Shanghai Mindy Aviation Technology Co., Ltd.

上海缅迪航空科技有限公司

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上海缅迪宣传画册

Shanghai Miandi Brochure

锐意进取 追求卓越
为您提供专属的金属解决方案
Shanghai Mendi Aviation Technology Co., Ltd. has decades of industry experience, focusing on the processing and production of high quality metal products, is a professional CNC machining production enterprises. The company has more than ten sets of sophisticated CNC lathes and machining center equipment, three axis, four axis, five axis machining center, machining accuracy up to ±0.03mm. At the same time equipped with high-precision inspection equipment, through strict quality control, to provide customers with stable and reliable products.

More than ten years in the field of metal manufacturing and constantly innovate, now has a variety of aluminum alloy, copper alloy, titanium alloy, steel parts and other materials processing technology. Indestructible certainty, hardened quality as solid as a rock. Ten years like a day, action to fulfill the original intention. More than 10 years of market refining and technology precipitation, so that the products are exported to major cities at home and abroad. Now the products have been widely used in aviation, aerospace, military, automotive, mechanical processing and other industries. With the enterprise spirit of continuous innovation and brave exploration, MetDI has transformed from simple raw material supply into a high-tech enterprise integrating research and development, production, sales and service.

Mendi insists on the determination of "always committed to promoting the progress of China's cemented carbide contribution". In today's competitive homogeneity, I hope that the insistence, dedication and focus of the aviation technology can bring more choices to the market.
Service is the added value of goods. There will be an endless market for high value-added products.

Product quality is the life of the enterprise, we should pay attention to quality, quality as the cornerstone of enterprise development. Only the good quality, our enterprise can be in the fierce market competition in an invincible position.

Our company mainly engaged in business including aircraft parts, auto parts, semiconductors, new energy, and other high-end industries required by customers of precision mechanical parts processing, precision CNC machining, semiconductor cavity roughing and so on. Have a variety of aluminum alloy, copper alloy, titanium alloy, steel and other materials processing technology, purchase a number of precision CNC machining equipment (CNC), coupled with the relevant industry for many years in the operation of technical talents related equipment, to ensure that the products delivered to customers after each production meet the technical requirements.
公司设备
Company equipment

立式加工中心
Vertical machining center

我们公司配备了专业的金属材料锯切，钻孔，铣削设备可对2600mm的材料进行粗、精加工处理。14台立式加工中心，2600mm长的龙门加工中心，满足客户的多种高精度及质量要求。

Our company is equipped with professional metal materials sawing, drilling, milling equipment can be 2600mm of materials rough, finish processing. 14 vertical machining center, 2600mm long gantry machining center, to meet customers with a variety of high-precision and quality requirements.

The vertical machining center adopts high strength cast iron material, which provides a solid foundation and stable performance for the machining performance of the machine tool. Carrying mature spindle system and feed system to ensure the stability and reliability of the machine tool, to provide stable and accurate material to lay the foundation.
VMCII series is A-shaped single column fixed,table mobile structure, high-rigidity foundation components, mobile components lightweight, fully meet the needs of users. Can complete the milling, boring, drilling, tapping and other processes under a clamping. Standard 8000rpm belt spindle, using 1.5:1 deceleration to increase torque by 50%, suitable for general machinery, automotive, aerospace, textile machinery and other industries of small and medium-sized machinery parts of high-speed precision processing.

VMCII series

- 高刚性
- 高抗震性
- 高精度
- 高热稳定性
- 高动态响应

VMC II 系列为A字形单立柱固定，工作台移动结构，基础部件高刚性，移动部件轻量化，充分贴合了用户的需求。能在一次装夹下完成铣削、镗削、钻削、攻丝等工序。标配8000rpm皮带式主轴，采用1.5:1的减速使扭矩提升50%，适用于通用机械、汽车、航天航空、纺织机械等行业中小型机械零件的高速精密加工。
三大子系列，10余款经典机型，满足不同尺寸零件的五轴加工需求；无论是微米级尺寸精度要求的零件加工，纳米级表面粗糙度要求的镜面加工，还是高效的金属零件复合加工，精雕五轴高速加工中心均可胜任。

设备亮点
重型工件五轴加工0工 卓越的加工能力 稳定的加工品质

Three sub-series, more than 10 classic models, to meet the different size of the five-axis parts processing requirements, whether it is micro-scale precision requirements of the parts processing, nano-scale Surface roughness requirements of the mirror processing, or efficient metal parts complex processing, carv ed five-axis high-speed machining center can be competent.
三轴加工中心

German three-axis high-speed machining center, there are a variety of configuration options to meet different production needs. It can be equipped with a variety of models of spindle, to adapt to different capacity knife storehouses, to meet the needs of different processing scenes integrated carving features technology to ensure precision processing quality. It can be configured to measure the state of machine tool, cutter and workpiece in precision machining. The full closed-loop control system is adopted to ensure the movement accuracy of the machine tool and realize the micron-level machining accuracy.

检验设备中心

Our company has advanced level of testing equipment. The main instruments are: Japan imports three-coordinate, two-dimensional imaging measuring instrument, flaw detector and other measuring tools, with SPC automatic data evaluation system, to meet high-end customers for high-precision product quality requirements, and can effectively avoid the uncontrollable risk in the production link.
The company is equipped with 14 professional CNC vertical machining centers, including a JDMR 600 complex machining precision five-axis high-speed machining center, with standard torque of 21.5 Nm carved high-speed precision motorized spindle, to meet the needs of a wide range of tools, can achieve milling, grinding, drilling, boring, tapping and other complex processing. The machining accuracy of 2~10μm is achieved stably. Can meet the aerospace, automotive, semiconductor, new energy and other areas of demand for high-performance metal parts of the mass production. The monthly output is up to 200 pieces.

**High pressure water pump impeller**

- Material: 7075 aluminium alloy (HB150)
- Size: Φ300*118
- Bright spot: + point milling process 12h26min per piece + blade profile < 0.01 mm + Surface roughness Ra < 0.4 μm

**Turbine molecular pump seven-stage impeller**

- Material: 7075-T6 aluminum alloy
- Size: Φ350 * 286 mm
- Highlights: + use of carved CAM software to complete the five-axis process + a clamp to complete the seven-stage 249 blades of the open-thick to finish processing + imbalance less than 0.6 μm
复合加工件
材料：6061铝合金
尺寸：200*150*150mm
亮点：+一次装夹实现铣、钻、攻、绞、镗等复合加工

复合加工件
Composite workpiece
material: 6061 aluminium alloy
size: 200 * 150 * 150mm
highlight: + one-time clamping to achieve milling, drilling, tapping, stranding, boring and other composite processing

接骨板
材料：TC4
尺寸：240*40*17mm
亮点：+总加工时长2h45min
+材料去除率超过90%
+表面粗糙度Ra<0.8μm

接骨板
Plate,
material: TC4
Size: 240 * 40 * 17mm highlights: + total processing time: 2h45 min + material removal rate exceeding 90% + Surface roughness RA < 0.8 μm

半导体真空腔体
材料：铝合金（A6061）
尺寸：300*900*900
亮点：+独有的铣车和磨削技术，实现令人难以置信的精度

半导体真空腔体
Semiconductor vacuum cavity
material: aluminum alloy (A6061)
size: 300 * 900 * 900
highlights: + unique milling and grinding technology, achieve incredible accuracy,
上料Y向基板
材料：5083
尺寸：30*20*1260
亮点：+稳定实现多种难切削材料的小孔钻孔加工，微孔加工快，准，稳
+加工无明显刀纹

Feeding Y to the substrate material: 5083
size: 30 * 20 * 1260
window: stable implementation small hole drilling of a variety of difficult cutting materials, microporous processing is fast, accurate, steady process has no obvious grain

上模板
材料：7075-T651
尺寸：365*385*390
亮点：+1序完成钻孔，攻螺纹，铣削，镗孔等多类型加工，有效提高加工效率
+加工精度达到±0.01mm

On the template material: 7075-T651
size: 365 * 385 * 390
highlights: +1 sequence to complete drilling, tapping thread, milling, boring and other types of processing, effectively improve the processing efficiency
+ machining accuracy of ± 0.01 mm

水冷板
材料：5083
尺寸：60*750*870
亮点：+表面光滑无毛刺，部分位置粗糙度<0.8μm
+刀片槽定位粗糙度±0.01

Water-cooled plat material: 5083
size: 60 * 750*870
bright spot: + surface smooth without Burr, part position roughness < 0.8 μm
+ blade groove position roughness ± 0.01
摄像头模组零件
材料：钛合金
尺寸：14.2*14.2*17.7
亮点：+ 表面粗糙度 < 0.2μm
+ 尺寸精度 < 0.02mm
+ 产品无变形量，全部棱边及通孔深处无毛刺

螺旋齿轮电极测试件
材料：紫铜
尺寸：Ф12.5*60mm
亮点：+ 精雕高速机搭配通用硬质合金刀具加工齿轮电极
+ 齿轮精度达日标0级水平

飞轮壳压铸件加工
材料：ADC12
尺寸：578*560*178mm
亮点：+ 一次装夹，完成多位加工

Camera module
material: titanium alloy
dimensions: 14.2 * 14.2 * 17.7
highlights: + Surface roughness < 0.2 μm
+ dimensional accuracy < 0.02 mm
+ product deformation, all edges and through-hole depth without burrs

Spiral gear electrode
type: Copper
Size: Ф12.5 * 60mm
bright spot: + carved high-speed machine with universal carbide tool machine
gear electrode + gear accuracy up to standard 0 level

Flywheel shell die-casting processed, materials: ADC12
size: 578 * 560 * 178mm
highlights: + a clamping, multi-position processing
**Our advantage**

- **Professional Team**
  CNC Department of Engineers and designers of the average industry experience of more than 15 years, and engaged in a variety of high-end industries, with mature experience accumulation.

- **Stable equipment**
  Production equipment is regularly maintained and calibrated, with the use of the UK Renishaw laser ball tester for cycle testing to ensure the accuracy of each equipment.

- **Perfect testing system**
  Perfect testing system will be in strict accordance with the requirements of the order before the appearance of the product, the structure of all aspects of testing, eliminate product scratches, bruises, poor processing, eccentric holes, burrs, and a series of problems. The tools will be tested every 1 month and sent to the third party for effectiveness test according to the standard every year.

- **Several well-known brand agents or partners**
  - 首钢集团
  - 阿科力
  - 阿尔利
  - 长钢铝业
  - 中国忠旺
  - CHALCO
  - Almaviva
  - AMAG
  - Knf
  - Arconic
  - Kaiser
公司概要

经营内容：国产、进口铝合金、铜合金、钛合金、不锈钢的等金属生产，加工，服务于一体

Operating content: domestic, imported aluminum alloy, copper alloy, titanium alloy, stainless steel and other metal production, processing.

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