

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

# 2022 缅迪航空

Miandl Aviation 2022



为您提供专属的金属  
解决方案

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## About us

### 关于我们

上海缅迪航空科技有限公司数十年的行业经验，专注于加工生产高品质金属制品，是一家专业CNC加工生产型企业。公司拥有十数台精良的CNC数控车床及加工中心设备，三轴，四轴，五轴加工中心，加工精度可达 $\pm 0.03\text{mm}$ 。同时配备高精度的检验设备，通过严格的品质管控，为客户提供稳定可靠的产品。

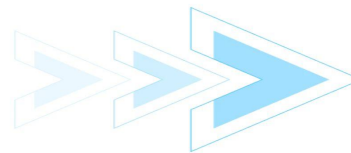
缅迪十多年来在金属制造领域不断推陈出新，现已拥有各种铝合金，铜合金，钛合金，钢件等材料加工技术。无坚不摧的笃定，淬炼出坚如磐石的品质。十年如一日，行动践初心。十多年的市场磨炼与技术沉淀，让缅迪产品远销国内外各大城市。如今产品已广泛运用于航空，航天，军工，汽车，机械加工等众多行业。凭借不断创新，勇于开拓的企业精神，缅迪从简单的原材料供给，已经蜕变成集研发，生产，销售，服务于一体的高新技术企业。

缅迪坚持“始终致力于推动中国硬质合金进步贡献绵薄之力”的决心。在同质化竞争激烈的今天，希望缅迪航空科技的坚守，执着和专注，能为市场带来多一种选择

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  $\pm 0.03\text{mm}$ . 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, hardenable 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, MeIDI 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.



公司简介  
Company profile

## corporate culture

### 企业文化



### 经营理念

Business philosophy

诚信为本，顾客至上  
团结实干，优质创新

Integrity-based, customer first  
unity and hard work, high-quality innovation



### 品牌理念

Brand concept

产品质量是企业的生命，我们要重视品质，将品质视为企业发展的基石。只有把好质量，我们的企业才能在严酷的市场竞争中有一席之地。

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



### 服务理念

Service concept

服务是商品的附加价值。向高附加值产品发展，市场将无穷尽。

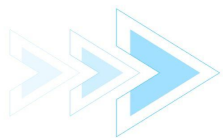
Service is the added value of goods. There will be an endless market for high value-added products.

## scope of business

### 业务范围

我们公司主要经营业务包括了飞机零件、汽车零部件、半导体、新能源、等高端行业的客户所需求的精密机械零件加工，精密cnc机械加工，半导体腔体粗加工等。拥有各种铝合金，铜合金，钛合金，钢件等材料加工技术，采购数台精密数控加工设备（CNC），再搭配上在相关行业浸浴多年的技术型优秀人才操作相关设备，使的每次生产后都能够确保送到客户手中的产品符合技术要求。

Our company mainly engaged in business including aircraft parts, auto parts, semiconductor, 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

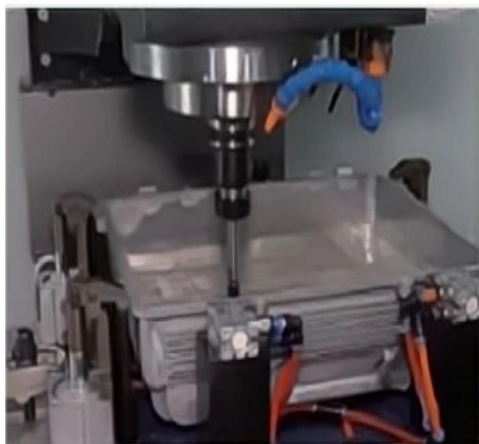
Company equipment

### 立式加工中心

Vertical machining center

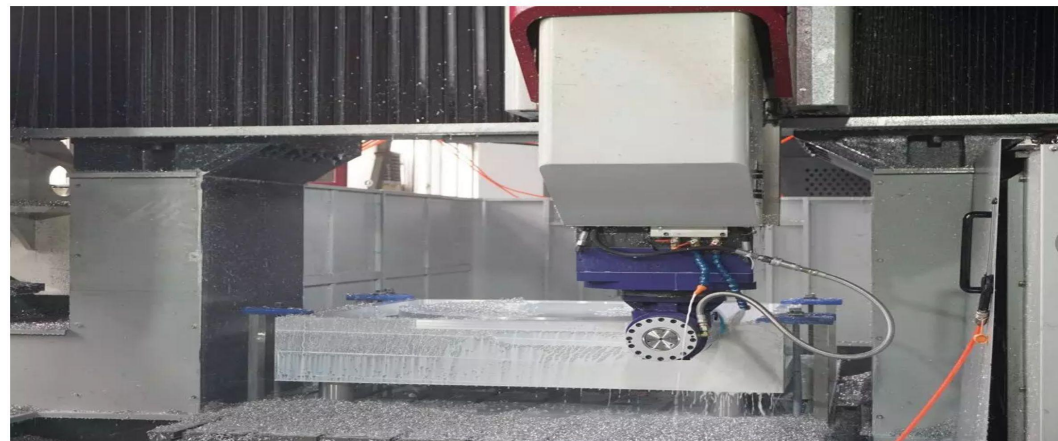
我们公司配备了专业的金属材料锯切，钻孔，铣削设备可对2600mm的材料进行粗、精加工处理。14台立式加工中心，2600mm长的龙门加工中心，满足客户的多种高精度及质量要求。

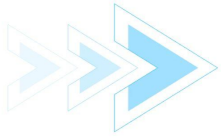
Our company is equipped with professional metal materials sawing, drilling, milling equipment can be 2600mm of materials rough, finish processing. 14 vertical machining center, 2600mm long gantry machining center, to meet customers with a variety of high-precision and quality requirements.



立式加工中心沿用高强度的铸铁材料，为机床的加工性能提供坚实的基础和稳定的性能。搭载成熟的主轴系统和进给系统，保证了机床的稳定性和可靠性，为提供稳定精确的材料奠定基础

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





## 公司设备

Company equipment

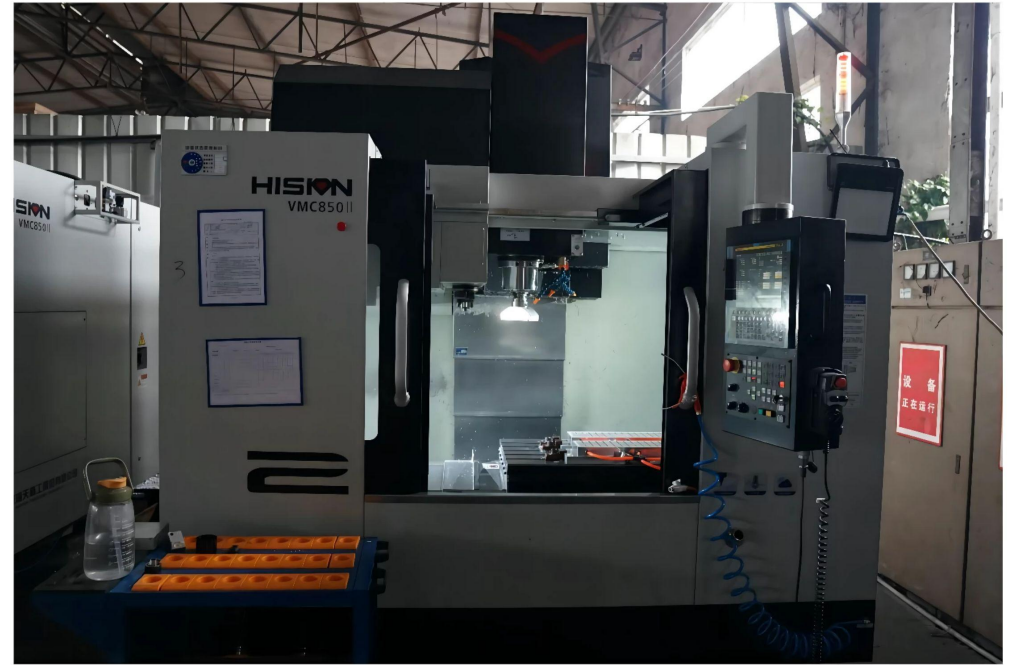
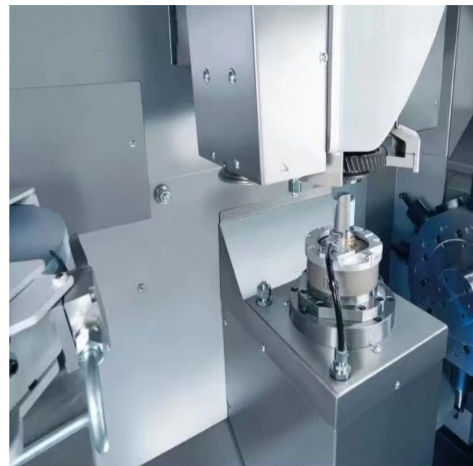
### 立式加工中心

Vertical machining center



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.

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。



VMCII 系列

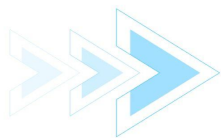
### 立体加工中心

· 规格覆盖

VMC760 II / 850 II / 1000 II / 1200 II / 1300 II

- 高刚性
- 高抗震性
- 高精度
- 高热稳定性
- 高动态响应

- VMCII series three-dimensional machining center
- Specifications cover VMC760II/850II/1000II/1200II/1300II
  - High rigidity
  - High seismic resistance
  - High accuracy
  - High thermal stability
  - High dynamic response

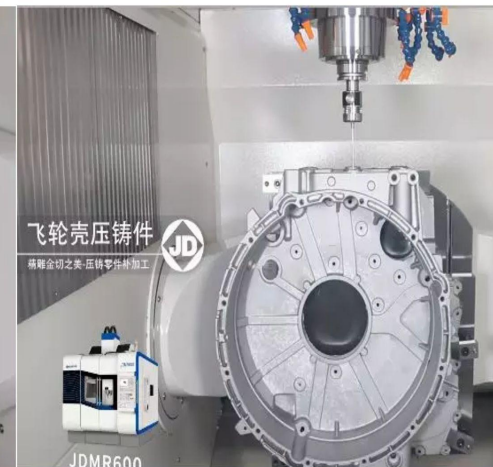
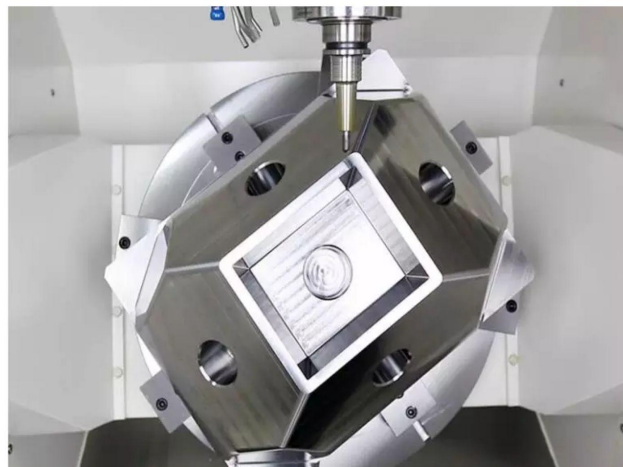


## 公司设备

Company equipment

## 五轴加工中心

Five-axis machining center



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。

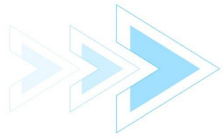
Three sub-series, more than 10 classic models, to meet the different size of the five-axis parts processing requirements, whether it is micro-scale precision requirements of the parts processing, nano-scale surface roughness requirements of the mirror processing, or efficient metal parts complex processing,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

## 设备亮点

Device highlights

重型工件五轴加工  
卓越的加工能力  
稳定的加工品质

Heavy workpieces five-axis machining excellent processing capability and stable processing quality



## 公司设备

Company equipment

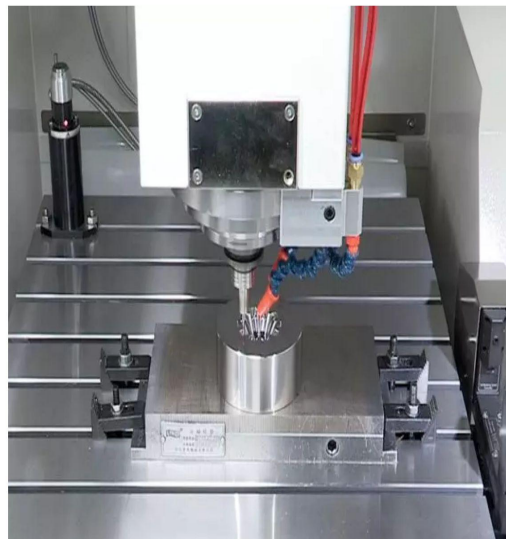


## 三轴加工中心

Three-axis machining center

加工车间配有国内先进的三轴高速加工中心，有多种配置选择，满足不同生产需要。可选配多种型号主轴，适配不同容量刀库，满足不同加工场景需求。集成精雕特色技术，保障精密加工质量。可配置精雕在机检测系统，量化精密加工中机床、刀具和工件的状态。采用全闭环控制系统，保障机床运动精度，实现微米级加工精度。

Processing workshop with domestic advanced three-axis high-speed machining center, there are a variety of configuration options to meet different production needs. Can be equipped with a variety of models of spindle, to adapt to different capacity knife storehouse, 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.



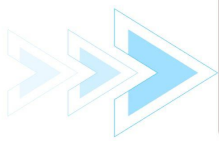
## 检验设备中心

Inspection Equipment Center

我们公司有先进水平的检测仪器装备。主要仪器有：日本进口三坐标，二次元影像测量仪，探伤仪等测量工具，配合SPC自动化数据评估系统，满足高端客户对产品高精度的质量要求，并且能够有效避免生产环节中不可控风险。

Our company has advanced level of testing equipment. The main instruments are: Japan imports three-coordinate, two-dimensional image measuring instrument, flaw detector and other measuring tools, with SPC automatic data evaluation system, to meet high-end customer's for high-precision product quality requirements, and can effectively avoid the uncontrollable risk in the production link





## 设备应用案例

Device application case

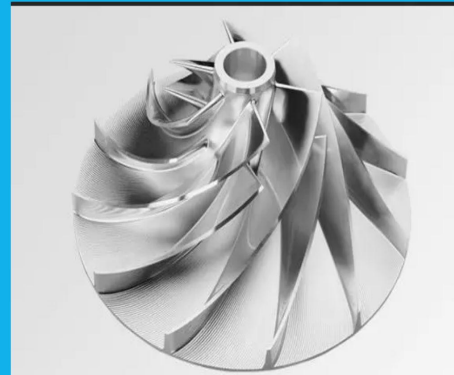
The company is equipped with 14 professional CNC vertical machining center, a JDMR 600 complex machining precision carved five-axis high-speed machining center, the standard torque of 21.5 nm carved high-speed precision motorized spindle, to meet the needs of a wide range of tools, can achieve milling, grinding, drilling, boring, tapping and other complex processing. The machining accuracy of 2 ~ 10 $\mu$ m 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 2000 pieces.

公司配置了14台专业的cnc立式加工中心，一台JDMR600复合加工的精密型精雕五轴高速加工中心，标配扭矩达21.5Nm的精雕高速精密电主轴，满足大范围的用刀需求，可实现铣、磨、钻、镗、攻等复合加工。稳定实现2~10 $\mu$ m加工精度。可满足航空，航天，汽车，半导体，新能源等领域所需求的高性能金属加工件的批量生产。月产量可达2000件产品。



### 高压水泵叶轮

材料: 7075铝合金 (HB150)  
尺寸:  $\phi$ 300\*118  
亮点: +点铣加工 12h26min/个  
+叶片轮廓度 $<$ 0.01mm  
+表面粗糙度Ra $<$ 0.4 $\mu$ m



High pressure water pump impeller  
material: 7075 aluminium alloy (HB150)  
size:  $\phi$ 300 \* 118  
bright spot: + point milling process 12h26min per piece  
+ blade profile  $<$  0.01 mm  
+ Surface roughness RA  $<$  0.4  $\mu$ m

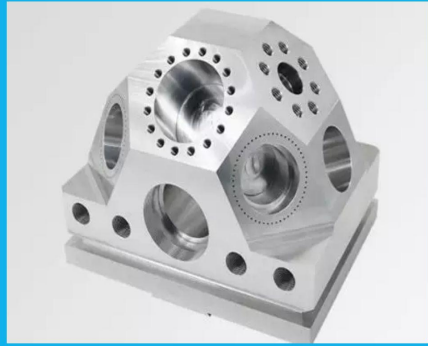


### 涡轮分子泵七级叶轮

材料: 7075-T6 铝合金  
尺寸:  $\phi$ 350\*286mm  
亮点: +使用精雕CAM软件完成五轴工艺  
+一次装夹完成7级249个叶片的开粗至精加工  
+不平衡量小于0.6微米

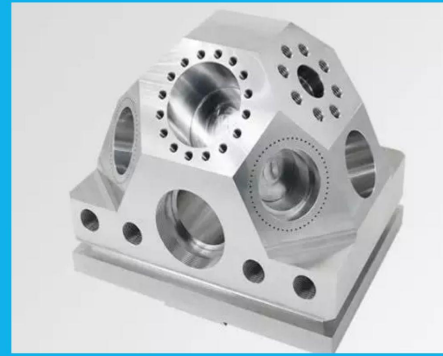


Turbine molecular pump seven-stage impeller  
material: 7075-T6 aluminum alloy  
size:  $\phi$ 350 \* 286 mm  
highlights: + use of carved CAM software to complete the five-axis process + a clamp to complete the seven-stage 249 blades of the open-thick to finish processing  
+ imbalance less than 0.6  $\mu$ m

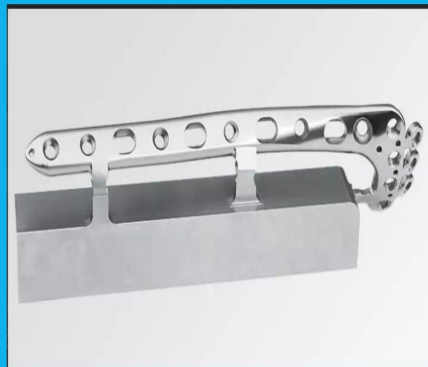


### 复合加工件

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

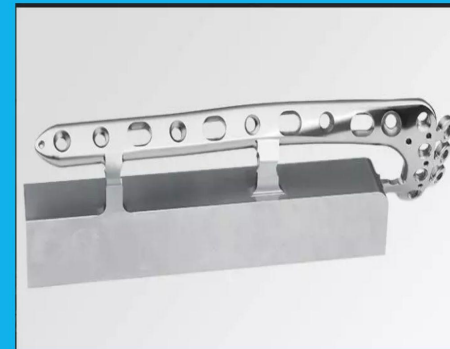


Composite workpiece  
material: 6061 aluminium alloy  
size: 200 \* 150 \* 150mm  
highlight: + one-time clamping to achieve milling, drilling, tapping, stranding, boring and other composite processing



### 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  $Ra < 0.8\mu m$



Plate,  
material: TC4  
Size: 240 \* 40 \* 17mm  
highlight: + total processing time: 2h45 min + material removal rate exceeding 90% + Surface roughness  $RA < 0.8 \mu m$

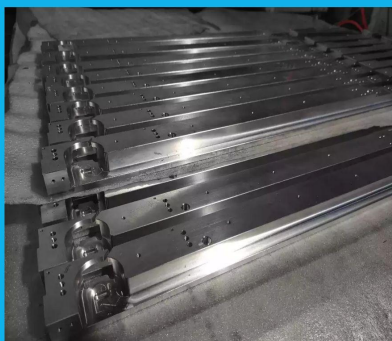


### 半导体真空腔体

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

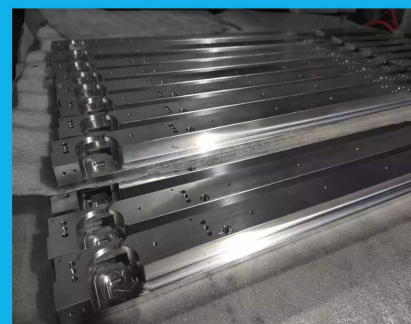


Semiconductor vacuum cavity  
material: aluminum alloy (A6061)  
size: 300 \* 900 \* 900  
highlights: + unique milling and grinding technology, achieve incredible accuracy,

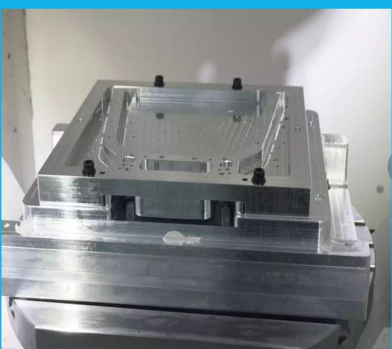


### 上料Y向基板

材料: 5083  
尺寸: 30\*20\*1260  
亮点: +稳定实现多种难切削材料的微小孔钻孔加工, 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 s  
mall hole drilling of a variety of dif  
ficult cutting materials, micropor  
ous processing is fast, accurate, st  
eady 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 $\pm 0.01\text{mm}$



On the template  
material: 7075-T651  
size: 365 \* 385 \* 390  
highlights: + 1 sequence to complete dri  
lling, tapping thread, milling, boring an  
d other types of processing, effectively i  
mprove the processing efficiency  
+ machining accuracy of  $\pm 0.01\text{ mm}$



### 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 $< 0.8\mu\text{m}$   
+刀片槽定位粗糙度 $\pm 0.01$



Water-cooled plat  
material: 5083  
size: 60 \* 750 \* 870  
bright spot: + surface smooth without  
Burr, part position roughness  $< 0.8\mu\text{m}$   
+ blade groove position roughness  $\pm$   
0.01

### 摄像头模组零件

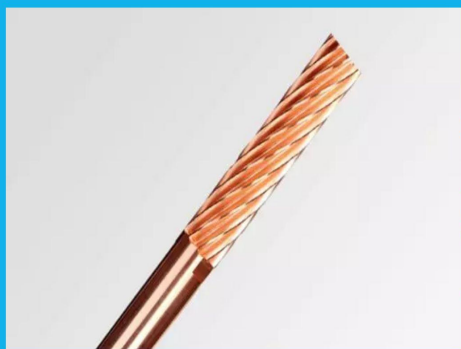


材料: 钛合金  
尺寸: 14.2\*14.2\*17.7  
亮点: +表面粗糙度 $<0.2\mu\text{m}$   
+尺寸精度 $<0.02\text{mm}$   
+产品无变形量, 全部棱边及通孔深处无毛刺

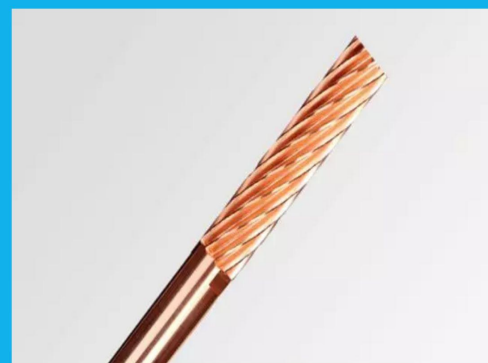


Camera module  
material: titanium alloy  
dimensions: 14.2 \* 14.2 \* 17.7  
highlights: + Surface roughness  
 $<0.2\mu\text{m}$   
+ dimensional accuracy  $<0.02\text{mm}$   
+ product deformation, all edges and through-hole depth without burrs

### 螺旋齿轮电极测试件

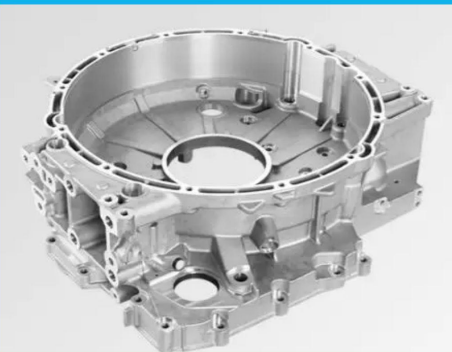


材料: 紫铜  
尺寸:  $\phi 12.5 * 60\text{mm}$   
亮点: +精雕高速机搭配通用硬质合金刀具加工齿轮电极  
+齿轮精度达日标0级水平

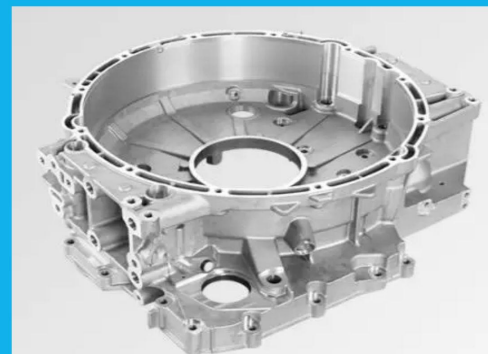


Spiral gear electrode  
material: Copper  
Size:  $\phi 12.5 * 60\text{mm}$   
bright spot: + carved high-speed machine with universal carbide tool machining gear electrode + gear accuracy up to standard 0 level

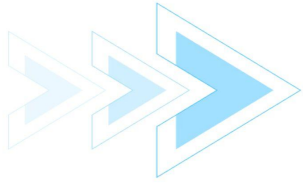
### 飞轮壳压铸件加工



材料: ADC12  
尺寸: 578\*560\*178mm  
亮点: +一次装夹, 完成多位加工



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



# 我们的优势

Our advantage

## · 多名知名品牌的代理商或合作伙伴

Several well-known brand agents or partners



## · 专业的团队

公司CNC部门当中工程人员及设计人员平均行业经验15年以上，并且从事过众多不同的高端行业，有着成熟的经验累积。

### 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.

## · 稳定的设备

生产设备定期进行维护校准，采用英国Renishaw激光球杆仪做循环测试，确保每台设备精度

### 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

## · 完善的检测体系

出厂前将会严格按照订单要求对产品的外观，结构进行全方面检测，杜绝产品的划伤、碰伤、加工不良、偏孔、毛刺、等一系列问题。每隔1个月将会对生产的刀具进行检测，每年按照标准把检具送至第三方效验。

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.

# 公司概况

Company profile

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,



上海缅迪航空科技有限公司  
Shanghai Miandi Aviation Technology Co., Ltd.

名称：上海缅迪航空科技有限公司

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成立时间：2017年05月15日

establishment time: 2017-05-15

注册资本：人民币200万

registered capital: RMB 2 million