



- High accuracy 高精度 ■
- High efficiency 高效率 ■
- Energy conservation 节能 ■
- Environmental protection 环保 ■

吉斯特智能装备

GIST INTELLIGENT EQUIPMENT

品质创造价值 服务成就未来

QUALITY CREATES VALUE AND SERVICE CREATES THE FUTURE

江苏吉斯特科技有限公司
Jiangsu Gist Technology Co., Ltd

东台市简介 Introduction to Dongtai City

东台古称晏，又称西溪、东亭等，1987年东台撤县建市。东台市内拥有高铁站，客运汽车站。东台市自古以产盐出名。2019年以来被评为全国综合实力百强县市、全国绿色发展百强县市等称号。东台市历史悠久，有护国禅寺，弥陀寺，黄海国家森林公园，董永七仙女文化园等风景名胜。

Dongtai was called Yan in ancient times, also known as Xixi and Dongting. In 1987, Dongtai was removed from the county and established as a city. Dongtai City has a high-speed railway station and a passenger bus station. Dongtai City has been famous for producing salt since ancient times. Since 2019, it has been awarded the titles of national top 100 counties and cities with comprehensive strength and national top 100 counties and cities with green development. Dongtai has a long history, including Huguo temple, Mituo temple, Huanghai National Forest Park, Dongyong seven fairy Cultural Park and other scenic spots.



黄海国家森林公园



董永七仙女文化园

东台市地理位置和交通 Geographical location and transportation



无锡 180min

南京 180min

盐城 60min



上海 40min



公司简介 COMPANY PROFILE

江苏吉斯特科技有限公司（原东台市伟锋机械厂诞生于2012年）新公司成立于2020年4月，公司地址位于东台市五烈镇工业集中区1号，占地面积22亩，厂房建筑面积达11000㎡以上，总投资1亿元，2021年初开土动工建设2022年初竣工入住。

Giangu jist Technology Co., Ltd. (the former Dongtai Weifeng machinery factory was born in 2012) was established in April 2020. The company is located at No. 1, industrial concentration zone, WuLie Town, Dongtai City, covering an area of 22 mu. The building area of the plant is more than 11000 m², with a total investment of 100 million yuan. The construction is started in 2021 and completed in early 2022.



本公司是一家专业开发设计、生产制造、销售及售后服务于一体的拥有自主品牌的整机自动化设备制造厂家，公司拥有一批技术丰厚的设计团队和高素质的一线技能员工，可根据客户要求，为客户精心订制各种高精度、智能化的高端制造装备。

The company is a manufacturer of complete machine automation equipment with its own brand, which integrates professional development and design, production and manufacturing, sales and after-sales service. The company has a group of highly skilled design teams and high-quality front-line skilled employees, and can carefully customize various high-precision and intelligent high-end manufacturing equipment for customers according to customer requirements.



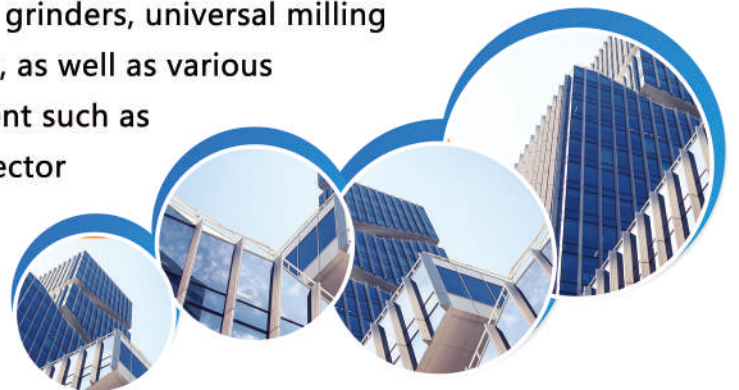
公司简介 COMPANY PROFILE

高端智能自动化设备应用于机车、发电机组、矿山机械、商用车、船舶等发动机核心零部件气门芯的加工制造，同发动机零部件世界隐形冠军德国MAHLE、全球知名的动力管理公司美国EATON等为代表的外资企业进入他们的全球采购体系；国内同行业知名零部件厂商西南地区的重庆三爱海陵公司、北方的济南沃德公司、南方广东地区的登云股份上市企业、央企中国兵器集团下属的湖南天雁公司等厂商建立了紧密的合作伙伴关系，拥有自行出口到国外土耳其、伊朗等国业务。

High end intelligent automation equipment is applied to the processing and manufacturing of engine core parts and valve cores such as locomotives, generator sets, mining machinery, commercial vehicles and ships. Foreign enterprises represented by MAHLE, the world invisible champion of engine parts, and Eaton, the world famous power management company, have entered their global procurement system; Domestic well-known parts manufacturers in the same industry, such as Chongqing Sanai Hailing company in the southwest, Jinan Ward company in the north, Dengyun listed company in Guangdong Province in the south, and Hunan Tianyan company under the central enterprise China Ordnance Group, have established close cooperative partnership, and have their own business of exporting to foreign countries such as Türkiye and Iran.

公司目前拥有五轴加工中心设备1台套，数台套的小型加工中心设备及配套使用的数台数控车床、平面磨床、万能铣床等装备，拥有圆度仪、轮廓仪、投影仪等各种高精检测检测设备。

At present, the company has one set of five axis machining center equipment, several sets of small machining center equipment and several sets of supporting CNC lathes, surface grinders, universal milling machines and other equipment, as well as various high-precision testing equipment such as roundness meter, profiler, projector and soon.



公司简介 COMPANY PROFILE

公司与坐落在省会南京市的东南大学进行“校企合作”成立专用设备产学研合作研究课题，为日后研发磨削加工集成系统升级提供有力保证，公司拥有多项发明专利和实用新型，2022年度获得江苏省高新技术企业称号。

The company has carried out "school enterprise cooperation" with Southeast University located in Nanjing, the capital of Jiangsu Province, and set up a special equipment industry university research cooperation research project, which provides a strong guarantee for the future research and development of grinding and machining integrated system upgrading. The company has a number of independent invention patents and uses new models, and won the title of high-tech enterprise in Jiangsu Province in 2022.



公司已通过ISO9001:2015质量管理体系、ISO14001:2015环境管理体系、ISO45001:2018职业健康安全管理体系等各项体系认证，落实执行各项体系管理要求，不断持续创新改进来满足客户全方位的需求。秉承以人为本、合作共赢、客户至上的原则，在此热烈欢迎广大国内外客户莅临我司参观指导！

The company has passed iso9001:2015 quality management system, iso14001:2015 environmental management system, iso45001:2018 occupational health and safety management system and other system certifications, implemented various management requirements, and continued to innovate and improve to meet the comprehensive needs of customers. Adhering to the principles of people-oriented, win-win cooperation and customer first, we warmly welcome customers at home and abroad to visit our company!

企业文化 Culture of enterprise

经营理念

Business philosophy

品质是生命之本 诚信是立企之本
做人是兴企之本 创新是发展之本

Quality is the foundation of life, Honesty is the foundation of Enterprise, Life is the foundation of Enterprise, Lnnovation is the foundation of development

企业使命

Enterprise mission

服务客户 造福社会 惠泽员工
To serve customers and benefit the society

企业愿景

Corporate Vision

专注机床精品 成为国内领先
国际知名的数控机床制造企业
Focus on high-quality machine tools to become
a domestic leader, International famous CNC
machine tool manufacturing enterprises

核心价值观

Core Values

以人为本 客户至上
People first, Customer first

企业精神

Spirit of enterprise

追求卓越 大力强扬工匠精神
Striving for excellence and
strengthening the craftsman spirit

生产车间

Production workshop



资质荣誉 Qualification and honor



资质荣誉

Qualification and honor



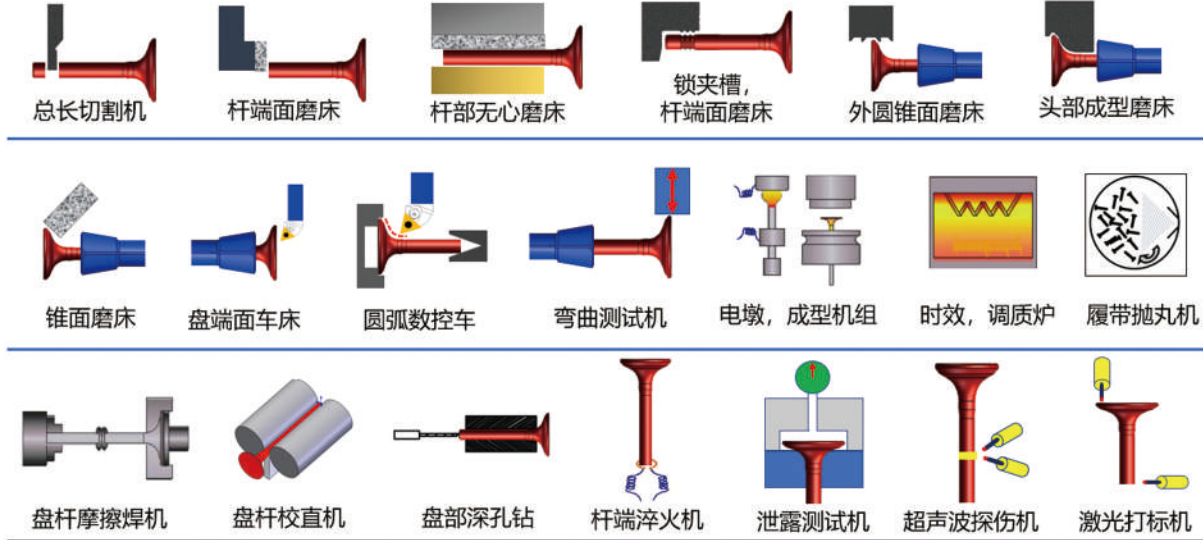
合作伙伴 Cooperative partner

MAHLE

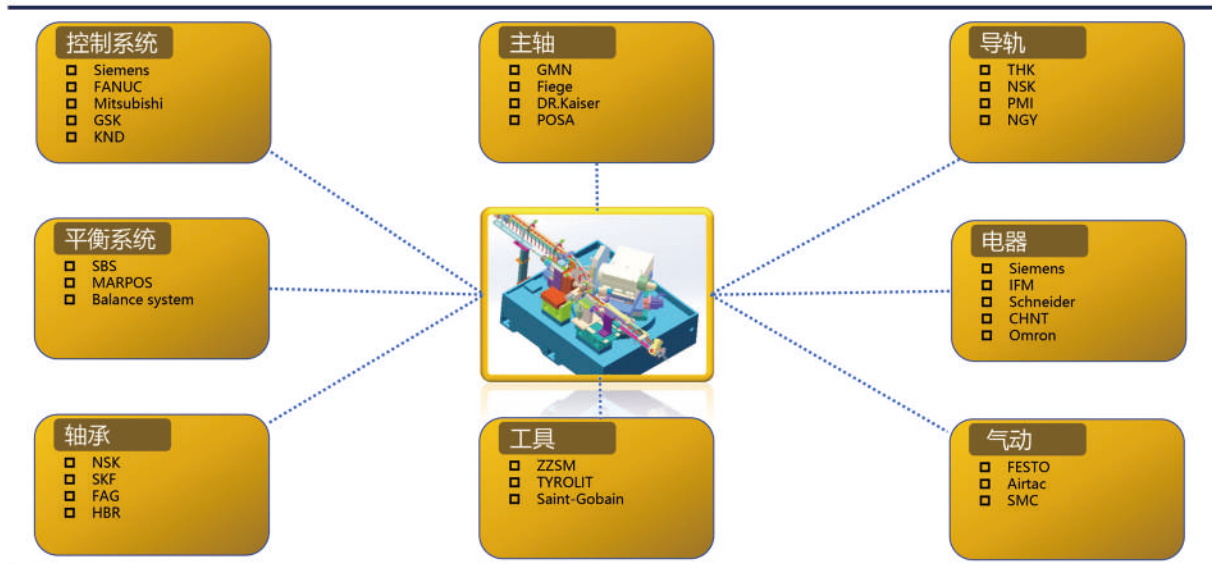
EATON



气门产线加工设备 Engine valve production line



设备可选配置 Optional configuration of the machines



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目录

DIRECTORY

- ▶ 总长切割机 Total length cutting machine
- ▶ 杆端面磨床 Rod end grinder
- ▶ 杆部无心磨 Rod centerless grinder
- ▶ 锁夹槽磨床 Lock clamp groove grinder
- ▶ 锁夹槽，杆端面磨床 Lock clamp groove, rod end grinder
- ▶ 盘外圆磨床 Disc external grinder
- ▶ CBN头部成型磨床 CBN head forming grinder
- ▶ 陶瓷CBN砂轮锥面磨 Fine cone grinder (CBN)
- ▶ 普通砂轮锥面磨 Fine cone grinder
- ▶ 数控盘端面车床 CNC disk end lathe
- ▶ 数控圆弧车床 CNC arc lathe
- ▶ 弯曲测试机 Bending tester
- ▶ 盘杆激光打标机 Laser marking machine
- ▶ 锥面泄露测试机 Leak tester
- ▶ 盘杆校直机 Rod straightening machine
- ▶ 电缴成型机组 Electric upsetting machine
- ▶ 6-工位深孔钻机床
6-position valve deep hole drilling machine
- ▶ 锻造合金模具 Forging alloy die
- ▶ 气门工位器具 Valve station appliance
- ▶ 电镀CBN砂轮 Electroplated CBN grinding wheel
- ▶ 自动化连线装置 Automatic connection device

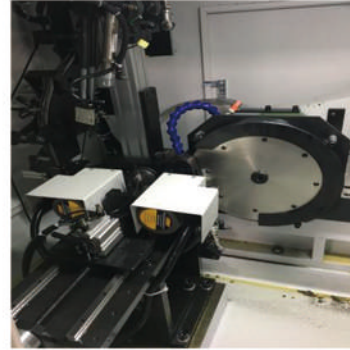
产 品 1 Products 1



总长切割机 Total length cutting machine

机床主要参数 Main parameters of machine tool

加工范围 Processing range	杆径	Rod diameter	Φ 4mm~Φ 12mm
	盘部直径	Disc diameter	Φ 20mm~Φ 55mm
	总长	Full length	60mm~220mm
加工精度 Machining accuracy	总长精度	Full length accuracy	<0.05mm
	垂直度	Verticality	<0.03mm
	粗糙度	Roughness	Ra2.5以内
加工效率 Processing efficiency	含上下料	Including loading	<7S/支
磨料 Abrasive materials	电镀CBN切片	Electroplated CBN chip	



机床主要配置 Main configuration of machine tool

▶机床主要进给拖板采用铸造件经两次回火后不易变形；

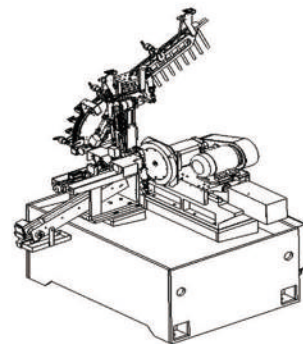
The main feed carriage of the machine tool is made of cast parts, which are not easily deformed after two tempering;

▶砂轮主轴采用机械主轴，三相异步电机驱动，NSK 系列角接触球轴承，CBN 砂轮线速度 100 米/s 以上；

The grinding wheel spindle adopts mechanical spindle, driven by three-phase asynchronous motor, NSK series angular contact ball bearing, and the linear speed of CBN grinding wheel is 100 m/s above;

▶机床运行采用日本三菱全系人机界面、PLC 及伺服电机驱动器，可实现调整参数、进给速度、通过人机界面读取班产量、循环加工时间及报警信息。

The operation of the machine tool adopts Mitsubishi's full human-machine interface, PLC and servo motor driver, which can adjust parameters, feed speed, read shift output, cycle processing time and alarm information through the human-machine interface.



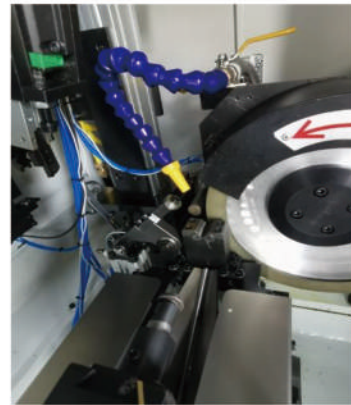
产 品2 Products 2



杆端面磨床 Rod end grinder

机床主要参数 Main parameters of machine tool

加工范围 Processing range	杆径	Rod diameter	Φ 4mm~ Φ 12mm
	盘部直径	Disc diameter	Φ 20mm~ Φ 55mm
	总长	Full length	60mm~220mm
加工精度 Machining accuracy	总长精度	Full length accuracy	<0.05mm
	垂直度	Verticality	<0.03mm
	粗糙度	Roughness	Ra2.5以内
加工效率 Processing efficiency	含上下料	Including loading	<7S/支
磨料 Abrasive materials	烧结CBN砂轮	Sintered CBN grinding wheel	



机床主要配置 Main configuration of machine tool

▶机床主要进给拖板采用铸造件经两次回火后不易变形；

The main feed carriage of the machine tool is made of cast parts, which are not easily deformed after two tempering;

▶砂轮主轴采用机械主轴，三相异步电机驱动，NSK 系列角接触球轴承，CBN 砂轮线速度 100 米/S 以上；

The grinding wheel spindle adopts mechanical spindle, driven by three-phase asynchronous motor, NSK series angular contact ball bearing, and the linear speed of CBN grinding wheel is 100 m/s above;

▶机床运行采用日本三菱全系人机界面、PLC 及伺服电机驱动器，可实现调整参数、进给速度、通过人机界面读取班产量、循环加工时间及报警信息。

The operation of the machine tool adopts Mitsubishi's full human-machine interface, PLC and servo motor driver, which can adjust parameters, feed speed, read shift output, cycle processing time and alarm information through the human-machine interface.human-machine interface.

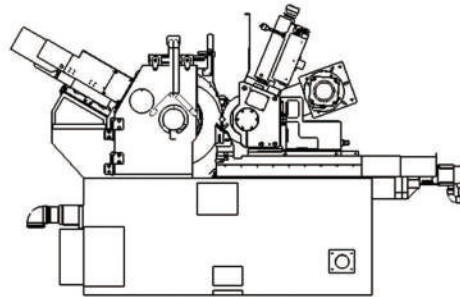
产 品 3 Products 3



杆部无心磨床 Rod centerless grinder

机床主要参数 Main parameters of machine tool

加工范围 Processing range	杆径	Rod diameter	Φ 4mm~Φ 12mm
	盘部直径	Disc diameter	Φ 20mm~Φ 55mm
	总长	Full length	60mm~220mm
加工精度 Machining accuracy	圆度	Roundness	0.002mm
	直线度	Verticality	0.003mm
	直径	Diameter	±0.002mm
	粗糙度	Roughness	Ra2.5以内
加工效率 Processing efficiency	含上下料	Including loading	<7S/支
磨料 Abrasive materials	普通砂轮&陶瓷CBN砂轮 Ordinary grinding wheel & Ceramic CBN grinding wheel		



机床主要配置 Main configuration of machine tool

▶砂轮主轴和导轮主轴均采用 NSK 系列角接触球轴承，导轮双支撑结构，回转精度高，稳定性好；

NSK series angular contact ball bearings are adopted for both the grinding wheel spindle and the guide wheel spindle. The guide wheel has a double support structure, with high rotation accuracy and good stability;

▶机床自动进给磨削，砂轮自动修整补偿，可安装金刚滚轮修整，导轮修整器采用手动进给；
The machine tool is automatically fed for grinding, the grinding wheel is automatically trimmed and compensated, and the diamond wheel can be installed for trimming. The guide wheel dresser adopts manual feeding;

▶机床运行采用日本三菱全系人机界面、PLC 及伺服电机驱动器，或西门子 828D 数控系统控制可实现调整参数、进给速度、通过人机界面读取班产量、循环加工时间及报警信息。

The operation of the machine tool is controlled by Mitsubishi's human-machine interface, PLC and servo motor driver, or Siemens 828d numerical control system. It can adjust parameters, feed speed, read shift output, cycle processing time and alarm information through the human-machine interface .

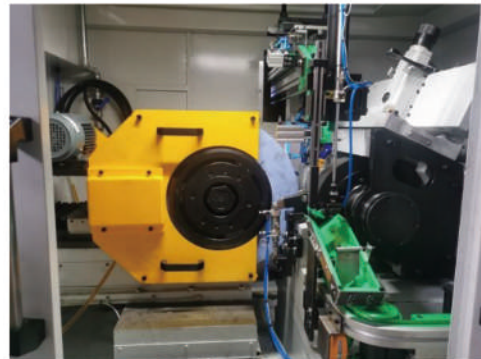
产 品 4 Products 4



锁夹槽磨床 Lock clamp groove grinder

机床主要参数 Main parameters of machine tool

加工范围 Processing range	杆径	Rod diameter	Φ 4mm~Φ 12mm
	盘部直径	Disc diameter	Φ 20mm~Φ 55mm
	总长	Full length	60mm~220mm
加工精度 Machining accuracy	槽直径	Groove diameter	±0.05mm
	槽轮廓	Groove profile	R±0.02mm
	槽跳动	Groove runout	<0.03mm
	粗糙度	Roughness	Ra0.8以内
加工效率 Processing efficiency	含上下料	Including loading	<7S/支
磨料 Abrasive materials	普通砂轮&电镀CBN砂轮 Common grinding wheel & electroplated CBN grinding wheel		



机床主要配置 Main configuration of machine tool

▶砂轮主轴采用电主轴，导轮主轴采用 NSK 系列角接触球轴承，导轮双支撑结构，回转精度高，稳定性好；

The spindle of the grinding wheel is an electric spindle, and the spindle of the guide wheel is NSK series angular contact ball bearing. The double support structure of the guide wheel has high rotation accuracy and good stability;

▶机床自动进给磨削，砂轮自动修整补偿，可安装金刚滚轮修整，导轮修整器采用手动进给；
The machine tool is automatically fed for grinding, the grinding wheel is automatically trimmed and compensated, and the diamond wheel can be installed for trimming. The guide wheel dresser adopts manual feeding;

▶机床运行采用日本三菱全系人机界面、PLC 及伺服电机配套的驱动器，可实现调整参数、进给速度、通过人机界面读取班产量、循环加工时间及报警信息。

The operation of the machine tool adopts Mitsubishi's full human-machine interface, PLC and servo motor matching driver, which can adjust parameters, feed speed, read shift output, cycle processing time and alarm information through the human-machine interface.

产 品 5 Products 5

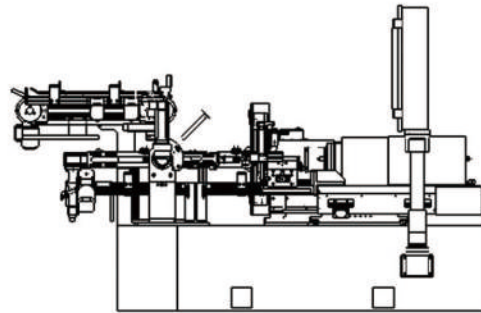


锁夹槽，杆端面磨床

Lock clamp groove, rod end grinder

机床主要参数 Main parameters of machine tool

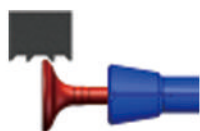
加工范围 Processing range	杆径	Rod diameter	$\Phi 4\text{mm} \sim \Phi 12\text{mm}$
	盘部直径	Disc diameter	$\Phi 20\text{mm} \sim \Phi 55\text{mm}$
	总长	Full length	60mm~220mm
加工精度 Machining accuracy	槽直径	Groove diameter	$\pm 0.05\text{mm}$
	槽轮廓	Groove profile	$R \pm 0.02\text{mm}$
	槽跳动	Groove runout	$< 0.03\text{mm}$
	粗糙度	Roughness	Ra0.8以内
加工效率 Processing efficiency	含上下料	Including loading	$< 7\text{S/支}$
磨料 Abrasive materials	普通砂轮&电镀CBN砂轮 Common grinding wheel & electroplated CBN grinding wheel		



机床主要配置 Main configuration of machine tool

- ▶ 砂轮主轴采用电主轴可内置在线动平衡功能，工件轴采用机械主轴由伺服电机驱动；
The grinding wheel spindle is an electric spindle with built-in online dynamic balancing function, and the workpiece spindle is a mechanical spindle driven by a servo motor;
- ▶ 采用有芯夹具夹持气门盘部，杆部辅助支撑，砂轮快速进给磨削一次磨削完成气门锁夹槽及杆端面的加工；
The valve disc is clamped by the core clamp, and the rod is supported by the rod. The grinding wheel is fed rapidly to finish the machining of the valve lock clamping groove and the rod end face at one time;
- ▶ 机床运行采用西门子数控系统或国产广数专用磨削数控系统，可实现调整参数、进给速度、通过屏幕读取班产量、循环加工时间及报警信息。
The operation of the machine tool adopts Siemens CNC System or domestic wide number special grinding CNC system, which can adjust parameters, feed speed, read shift output, cycle processing time and alarm information through the screen.

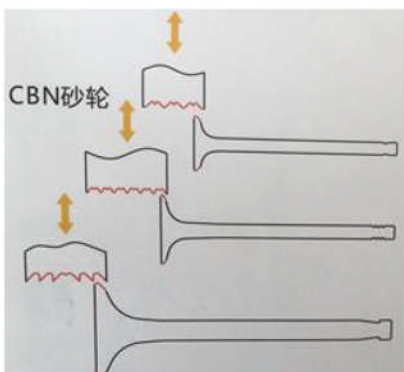
产 品 6 Products 6



盘外圆磨床 Disc external grinder

机床主要参数 Main parameters of machine tool

加工范围 Processing range	杆径	Rod diameter	Φ 4mm~ Φ 12mm
	盘部直径	Disc diameter	Φ 20mm~ Φ 55mm
	总长	Full length	60mm~220mm
加工精度 Machining accuracy	盘外圆跳动	Disc outer circle runout	<0.05mm
	外圆直径	Outer diameter	±0.03mm
	锥度量规	Cone gauge	±0.03mm
加工效率 Processing efficiency	含上下料	Including loading	<14S/支
磨料 Abrasive materials	电镀CBN砂轮 Electroplated CBN grinding wheel		



机床主要配置 Main configuration of machine tool

▶机床主要进给拖板采用铸造件经两次回火后不易变形；

The main feed carriage of the machine tool is made of cast parts, which are not easily deformed after two tempering;

▶砂轮主轴采用机械主轴，三相异步电机驱动，NSK 系列角接触球轴承，CBN 砂轮线速度 100 米/s 以上；

The grinding wheel spindle adopts mechanical spindle, driven by three-phase asynchronous motor, NSK series angular contact ball bearing, and the linear speed of CBN grinding wheel is 100 m /s above;

▶机床运行采用日本三菱全系人机界面、PLC 及伺服电机驱动器，可实现调整参数、进给速度、通过人机界面读取班产量、循环加工时间及报警信息。

The operation of the machine tool adopts Mitsubishi's full human-machine interface, PLC and servo motor driver, which can adjust parameters, feed speed, read shift output, cycle processing time and alarm information through the human-machine interface.

产 品 7 Products 7

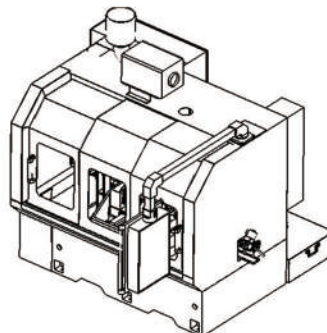


CBN头部成型磨床 (工件进给磨削)

CBN head forming grinder (workpiece feed grinding)

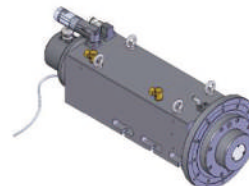
机床主要参数 Main parameters of machine tool

加工范围 Processing range	杆径 Rod diameter	Φ 4mm~Φ 12mm
	盘部直径 Disc diameter	Φ 20mm~Φ 55mm
	总长 Full length	60mm~220mm
加工精度 Machining accuracy	盘外圆跳动 Disc outer circle runout	<0.05mm
	外圆直径 Outer diameter	±0.03mm
	锥面量规 Cone gauge	±0.03mm
加工效率 Processing efficiency	R部位粗糙度 Roughness of R part	Rz值<10
	含上下料 Including loading	<9S/支
磨料 Abrasive materials	电镀CBN砂轮 Electroplated CBN grinding wheel	



机床主要配置 Main configuration of machine tool

▶砂轮主轴采用德国 Heinz Fiege 电主轴内置意大利 Balance 在线动平衡，工件轴采用机械主轴由伺服电机驱动，CBN 砂轮线速度 150m/s；
The grinding wheel spindle adopts German Heinz FIEGE electric spindle with built-in Italian balance online dynamic balance. The workpiece spindle adopts mechanical spindle and is driven by servo motor. The linear speed of CBN grinding wheel is 150m / S;

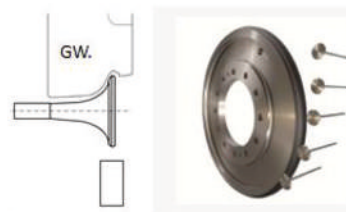


▶采用有芯夹具夹持气门杆部，盘部辅助支撑，工件进给磨削一次磨削完成气门头部位置的磨削加工；

The valve stem is clamped by the core clamp, and the disc is supported by the disk. The workpiece is fed and ground once to complete the grinding process of the valve head position;

▶机床运行采用西门子数控系统，可实现调整参数、进给速度、通过屏幕读取班产量、循环加工时间及报警信息。

Siemens CNC system is adopted for the operation of the machine tool, which can adjust the parameters, feed speed, read the shift output, cycle processing time and alarm information through the screen.



产 品 8 Products 8

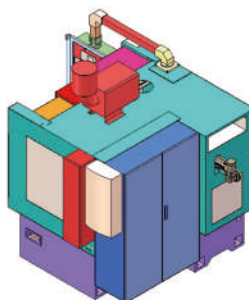
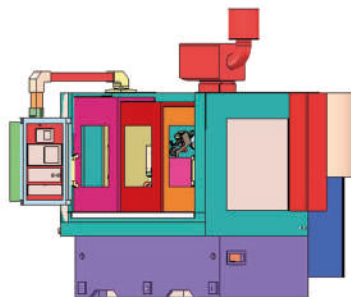


CBN头部成型磨床 (砂轮进给磨削, 伺服上料)

CBN forming head grinder (grinding wheel feed grinding, servo feeding)

机床主要参数 Main parameters of machine tool

加工范围 Processing range	杆径	Rod diameter	Φ 4mm~Φ 12mm
	盘部直径	Disc diameter	Φ 20mm~Φ 55mm
	总长	Full length	60mm~220mm
加工精度 Machining accuracy	盘外圆跳动	Disc outer circle runout	<0.05mm
	外圆直径	Outer diameter	±0.03mm
	锥面量规	Cone gauge	±0.03mm
	R部位粗糙度	Roughness of R part	Rz值<10
加工效率 Processing efficiency	含上下料	Including loading	<9S/支
磨料 Abrasive materials	电镀CBN砂轮 Electroplated CBN grinding wheel		



机床主要配置 Main configuration of machine tool

▶砂轮主轴采用德国 Heinz Fiege 电主轴内置意大利 Balance 在线动平衡, 工件轴采用机械主轴由伺服电机驱动, CBN 砂轮线速度 150m/s;

The grinding wheel spindle adopts German Heinz FIEGE electric spindle with built-in Italian balance online dynamic balance. The workpiece spindle adopts mechanical spindle and is driven by servo motor. The linear speed of CBN grinding wheel is 150m / S;

▶采用有芯夹具夹持气门杆部, 盘部辅助支撑, 砂轮进给磨削一次磨削完成气门头部位置的磨削加工;

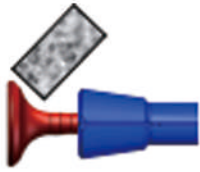
The valve stem is clamped by the core clamp, the disc is supported by the disc, and the grinding wheel is fed for grinding once to complete the grinding process of the valve head position;

▶机床运行采用西门子数控系统, 可实现调整参数、进给速度、通过屏幕读取班产量、循环加工时间及报警信息。

Siemens CNC system is adopted for the operation of the machine tool, which can adjust the parameters, feed speed, read the shift output, cycle processing time and alarm information through the screen.



产 品 9 Products 9

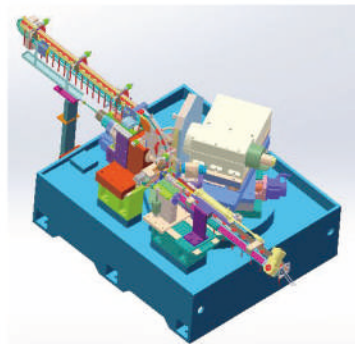
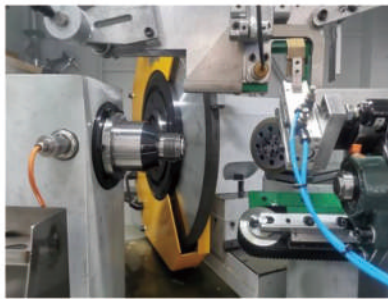


精锥面磨床 (陶瓷CBN砂轮)

Fine cone grinding (Ceramic CBN)

机床主要参数 Main parameters of machine tool

加工范围 Processing range	杆径	Rod diameter	Φ 4mm~Φ 12mm
	盘部直径	Disc diameter	Φ 20mm~Φ 55mm
	总长	Full length	60mm~220mm
加工精度 Machining accuracy	锥面跳动	Cone runout	<0.02mm
	锥面圆度	Cone roundness	<0.003mm
	锥面量规	Cone gauge	±0.03mm
	锥面角度范围	Cone angle range	44° ~71°
	粗糙度	Roughness	Ra0.4
加工效率 Processing efficiency	含上下料	Including loading	<7S/支
磨料 Abrasive materials	陶瓷CBN砂轮 Ceramic CBN grinding wheel		



机床主要配置 Main configuration of machine tool

▶砂轮主轴采用电主轴内置意大利 Balance 在线动平衡，工件轴采用机械主轴由伺服电机驱动，修整主轴内置 AE 传感器；

The grinding wheel spindle adopts the electric spindle with built-in Italian balance online dynamic balance, the workpiece spindle adopts the mechanical spindle driven by the servo motor, and the trimming spindle has built-in AE sensor;

▶采用单锥弹簧夹具夹持气门杆部，陶瓷 CBN 砂轮快速进给磨削，可兼顾普通碳化硅砂轮使用；

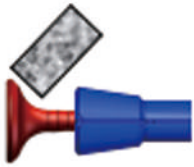
The single cone spring clamp is used to clamp the valve stem, and the ceramic CBN grinding wheel is used for rapid feed grinding, which can give consideration to the use of ordinary silicon carbide grinding wheel;

▶机床运行采用西门子数控系统，可实现调整参数、进给速度、通过屏幕读取班产量、循环加工时间及报警信息。

Siemens CNC system is adopted for the operation of the machine tool, which can adjust the parameters, feed speed, read the shift output, cycle processing time and alarm information through the screen.



产 品10 Products 10

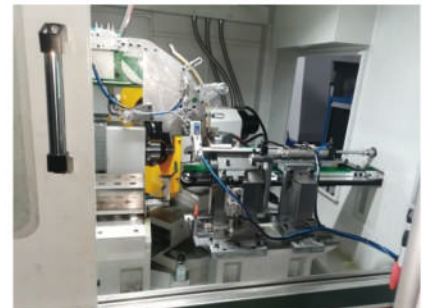


精锥面磨床（碳化硅砂轮）

Fine cone grinding (silicon carbide grinding wheel)

机床主要参数 Main parameters of machine tool

加工范围 Processing range	杆径 Rod diameter	Φ4mm~Φ12mm
	盘部直径 Disc diameter	Φ20mm~Φ55mm
	总长 Full length	60mm~220mm
加工精度 Machining accuracy	锥面跳动 Cone runout	<0.02mm
	锥面圆度 Cone roundness	<0.003mm
	锥面量规 Cone gauge	±0.03mm
	锥面角度范围 Cone angle range	44° ~71°
	粗糙度 Roughness	Ra0.4
加工效率 Processing efficiency	含上下料 Including loading	<7S/支
磨料 Abrasive materials	碳化硅砂轮 Silicon carbide grinding wheel	



机床主要配置 Main configuration of machine tool

▶砂轮主轴、工件主轴均采用机械主轴，砂轮主轴由三相异步马达驱动，工件主轴由伺服电机驱动，砂轮恒线速 60m/s；

Both the grinding wheel spindle and the workpiece spindle are mechanical spindles. The grinding wheel spindle is driven by a three-phase asynchronous motor, and the workpiece spindle is driven by a servo motor. The constant linear speed of the grinding wheel is 60m / S;

▶采用单锥弹簧夹具夹持气门杆部，砂轮快速进给磨削，砂轮自动修整自动补偿；

The valve stem is clamped by a single cone spring clamp, and the grinding wheel is rapidly fed for grinding, and the grinding wheel is automatically trimmed and compensated;

▶机床运行采用日本三菱全系人机界面、PLC 及配套的伺服电机，可实现调整参数、进给速度、通过屏幕读取班产量、循环加工时间及报警信息。

The operation of the machine tool adopts Mitsubishi's full human-machine interface, PLC and supporting servo motor, which can adjust parameters, feed speed, read shift output, cycle processing time and alarm information through the screen.





产 品11 Products 11

CNC盘端面车床 CNC disk end lathe

机床主要参数 Main parameters of machine tool

加工范围 Processing range	杆径 Rod diameter	Φ4mm~Φ12mm
	盘部直径 Disc diameter	Φ20mm~Φ55mm
	总长 Full length	60mm~220mm
加工精度 Machining accuracy	盘部平面到锥面尺寸 Dimension from disk plane to conical surface	±0.05mm
	外圆跳动 Outer circle runout	<0.05mm
	直径公差 Diameter tolerance	±0.03mm
加工效率 Processing efficiency	含上下料 Including loading	<7s/支
刀具 Tool	成型刀片 Forming blade	



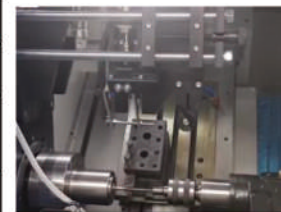
产 品12 Products 12



CNC圆弧数控车床 CNC arc lathe

机床主要参数 Main parameters of machine tool

加工范围 Processing range	杆径 Rod diameter	Φ4mm~Φ12mm
	盘部直径 Disc diameter	Φ20mm~Φ55mm
	总长 Full length	60mm~220mm
加工精度 Machining accuracy	盘部平面到锥面尺寸 Dimension from disk plane to conical surface	±0.05mm
	圆弧粗糙度 Arc roughness	Ra 1.2
	直径公差 Diameter tolerance	±0.03mm
加工效率 Processing efficiency	含上下料 Including loading	<7s/支
刀具 Tool	成型刀片 Forming blade	





产 品13 Products13

弯曲测试机 Bending tester

机床主要参数 Main parameters of machine tool

加工范围 Processing range	杆径	Rod diameter	Φ4mm~Φ12mm
	盘部直径	Disc diameter	Φ20mm~Φ55mm
	总长	Full length	60mm~220mm
弯检后数据 记录显示 Data record display after bending inspection	弯检力和弯检实际偏移量 Bending inspection force and actual deflection of bending inspection		
加工效率 Processing efficiency	含上下料	Including loading	<7S/支
工具 Tool	轴 承	Bearing	



产 品14 Products14

激光打标机 Laser marking machine

机床主要参数 Main parameters of machine tool

加工范围 Processing range	杆径	Rod diameter	Φ4mm~Φ12mm
	盘部直径	Disc diameter	Φ20mm~Φ55mm
	总长	Full length	60mm~220mm
定位方式 Positioning mode	杆端面定位 Rod end face positioning		
加工效率 Processing efficiency	含上下料	Including loading	<7S/支





产 品15 Products 15

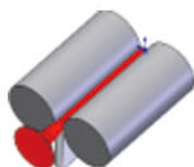
泄露测试机 Leak tester

机床主要参数 Main parameters of machine tool

检测范围 Detection range	杆径	Rod diameter	Φ 4mm~ Φ 12mm
	盘部直径	Disc diameter	Φ 20mm~ Φ 55mm
	总长	Full length	60mm~220mm
检测方法 Test method	压力检测	Pressure detection	
加工效率 Processing efficiency	含上下料	Including loading	<7S/支
模具 Tool	测漏气专用模具 Special mold for air leakage detection		



产 品16 Products16

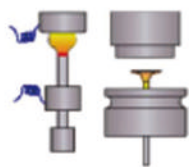


盘杆校直机 Rod straightening machine

机床主要参数 Main parameters of machine tool

加工范围 Processing range	杆径	Rod diameter	Φ 4mm~ Φ 12mm
	盘部直径	Disc diameter	Φ 20mm~ Φ 55mm
	总长	Full length	60mm~220mm
加工精度 Machining accuracy	杆直线度	Rod straightness	<0.1mm
	盘对杆跳动	Disc to rod runout	<0.15mm
加工效率 Processing efficiency	含上下料	Including loading	<7S/支
工具 Tool	滚轮	Roller	



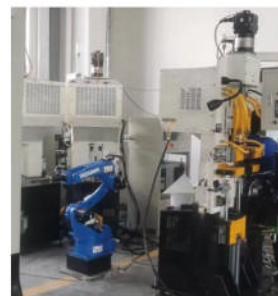


产 品17 Products17

电 墩 成 型 机 组 Electric upsetting machine

机床主要参数 Main parameters of machine tool

加工范围 Processing range	棒材直径 Rod diameter	Φ 4mm~Φ 12mm
	棒材总长 Full length	200mm~500mm
成型毛坯状态 Forming blank status	墩成型后总长进行测量统计,公差±0.2mm The total length after upsetting shall be measured and counted with a tolerance of ± 0.2mm	
	外观形状进行目视检测,应符合证蒜头外观光滑,无环形圈,折叠等缺陷,具有较好的以杆部轴线为基准的回转体外形。蒜头跳动量≤0.35mm The appearance shall conform to the requirements that the garlic head is smooth, free of defects such as annular ring and folding, and has a good shape of the rotating body based on the shaft axis. Garlic head runout ≤ 0.35mm	
加工效率 Processing efficiency	4台联机<10秒	



产 品18 Products 18

6-工位气门深孔钻机床

6-position valve deep hole drilling machine

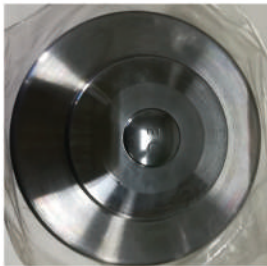
机床主要参数 Main parameters of machine tool

加工要求 Processing requirements	材料硬度 Material hardness	HRC 28~40
	加工余量 Machining allowance	55mm~110mm
	加工前直线度 Straightness before machining	0.02mm
加工精度 Machining accuracy	钻孔深度 Drilling depth	±0.25mm
	孔跳动 Hole runout	0.15mm
加工效率 Processing efficiency	含上下料 Including loading	60S/支
工具 Tool	钻头 Bit	

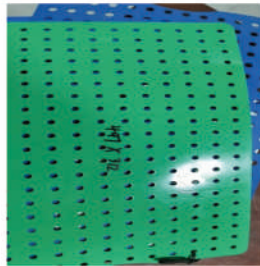
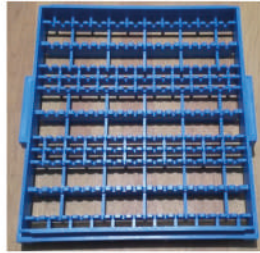


产 品19 Products19

锻造合金模具
Forging alloy die



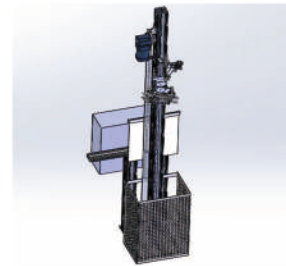
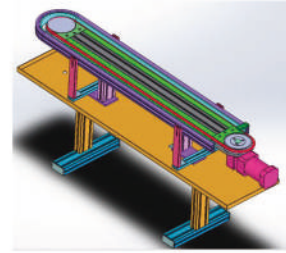
气门工位器具
Valve station appliance



CBN砂轮
Electroplated CBN grinding wheel



自动化连线装置
Automatic connection device





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