



鑫言（绍兴）精密模架有限公司
Xinyan (Shaoxing) Precision Mold Base Co., Ltd.



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ABOUT 关于鑫言
XIN YAN

COMPANY POROFILE 公司简介

鑫言（绍兴）精密模架有限公司成立于2023年10月，位于杭州绕城高速柯桥西出口，杭州与绍兴交界处，距离杭州萧山国际机场20分钟车程，交通便利，四通八达。上海、江苏、宁波都在2个小时车程内。公司拥有自有生产厂房2万平米，员工60余人。业务范围包括：塑胶模架、压铸模架、非标模架等各种类型模架的生产与销售及P20、718、XPM、H13、H11模具钢的加工和销售。为客户提供高水平的产品。

公司拥有专业成熟的绘图编程团队，经验丰富的工人团体。

公司设备拥有3台大型卧式CNC，其中有日本仓敷AKB13；龙门CNC数控加工中心10台，最大型号3023。立式CNC数控加工中心12台；大小磨床2台；各类大小铣床6台；立式卧式锯床5台；其他生产辅助设备数十台含三座标。公司将专注模架行业加工技术，未来将引进更多的进口机床，利用先进设备为客户提供增值服务。

Xinyan (Shaoxing) Precision Mold Base Co., Ltd. was established in October 2023. It is located at the west exit of Keqiao on the Hangzhou Ring Expressway, at the junction of Hangzhou and Shaoxing. It is a 20-minute drive away from Hangzhou Xiaoshan International Airport, enjoying convenient transportation and being accessible from all directions. Shanghai, Jiangsu and Ningbo are all within a two-hour drive. The company owns a self-owned production plant covering an area of 20,000 square meters and has more than 60 employees.

The company has a professional and mature drafting and programming team as well as a group of workers with rich experience.

The company's equipment includes 3 large horizontal CNC machines, among which there is the Kuraki AKB13 from Japan; 10 gantry CNC machining centers, with the largest model being 3023; 12 vertical CNC machining centers; 2 grinding machines of different sizes; 6 milling machines of various sizes; 5 vertical and horizontal sawing machines; and dozens of other production auxiliary equipment including coordinate measuring machines. The company will focus on the processing technology in the mold base industry and will introduce more imported machine tools in the future, making use of advanced equipment to provide value-added services for customers.

ABOUT 关于鑫言 XIN YAN



从构思的蓝图初绘，到选材的严苛甄别；从零部件的精密制造，到整体架构的匠心装配；从模拟环境的反复测试，到性能数据的精细调校，每一步都饱蘸着团队的心血与智慧。

The team is composed of a group of far-sighted technology leaders, meticulous and deeply experienced mechanical masters and talented innovation pioneers. They each give play to their own strengths while collaborating and making progress together. They take their infinite enthusiasm for precision instruments as the driving force and their persistent adherence to excellent quality as the cornerstone.

PRODUT INTODUCTION 关于研发

团队由一群高瞻远瞩的科技领航者、精专深研的机械大师与才华横溢的创新先锋组成。他们各施所长，又协同共进，以对精密器械的无限热忱为能源，用对卓越品质的执着坚守为基石。

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PRODUT 产品介绍 INTRODUCTION

进口仓敷机

Imported Kurashiki Machine



进口仓敷机参数：

KBT-13EB-A 型号：镗杆直径130mm，工作台尺寸为2000×2200mm，承重30t，行程可达3000×2300×1600×650，主轴为BT50，采用齿轮头4档换速，转速达4000转，配备40把刀库，主电机功率37kw，系统为发那科31i。

特点：

机床的各部件布局合理，操作面板设计符合人体工程学，方便操作人员进行操作和编程。同时，机床的电气系统和液压系统都采用了模块化设计，便于维护和检修。

在设计上考虑了节能环保因素。采用了高效的电机和节能的液压系统，降低了机床的能耗。同时，通过优化加工工艺，减少了加工过程中的废料产生，符合现代工业的环保要求。

Parameters of the imported Kurashiki machine
Model KBT - 13EB - A: Boring bar diameter is 130mm. Worktable size is 2000×2200mm, with a load - bearing capacity of 30t. Travel can reach 3000×2300×1600×650. The spindle is of BT50 type, with a 4 - speed gear - head for speed change. The rotational speed can reach 4000 rpm. It is equipped with a 40 - tool magazine. The main motor power is 37kw, and the control system is FANUC 31i.

Features:

The components of the machine tool are reasonably arranged, and the operation panel is designed ergonomically, facilitating operators to operate and program. Meanwhile, both the electrical system and the hydraulic system of the machine tool adopt modular design, which is convenient for maintenance and repair. Energy - saving and environmental - protection factors are taken into account in the design. It uses high - efficiency motors and an energy - saving hydraulic system, reducing the energy consumption of the machine tool. Moreover, by optimizing the processing technology, the generation of waste materials during the processing is reduced, meeting the environmental requirements of modern industry.

固达龙门铣床

Guda Gantry Milling Machine



固达龙门铣床参数：

主轴转速范围：12000（rpm），定位精度500/+0.008mm，刀具数量24，三轴行程(X*Y*Z)1300/1100/500T 型槽尺寸(宽*数量)5X22X18型号齐全，按需定制。可开粗，可光面，可开框。

特点：

- 1.当代先进的设计制造技术，采用CAD优化设计方法，执行国家现行精度标准，配置国内、外先进的功能部件，结构性能上实现了力度强切削、机床动态、静态刚度高，加工效率高的高科技机电整体化产品。X,Y,Z轴按龙门加工中心公益及要求进行铲刮，装配。
- 2.条形电永磁吸盘，床身导轨伸缩式钢板防护罩，立柱导轨、横梁导轨风琴式防护罩。底座自带排屑槽，更宽更稳。床身底座宽度1500mm，超宽超长机床结构，刚性更好，更稳当。
- 4.机床的床身导轨供油采用外置泵站供油系统。智能补正刀粒磨损，提高加工精度。比市场上同款机床提高加工效率50%，智能数据记忆，批量加工更简单化。

Guda Gantry Milling Machine Parameters:

Spindle Speed Range: 12000 (rpm). Positioning Accuracy: 500/+0.008mm. Number of Tools: 24. Travel of Three Axes (XYZ): 1300/1100/500T. T - slot Dimensions (Width * Quantity): 5X22X18. A complete range of models is available and customized orders are accepted. It can be used for roughing, finishing, and pocket - milling.

Features:

1. Incorporating contemporary advanced design and manufacturing techniques, it adopts the CAD optimized design method, complies with current national precision standards, and is equipped with advanced functional components at home and abroad. In terms of structural performance, it is a high - tech electromechanical integrated product featuring high - strength cutting, high dynamic and static stiffness of the machine tool, and high processing efficiency. The X, Y, and Z axes are scraped and assembled according to the gantry machining center process and requirements.
2. It is equipped with a strip - shaped electro - permanent magnetic chuck, a telescopic steel plate protective cover for the bed guideways, and bellows - type protective covers for the column and cross - beam guideways. The base comes with a chip - removal groove, which is wider and more stable. The width of the bed base is 1500mm. The extra - wide and extra - long machine tool structure offers better rigidity and stability.
3. The bed guideways of the machine tool are supplied with oil by an external pumping station oil supply system. It can intelligently compensate for the wear of cutting inserts to improve processing accuracy. It increases the processing efficiency by 50% compared with similar machine tools on the market. With intelligent data memory, batch processing becomes more simplified.

PRODUT 产品介绍
INTRODUCTION

惠勒3023龙门CNC
Wheeler 3023 Gantry CNC



项 目	参 数
X轴行程	3000mm
Y轴行程	2200(副行程2700)mm
Z轴行程	1000mm
主轴端面至工作台距离	280-1280mm
龙门通过高度	1400mm
龙门宽度	2300mm
工作台尺寸	3000*2000mm
T型数量/尺寸/间距	9*28*200
最大承重	10000kg
主轴转速	50-6000rpm
驱动方式	皮带传动
主轴电机扭矩(额定/最大)	143/236Nm
主电机功率	15/18.5kw
X/Y/Z快移速度	12/10/10m/min
切削进给速度	1-8000mm/min
配重方式	氮气配重
最小给进量	0.001mm
刀库形式	ATC刀库(选配)
刀柄规格	BT-50
刀具最大长度	300mm
定位精度(X/Y/Z)	0.018/0.018/0.015mm
重复定位精度(X/Y/Z)	0.012/0.012/0.01mm
机床占地面积及高度	7830*5200*5370

雅力士立加
Yaris Vertical Machining Center



雅力士立加参数：

作台尺寸:1300x650mm ，三轴行程:1120x600x700mm，主轴鼻端至工作台距离:120-720mm，主轴转速:8000rpm，主轴锥度:BT40，主电机功率:11/15kw，刀库:24把，机床自重:9500kg，系统:发那科Oi-MD，两线一硬。

特点：

工件在一次装夹后可以自动连续地完成铣、钻、镗、扩、铰、铰、攻丝等多种工序的加工，板类、盘类、壳体类等复杂零件的多品种中小批量加工，模具行业模仁3D的精加工；散热器行业的加工；压铸件行业的2次机械深加工；批量铝件加工或钢件的批量加工等行业。

Yaris Vertical Machining Center Parameters:
Worktable Size: 1300x650mm, Travel of Three Axes: 1120x600x700mm, Distance from Spindle Nose to Worktable: 120 - 720mm
Spindle Speed: 8000rpm, Spindle Taper: BT40, Main Motor Power: 11/15kw, Tool Magazine Capacity: 24 tools, Machine Self - weight: 9500kg, Control System: FANUC Oi - MD, Guideway Type: Two linear guides and one hardened guideway.
Features:
Once the workpiece is clamped, it can automatically and continuously complete multiple machining processes such as milling, drilling, boring, enlarging, reaming, counter - sinking, and tapping. It is suitable for the small - to - medium - batch processing of various complex parts like plates, discs, and shells. It is also applicable to the 3D finish - machining of mold cores in the mold industry, the processing in the radiator industry, the secondary mechanical deep - processing in the die - casting industry, and the batch processing of aluminum or steel parts.

PRODUT 产品介绍 INTRODUCTION

2012磨床

2012 Grinding Machine



2012磨床参数：

加工能力(长×宽)：1500mm×1000mm/2000mm×1200mm /2500mm×1200mm

性能：X轴液压站+模拟变量油压驱动，Y、Z两轴伺服电机+精密螺杆驱动。平面加工精度：≥0.003mm/300mm，平面光洁度：≥Ra0.25μm

特点：

适用各种金属/非金属材料的平面、台阶、等深距沟槽、不等深距沟槽、曲面以及特定形状的精密磨削加工。应用于汽车、电子、航空航天、医疗器械、精密机械、模具制造等。

1、床身均采用高级铸铁，经由有限元素分析计算，并具极佳的抗弯及抗扭应力，更能确保各铸件体的稳定性。前后与上下轴均采用高精密超荷重线性滑轨，其高负荷、低磨损，能确保最小移动量，并确保长期使用之精度。

2、前后、上下轴均采用C3级高精密滚珠导螺杆，具高传动效率与精度，另搭配MPG机构，手动进给轻巧与精确。台湾原装精密研磨主轴，内部配制日本原装NSK高精度轴承，轴向/径向偏摆精度≤2μm以内。

3、Y、Z两轴用伺服电机+滚珠丝杆直联驱动，达到微量进给的需要，最小进刀量1μm。

2012 Grinding Machine Parameters:

Processing Capacity (Length × Width): 1500mm×1000mm / 2000mm×1200mm / 2500mm×1200mm

Performance: The X - axis is driven by a hydraulic station + simulated variable oil pressure, while the Y and Z axes are driven by servo motors + precision lead screws.

Flat - surface Processing Accuracy: ≥0.003mm/300mm, Surface Finish: ≥Ra0.25μm

Features: It is applicable to the precision grinding of planes, steps, grooves with equal depth, grooves with unequal depth, curved surfaces, and specific - shaped parts for various metal and non - metal materials. It is used in industries such as automotive, electronics, aerospace, medical devices, precision machinery, and mold manufacturing.

1. The machine bed is made of high - grade cast iron, analyzed and calculated by finite element method. It has excellent bending and torsional stress resistance, ensuring the stability of each casting. The front - rear and up - down axes all adopt high - precision, super - load linear slide rails. With high load - bearing capacity and low wear, they can ensure the minimum movement and maintain long - term accuracy.

2. The front - rear and up - down axes all use C3 - grade high - precision ball lead screws, which have high transmission efficiency and accuracy. Additionally, they are equipped with an MPG mechanism for light and accurate manual feeding. The precision - ground spindle is originally from Taiwan, internally equipped with original Japanese NSK high - precision bearings. The axial/radial run - out accuracy is ≤2μm.

3. The Y and Z axes are directly driven by servo motors + ball screws to meet the need for micro - feeding. The minimum cutting depth is 1μm.

三坐标

Coordinate
Measuring Machine



三坐标特点：

1、全硬质合金铝机械框架：合金铝密度小，提高测量机的动态性能，提高测量效率。全铝框架易于实现材料的一致性，能够在温度变化时，保证各部分的变形一致，加上先进的温度补偿技术，使得精度更加准确可靠。

2、柔性气动平衡：独特的气动平衡技术，采用柔性悬挂系统，避免了轴向运动和传动系统之间的干涉问题，提高了测量机的精度和长期稳定性。

3、高分辨率光栅系统：具有超强抗干扰能力和抗磨损功能。一端刚性连接，一端弹性连接，保证在温度环境变化情况下的线性变化。系统最高分辨率可达到0.005μm。

4、精密三角梁桥架设计：具有最佳的结构刚性比，以提供更高的精度、长期的稳定性和更高的动态性能。三角形的结构稳固，较传统设计刚性提高25%，X向导轨重心降低50%，运行速度更快、占地更小、热稳定性更好。

5、开敞的测量空间：采用导轨与台面平齐的设计，安放更加容易，各个方向无阻碍地进行测量。

Characteristics of the Coordinate Measuring Machine:

1. All - Carbide Aluminum Mechanical Frame: Aluminum alloy has a low density, which improves the dynamic performance of the measuring machine and enhances measurement efficiency. The all - aluminum frame makes it easy to achieve material consistency. When the temperature changes, it can ensure that all parts deform uniformly. Coupled with advanced temperature compensation technology, the accuracy is more accurate and reliable.

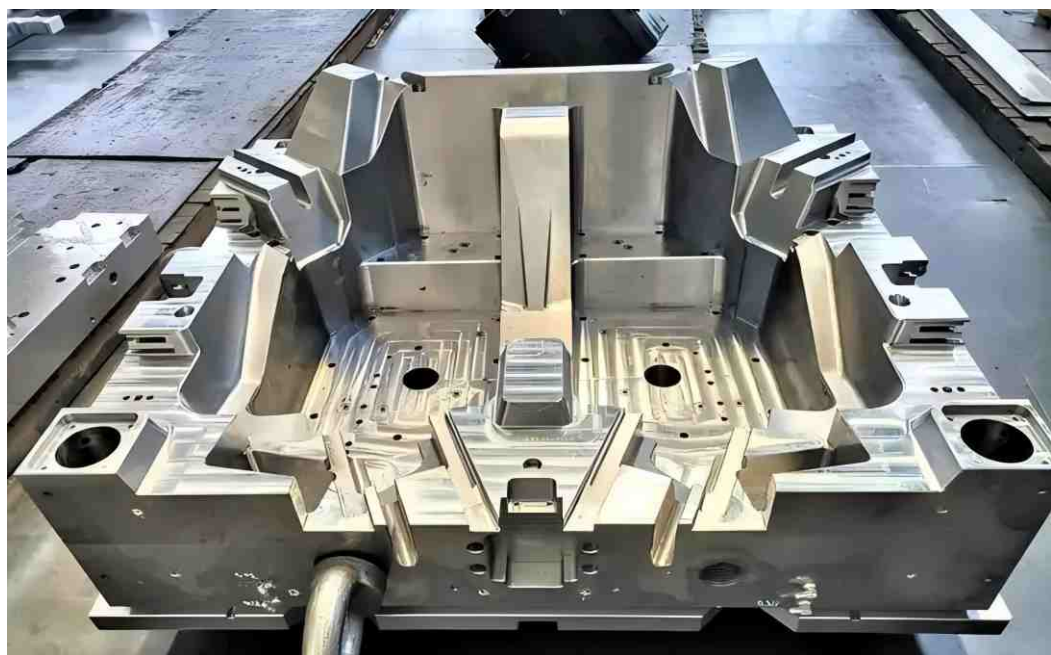
2. Flexible Pneumatic Balancing: The unique pneumatic balancing technology uses a flexible suspension system to avoid interference between axial movement and the transmission system, improving the accuracy and long - term stability of the measuring machine.

3. High - Resolution Grating System: It has a super anti - interference ability and anti - wear function. One end is rigidly connected and the other end is elastically connected to ensure linear change under changing temperature conditions. The highest resolution of the system can reach 0.005μm.

4. Precision Triangular Beam Bridge Design: It has the best structural rigidity ratio to provide higher accuracy, long - term stability, and better dynamic performance. The triangular structure is stable. Compared with traditional designs, the rigidity is increased by 25%, the center of gravity of the X - direction guide rail is reduced by 50%, resulting in faster running speed, smaller footprint, and better thermal stability.

5. Open Measuring Space: The design with the guide rail flush with the tabletop makes placement easier, allowing unobstructed measurement in all directions.

PROCESSING
EXAMPLES
加工实例



产品图片 Product pictures



产品图片 Product pictures



产品图片 Product pictures



产品图片 Product pictures



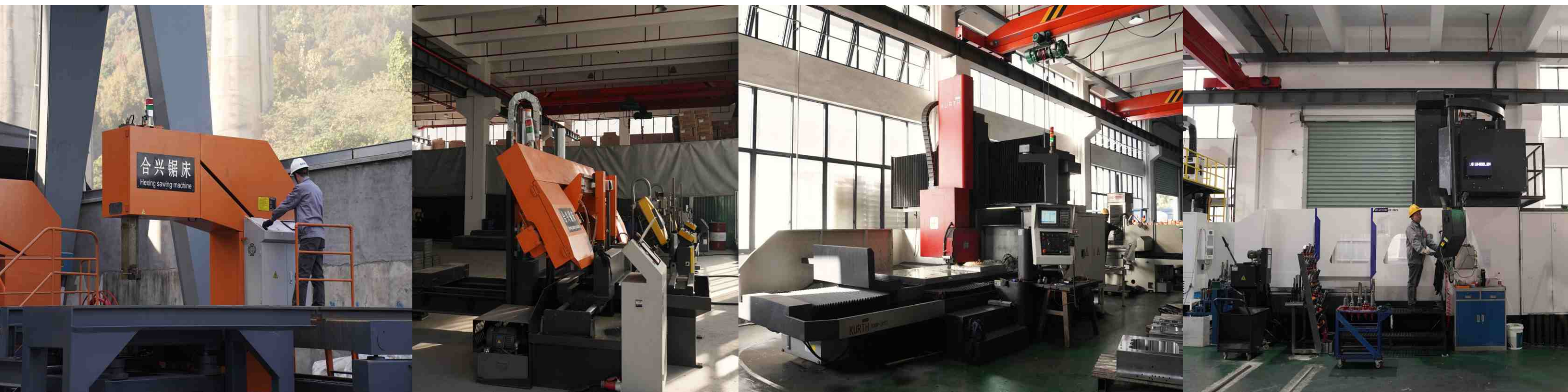
产品图片 Product pictures



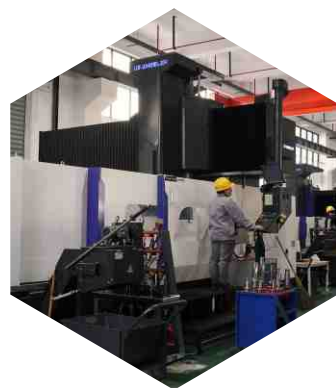
产品图片 Product pictures



产品图片 Product pictures



PRODUCTION 生产车间 WORKSHOP



车间有高精度的加工设备，如数控加工中心，它能够精确地切割、钻孔和铣削金属材料，确保模架的各个零件尺寸精准。还有磨床，用于对零件表面进行精细研磨，使其达到很高的平面度和光洁度要求。电火花加工设备，用于加工一些具有复杂形状的模具零件。

在材料存放区，会放置各种模具用的金属材料，像优质钢材等。检验区域配备了精密的量具，如三坐标测量仪，能对模架的尺寸精度、形状精度等进行严格检测，保证产品质量符合精密制造的标准。车间环境要求较高，温度和湿度一般会被控制在一定范围内，避免环境因素影响模架的精度。同时，车间有经验丰富的技术人员和操作工人，严格按照生产工艺和质量标准进行操作，确保生产出高质量的精密模架。

The workshop is equipped with high-precision processing equipment. For example, the CNC machining center can accurately cut, drill, and mill metal materials to ensure that the dimensions of each part of the mold base are precise. There is also a grinding machine, which is used for fine grinding of the part surface to meet high requirements for flatness and surface finish. The electrical discharge machining equipment is used to process some mold parts with complex shapes.

In the material storage area, various metal materials for molds, such as high-quality steel, are placed. The inspection area is equipped with precision measuring tools, such as a coordinate measuring machine, which can strictly detect the dimensional accuracy and shape accuracy of the mold base to ensure that the product quality meets the standards of precision manufacturing. The workshop environment has high requirements. Generally, the temperature and humidity are controlled within a certain range to avoid the influence of environmental factors on the accuracy of the mold base. At the same time, there are experienced technicians and operators in the workshop who operate strictly in accordance with the production process and quality standards to ensure the production of high-quality precision mold bases.

PRODUCTION 生产车间 WORKSHOP

CNC
加工组
Processing GroupMedium



CNC
中型加工组
Sized Processing GroupGantry



CNC
龙门加工组
Processing GroupFinish



CNC
加工组
Processing GroupMedium



材料加工组
Material Processing Group



精加工组
Machining Group



COOPERATIVE 合作客户
CUSTOMERS



合作
共赢

