自动上下料，满足夜班的连续加工需求；

It can be upgraded to an automated unit to achieve automated loading and unloading, meeting the continuous processing needs of night shifts.

专用电主轴 | Specialized electric spindle

高转速，最高可达 60000rpm，切削能力强，具备实现铣、磨、钻、镗等复合加工的能力。

It has a high rotation speed, up to 60,000 rpm, with strong cutting ability, and capable of performing composite processing such as milling, grinding, drilling, and boring.

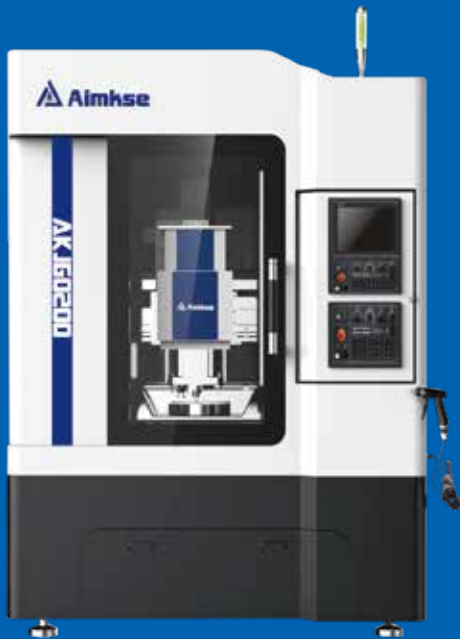
FIVE-AXIS PRECISION CARVING MACHINE

五轴精雕机

产品介绍/Introduction of product

五轴精雕机具有微米级精度加工能力的精雕五轴高速加工中心，具有高转速低振动的特点，具备精密铣、磨削、钻孔等复合用刀能力。适用于复杂形态钻铣磨精密加工的“精密型”五轴高速机，可对工件、刀具、机床状态进行在机检测与修正，降低关键要素“固有偏差”对零件精度的影响。可进行精细特征的微铣削加工，同时满足零件大切削量加工需求

The five-axis high-speed machining center is a precision engraving machine capable of micrometer-level precision machining. It has the characteristics of high speed and low vibration, and is capable of precision milling, grinding, drilling and other compound tool uses. It is suitable for complex shape drilling, milling and precision machining. The "precision" five-axis high-speed machine can detect and correct workpiece, tool, and machine-tool state in situ, reducing the impact of inherent deviations on part accuracy. It can perform fine feature micro-milling machining and meet the requirements of large cutting volume machining of parts.



技术优点/Technical advantage

- ▶ 可实现微米进给，微米切削，纳米级表面粗糙度的加工能力；
 - ▶ 专用电主轴，最高转速 60000rpm；
 - ▶ X、Y、A、C 直驱技术，无背隙，无机械磨损，响应快，动态性能佳；
 - ▶ HNC 系统，带 RTCP 功能 5 联动，5 轴空间曲线插补；
 - ▶ XYZ 三轴运动部件与加工区域分离，无工件负载影响，保证最佳切削性能；
 - ▶ 配备对刀仪、刀库，可实现自动换刀；
 - ▶ 天车式机身结构，操作人员更轻松接近加工区域；
 - ▶ 支持接入机械手、CCD 检测等自动化需求。
-
- ▶ It can achieve machining capabilities of micrometer feed, micrometer cutting, and nanometer surface roughness;
 - ▶ Dedicated electric spindle with a maximum speed of 60,000 rpm;
 - ▶ X, Y, A, C direct-drive technology with no backlash, no mechanical wear, fast response, and excellent dynamic performance;
 - ▶ HNC system with RTCP function and five-linkage, five-axis space curve interpolation;
 - ▶ The XYZ three-axis motion components are separated from the machining area, with no workpiece load influence to ensure optimal cutting performance;
 - ▶ Equipped with tool setter and tool magazine for automatic tool changing;
 - ▶ Gantry-type structure for easier access to the machining area for operators;
 - ▶ Supports automation needs such as robotic arms and CCD inspection.



产品参数/Product parameters

AJC-A135

可根据需求定制

项目	标准值
XYZ定位精度	0.002/0.002/0.002mm
XYZ重复定位精度	0.001/0.001/0.0018mm
A/C轴定位精度	±4" /±4"
A/C轴重复定位精度	±1.5" /±1.5"
XYZ 轴工作行程	260/400/130mm
A /C轴旋转角度	±130°/360°
工作台直径	Ø200mm
最大工作负载	50kg
主轴最高转速	60000rpm
刀柄规格	ISO DT11
刀库容量	20 (转盘式刀库)
XYZ轴快速移动速度	60/60/15 m/min
A /C轴快速旋转速度	360/360rpm
XYZ最高切削速度	12m/min
A/C最高切削进给速度	120/160rpm
驱动系统	XYAC直驱, Z交流伺服
工作电压	三相380V/50Hz
气源压力	> 0.6MPa
机床总重量	4000kg
机床占地面积	LWH: 1700*1700*2200mm

*因技术改进, 以上数据如有更改, 以产品技术文件为准。
Due to technical improvement, if any of the above data is changed, the product technical documents shall prevail.

应用领域/Application field

- ▶ 3C 电子行业: 手机、笔记本、耳机、音响、手机边框等小五金复杂零件;
- ▶ 新能源行业: 叶轮, 压铸件等汽车零部件;
- ▶ 珠宝行业: 手镯、戒指, 饰品等;
- ▶ 医疗行业: 义齿、牙套等;
- ▶ 3C electronics industry: small and complex hardware parts such as mobile phones, notebooks, headphones, audio, and mobile phone frames;
- ▶ New energy industry: automotive parts such as impellers and die-castings;
- ▶ Jewelry industry: jewelry products such as bracelets, rings, and accessories;
- ▶ Medical industry: medical devices such as dentures and braces.



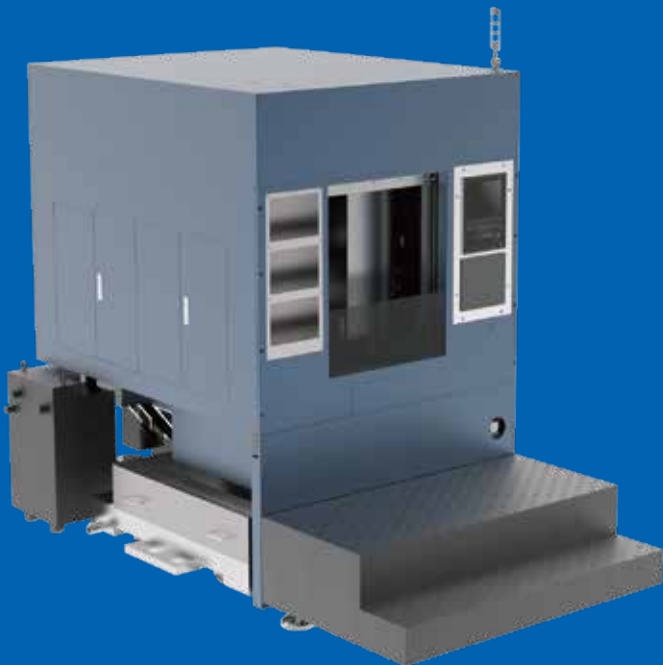
FIVE-AXIS MACHINING CENTER

五轴加工中心

产品介绍/Introduction of product

五轴加工中心适用于复杂形态金属硬料 (HRC>50) 钻铣磨精密加工, 进行物件表面加工、槽铣加工、钻孔或其他的加工需求, 同时也可达到高精度的加工, 拥有高加工精度与高性能, 吸震性强, 稳定性好, 为您带来高效的加工体验。

Five-axis machining center is suitable for precise drilling, milling, and grinding of complex metallic hard materials (with HRC greater than 50), surface machining, slot milling, drilling, or other processing needs. It can achieve high precision, high performance, and strong vibration damping, as well as good stability, providing you with an efficient machining experience.



技术优点/Technical advantage

- ▶ HNC 系统, 带 RTCP 功能 5 联动, 5 轴空间曲线插补;
 - ▶ 专用电主轴, 最高转速 30000rpm;
 - ▶ 天车式机身结构, 操作人员更轻松接近加工区域;
 - ▶ XYZ 三轴运动部件与加工区域分离, 无工件负载影响, 保证最佳切削性能;
 - ▶ X、Y 直驱技术, 无背隙, 无机械磨损, 响应快, 动态性能佳。A、C 采用谐波减速机加伺服电机, 体积更小, 转矩更大;
 - ▶ 配备对刀仪、刀库, 可实现自动换刀;
 - ▶ 可选配油雾分离器。
 - ▶ 支持接入机械手、CCD 检测等自动化需求。
- ▶ The HNC system features 5-axis space curve interpolation with RTCP function;
 - ▶ Equipped with a dedicated electric spindle, the center has a maximum spindle speed of 30,000rpm;
 - ▶ Featuring a gantry-type structure, the center allows operators to easily access the processing area;
 - ▶ The three-axis motion components of XYZ are separated from the processing area to ensure optimal cutting performance without the influence of workpiece loads;
 - ▶ X and Y direct drive technology without backlash or mechanical wear provides quick response and excellent dynamic performance. A and C adopt harmonic reducers coupled with servo motors, which are smaller in size and provide a greater torque output;
 - ▶ Equipped with a tool presetter and tool changer featuring automatic tool replacement capabilities;
 - ▶ Optional oil mist separators are available;
 - ▶ Supports automation requirements such as robotic arms and CCD inspection.





产品参数/Product parameters

AJC-A400

可根据需求定制

项目	标准值
XYZ定位精度	0.002/0.002/0.002mm
XYZ重复定位精度	0.001/0.001/0.0018mm
B/C轴定位精度	±4"/±4"
B/C轴重复定位精度	±2"/±2"
XYZ轴工作行程	400/700/300mm
B/C轴旋转角度	±130°/360°
工作台直径	Ø400
最大工作负载	100kg
主轴最高转速	30000rpm
刀柄规格	ISO BT30
刀库容量	24 (转盘式刀库)
XYZ轴快速移动速度	60/60/15 m/min
B/C轴快速旋转速度	260/300rpm
XYZ最高切削速度	12m/min
B/C最高切削进给速度	80/120rpm
驱动系统	XYAC直驱, Z交流伺服
工作电压	三相380V/50Hz
气源压力	>0.6MPa
机床总重量	4000kg
机床占地面积	LWH: 3000*1800*2100mm

*因技术改进, 以上数据如有更改, 以产品技术文件为准。
Due to technical improvement, if any of the above data is changed, the product technical documents shall prevail.

应用领域/Application field

- ▶ 3C 行业: 无人机、手机、笔记本、耳机、音响、手机边框等五金复杂零件;
- ▶ 工程机械: 传动轴、齿轮箱体等;
- ▶ 精密模具: 车灯模具、电子产品模具等;
- ▶ 医疗行业: 治疗仪、治疗器械等;
- ▶ 高端领域: 航天、航空、国防、汽车等行业。

- ▶ 3C industry: UAV, mobile phone, notebook, headphones, audio, mobile phone frame and other hardware complex parts;
- ▶ Construction machinery: drive shaft, gearbox housing, etc;
- ▶ Precision mold: car lamp mold, electronic product mold, etc;
- ▶ Medical industry: therapeutic instrument, therapeutic equipment, etc;
- ▶ High-end fields: aerospace, aviation, defense, automotive and other industries.



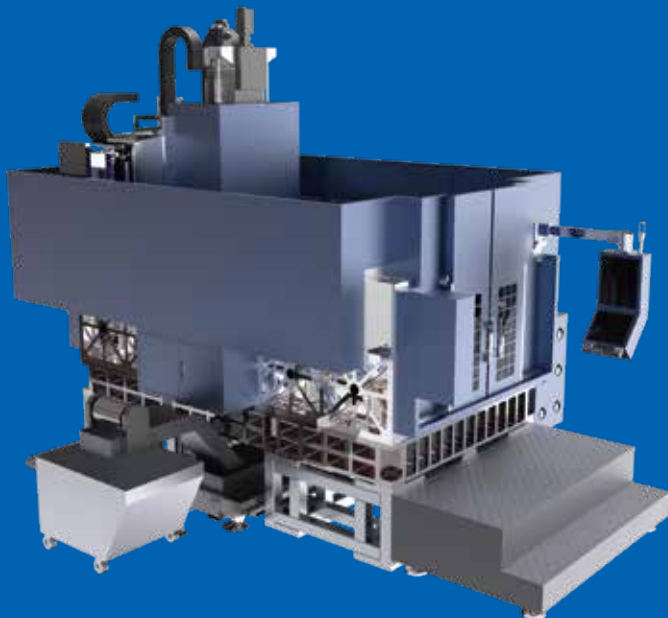
FOUR-AXIS CNC MACHINING CENTER

四轴CNC加工中心

产品介绍/Introduction of product

四轴 CNC 加工中心是一种高效率、高精度的数控机床，一次装夹即可完成多道工序，还具有完善的刀具功能和自动换刀功能。适用于多面体零件、带回转角度的螺旋线（圆柱面油槽）、螺旋槽、圆柱面凸轮、摆线的加工等。

A four-axis CNC machining center is a high-efficiency and high-precision CNC machine tool that can complete multiple processes with one clamping, and also has advanced tool and automatic tool change functions. It is suitable for the machining of polyhedrons, helical lines with rotary angles (cylindrical groove), helical grooves, cylindrical camshafts, and cycloidal curves.



技术优点/Technical advantage

- ▶ HNC 系统，带 B 轴旋转轴；
 - ▶ XYZ 三轴运动部件与加工区域分离，无工件负载影响，保证最佳切削性能；
 - ▶ X、Y 直驱技术，无背隙，无机械磨损，响应快，动态性能佳；
 - ▶ B 轴采用超重负载转台，大大提高了加工负重；
 - ▶ 配备对刀仪、刀库，可实现自动换刀。
 - ▶ 支持接入机械手、CCD 检测等自动化需求。
- ▶ The HNC system comes with a B-axis rotary axis.
 - ▶ The XYZ axis motion components are separated from the processing area, which is not affected by the loaded workpiece and ensures the best cutting performance.
 - ▶ The X and Y axes use direct drive technology, with no backlash and no mechanical wear, which has a fast response and excellent dynamic performance.
 - ▶ The B-axis uses a super-heavy load rotating table, which greatly improves the processing load.
 - ▶ Equipped with a tool setter and a tool magazine, it can achieve automatic tool change.
 - ▶ It supports the connection of robotic arms, CCD inspection and other automation requirements.





产品参数/Product parameters

AJC-B400

可根据需求定制

项目	标准值
XYZ定位精度	0.005/0.006/0.006mm
XYZ重复定位精度	0.002/0.003/0.003mm
B轴定位精度	±15"/±15"
B轴重复定位精度	±6"/±6"
XYZ轴工作行程	1000/1700/500mm
B轴旋转角度	±130°
最大工作负载	400kg
主轴最高转速	18000rpm
刀柄规格	ISO BBT40
刀库容量	24 (转盘式刀库)
XYZ轴快速移动速度	60/60/15 m/min
B轴快速旋转速度	160rpm
XYZ最高切削速度	12m/min
B最高切削进给速度	30rpm
驱动系统	XY直驱, BZ交流伺服
工作电压	三相380V/50Hz
气源压力	>0.6MPa
机床总重量	20000kg
机床占地面积	LWH: 5000*3800*4000mm

*因技术改进, 以上数据如有更改, 以产品技术文件为准。
Due to technical improvement, if any of the above data is changed, the product technical documents shall prevail.

应用领域/Application field

- ▶ 航空航天; ▶ 军事科研; ▶ 高精医疗设备;
- ▶ 精密器械; ▶ 五金家具; ▶ 其他, 如工艺雕刻等领域。
- ▶ Aerospace; ▶ Military research;
- ▶ High precision medical equipment; ▶ Precision equipment and machinery;
- ▶ Hardware furniture; ▶ Other areas, such as craft carving.

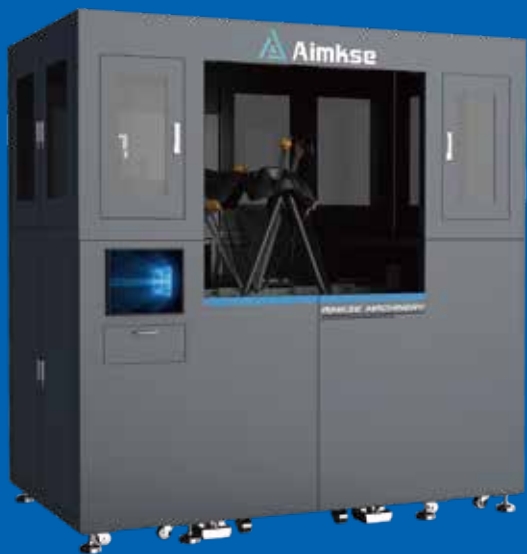
INTELLIGENT DETECTION CIRCULAR PIPELINE SYSTEM

智能检测循环线系统

产品介绍/Introduction of product

艾姆克斯智能检测循环线系统作为自动化品质检测核心部件，以雷尼绍比对仪作为检测核心部件，搭载公司自主研发循环线系统、可视化数控编程系统，自动化科技含量高、检测精密度高，专门用于自动测量精密零件尺寸的设备，对异形件、复杂曲面、尺寸较多精密零件等产品，测量更精准，更高效，操作更简单，解决低效、检测精度不够、操作繁琐、使用环境要求高、更换产品治具繁琐等问题。

The Aimkes intelligent detection circular pipeline system is the core component for automated quality inspection, with the Renishaw comparator as the main detection component. Equipped with the company's independently developed circular pipeline system and visual CNC programming system, this device boasts a high level of automation technology and precision detection. It is specially designed for automatic measurement of precision part dimensions, providing more accurate and efficient measurements for difficult-to-measure parts, such as irregular shapes, complex surfaces, and products with many complex precision parts. The system offers simple operation and effectively solves issues related to low efficiency, insufficient accuracy, complex operation, high environmental requirements, and tedious product fixture replacement.



核心优点/Core advantages

- ▶ 高精度：重复性高 $\pm 0.002\text{mm}$ ；
- ▶ 检测对象：复杂曲面、复杂轮廓等异形件均可检测；
- ▶ 自动化：运动部件采用并联结构，应用于大规模检测，效率高且成本低；
- ▶ 一机多用：软件通用性强，替代定制量具及手动量具，不同工件间快速切换；
- ▶ 实时监控：实时过程监控，可与数控机床通讯，返回刀补；
- ▶ 环境适应强：无需恒温恒湿，搭配自动化无人车间使用。
- ▶ High precision: repeatability accuracy up $\pm 0.002\text{mm}$;
- ▶ Detection object: special-shaped parts, complex curved surfaces, complex contour and so on are all can be measured;
- ▶ Automotion: moving parts using parallel structure, applied to large-scale measurement, high efficiency and low cost;
- ▶ Multi-purpose: the software has strong versatility, which can replace custom and manual measurement tools. Different workpieces can be quickly switched, and one device can be used for multi-purpose;
- ▶ Real time monitoring: real-time process monitoring, can communicate with CNC machine tool, update cutting tool offsets;
- ▶ Strong environment adaptability: no need constant temperature and humidity environment, used for automation, unmanned workshop.





产品参数/Product parameters

AJC-R200

可根据需求定制

项目	标准值
外形尺寸	L 2450*W1450*H2500mm
工作空间	500*500*400mm
比对不确定度	±0.002mm
最大扫描速度	100 mm/s
最大运动速度	500mm/s
扫描速率	1000点/s
光栅分辨率	0.2 μm
交换架	6端口
夹具要求	±1mm
工作温度	+5°C~+45°C

*因技术改进，以上数据如有更改，以产品技术文件为准。
Due to technical improvement, if any of the above data is changed, the product technical documents shall prevail.

应用领域/Application field

智能检测循环线系统可解决测量速度慢、结构设计单一、测量环境局限性强、检测功能单一等问题，适用于3C、新能源、航天、医疗、军工业等要求工艺精度高行业。

The intelligent detection circular pipeline system can solve problems such as slow measurement speed, single structural design, environmental limitations, and single detection functions. It is suitable for industries with high requirements for process accuracy, such as 3C, new energy, aerospace, medical, military and other industries.

FULL FACTORY AUTOMATION FOR PRECISION CARVING MACHINE SOLUTION

精雕整厂自动化方案

功能描述/Function Description

通过全自动化的物料投收系统，使 CNC 加工车间无人化生产，生产过程中，可关闭车间照明，故称“熄灯工厂”。

Through a fully automated material feeding system, the CNC machining workshop achieves unmanned production, and the workshop lighting can be turned off during the production process, thus called “lights-off factory” .

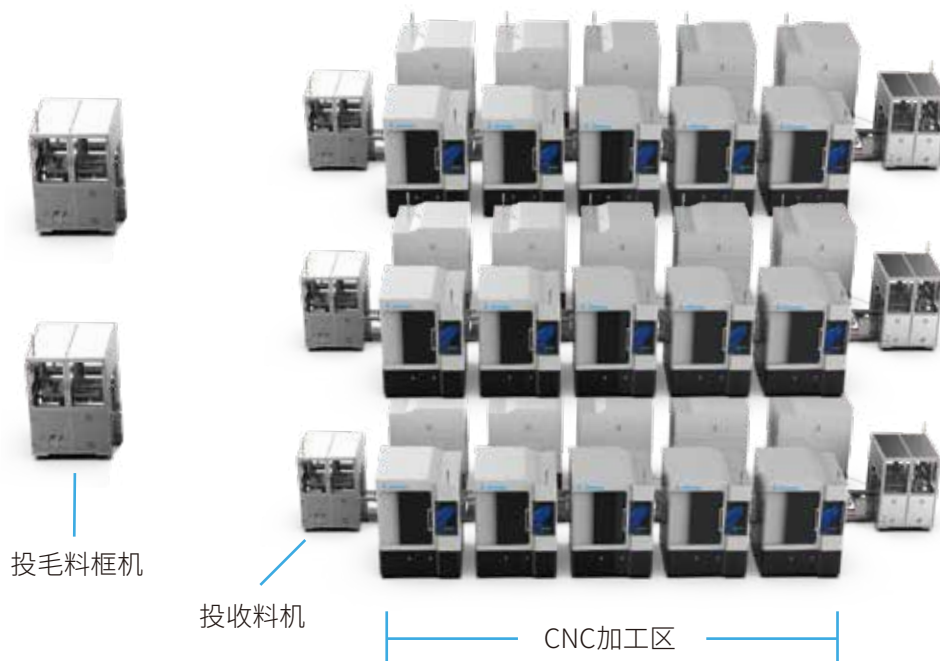
精雕整厂自动化/Precision Carving Factory Automation





产品特点/Product features

- ▶ 机器人自动给 CNC 上下料 · SCADA 数据采集系统，收集上传生产大数据；
 - ▶ MES 系统智能管理生产，维护人员在控制室即可完成大部分工作；
 - ▶ 车间智能大屏，显示当前生产信息适用范围；
 - ▶ 全自动化无人生产；
 - ▶ 流水线自动输送产品；
 - ▶ 应用于 CNC 加工厂。
-
- ▶ Robots automatically perform loading and unloading for CNC machines, SCADA data acquisition system collects and uploads production big data;
 - ▶ The MES system intelligently manages production, and maintenance personnel can complete most of the work in the control room;
 - ▶ Intelligent big screen in the workshop displays current production information;
 - ▶ Fully automated unmanned production;
 - ▶ Automatic conveying of products on the assembly line;
 - ▶ Applied to CNC processing plants.



EMBRACE INTELLIGENT MANUFACTURING BUILD A BRIGHT FUTURE TOGETHER

拥抱智能制造·共筑美好未来

企业文化/Enterprise culture

以人为本，以才为重，持续创新，追求卓越，坚持闯、创、干精神，致力于大数据工业互联，实现整厂自动化，积极参与中国制造 2025，共同实现中国工业 4.0 这一伟大使命。

People-oriented, talent first, continuous innovation and the pursuit of excellence, adhere to the spirit of "breakthrough", "innovation" and "hard work", committed to big data industrial interconnection, to achieve the whole factory automation, actively participate in Made in China 2025, and jointly realize the great mission of China's Industry 4.0.

公司环境/Company environment



专利认证
Patent certification

已取得发明专利
计算机软件著作权
实用新型专利
外观专利
同时申请实用新型专利

Company has obtained invention patents
Computer software Copyrights
Utility model patents and
Appearance patents
Utility model patents
Invention patents
Appearance patents.



软件著作权
Software copyright

已取得软件著作权
Copyrights have been acquired



IECQ 符合性证书
ISO 9001:2015 认证
ISO 14001:2015 认证

IECQ Certificate of compliance
ISO 9001:2015 Authentication
ISO 14001:2015 Authentication



BE PERSISTENT IN YOUR DEEDS, SEEK TRUTH FROM FACTS AND ENCOURAGE INNOVATION

笃行致远, 惟实励新

未来展望/Prospect of the future



艾姆克斯将继续秉承“合作共赢”原则，以市场为导向，以客户需求为基础，坚持“自主研发、持续创新、技术领先”，紧跟国家战略，实现国产替代，面向全球，实现全厂智能制造，打造成为国际一流的智能智造系统提供商。

Amikes will continue to adhere to the principle of "win-win cooperation", market-oriented, based on customer demand, adhere to "independent R&D, continuous innovation, technology leadership", keep up with the national strategy, look at the domestic substitution, face the world, realize the whole factory intelligent manufacturing, and build into a world-class intelligent manufacturing system provider.



拥抱智能制造 · 共筑美好未来

Embrace intelligent manufacturing and build a better future together

深圳市艾姆克斯科技有限公司
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