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宝鸡机床集团

宝鸡机床集团

国家数控系统工程技术研究中心

ABOUT US

宝鸡机床集团有限公司是1965年伴随共和国“三线”建设时期成长起来的机床制造企业。创建50多年来，几代员工以“匠心智造中国好机床”为使命，打造了“智能引领，双轮驱动，匠心制造，服务全球”的企业管理模式，在振兴民族装备制造业、推动高档数控机床产业化方面做出不懈努力，目前已发展成为以高端数控机床研发制造为主导、四大产业、七大园区协同发展的企业集团，是我国重要的中高档数控机床研发生产基地和智能制造基地，被命名为陕西省机床出口基地、陕西省智能制造试点示范企业、陕西省职业技能培训竞赛基地。

公司下辖十余家子公司，员工3500人。机床年产量20000台，收入30亿元，出口额2200万美元，主营业务收入多年来稳居中国机床工具行业前列。荣获全国五一劳动奖状、中国机械工业百强企业、中国出口质量安全示范企业、中国机械工业质量诚信企业、全国机械行业先进制造领域产教融合骨干企业，荣膺“第八届陕西质量奖”。

公司以创新驱动发展，以品牌引领发展，以人才支撑发展，建立起集人才、技术、创新于一体的完备研发制造体系，形成以智能机床、柔性加工单元、智能制造单元、自动生产线为主导的产品群，广泛应用于汽车、航空航天、军工、工程机械、职业院校等领域。着眼于海外市场，建立以东欧、东南亚、北美洲三大板块为主体的销售网络和服务体系。

依托国家数控系统工程技术研究中心陕西分中心，宝鸡机床集团致力于智能装备解决方案的深度研发与优化。融合先进制造技术和大数据、云平台，加快智能制造模式转型。

秉持“企业发展、员工受益、成果共享”的发展理念，宝鸡机床集团勇担社会责任，助推职业技能发展。近几年同全国20多所重点院校建立校企战略合作平台，为各级职业技能大赛提供上千台、价值过亿元的装备支持。

宝鸡机床集团有限公司以装备强企为己任，加大科技投入和产品研发力度，树百年企业，创世界品牌。

Baoji Machine Tool Group Co., Ltd. is a machine tool manufacturing enterprise which grew up in 1965 with the "three-line" construction period of the People's Republic of China. Over the past 50 years, with the mission of "Make China's best machines with ingenuity and smart.", several generations of employees have created an enterprise management mode of "intelligent guide, technology and market dual-wheel driving, ingenuity manufacturing and global service". It has made unremitting efforts in revitalizing national equipment manufacturing industry and promoting the industrialization of high-end CNC machine tools. At present, it has developed into an enterprise group with high-end CNC machine tool R&D and manufacturing as the leading factor, four major industries and seven major parks as the coordinated development. It is an important R&D and production base and intelligent manufacturing base of medium-and high-end CNC machine tools in China. It has been named as the export base of machine tools in Shaanxi Province and the Intelligent manufacturing pilot demonstration enterprises, Shaanxi vocational skills training and competition base.

The company has more than ten subsidiaries with total assets of 2 billion yuan and 3500 employees. The annual output of machine tools is 20,000, the annual income is 3 billion yuan, the annual export volume is 22 million US dollars. The main business income has been in the forefront of China's machine tool industry for many years. It has won the National May 1st Labor Award, China's Top 100 Machinery Industry Enterprises, China's Export Quality and Safety Demonstration Enterprises, China's Machinery Industry Quality Credit Enterprises, China's Machinery Industry's Key Enterprises of Integration of Production and Education in Advanced Manufacturing and the Eighth Shaanxi Quality Award.

With innovation-driven development, brand-based development and talent-supported development, the company has established a complete R&D and manufacturing system that integrates talent, technology and innovation, and formed a product group dominated by intelligent machine tools, flexible processing units, intelligent manufacturing units and automatic production lines. It has widely applied in the fields of automobile, aerospace, military industry, engineering machinery and vocational colleges. Focusing on overseas markets, we will establish a global sales network and service system with three major sectors of Eastern Europe, Southeast Asia and North America as the main body.

Relying on the Shaanxi Branch Center of National CNC Engineering Research Center, Baoji Machine Tool Group is committed to the in-depth research and optimization of intelligent equipment solutions. Integrating advanced manufacturing technology, big data and cloud platform, we will accelerate the transformation of intelligent manufacturing.

Adhering to the development concept of "Corporate growth; Benefit employees; Share achievements", Baoji Machine Tool Group takes on social responsibility and promotes the development of professional skills. In recent years, we have established strategic cooperation with more than 20 key colleges and universities in China. Meanwhile, we have provided total more than 300 sets high-end CNC machine tools for national first level skills competitions for several times and provided more than one thousand machine tools worth over 100 million yuan for vocational skills competitions.

Baoji Machine Tool Group Co., Ltd. takes equipping strong enterprises as its responsibility, increases investment in science and technology and product research and development, build century corporation and create a world brand.

发展历程和产业结构

HISTORY AND INDUS. STRUCTURE

2011



高速发展阶段，整体装备水平和产能全面提升。各项指标持续攀升，规模经济实现。
High-speed development stage; the corporation was well equipped; its production capacity was largely raised; all indicators continuously rose; scale economy notably appeared.

2007



整体改制为宝鸡机床集团有限公司
It was re-organized to Baoji Machine Tool Group Co., Ltd.

2001



1994



1985

更名为宝鸡机床厂
It was renamed Baoji Machine Tool Works



1983

更名为陕西精密机床维修厂
It was renamed Shaanxi Precision Machine Tool Maintenance Factory



1965

公司前身第一机械工业部精密机床西北维修总站成立。
Former of the corporation: Northwest Maintenance Head Station for Precision Machine Tool attached to First Machine Building Ministry was founded.

FUTURE

加快宝鸡机床品牌化运营，宝鸡机床综合经济效益跻身行业前列，倾力打造国际化装备制造企业集团。

Speed up branding of Baoji machine increase total economic indicator of Baoji machine to top of the field; manage to build an internationalized manufacturer.

TODAY

公司目前形成了以柔性制造单元、复合车铣中心、车削中心、加工中心、数控车床、医药机械、机床刀具等14大类，200个品种，400多个规格的产品群，广泛应用于汽车、航空、航天、工程机械、电子、军工、职业院校等行业。

四大产业

高档数控机床及数控刀具；新能源汽车关键零部件制造；机床再制造及服务；高端医疗、制药设备及备件生产。

Nowadays product groups appear. They are flexible manufacturing cell, mill-turning centers, turning centers, machining centers, CNC lathes, pharmaceutical machineries and industrial tools, which come into 14 classes, 200 models and over 400 specifications. They are widely used in automotive, aerospace, engineering machinery, electronics and military Vocational colleges industries.

4 industries
Machine tool Machine tool parts Pharmaceutical machinery
Industrial tool Automotive parts

2017

2018

2015

2013



行业深度调整，企业转型升级阶段，产品结构进一步优化，品牌知名度显著提升。

Industrial deep adjustment stage: corporation transformation & upgrading; product structure was further optimized; brand name was widely well-known.



组织构架

ORGANIZATIONAL STRUCTURE

集团公司下辖宝鸡忠诚机床股份有限公司，陕西关中工具制造有限公司、宝鸡忠诚制药机械有限公司等骨干企业在内的十余个子公司，占地1200多亩，形成了集团化发展格局。

The company under the jurisdiction of Baoji machine tool group loyalty Limited by Share Ltd, Shaanxi Guanzhong Tool Manufacturing Co., Ltd., Baoji loyalty system More than 10 subsidiary medicine machinery limited company and other key enterprises, covers an area of 1200 mu, the group formed the development pattern.



资格认证 / 荣誉证书

CERTIFICATION AND HONOR

ISO14001:2004国际环境管理体系认证
ISO14001 Environmental Management System

ISO9001:2008国际质量管理体系认证
ISO9001:2008 quality control system

CONFORMITE EUROPEENNE欧盟CE认证
CE safety norm

海关AA级信用
AA-class credit of CIQ

第八届陕西质量奖
8th Shaanxi Quality Award



领导关怀

CARE FROM LEADERS



中央政治局常委、国务院总理李克强与宝鸡机床集团高级技师握手交谈



中央政治局常委、中央纪律检查委员会书记、时任陕西省委书记赵乐际到公司视察



工业和信息化部部长苗圩莅临宝鸡机床展位



陕西省委书记胡和平视察宝鸡机床集团



陕西省省长刘国中视察公司

人才团队

TALENT TEAM

宝鸡机床集团秉持“人才是第一资源”的理念，大力实施“人才强企”战略，培养了一大批高技能人才、高科技人才，为企业发展积蓄了强有力的人才团队，为宝鸡机床集团可持续发展提供了有力的人才支撑。

This corporation takes the idea “talent is the first resource” and implements the strategy “make use of talents to strengthen the corporation”. Therefore a large number of outstanding craftsmen and hi-tech technicians are trained, which is a strong talent team for corporation development and a powerful technical support for corporation continuous growing.



田浩荣 Tian Haorong:
第十三届全国人大代表 全国劳动模范
享受国务院特殊津贴
田浩荣国家级技能大师(劳模创新)工作室带头人
陕西省首届十大杰出工人
陕西省三秦工匠



李晓佳 Li Xiaojia:
全国五一劳动奖章
享受国务院特殊津贴
陕西省人大代表
陕西省三秦工匠
陕西省首席技师
陕西省十大杰出能工巧匠



麻建军 Ma Jianjun:
中国工会十七大代表
全国五一劳动奖章
陕西省经济技术创新标兵
陕西省第五届十大杰出工人



杨忠州 Yang Zhongzhou:
陕西省三秦工匠
陕西省劳动模范
陕西省技术能手
杨忠州省级技能大师工作室带头人



张云飞 Zhang Yunfei:
陕西省机械冶金建材系统“产业工匠”
陕西省技术能手
宝鸡市第二届十大杰出工人



李宏林 Li Honglin:
陕西省技术能手
宝鸡市第三届十大杰出工人
李宏林市级技能大师工作室带头人



傅晨 Fu Chen:
陕西省五一劳动奖章
陕西省劳动竞赛标兵
宝鸡市十大杰出工人



苏忠堂 Su Zhongtang:
宝鸡市有突出贡献拔尖人才
宝鸡市五一劳动奖章获得者



王建军 Wang Jianjun:
宝鸡市“三五人才”
2015年第十二批“西部之光”访问学者
陕西省中青年科技创新领军人才



杨红军 Yang Hongjun:
宝鸡市“三五人才”
宝鸡市五一劳动奖章



邢军力 Xing Junli:
宝鸡市有突出贡献拔尖人才

完善的质控体系

COMPLETE QCS

我们的质量管理“四严”原则：严格过程控制 严肃工艺纪律 严查后道问题 严追领导责任

Our 4-words principle on quality: Manage process control precisely; abide by technological discipline strictly; check subsequent problems closely; investigate leader's responsibility carefully.

我们的质量理念：诚信质量 下道工序就是用户 人人都是检验员
Our Quality ideal: Honest quality; the next procedure is customer; everybody is inspector.

质量管理流程图 Quality Management Flowchart

运行：营销过程、采购外协管理过程、产品研发管理过程、生产制造管理过程、人力资源管理过程、产品质量管理过程、基础设施管理过程、信息化管理过程、财务管理
Operation: Marketing and sales process, Purchase management process, Product research and development management process, Manufacturing management process, Human resources management, Product quality management process, infrastructure management process, Informatization management, Financial management.

支持：人员、设施设备、工作环境、监视测量设备、信息和知识
Support: staff, facilities and equipment, working environment, inspecting and measuring devices, information and knowledge.



公司设有专门的计量理化检测中心，配备了完善的计量仪器及理化检测设备。除万能工具显微镜、万能测长仪、金相分析仪、硬度计、光谱分析仪等常规的理化计量仪器外，更有众多产自美国、日本、英国、德国、瑞士、意大利等国家的国际一流的计量仪器和检测设备50多台套，如：布朗夏普三坐标测量机、COORD3三坐标测量机、雷尼绍激光干涉仪、球杆仪，日本的圆度仪，德国申克动平衡仪等关键仪器。从入厂原材料的物理性能试验到化学成分分析及材料热处理过程检验；从零件制造的几何精度检验到整机装配的过程控制及成品出厂检验；从外购外协件到电器元件及部件总成检验，形成了一套生产优质零件，装配精品机床的全过程质量控制体系。

Well-equipped testing center is set up. There are universal tool microscope, universal meterscope, metallographic analyzer, hardness tester, spectrum analyzer, also over 50 sets of world-class instruments and testing machines from America, Japan, England, Germany, Switzerland and Italy, such as Brown & Sharpe coordinate measuring machine, COORD3 coordinate measuring machine, Renishaw laser interferometer, double ball bar, Japanese roundness tester, Schenck SmartBalancer. This is a complete testing system. So products---machine tools are controlled at every stage from the very beginning to the complete end. It includes stages from mechanical property testing and chemical composition analyzing of incoming raw materials to heat treatment inspection, from geometric testing of machined parts and machine assembly controlling to inspection of finished products for shipment, from outsourcing parts and electric elements inspection to assemblies inspection.



美国Brown & Sharp三坐标机
Brown & Sharp 3D CMM from America



意大利Coord3三坐标机
C oord3 CMM from Italy



德国申克动平衡仪
Schenck Smart Balancer from Germany



日本精密级圆度仪
Precision roundness measuring instrument from Japan



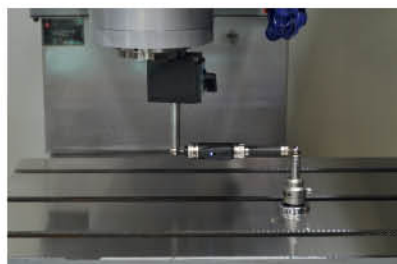
高清万工显
HD Universal microscope



英国雷尼绍激光干涉仪
Renishaw laser interferometer from Britain



ULTRA-2045准直仪
ULTRA-2045 collimator



英国雷尼绍球杆仪
Renishaw ball bar from Britain



碳硫分析仪
Carbon-sulfur analyzer



材料化实验室
Laboratory



齿轮检测仪
Gear measuring instrument

先进的加工设备和过程控制

ADVANCED EQUIPMENT FACILITY AND PROCESS CONTROL



机床装配车间
Machine assembly shop

公司生产手段先进，过程控制完善，拥有众多的高端设备，如：日本OKUMA五面体加工中心，西班牙克雷亚五面体加工中心，瑞士高精度精密外圆磨床，日本住友导轨磨床，德国、日本、韩国立、卧式加工中心等关键设备100多台，会同精密的计量检测仪器，确保了公司平面加工、箱体加工、齿轮加工、轴类加工等零件生产线和数控机床装配生产线的精度等级，使企业的加工、检测手段和制造能力处于国内同行前列。

The corporation has advanced production manners, complete process control and high-end facilities, such as OKUMA five-face machining center from Japan, CORREA five-face machining center from Spain, STUDER high precision high accuracy OD grinding machine from Switzerland, SUMITOMO guideway grinder from Japan and horizontal/vertical machining centers from Germany, Japan and Korea, all together over 100 sets. All those together with precise testing instruments ensure a high level machining accuracy of machine beds, cases, gears and shafts production lines and guarantee. So the company's machining and testing level, and manufacturing capacity has come to the fore in its sector.



总装调试现场
Machine adjusting scene



统一的仓储库房
Store house



日本住友数控龙门平面磨床
SUMITOMO gantry CNC surface grinder from Japan



日本高精度平面磨床
High precision surface grinder from Japan



瑞士高精度外圆磨床
High precision OD grinding machine form Switzerland



日本大隈五面体加工中心
Okuma five-face machining center from Japan



意大利PAMA数控镗铣床
PAMA CNC boring-milling machine from Italy



西班牙尼古拉斯克雷亚五面体加工中心
Nicolas Correa five-face machining center from Spain



韩国斗山卧加
DOOSAN horizontal machining center from Korea



日本卧加
Horizontal machining center from Japan



自动化生产线进行批量零件加工
Workpieces are machined in batches on auto production lines.



高精度磨齿机组
High precision gear grinding machine groups



瑞士坐标镗床
Coordinate boring machine from Switzerland



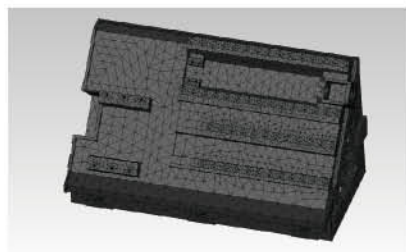
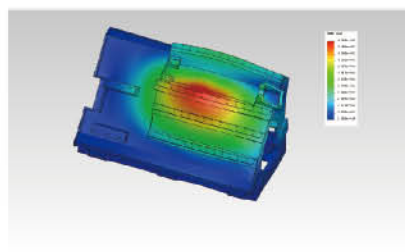
德国DMG卧加
DMG horizontal machining center from Germany

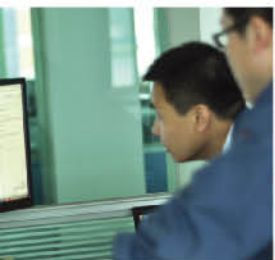
研发团队

R & D TEAM

>自主研发 >技术引进 >产学研合作

Independence R & D; Technology import; Industry-university-institute cooperation





公司现有工程类技术人员400多名，技术力量雄厚，技术装备先进。建有省级技术中心，拥有研发人员150多名，陕西省有突出贡献专家多名，国家专项津贴专家多名。产品开发全面采用CAD、CAPP系统，被评为“全国CAD应用工程示范企业”、“陕西省制造业信息化应用示范企业”。承担了多项国家高档数控机床与基础制造装备科技重大专项课题。公司拥有20多项专利，其中多项发明专利，2个驰名商标、2个名牌产品。通过自主创新、联合开发、技术引进等多种方式，全面提升技术的创新和产品的升级，使公司的产品线涉及的更加深入广泛，公司的核心竞争力得到不断提升。

The corporation has over 400 engineering technicians, abundant technical force and advanced technical equipment. A province-class technical center is set up with over 150 R&D personnel, some Shaanxi province-class outstanding contributors and some national allowance experts. Products are designed using CAD and CAPP. Titles awarded to the corporation are CAD APPLICATION DEMONSTRATOR and INFORMATION SYSTEM APPLICATION MODEL MANUFACTURER of SHAANXI. Several National Science and Technology Major Projects---high-end CNC machine and Basic Manufacturing Equipment have been undertaken. Over 20 patent rights are owned by the corporation, which include some inventions, 2 well-known brands and 2 famous brand products. Technical innovation and products updating is carried normally by self creation, joint developing and technical importing in order that our products are used much further and more abroad, and out core competitive power becomes stronger and stronger.

自主研发

公司坚持“三高一化”（高速、高精、高效、自动化）的产品开发理念，公司拥有省级技术中心及国家数控系统工程技术研究中心陕西分中心

Independence R & D

The corporation takes the idea “Three highs & one auto R & D” (high speed, high accuracy, high efficiency and automation). It has a province-class technical center and National Nc System Engineering Research Center ShaanXi Sub-Center.



技术引进

通过与美国、日本、韩国、台湾等地的多家企业、机构开展技术合作与引进，先后开发出了柔性制造单元、复合车铣中心、车削中心、加工中心等数控机床。

Technology import

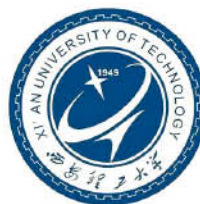
CNC machines--- flexible manufacturing cells, mill-turning centers, turning centers and machining centers, have been successively developed and produced by cooperating technically with and importing techniques from some enterprises and organizations in America, Japan, Korea and Chinese Taiwan.

产学研合作

为不断提高自主创新能力，先后与清华大学、哈尔滨工业大学、天津大学、西安交通大学、西安理工大学、重庆大学、中南大学等多家国内著名高校开展产学研合作，开发出具有自主知识产权的多款中高档数控机床。目前，公司已拥有多项有效专利。

Industry-university-institute cooperation

In order to raise the independent innovative ability the corporation has cooperated successively with domestically well-known colleges/universities, such as Tsinghua University, Harbin Institute of Technology, Tianjin University, Xi'an University of Technology, Chongqing University and Central South University. By cooperation some medium to top grade CNC machines are developed with independent intellectual property rights. Now the corporation has several valid patents.



卧式数控车床 (车铣中心)

Horizontal CNC lathe (Turning and milling center)

智能型卧式数控车床 : Intelligent Horizontal CNC Lathe
BL5i-C

高精型卧式数控车床 : High Precision Horizontal CNC Lathe
BL5-C CH7516GS/CK7516GS/CK7516G BM63150X/BMC63150C

高性能型卧式数控车床 : High Performance Horizontal CNC Lathe
CH75系列series (车削中心turning center) : CH7516 CH7520 CH7525 CH7530 CH7550 CH50C
CK75系列series : CK7516/A CK7520/A/B CK7525/A/B CK7530 CK7550
CK75 C系列 series : CK7516C CK7520C CK7525C CH25Y/CH30Y

TC系列 series : TC16 TC20

CK P系列 series : CK7620P

通用型卧式数控车床 : General Horizontal CNC Lathe

CK系列series : CK40/S/C CK50/S/C

实用型卧式数控车床 : Practical Horizontal CNC Lathe

BC系列 series : BC3731/BC3751

其它 : Other

GMTK卧式车铣复合加工中心Horizontal Turning-Milling compound machining center

MTK20车铣中心 Turning-Milling center

高速·高效·高精度



智能型卧式数控车床 BL5i-C

Intelligent Horizontal CNC Lathe BL5i-C

机床特点描述 / Machine Features Description

BL5i-C是一款智能数控车床,配备宝机B-800T智能系统,具有高速、高效、高精、智能等特点,主要精度压缩了国家标准的70%。适用于汽车、航天、军工等行业零件的高速、高精加工,适合于组建数字化车间。机床具备四项智能化功能:双码联控功能、热温度补偿功能、断刀检测功能、健康保障功能。

BL5i-C is an intelligent CNC lathe equipped with B-800T intelligent CNC system. It has the characteristics of high speed, high efficiency, high precision and intelligence. The main accuracy of BL5-C is reduced by 70% of the national standard. It is suitable for high-speed and high-precision processing of automotive, aerospace, military and other industries, and for setting up digital workshop. The machine tool has four intellectualized functions: dual code joint control function, thermal temperature compensation function, tool breaking detection function and health protection function.



参数列表 / Parameter List

项目/Item	单位/Unit	参数 / Parameters
最大回转直径 / Max. diameter swing over bed	mm	Φ500
最大车削直径 / Max. turning diameter	mm	Φ370
最大车削长度 / Max. turning length	mm	500
卡盘直径 / Chuck diameter	mm	Φ210 (8")
最大棒料直径 / Max. diameter of bar	mm	Φ51
主轴转速 / Spindle speed	r/min	4500
主轴电机功率 / Power of spindle motor	kw	11/15
行程 (X/Z) / travel (X/Z)	mm	210/510
快移速度 (X/Z) / Rapid travel speed	m/min	32/32



高精型卧式数控车床 BL5-C

High Precision Horizontal CNC Lathe BL5-C

高速高效 高精度 高端加工利器

High speed; high efficiency; high accuracy; High-end machining tools

机床特点描述 / Machine Features Description

BL5-C是一款高端数控车床，具有高速、高效、高精等特点，主要精度压缩了国家标准的70%。适用于汽车、航天、军工等行业零件的高速、高精加工。

BL5-C is an intelligent CNC lathe equipped with B-800T intelligent CNC system. It has the characteristics of high speed, high efficiency, high precision and intelligence. The main accuracy of BL5-C is reduced by 70% of the national standard. It is suitable for high-speed and high-precision processing of automotive, aerospace, military and other industries, and for setting up digital workshop. The machine tool has four intellectualized functions: dual code joint control function, thermal temperature compensation function, tool breaking detection function and health protection function.



参数列表 / Parameter List

项目/Item	单位/Unit	参数 / Parameters
最大车削长度 / Max. turning length	mm	500
最大车削直径 / Max. turning dia.	mm	Φ370
主轴通孔直径 / Spindle thru-hole	mm	Φ62
主轴转速 / Spindle speed	r/min	4500
主电机功率(连续/30分钟) / Power of main motor (cont./30 min)	kW	11/15
移动距离 X/Z / Travel X/Z	mm	210/550
快速移动速度 X/Z / Rapid traverse X/Z	m/min	32/32
重量 / Weight	Kg	4500

高精型卧式数控车床 CH7516GS

High Precision Horizontal CNC Lathe CH7516GS

高速高效 High speed and high efficiency;
以车代磨 Turning substitutes for grinding;
主轴分度 Spindle indexing;
动力刀架 Power turret

高速数控车削中心 / CH7516GS

High speed turning center

高速数控车床 / CK7516GS

High speed CNC lathe

精密数控车床 / CK7516G

Precision cnc lathe

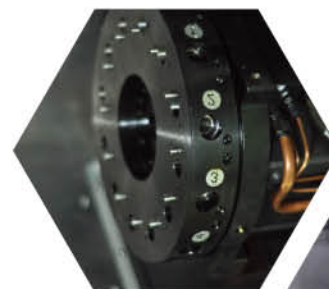
机床特点描述 / Machine Features Description

具有高速高效特点，能实现以车代磨的车削中心/数控车床。

It is a turning center with features of high speed, high efficiency and turning instead of grinding/CNC LATHE.

参数列表 / Parameter List

项目 / Item	单位 / Unit	CH7516GS	CK7516GS	CK7516G
最大回转直径 / Swing over bed	mm	Ø400	Ø400	Ø400
最大车削直径 / Max. turning diameter	mm	Ø285	Ø280	Ø285
最大车削长度 / Max. turning length	mm	370	420	400
卡盘直径 / Chuck diameter	mm	Ø175	Ø175	Ø165
最大棒料直径 / Max. bar diameter	mm	Ø35	Ø35	Ø42
主轴转速 / Spindle speed	r/min	60-6500(选择配置：8000)	60-6500(选择配置：8000)	55-5500
主轴电机功率(连续/30分钟) Spindle motor power (continuous/ 30min)	kW	15/18.7	15/18.7	11/15
移动行程(X/ Z) / Stroke (X/Z)	mm	165/410	165/460	165/410
快移速度(X/Z) / Rapid travel	m/min	42/42	42/42	16/20



CH7516GS用动力刀架



高精型卧式数控车床BM63150X/BMC63150C

High Precision Horizontal CNC Lathe BM63150X/BMC63150C

直驱式主轴 · 人造花岗岩床身 · 高精度 · 高效 · 高稳定车削中心/数控车床

Motor spindle; artificial granite bed; high accuracy; high efficiency; High stability; Turning center/CNC LATHE

机床特点描述 / Machine Features Description

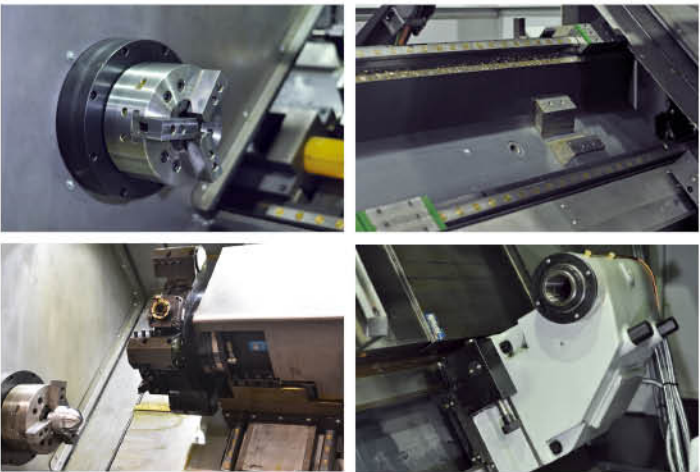
人造花岗岩整体式斜床身结构，精密直线滚动导轨、精密滚珠丝杠副、光栅尺闭环控制，大规格精密直驱式动静压主轴单元，高分辨率C轴，电机直连驱动伺服动力刀架，高档数控系统控制。

This turning center is designed with integrated base and slant bed made of artificial granite, precision linear rolling ways and precision ball screw pairs, closed loop control of encoders. The power motor spindle unit is of precision and large specification with dynamic/static pressure. C-axis has high resolution factor. The power turret is directly driven by a servo motor. Controlled by a high class CNC controller.



参数列表 / Parameter List

项目 / Item	单位 / Unit	BM63150X	BM63150C
床身上最大回转直径 / Max.swing dia.over bed	mm	Φ800	Φ800
最大车削直径 / Max. turning diameter	mm	Φ630	Φ630
最大车削长度 / Max. turning length	mm	1500	1500
液压卡盘直径 / Hydraulic chuck diameter	mm	Φ250(10 ")	Φ250(10 ")
主轴通孔直径 / Spindle bore diameter	mm	Φ105	Φ105
主轴转速 / Spindle speeds	r/min	50-3000	50-3000
主轴电机功率(连续/30分钟) Spindle motor power (continuous/ 30min)	kW	67.4/80	67.4/80
移动行程(X/Z) / Stroke(X/Y1/Z1/Z2)	mm	385/1500	385/1500
快移速度(X/Z) / Rapid travel	m/min	24/24	24/24
回转刀具电机功率 (连续/30分钟) Driving tool power (continuous/ 30min)	kW	9.7	
回转刀具速度 / Driving tool speed	r/min	3000	



高性能卧式数控车床CH75系列（车削中心）

High Performance Horizontal CNC Lathe CH75 series (turning center)

高速 · 高效 · 高精度

整体式斜床身 / 伺服驱动 / 高分辨率C轴 / 多工位转塔式动力刀架，
可实现主轴精确分度、刀具旋转的高速、高效、高精度

High speed; High efficiency; High accuracy

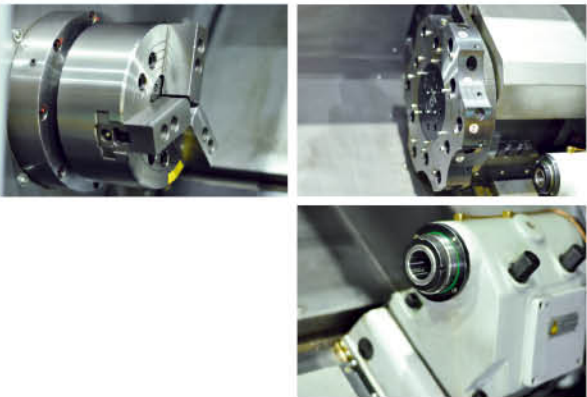
Integrated slant bed/ servo drive/ high resolution C-axis/ power turret with
multiple stations;
Accurately indexing spindle; tool revolving;

CH7516
CH7520系列
CH7525系列
CH7530系列
CH7550
CH50C

机床特点描述 / Machine Features Description

高强度铸铁整体式斜床身结构，淬硬+贴塑导轨副、精密滚珠丝杠副，主轴单元采用精密角接触球轴承和双列圆柱滚子轴承、伺服驱动，高分辨率C轴，多工位转塔式动力刀架，高档数控系统控制。高精度、稳定性好的车削中心。

These turning centers are designed with high grade cast iron integrated bases and slant beds, hardened bed ways, plastics-coated carriage and tailstock ways, and precision ball screw pairs. The spindles are supported by precision angular contact ball bearings and double row roller bearings, and driven by servo motors. C-axis has high resolution factor. The machines are equipped with multi-station power turrets and controlled by high class CNC controllers. They feature high accuracy and good stability.



参数列表 / Parameter List

项目/Item	单位 / Unit	参数 / Parameters						
		CH7516	CH7520 CH7520/1000	CH7525/500 CH7525/1500	CH7525	CH7530/800 CH7530	CH7550	CH50C
最大回转直径 / Swing over bed	mm	Φ400	Φ500/Φ450	Φ550		Φ660	Φ850	Φ500
最大车削直径 / Max. turning diameter	mm	Φ250	Φ280	Φ330		Φ450	Φ600	Φ280
最大车削长度 / Max. turning length	mm	340	490/960	450/950/1450		700/1400	1850	490
卡盘直径 / Chuck diameter	mm	Φ165(6 ")	Φ210(8 ")	Φ254(10 ")		Φ305(12 ")	Φ530 (21 ")	Φ210 (8 ")
最大棒料直径 / Max. bar diameter	mm	Φ42	Φ51	Φ73		Φ90	Φ90/无(中实)	Φ51
主轴转速 / Spindle speed	r/min	55-5500	40-4000	30-3000		25-2500	L : 8—530 H : 30—1200	75-2500
主轴电机功率(连续/30分钟) Spindle motor power (continuous/ 30min)	kW	11/15	11/15	15/18.5		22/30	30/37	11/15
移动行程(X/Z) / Stroke(X/Y1/Z1/Z2)	mm	165/350	210/510 210/980	240/470 240/970 240/1450		325/770 325/1470	315/1850	210/510
快移速度(X/Z) / Rapid travel	m/min	12/16	12/16	12/16		12/16	10/12	16/24
回转刀具电机功率 (连续/30分钟) Driving tool power (continuous/ 30min)	kw	1.1/3.7	3.7/5.5	3.7/5.5		5.5/7.5	5.5/7.5	3.7/5.5
回转刀具速度 / Driving tool speed	r/min	80-6000	40-4000	40-4000		30-3000	30-3000	40-4000

高性能型卧式数控车床CK7516/A CK7520/A/B

High Performance Horizontal CNC Lathe CK7516/A CK7520/A/B

CK7516 系列

高速 · 无级变速 · 全防护

High speed; Infinite variable speed; Full enclosed guard

回转直径 $\Phi 400$ mm以内的高速·无级变速·全防护数控机床，不同的配置带来不同的切削体验。

Swing diameter of $\Phi 400$ mm or less;

It gives you different experience if equipped differently.



CK7520 系列

机床特点描述 / Machine Features Description

- 1) 45°斜床身，无级调速，密封式防护，可选配刀架。
 - 2) 后缀带“A”的为国产伺服控制。
 - 3) 后缀带“B”的为主轴大孔径。
 - 4) 长度有500mm、1000mm、1500mm三种规格可选。
- 1) 45° slant bed, infinite variable speed, sealed guard, optional turret.
2) Letter A in the designation stands for frequency inverter.
3) Letter B in the designation stands for large spindle bore.
4) Four length of machine is available: 500mm, 1000mm and 1500mm.

参数列表 / Parameter List

项目 / Item	单位 / Unit	参数 / Parameters				
		CK7516	CK7516A	CK7520	CK7520A	CK7520B
最大回转直径 / Max. swing dia. over bed	mm	$\Phi 400$	$\Phi 400$	$\Phi 500/\Phi 450/\Phi 450$	$\Phi 500/\Phi 450/\Phi 450$	$\Phi 500/\Phi 450/\Phi 450$
最大车削直径 / Max. turning dia.	mm	$\Phi 285$	$\Phi 285$	$\Phi 370$	$\Phi 370$	$\Phi 370$
最大车削长度 / Max. turning length	mm	400	400	500/1000/1500	500/1000/1500	500/1000/1500
卡盘直径 / Chuck dia.	mm	$\Phi 165$	$\Phi 165$	$\Phi 210$	$\Phi 210$	$\Phi 254$
最大棒料直径 / Max. bar dia	mm	$\Phi 42$	$\Phi 42$	$\Phi 51$	$\Phi 51$	$\Phi 73$
主轴转速 / Spindle speed	r/min	55-5500	80-3500	40-4000	75-2500	30-3000
主轴电机功率 (连续/30分钟) Main motor power(continued/30minutes)	kW	11/15	7.5/11	11/15	15	11/15
行程(X/Z) / Travel (X/Z)	mm	165/410	165/410	210/550 210/1010 210/1550	210/550 210/1010 210/1550	210/550 210/1010 210/1550
快移速度(X/Z) / Rapid travel speed(X/Z)	m/min	12/16	12/16	12/16	12/16	12/16

高性能型卧式数控车床 CK7525/A

High Performance Horizontal CNC Lathe CK7525/A

全防护 · 高速 · 高效率 · 批量化切削

Full enclosed guard; high speed; high efficiency; batch production

回转直径Φ550mm以内的主轴无级变速、全防护，
高速、高效率、批量化切削利器，不同的配置带来不同的切削体验。

Infinite variable speed of spindle; swing diameter of ϕ 550 mm or less;
A good machine for batch production;
It gives you different experience if equipped differently.

机床特点描述 / Machine Features Description

- 1) 45°斜床身，无级调速，密封式防护。
- 2) 后缀带“A”的为国产伺服控制。
- 3) 长度有500mm、1000mm、1500mm三种规格可选。
- 1) 45° slant bed, infinite variable speed, sealed guard.
- 2) Letter A in the designation stands for frequency inverter.
- 3) Three length of machine is available: 500mm, 1000mm and 1500mm.



参数列表 / Parameter List

项目 / Item	单位 / Unit	参数 / Parameters					
		CK7525			CK7525A		
最大回转直径 / Max. swing dia. over bed	mm	Φ550			Φ550		
最大车削直径 / Max. cutting dia.	mm	Φ450			Φ450		
最大车削长度 / Max. turning length	mm	500/1000/1500			500/1000/1500		
卡盘直径 / Chuck dia.	mm	Φ254			Φ254		
最大棒料直径 / Max. bar dia.	mm	Φ73			Φ73		
主轴转速 / Spindle speed	r/min	30-3000			100-2000		
主轴电机功率 (连续/30分钟) Spindle motor power(continued/30minutes)	kW	15/18.5			18.5		
行程(X/Z) / Travel(X/Z)	mm	250/520	250/1010	250/1550	250/520	250/1010	250/1550
快移速度(X/Z) / Rapid travel speed(X/Z)	m/min	12/16			12/16		

高性能型卧式数控车床CK7530

High Performance Horizontal CNC Lathe CK7530

全防护 · 高速 · 高效率 · 批量化切削

Full enclosed guard, high speed, high efficiency, batch production

回转直径Φ670mm以内的主轴无级变速、全防护，
高速、高效率、批量化切削利器，不同的配置带来不同的切削体验。
Infinite variable speed of spindle; swing diameter of Φ 670 mm or less;
A good machine for batch production;
It gives you different experience if equipped differently.

机床特点描述 / Machine Features Description

高强度铸铁整体式斜床身结构，淬硬+贴塑导轨副、精密滚珠丝杠副，主轴单元采用双向推力角接触球轴承和双列圆柱滚子轴承，伺服驱动，多工位转塔式刀架，高档数控系统控制。是性能优越的较大规格数控车床。
The machine is designed with high grade cast iron integrated slant bed, hardened + plastics-coated guideways, and precision ball screws. The spindle is supported by precision angular contact ball bearings and double row roller bearings, driven by servo motor. It is a large specification excellent CNC lathe with multi-station power turret, controlled by high-end NC controller.

参数列表 / Parameter List

项目 / Item	单位 / Unit	CK7530
最大回转直径 / Max. swing dia. over bed	mm	Φ670
最大车削直径 / Max. turning dia.	mm	Φ600
最大车削长度 / Max. turning length	mm	800/1500/2000
卡盘直径 / Chuck dia.	mm	Φ305
最大棒料直径 / Max. bar dia.	mm	Φ90
主轴转速 / Spindle speed	r/min	25-2500
主轴电机功率(连续/30分钟) Main motor power(continued/30minutes)	kW	22/30
行程(X/Z) / Travel(X/Z)	mm	325/880 325/1550 325/2050
快移速度(X/Z) / Rapid travel speed(X/Z)	m/min	12/16



高性能型卧式数控车床CK7550

High Performance Horizontal CNC Lathe CK7550

CK7550/1500

CK7550/2000

CK7550/3000

全防护 · 高速 · 高效率 · 批量化切削

Full enclosed guard; high speed; high efficiency; batch production

回转直径Φ850mm以内的主轴无级变速、全防护，
高速、高效率、批量化切削利器，不同的规格满足不同的切削要求。

Infinite variable speed of spindle; swing diameter of Φ 850 mm or less;

A good machine for batch production;

It gives you different experience if equipped differently.

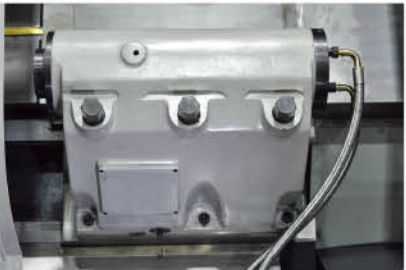
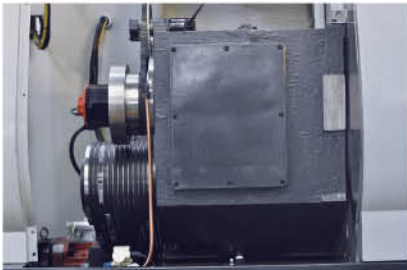
机床特点描述 / Machine Features Description

高强度铸铁整体式斜床身结构，淬硬+贴塑导轨副、精密滚珠丝杠副，主轴单元采用双向推力角接触球轴承和双列圆柱滚子轴承，伺服驱动，多工位转塔式动力刀架，高档数控系统控制，性能优越的大规格数控车床。

The machine is designed with high grade cast iron integrated slant bed, hardened + plastics-coated guideways, and precision ball screws. The spindle is supported by precision angular contact ball bearings and double row roller bearings, driven by servo motor. It is a large specification excellent CNC lathe with multi-station power turret, controlled by high-end NC controller.

参数列表 / Parameter List

项目 / Items	单位 / Unit	CK7550
最大回转直径 / Max. swing dia. over bed	mm	Φ850
最大车削直径 / Max. turning dia.	mm	Φ750
最大车削长度 / Max. turning length	mm	1500/2000/3000
卡盘直径 / Chuck dia.	mm	Φ530
主轴转速 / Spindle speed	r/min	L : 8-530 H : 30-1200
主轴电机功率 (连续/30分钟) Main motor power(continued/30minutes)	kW	30/37
行程(X/Z) / Travel(X/Z)	mm	385/1550 385/2040 385/3050
快移速度(X/Z) / Rapid travel speed (X/Z)	m/min	10/12



高性能型卧式数控车床CK7516C

High Performance Horizontal CNC Lathe CK7516C

高速 · 无级变速 · 全防护

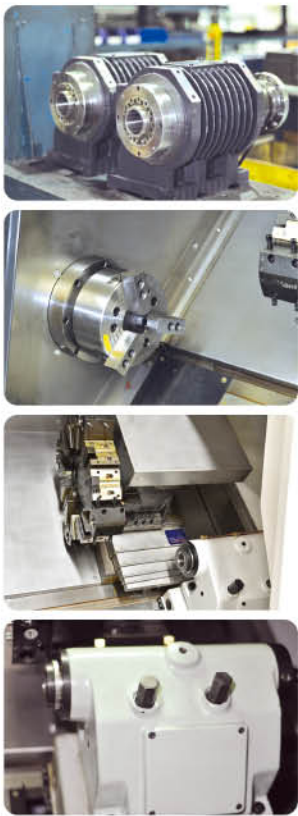
High speed; Infinite variable speed; Full enclosed guard

回转直径Φ400mm以内的高速·无级变速·全防护数控机床，X/Z轴线性导轨，不同的配置带来不同的切削体验。

Swing diameter of Φ 400 mm or less; X/Z Axis Linear guideway ; It gives you different experience if equipped differently.

参数列表 / Parameter List

项目 / Item	单位 / Unit	CK7516C
最大回转直径 / Max. swing dia. over bed	mm	Φ400
最大车削直径 / Max. turning dia.	mm	Φ285
最大车削长度 / Max. turning length	mm	400
卡盘直径 / Chuck dia.	mm	Φ165
最大棒料直径 / Max. bar dia.	mm	Φ42
主轴转速 / Spindle speed	r/min	55-5500
主轴电机功率 (连续/30分钟) Main motor power(continued/30minutes)	kW	11/15
行程(X/Z) / Travel (X/Z)	mm	165/410
快移速度(X/Z) / Rapid travel speed(X/Z)	m/min	30/24



高性能型卧式数控车床CK7520C CK7525C

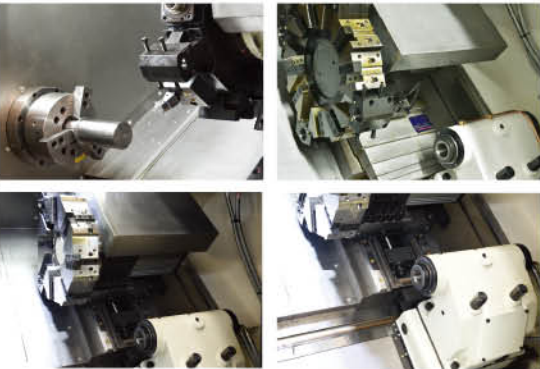
High Performance Horizontal CNC Lathe CK7520C CK7525C

CK7520C系列

CK7520C series

X/Z轴线性导轨

X/Z Axis Linear guideway



CK7525C系列

CK7525C series

X/Z轴线性导轨

X/Z Axis Linear guideway



参数列表 / Parameter List

项目 / Item	单位 / Unit	参数 / Parameters	
		CK7520C	CK7525C
最大回转直径 / Max. swing dia. over bed	mm	Φ500/Φ500/Φ450	Φ550
最大车削直径 / Max. turning dia.	mm	Φ370	Φ450
最大车削长度 / Max. turning length	mm	500/750/1000	500/1000
卡盘直径 / Chuck dia.	mm	Φ210	Φ254
最大棒料直径 / Max. bar dia	r/min	Φ51	Φ73
主轴转速 / Spindle speed	kW	40-4000	30-3000
主轴电机功率 (连续/30分钟) Main motor power (continued/30minutes)		11/15	15/18.5
行程(X/Z) / Travel (X/Z)	mm	210/550 210/780 210/1010	250/520 250/1010
快移速度(X/Z) / Rapid travel speed(X/Z)	m/min	24/24	24/24

高性能型卧式数控车床CH25Y/CH7530Y

High Performance Horizontal CNC Lathe CH25Y/CH7530Y

四轴联动

Four simultaneously controlled axes;

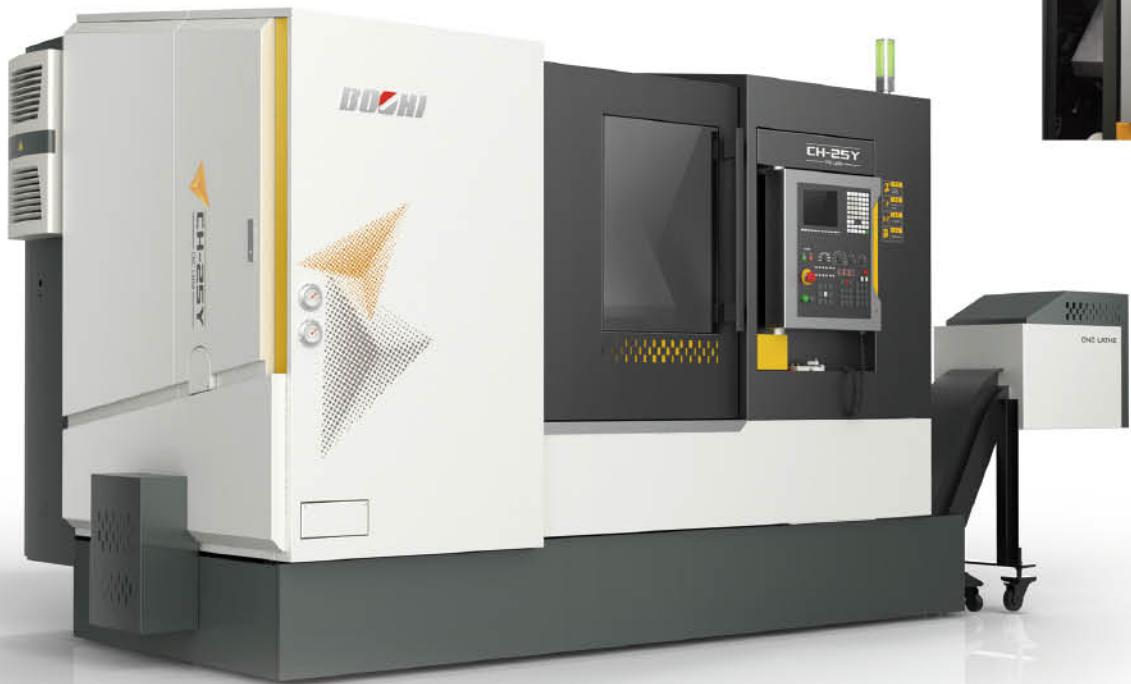
机床特点描述 / Machine Features Description

四轴联动，特别适合复杂零件的车、铣、攻加工的车铣复合中心。

It is a mill-turning center with 4 are simultaneously controlled; suitable for turning, milling and tapping of complex workpieces.

参数列表 / Parameter List

项目/Item	单位/Unit	参数/Parameters	
		CH25Y	CH7530Y
最大回转直径 / Swing over bed	mm	Ø500	Ø670
最大车削长度 / Max. turning length	mm	500	1000
卡盘直径 / Chuck diameter	mm	Ø210(8 ")	Ø305(12 ")
主轴转速 / Spindle speed	r/min	40-4000	30-3000
主轴电机功率(连续/30分钟) Spindle motor power (continuous/ 30min)	kW	11/15	22/30
移动行程(X/Y/Z) / Stroke (X/Y/Z)	mm	200/±60/510	325/±80/1050
快移速度(X/Y/Z) / Rapid travel (X/Y/Z)	m/min	16/12/24	12/10/16



高性能型卧式数控车床 TC16

High Performance Horizontal CNC Lathe TC16

机床特点描述 / Machine Features Description

TC16机床为平床身斜床鞍配置，Z向为线轨低速响应好，X轴为硬轨承受载荷大且具有热补偿功能，液压尾座，FANUC 0i TF数控系统，高精度整体弹筒式伺服主轴、8工位伺服刀盘、可实现高速高刚性高精度的切削加工，适用于机械加工、电子产品、汽车、摩托车、模具等制造行业中、小件的加工。

TC16 CNC lathe is flat bed but slant saddle structure, linear Z axis with good response in low speed, hardened X axis can bear heavy load and with thermal compensation function, hydraulic tailstock, FANUC 0i TF control system, high precision integral cartridge type servo spindle, 8-station servo turret, to enable high speed, high rigidity and high accuracy cutting operation, suitable for middle, small parts of manufacturing industry for mechanical processing, electronic products, automobiles, motorcycles, mold etc.

参数列表 / Parameter List

项目 / Item	单位 / Unit	参数 / Parameters
		TC16
最大回转直径 / Max. swing dia. over bed	mm	Φ500
最大车削直径 / Max. turning dia.	mm	Φ260
最大车削长度 / Max. turning length	mm	290
卡盘直径 / Chuck dia.	in	6"
最大棒料直径 / Max. bar dia	r/min	Φ50
主轴转速 / Spindle speed	kW	40-4200
主轴电机功率 (连续/30分钟) Main motor power(continued/30minutes)		5.5/7.5
行程(X/Z) / Travel (X/Z)	mm	160/330
快移速度(X/Z) / Rapid travel speed(X/Z)	m/min	24/27



高性能型卧式数控车床 TC20

High Performance Horizontal CNC Lathe TC20

高速 高效 高精度 批量化加工利器

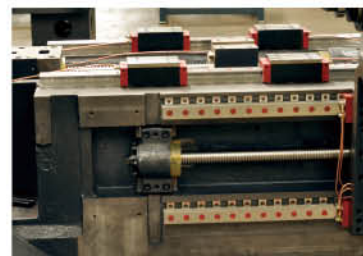
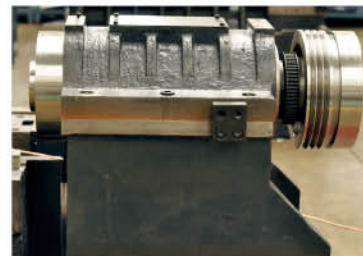
High speed; high efficiency; high accuracy; A good machine for batch production

机床特点描述 / Machine Features Description

TC20数控车床是一款高刚性、高精度、高效率、具有宜人化操作、防护严密的全功能数控车床。主机采用整体式平床身、斜床鞍结构、高刚性主轴，既可以进行强力切削的粗加工，又可以进行精密加工；伺服主轴转速高、噪音低、运转平稳；进给系统采用线轨结构，响应迅速、精度保持性好；并配有高端进口系统、刀架等部件，满足不同的客户需求。适用于机械加工、电子产品、汽车、摩托车、模具等制造行业中、小件的快速加工。

TC20 is a full function CNC lathe with high rigidity, high accuracy, high efficiency, friendly operation and tight guarding. It has integrated horizontal bed, slant carriage and rigid spindle. Be capable of heavy cut (roughing) and precision finishing. The servo spindle

rotates at high speed with low noise without vibration. Linear guide ways are used in feeding system, which ensures quick response and durable accuracy. It is equipped with high-end imported control system and turret satisfying different needs of customers; suitable for small/medium size workpieces fast machining in machining, electronic, automotive, motorcycle and die/mold industries.



参数列表 / Parameter List

项目/Item	单位/Unit	参数 / Parameters
最大车削长度 / Max. turning length	mm	500
最大车削直径 / Max. turning dia.	mm	Φ370
主轴通孔直径 / Spindle thru-hole	mm	Φ62
主轴转速 / Spindle speed	r/min	50-4500
主电机功率(连续/30分钟) / Power of main motor (cont./30 min)	kW	11/15
移动距离 X/Z / Travel X/Z	mm	210/560
快速移动速度 X/Z / Rapid traverse X/Z	m/min	30/30
重量 / Weight	Kg	5500



高性能型卧式数控车床 CK7620P

High Performance Horizontal CNC Lathe CK7620P

参数列表 / Parameter List

项目 / Items	单位 / Unit	CK7620P
最大回转直径 / Max. swing dia. over bed	mm	Φ400
推荐车削直径/长度 / Suggested turning dia./length	mm	Φ100/180
最大车削直径 / Max turning dia.	mm	Φ200
卡盘直径 / Chuck dia.	mm	Φ210
最大棒料直径 (中空卡盘/筒夹夹头) Max. bar dia./hollow chuck/ collet chuck	mm	Φ51/Φ42
主轴转速 / Spindle speed	r/min	90-4000
主轴电机功率 (连续/30分钟) Main motor power(continued/30minutes)	kW	7.5/11(变频frequency conversion) 11/15 (伺服servo)
行程(X/Z) / Travel(X/Z)	mm	400/300
快移速度(X/Z) / Rapid travel speed(X/Z)	m/min	16/16

排式刀架 • 线性导轨 • 高速高效

Comb type tool rest; Linear guideway; High speed; high efficiency

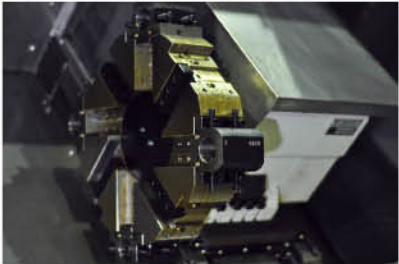
机床特点描述 / Machine Features Description

高强度铸铁整体式斜床身结构，精密直线滚动导轨、精密滚珠丝杠副，主轴单元采用精密角接触球轴承和双列圆柱滚子轴承、伺服或变频驱动，排式刀架，高档数控系统控制。高精度、高效率数控车床。

This high accuracy and efficiency machine is designed with high grade cast iron integrated base and slant bed, precision linear rolling ways and precision ball screw pairs. The spindle is supported by precision angular contact ball bearings and double row roller bearings, and driven by a servo motor or frequency inverting motor. The machine is equipped with comb-type tool rest and controlled by high class CNC controller.

通用型卧式数控车床 CK40 CK50

General Horizontal CNC Lathe CK40 CK50



参数列表 / Parameter List

项目 / Item	单位 / Unit	参数 / Parameters	
		CK40	CK50
最大回转直径 / Max. swing dia. over bed	mm	Φ400	Φ500
最大车削直径 / Max. turning dia.	mm	Φ285	Φ370
最大车削长度 / Max. turning length	mm	400	500
卡盘直径 / Chuck dia.	mm	Φ165	Φ210
最大棒料直径 / Max. bar dia	mm	Φ42	Φ51
主轴转速 / Spindle speed	r/min	70-3000	60-2250
主轴电机功率 (连续/30分钟) Main motor power(continued/30minutes)	kW	7.5/11	11/15
行程(X/Z) / Travel (X/Z)	mm	165/1030	210/550 210/1010 210/1550
快移速度(X/Z) / Rapid travel speed(X/Z)	m/min	12/16	12/16

通用型卧式数控车CK40C CK50C

General Horizontal CNC Lathe CK40C CK50C

CK40C/CK50C 系列

X/Z轴线性导轨

X/Z Axis Linear guideway



参数列表 / Parameter List

项目 / Item	单位 / Unit	参数 / Parameters	
		CK40C	CK50C
最大回转直径 / Max. swing dia. over bed	mm	Φ400	Φ500
最大车削直径 / Max. turning dia.	mm	Φ285	Φ370
最大车削长度 / Max. turning length	mm	400	500/750
卡盘直径 / Chuck dia.	mm	Φ165	Φ210
最大棒料直径 / Max. bar dia	mm	Φ42	Φ51
主轴转速 / Spindle speed	r/min	80-4500	40-4000
主轴电机功率 (连续/30分钟) Main motor power(continued/30minutes)	kW	7.5/11	11/15
行程(X/Z) / Travel (X/Z)	mm	165/410	210/550 210/780
快移速度(X/Z) / Rapid travel speed(X/Z)	m/min	30/24	24/24



实用型卧式数控车床BC系列

Practical Horizontal CNC Lathe BC series

BC3731 / BC3751

系列数控车床是一款具有国内先进水平的中低档全功能数控机床，与国内同规格机床相比，该机床加工范围大、重量重且占地面积小、刀盘对边尺寸大、快移速度高、性价比极高。

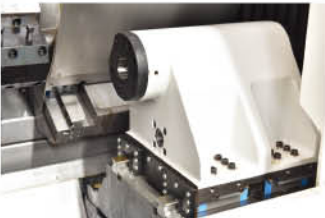
1. 双向导轨采用大载荷滚柱线轨副，快速移动均可达30m/min；
2. 主轴采用NSK大直径精密角接触球轴承与双列圆柱滚子轴承组合排列，11kW主轴伺服电机，具有极好的刚度和低速下的大扭矩；
3. 台湾8工位卧式液压刀架，精度高、刚性好、换刀时间短；
4. 采用大对边刀盘，刀具干涉小，加工范围大；
5. 机床设计紧凑、重量大且占地面积小。

BC3731/BC3751 series CNC lathe is an advanced middle class full functional CNC lathe in China domestic market. Wider machining range, heavier machine weight but smaller floor occupation, larger turret disk, more rapid feed rate, high ratio for cost performance.

1. Bidirectional heavy load pin roller linear guideways, 30m/min rapid feed rate.
2. Main spindle with NSK large diameter precision angular contact ball bearing and double-row cylindrical roller bearing, 11KW servo main motor, with excellent rigidity and powerful torque in low speed.
3. Taiwan made 8-station hydraulic turret, high accuracy, rigidity, short tool change time.
4. Big turret disk, small tools interference, large machining range.
5. Compact design, heavy machine weight but small floor occupation.

参数列表 / Parameter List

项目 / Item	单位 / Unit	参数 / Parameters	
		BC3731	BC3751
最大回转直径 / Max. swing dia. over bed	mm	Φ550	
最大车削直径 / Max. turning dia.	mm	Φ370	
最大车削长度 / Max. turning length	mm	310	510
卡盘直径 / Chuck dia.	in	8"	
最大棒料直径 / Max. bar dia	mm	Φ51	
主轴转速 / Spindle speed	r/min	50-4500	
主轴电机功率 (连续/30分钟) Main motor power(continued/30minutes)	kW	11/15	
行程(X/Z) / Travel (X/Z)	mm	210/350	210/550
快移速度(X/Z) / Rapid travel speed(X/Z)	m/min	30	



GMTK卧式车铣复合加工中心

Horizontal Turning-Milling compound machining center

机床特点描述 / Machine Features Description

GMTK复合加工机床设计理念是为复杂、精密、高精度、高附加值的加工提供最佳性能。
采用卓越的动态性能和强度相结合的技术，这种动态性能和强度的融合为用户提供以下可行性：

1. 为零件加工提供最佳加工方案：

- 普通切削
- 高速进给切削
- 高转速切削

2. 集成多种加工工艺：

- 成套加工解决方案
- 适应最佳切削条件的加工工艺

GMTK is a multi-process machine developed in order to obtain the highest performance in the machining of complex, accurate and high precision and added value pieces. The applied technology allows a combination of exceptional dynamics and strength. This compromise between DYNAMICS and POWER, gives the users of GMTK the possibility of:

1. Approaching to the machining of a piece with the most appropriate machining strategy.

- Conventional cutting.
- High feed cutting.
- High speed cutting.
- Combination between high feed cutting and high speed cutting.

2. Integrating different machining processes.

- Complete machining solution.
- Machining processes adapted to their optimal cutting conditions.



参数列表 / Parameter List

项目/Item	单位/Unit	参数 / Parameters				
		HR700	HR800	HR1000	HR1200	HR1500
回转直径	mm	720	820	1020	1220	1520
两顶尖距离	mm	1500-3000	2000-6000	2000-8000	2000-8000	2000-10000
最大卡盘速度	rpm	2700	2700/1680	1650/1260	1650/1260	1260
最大扭矩100%	Nm	2465/3025/3360	3340/5400	7700/11130	7700/12575	12575
C轴最大转速	rpm	80	80	40	40	40
C轴最大扭矩	Nm	2520	4000	8350	9400	9400
铣削附件头转速	rpm	10000	5000	5000/3000	5000/3000	3000
铣削附件头最大扭矩	Nm	130/170/201	261/291	261/291/630/712	261/291/630/712	630/712
B轴最大转速	rpm	16	16	16	16	16
B轴最大扭矩	Nm	1780	1780	1780/2430	1780/2430	2430
X轴快进速度	m/min	40	40	40	40	40
X轴行程	mm	880	930	1130	1230	1330
Y轴快进速度	m/min	24	40	40	40	40
Y轴行程	mm	400	400/550	550	550/660	830
Z轴快进速度	m/min	40	40	30	30	30
套筒直径	mm	120	180	260	260/320	320
套筒行程	mm	150	200	250	250/280	280
刀库容量	Number of tools	40/60/80/120				
数控系统		西门子Siemens 840D SL				



MTK20车铣中心

Turning-Milling center

双主轴、双刀架重叠加工，四轴联动数控车铣中心

Double spindles; simultaneously operating of double turrets; Four simultaneously controlled axes

机床特点描述 / Machine Features Description

MTK20是由高档数控系统控制的多刀架数控车铣中心，机床采用双主轴、双刀架对列布局，可实现双主轴、双刀架的同时切削加工，机床具有Y轴功能和双C轴功能，能完成工件的强力铣削。该机床具备4轴联动功能，配合副主轴的X、Z双向进给，可以实现双主轴、双刀架的重叠加工，保证在一次装夹下完成复杂工件的全部或大部分工序的加工，特别适合于形状复杂工件的加工，能广泛适用于航空、航天、汽车、轻工、机械等行业对数控机床功能越来越高的要求。

This is a mill-turning center controlled by high-end NC control system, and features opposed double spindles, opposed double turrets, Y-axis function and C-axis function. Two spindles and turrets can operate simultaneously even for heavy milling. By means of 4 simultaneously controlled axes together with sub spindle's double feed in X/Z-axis, complete or most machining of a complex workpiece is finished at one setting. The machine is widely used in aerospace, automotive, manufacturing engineer and light industries satisfying increasing demand of customers on function and machining precision of CNC machines.

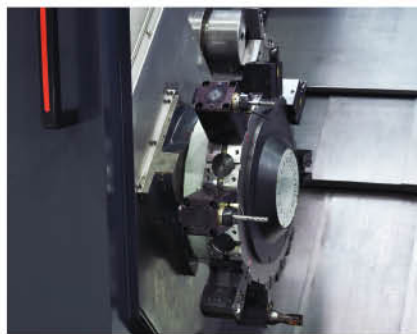
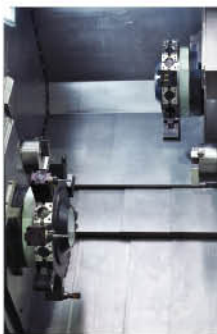


MTK20细节图

MTK20 detailed diagrams

参数列表 / Parameter List

项目/Item	单位/Unit	参数 / Parameters
主轴数 / Number of spindles	个 pc	2
刀架数 / Number of turrets	个 pc	2
卡盘直径 / Chuck dia.	mm	Φ210
转塔刀架工位数 / Number of station of turret	个 pc	16X2
主轴/副主轴最高转速 / Max. speed of spindle/sub spindle	r/min	5000
刀架动力头最高转速 / Max. speed revolving tool	r/min	6000
主轴电机功率 / Power of spindle motor	kw	18.5 / 22 (30min)
副主轴电机功率 / Power of sub spindle motor	kw	11 / 15 (30min)
最大加工直径 / Max. machining dia.	mm	Φ250
最大加工长度 / Max. machining length	mm	750
X1/X2/X3轴快移速度 / Rapid traverse X1/X2/X3	m/min	30
Y1/Y2轴快移速度 / Rapid traverse Y1/Y2	m/min	20
Z1/Z2/Z3轴快移速度 / Rapid traverse Z1/Z2/Z3	m/min	40
X1/X2/X3轴行程 / Stroke X1/X2/X3	mm	210/210/100
Y1/Y2轴行程 / Stroke Y1/Y2	mm	100/100
Z1/Z2/Z3轴行程 / Stroke Z1/Z2/Z3	mm	800/800/800



经济型卧式数控车床

Economical horizontal CNC lathe

CJK系列 CJKseries / CJK6140H CJK6150H CJK6166H CJK61100 CJK61125

SK系列 SKseries / SK40P/S SK50P/S SK50E SK50i SK66Q SK50C

HK系列 HKseries / HK63B HK80B HK80

TK/EK系列 TKseries / TK36/S TK36D TK50 TK50C EK40

CB系列 CBseries / CB35A CB45A

CBK系列 CBKseries / CBK50 CBK63



以不凡的决心制造更具高性价比的机床
To make most cost high effective machines with firm determination.

CJK系列机床

CJK series lathe

手动多级变速车床

Manual multistage variable Speed lathe

CJK6140H
CJK6150H
CJK6166H
CJK61100
CJK61125



机床特点描述 / Machine Features Description

- 1) 平床身结构，主轴手动多级变速，标配四工位立式转塔刀架；
- 2) CJK6140H、CJK6150H、CJK6166H长度有750mm、1000mm、1500mm、2000mm四种规格可选;CJK61100、CJK61125长度有1500mm、3000mm两种规格；
- 3) 主轴通孔直径可选Φ52、Φ82、Φ105三种规格（CJK61100、CJK61125只有Φ130）；
- 4) CJK61100、CJK61125可用于较大尺寸、较大承重的切削加工。

- 1)Horizontal bed. Multi steps of spindle speed are available manually. Standard equipment: 4-station vertical turret
- 2) CJK6140H、CJK6150H and CJK6166H four length of machine is available: 750mm, 1000mm 、1500mm and 2000mm；CJK61100 and CJK61125 two length of machine is available: 1500mm and 3000mm
- 3)Spindle bore of Φ52, Φ82 and Φ105 is available（CJK61100、CJK61125 only Φ130）
- 4)CJK61100 and CJK61125 can be used for large-size and heavy-load machining



参数列表 / Parameter List

项目/Item	单位/Unit	参数 / Parameters				
		CJK6140H	CJK6150H	CJK6166H	CJK61100	CJK61125
最大回转直径 / Swing over bed	mm	Φ400	Φ500	Φ660	Φ1000	Φ1250
最大车削直径 / Max. turning diameter	mm	Φ400	Φ500	Φ550	Φ1000	Φ1250
最大工件长度 / Max. turning length	mm	710/960/1460/1960	710/960/1460/1960	710/960/1460/1960	1500/3000	1500/3000
卡盘直径 / Chuck diameter	mm	Φ250	Φ250 / Φ315 (Φ105孔径)	Φ250 / Φ315 (Φ105孔径)	Φ1000 (四爪单动)	Φ1000 (四爪单动)
主轴通孔直径 / Spindle bore	mm	Φ52	Φ52/Φ82/Φ105	Φ82/Φ105	Φ130	Φ130
主轴转速 / Spindle speed	r/min	21级 11-160	21级 11-1600 12级 (Φ105孔径) 36-1600	21级 11-1600 12级 (Φ105孔径) 36-1600	3.15~315手动 21级STEPS	3.15~315手动 21级STEPS
主轴电机功率 / Spindle motor power	kW	7.5	7.5	7.5	22	22
行程(X/Z) / X/Z axes traverse	mm	295/600、295/850、 295/1350、295/1850	295/600、295/850、 295/1350、295/1850	295/600、295/850、 295/1350、295/1850	X向：520 Z向：1300/2800	X向：630 Z向：1300/2800
快移速度(X/Z) / Rapid travel speed	m/min	6/8	6/8	6/8	3/6	3/6

SK 系列

SK series lathe
变速 · 无级调速 · 恒线速切削
Shift gears; Infinite variable speed; Constant linear speed cutting

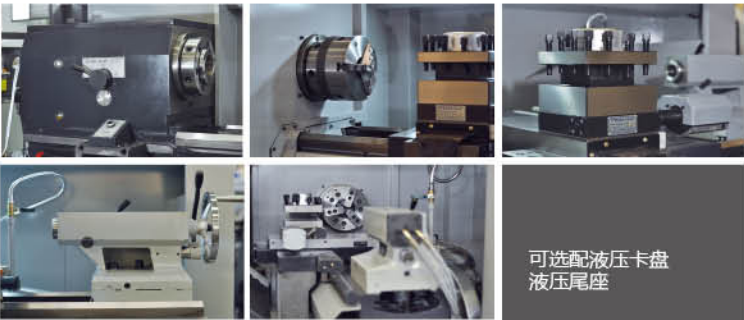
SK40P
SK40S
SK50P
SK50S
SK50I
SK66Q
SK50E
SK50C

机床特点描述 / Machine Features Description

- 1)全为伺服系统控制、后缀为“S”的是广数伺服系统控制。
 - 2)后缀为“C”的是Ø105孔径，后缀为“E”的是液压换挡、供教育系统。
 - 3)后缀为“I”的是主轴最高可达2000r/min SIEMENS系统控制。
 - 4)长度有750mm、1000 mm、1500 mm、2000 mm、3000mm多种规格可选。
 - 5) 控制系统可选择FANUC/广数系统/KND/华中系统/SIEMENS/B60
- 1)All servo system control; Letter S in the designation stands for control of wide-range servo system
2)Letter C in the designation stands for ø105 Aperture; Letter E in the designation stands for Hydraulic shift Gears, For education system
3)Letter I in the designation stands for SIEMENS system control spindle with maximum speed up to 2000 r/min
4)Different length of machine is available: 750mm, 1000mm, 1500mm, 2000mm and 3000mm
5)Optional control systems FANUC, GSK, KND, HNC, SIEMENS, B60

参数列表 / Parameter List

项目 / Item	单位 / Unit	参数 / Parameters					
		SK40P/40S	SK50P/50S	SK50i	SK66Q	SK50E	SK50C
最大回转直径 Swing over bed	mm	Φ400	Φ500	Φ500	Φ660	Φ500	Φ500
最大车削直径 Max. turning diameter	mm	Φ400	Φ500	Φ500	Φ550	Φ500	Φ500
最大工件长度 Max. workpiece length	mm	710 /960/1460/1960/2960		960	710 /960/1460/1960	960	710 /960/1460/1960/2960
卡盘直径 Chuck size	mm	Φ250		Φ250	Φ250	Φ250	Φ315
主轴通孔直径 Spindle bore	mm	Φ77/Φ82		Φ77	Φ77	Φ82	Φ105
主轴转速 Spindle speed	r/min	3档(3-shifts) 21-1620		3档(3-shifts) 26~2000	3档(3-shifts) 21~1620	4档(4-shifts) 23~2000	3档(3-shifts) 21.7~1600
主轴电机功率 Spindle motor power	kW	7.5		7.5	7.5	7.5	7.5
行程(X/Z) X/Z axes traverse	mm	275/600 275/850 275/1350 275/1850 275/2900		275/850	275/600/850/1350/1850	275/850	X : 295 Z : 600/850/1350/1850/2900
快移速度(X/Z) Rapid travel speed	m/min	6/8		6/8	6/8	6/8	6/8



可选配液压卡盘
液压尾座

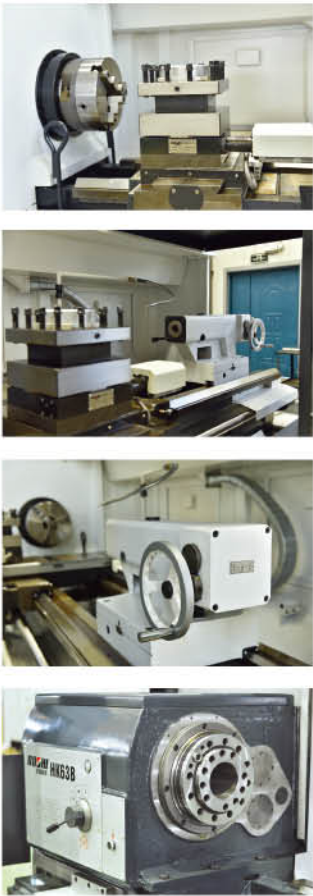


HK 系列机床

HK63B
HK80B
HK80

HK series lathe
多档变速 · 档内无级调速

Multi-step shift gears; infinitely variable within each step;
适用于较大规格、较重零件的大负载切削加工
For heavy duty cutting of large specification and heavy weight wok



参数列表 / Parameter List

项目 / Items	单位 / Unit	参数 / Parameters		
		HK63B	HK80B	HK80
最大回转直径 Swing over bed	mm	Φ630	Φ800	Φ800
最大车削直径 Max. turning diameter	mm	Φ630	Φ740	Φ800
最大工件长度 Max. workpiece length	mm	1000/1500/2000/3000	1000/1500/2000/3000	1000/1500/2000/3000/4000
卡盘直径 Chuck diameter	mm	Φ315	Φ315	Φ315
主轴通孔直径 Spindle bore	mm	Φ105	Φ105	Φ105
主轴转速 Spindle speed	r/min	L : 20-210 M : 37-373 H : :112-1120	L : 20-210 M : 37-373 H : :112-1120	I 20-204 II 39-354 III 71-642 IV 124-1000
主轴电机功率 Spindle motor power	kW	11	11	15
行程(X/Z) X/Z axes traverse	mm	370/760 370/1310 370/1810 370/2810	390/760 390/1310 390/1810 390/2810	430/760 430/1350 430/1850 430/2850 430/3850
快移速度(X/Z) Rapid travel speed	m/min	6/7	6/7	6/7



TK系列机床

TK series lathe
无级调速车床

Infinite variable speed

TK36S
TK36D
EK40
TK50
TK50C

机床特点描述 / Machine Features Description

- 1) 平床身结构，主轴单元采用精密角接触球轴承和双列圆柱滚子轴承，标配四工位立式转塔刀架，高档数控系统控制。
- 2) 后缀 “D” 是电主轴。
- 3) 后缀 “C” 是X/Z轴线性导轨。
- 1)Horizontal bed. The spindle is supported by precision angular contact ball bearings and double row roller bearings. Standard equipment: 4-station vertical turret. Controlled by high class NC controller.
- 2)The suffix "D" is for electrical spindle.
- 3)The suffix "C" is for X/Z axis Linear guideway.



参数列表 / Parameter List

项目 / Item	单位 / Unit	参数 / Parameters				
		TK36S	EK40	TK50	TK36D	TK50C
最大回转直径 Swing over bed	mm	Φ360	Φ400	Φ500	Φ360	Φ500
最大车削直径 Max. turning diameter	mm	Φ320	Φ400	Φ500	Φ320	Φ480
最大工件长度 Max. workpiece length	mm	750	750/1000	1100/1600	750	900
卡盘直径 Diameter of chuck	mm	Φ200	Φ200	Φ250	Φ200	Φ250
主轴通孔直径 Spindle bore	mm	Φ57	Φ57	Φ87	Φ52	Φ87
主轴转速 Spindle speed	r/min	140-3000	140-3000	30-2500	140-4500	30-2500
主轴电机功率 Spindle motor power	kW	5.5(伺服servo)	5.5 (伺服servo)	15 (伺服servo)	7.5	15/18.5
行程(X/Z) X/Z axes Traverse	mm	200/610	230/590 230/840	295/1000	200/610	260/900
快移速度(X/Z) Rapid travel speed	m/min	6/8	6/8	6/8	6/8	16/20



CB系列机床

CB35A
CB45A

CB series lathe

线性导轨·高速·高效数控车床

Linear guideways; High speed; High efficiency; CNC lathe

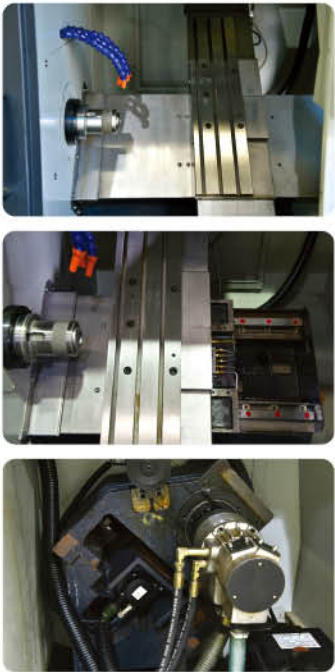
机床特点描述 / Machine Features Description

- 1) 采用精密主轴单元，NSK精密主轴轴承，长效脂润滑。
- 2) 45°斜床身，整机刚性高，耐用性好。
- 3) 纵横向进给采用精密滚珠丝杠，丝杠专用轴承支撑运行速度快，精度高。
- 4) 纵横向采用滚动直线导轨，动态性能好，精度保持性高。
- 5) 采用排式刀架，结构简单、经济、刚性好。
- 6) 全封闭式防护，安全、环保。
- 7) 机床可配GSK、KND、FANUC等多种数控系统。

- 1) Precision spindle unit is used on the machine. The spindle is supported by NSK precision bearings which are lubricated with long-life grease.
- 2) 45° slant bed; high rigidity and durability of whole machine;
- 3) Precision ball screws are used in longitudinal and crosswise feed systems. Screws are supported by special bearings and ensure fast travel and high accuracy.
- 4) Rolling linear ways are used in longitudinal and crosswise directions, which ensures good dynamic response and long time maintained accuracy.
- 5) Comb type tool rest is used, which features simple structure, economical use and high stiffness.
- 6) Full-enclosed housing supplies safe and environmental protection conditions.
- 7) The machine can be controlled by several controllers like GSK, KND or FANUC.

参数列表 / Parameter List

项目/Item	单位/Unit	参数 / Parameters	
		CB35A	CB45A
床身上最大回转直径 / Max.swing over bed	mm	Φ320	
最大车削长度 / Max.turning length	mm	150	
主轴孔径 / Spindle bore	mm	Φ45	Φ56
主轴头型式 / Spindle nose		A2-4	A2-5
可通棒料直径 / Bar to be held	mm	Φ35	Φ45
主轴转速 / Spindle speed	r/min	5000	4000
X向快速速度 / X-axis rapid traverse	m/min	20	
X向丝杠直径及螺距 / X-axis screw diameter and pitch	mm	Φ32×10	
Z向快速速度 / Z-axis rapid traverse	m/min	20	
Z向丝杠直径及螺距 / Z-axis screw diameter and pitch	mm	Φ32×10	
车刀刀方/镗刀 / Turning tool/boring tool	mm	20X20/Φ25	
X向行程 / X-axis travel	mm	350	
Z向行程 / Z-axis travel	mm	220	
电源 / Power source	kVA	10	
冷却泵 / Coolant pump		ALB-130HF-25/175	
机床重量 / Machine weight	kg	2500	
机床外形尺寸 / Overall dimension	mm	2020×1485×1760	



CBK 系列机床

CBK50
CBK63

CBK Series Machine Tools

主轴三档变速, 45度斜床身数控车床

A CNC lathe with 45° slant bed; 3-step spindle shift gears

机床特点描述 / Machine Features Description

- 1) 45°斜床身结构, 带来良好的空间和排屑效果、手动换档、档内无级变速, 可加工较大尺寸、较大负载的零件。
- 2) 长度有1000mm、2000mm、3000mm三种规格可选。
- 1) 45° slant bed provides a nice space and good chip disposal result; manual gear shift with infinite variable speed within each gear; it can be used for large-size and heavy-load machining.
- 2) Three length of machine is available: 1000mm, 2000mm and 3000mm.



参数列表 / Parameter List

项目 / Items	单位 / Unit	参数 / Parameters			
		CBK63/1000	CBK63/2000	CBK63/3000	CBK50
最大回转直径 / Swing over bed	mm	Φ630	Φ630	Φ630	Φ500
最大车削直径 / Max. turning diameter	mm	Φ500 (四工位 4-station toolpost) / Φ400 (八工位 8-station turret)			
最大车削长度 / Max. workpiece length	mm	1000/800 (八工位 8-station turret)	2000/1800 (八工位 8-station turret)	3000/2800 (八工位 8-station turret)	1000
卡盘直径 / Chuck diameter	mm	Φ315	Φ315	Φ315	Φ250
主轴通孔直径 / Spindle bore	mm	Φ84	Φ84	Φ84	Φ82
主轴转速 / Spindle speed	r/min	20-210 50-525 155-1600	20-210 50-525 155-1600	20-210 50-525 155-1600	3档无级 21-1620 (H:162-1620 M:66-660 L:21-210)
主轴电机功率 / Spindle motor power	kW	11	11	11	7.5
行程(X/Z) / X/Z axes traverse	mm	350/1000	350/2000	350/3000	X:255 Z:1000
快移速度(X/Z) / Rapid travel speed	m/min	8/8	8/8	8/8	6/8

数控立式车床系列

VERTICAL CNC LATHE

卡盘式数控立式车床 / CK514数控立式车床

Type chuck vertical
CNC lathe

CK514H/Z数控立式车床

CK516/CK516Z数控立式车床

CK516A数控立式车床

CK518数控立式车床

BDVL28数控立式轮毂车床

BK50-2数控立式车床(双主轴)

工作台式数控立式车床 / CK51125数控立式车床 (转塔刀架)

Worktable type vertical
CNC lathe

CK51125A数控立式车床 (刀库)

CK51160数控立式车床 (转塔刀架)

CD125数控立式车床

CD160数控立式车床

力求把最好的做工和性能呈现给用户
Do our best to show the finest workmanship and performance to users.



CK514 / CK516 / CK514H/Z CK516A / CK518 / CK516Z

立式结构 · 排屑流畅 · 装夹工件方便
Vertical lathe; Easy chip removal; Simple work setting

适用于加工小型、中型盘、套类零件的立式车床
Suitable for small to medium size disk type and ring type workpieces

机床特点描述 / Machine Features Description

- 1)两轴线轨、立式刀架、立式卡盘车床。
 - 2)CK516Z数控立式车床是CK516数控立式车床的镜像机床，可以与CK516组成双胞胎加工单元，也可以单独使用。
- 1)It is a lathe with vertical turret and chuck, with linear guideway in two axes .
- 2)CK516Z vertical CNC lathe is the mirror lathe of CK516 vertical CNC lathe. It can be used alone or combine with CK516 for twin machining unit.

参数列表 / Parameter List

项目 / Item	单位 / Unit	参数 / Parameters					
		CK514	CK516	CK516A	CK518	CK514H/Z	CK516Z
最大回转直径 / Swing diameter	mm	Φ650	Φ850	Φ850	Φ1000	Φ650	Φ850
最大车削直径 / Max. turning diameter	mm	Φ450	Φ750	Φ750	Φ900	Φ450	Φ750
最大工件高度 / Max. workpiece height	mm	350	600	600	800	420	600
主轴转速 / Spindle speed	r/min	30-3000	10-1600	50-1200	30-800	30-3000	10-1600
快移速度(X/Z) / Rapid travel speed	m/min	12/16	14/14	14/14	12/12	12/16	14/14



BDVL28

针对汽车、摩托车等行业的铝合金轮毂车削加工的专业全功能数控立式车床。

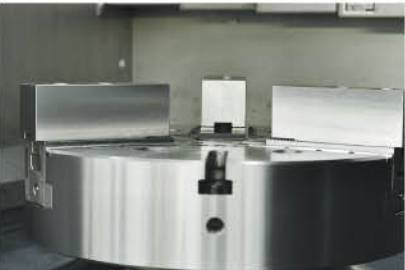
Full function CNC vertical lathe; For cutting aluminum alloy wheels;
Used in automotive and motorcycle industries

机床特点描述 / Machine Features Description

两轴线规、防护严密、高速高效的数控立式车床，主要用于汽车轮毂加工。
high speed and high efficiency vertical CNC lathe with linear guideway in two axes, with tightly sealed guard; designed for machining car hubs.

参数列表 / Parameter List

项目 / Items	单位 / Unit	参数 / Parameters
		BDVL28
最大回转直径 / Max. swing daimeter	mm	Φ800
最大车削直径 / Max. turning diameter	mm	Φ770
最大车削高度 / Max. turning height	mm	650
主轴转速 / Spindle speed	r/min	200~1600



BK50-2 数控立式车床（双主轴）

针对法兰行业开发的一款专用机床
Specially developed for flange industry

机床特点描述 / Machine Features Description

BK50-2数控立式车床为高效双主轴CNC车床，配以GSK 980TTC数控系统，该机床是针对法兰行业开发的一款专用机床。双主轴、双刀架，两通道可分别单独控制，能同时完成不同零件的加工。主要用于对10公斤以上的法兰盘；电机的法兰、壳体以及其它行业不宜装夹的法兰、盘、套、短轴类零件的粗、半精加工。

BK50-2 vertical CNC lathe has dual spindle, with GSK 980TTC CNC system, specially developed for flange industry. Dual spindle, dual turret, dual channels can be controlled separately for machining different parts simultaneously. Mainly for roughing and semi-finishing machining of flanges more than 10 kilograms, flanges and housing of motors, and parts of flanges, plates, sleeves and short shafts in other industries which are not easy for clamping.

参数列表 / Parameter List

项目 / Items	单位 / Unit	参数 / Parameters
		BK50-2
最大回转直径 / Max. swing daimeter	mm	Φ500
最大车削直径 / Max. turning diameter	mm	Φ420
最大车削高度 / Max. turning height	mm	360
主轴转速 / Spindle speed	r/min	50~800
液压卡盘直径 / Hydraulic chuck diameter	inch	12 "
主轴电机功率 / Main motor power	kW	11
行程 / Travel (X/Z)	mm	300/380
快移速度 / Rapid feed rate	m/min	12/12



CK51125/CK51125A/ CD125/CD160

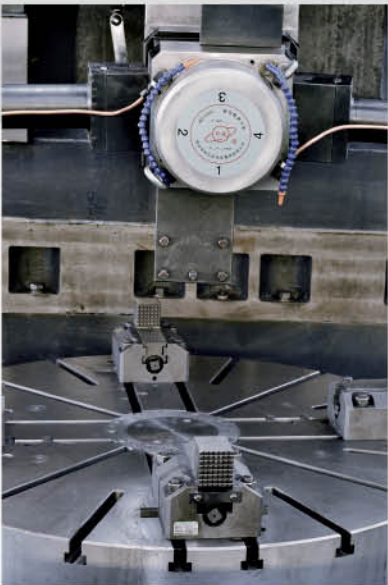
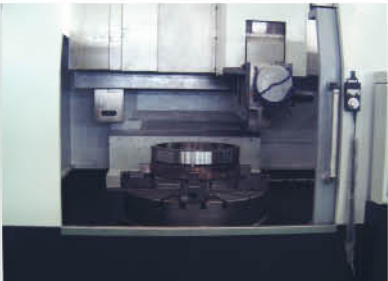
适用于大型盘、套类零件加工的高效立式车床

High efficiency vertical lathe; For cutting large size disk type and ring type workpieces

机床特点描述 / Machine Features Description

- 1) CK51125: 动梁, T型滑枕, 双十字滑台结构, 强力手动卡爪, 电动四工位刀架, 伺服系统, 高档数控立式工作台车床。
 - 2) CK51125A: 定梁、矩形滑枕、带刀库, 伺服系统, 高档数控立式车床, 可选配大规格液压卡盘。
 - 3) CD125、CD160: 定梁, 矩形滑枕, 单刀座, 无防护的经济型数控立式车床。
- 1) CK51125: high-end vertical CNC lathe with movable beam, T-shaped ram, crossed double slide blocks, manual strong jaw, 4-station power turret, servo system and worktable.
- 2) CK51125A: high-end vertical CNC lathe with fixed beam, rectangular ram, magazine, frequency inverter, large specification hydraulic chuck is optional.
- 3) CD125 CD160: economical vertical CNC lathe with fixed beam, square ram and single tool holder; without guard.





参数列表 / Parameter List

项目 / Items	单位 / Unit	参数 / Parameters			
		CK51125	CK51125A	CD125	CD160
工作台直径 / Diameter of worktable	mm	Φ1050	Φ1050	Φ1050	1400
最大回转直径 / Max. swing diameter	mm	Φ1250	Φ1500	Φ1250	Φ1600
最大车削直径 / Max. turning diameter	mm	Φ1100	Φ1250	Φ1100	Φ1600
最大工件高度 / Max. workpiece height	mm	900	600	900	500
工作台转速 / Worktable speed	r/min	2~400	2~400	15~150	5~150
快移速度(X/Z) / Rapid travel speed	m/min	10/10	10/10	10/10	10/10

CK51160

适用于大型零件加工的数控立式车床

CNC vertical lathe; For cutting large size workpieces

机床特点描述 / Machine Features Description

动梁,分档定位,T型滑枕,电动刀架,强力手动卡爪的立式车床。

vertical lathe with movable beam which stops at fixed positions, with T-shaped ram, power turret and manual strong jaw.

参数列表 / Parameter List

项目 / Item	单位 / Unit	参数 / Parameters
		CK51160
工作台直径 / Diameter of worktable	mm	Φ1250(1400)
最大回转直径 / Max. swing diameter	mm	Φ1600
最大车削直径 / Max. turning diameter	mm	Φ1600
最大工件高度 / Max. workpiece height	mm	1200
工作台转速 / Worktable speed	r/min	2~320
快移速度(X/Z) / Rapid travel speed	m/min	10/10



普通卧式车床系列

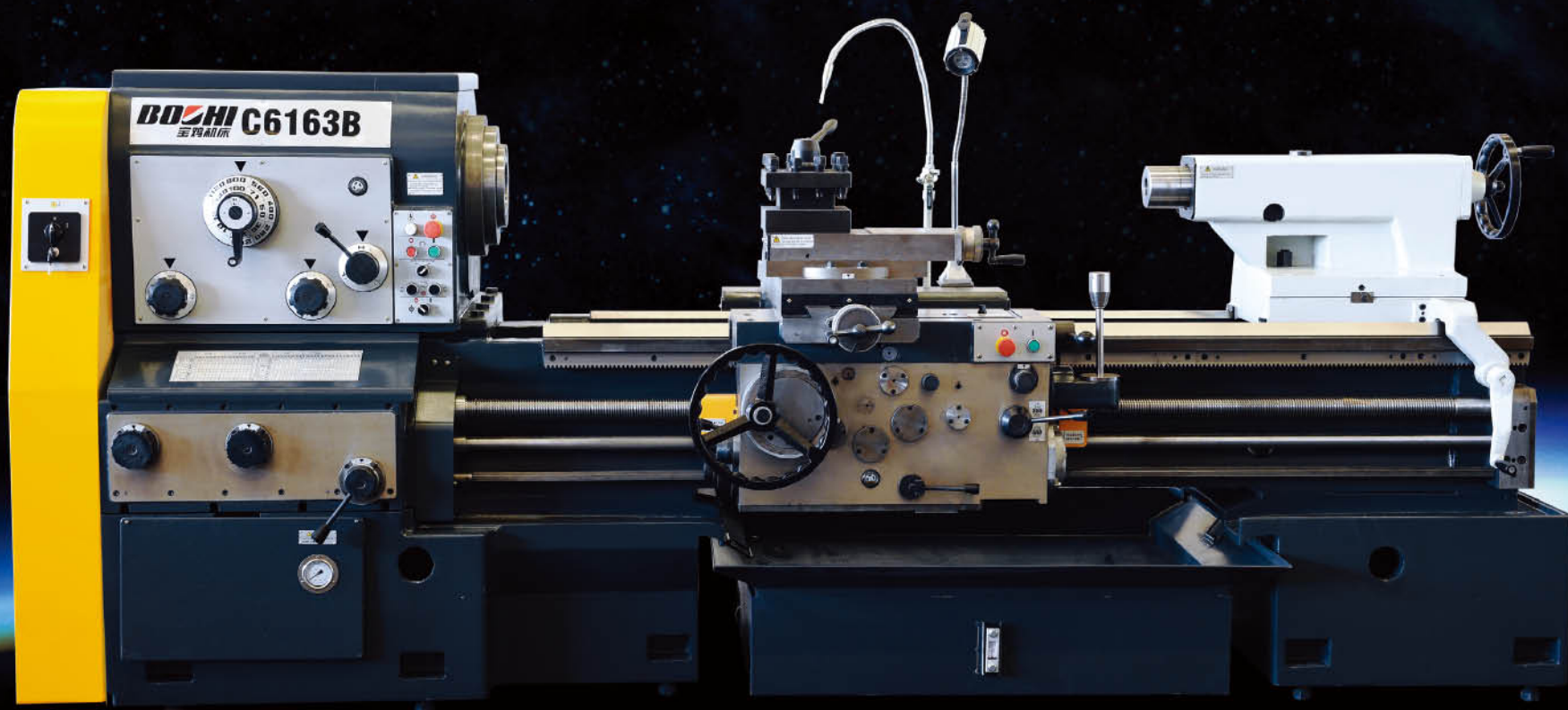
CONVENTIONAL LATHE

CS系列车床 CS series lathe / CS6140(J)系列 CS61(2)40系列 CS61(2)50B系列 CS61(2)50C系列 CS61(2)66B(C)系列(仅供外销)

CQ系列车床 CQ series lathe / CQ6180B系列 CQ6180C系列

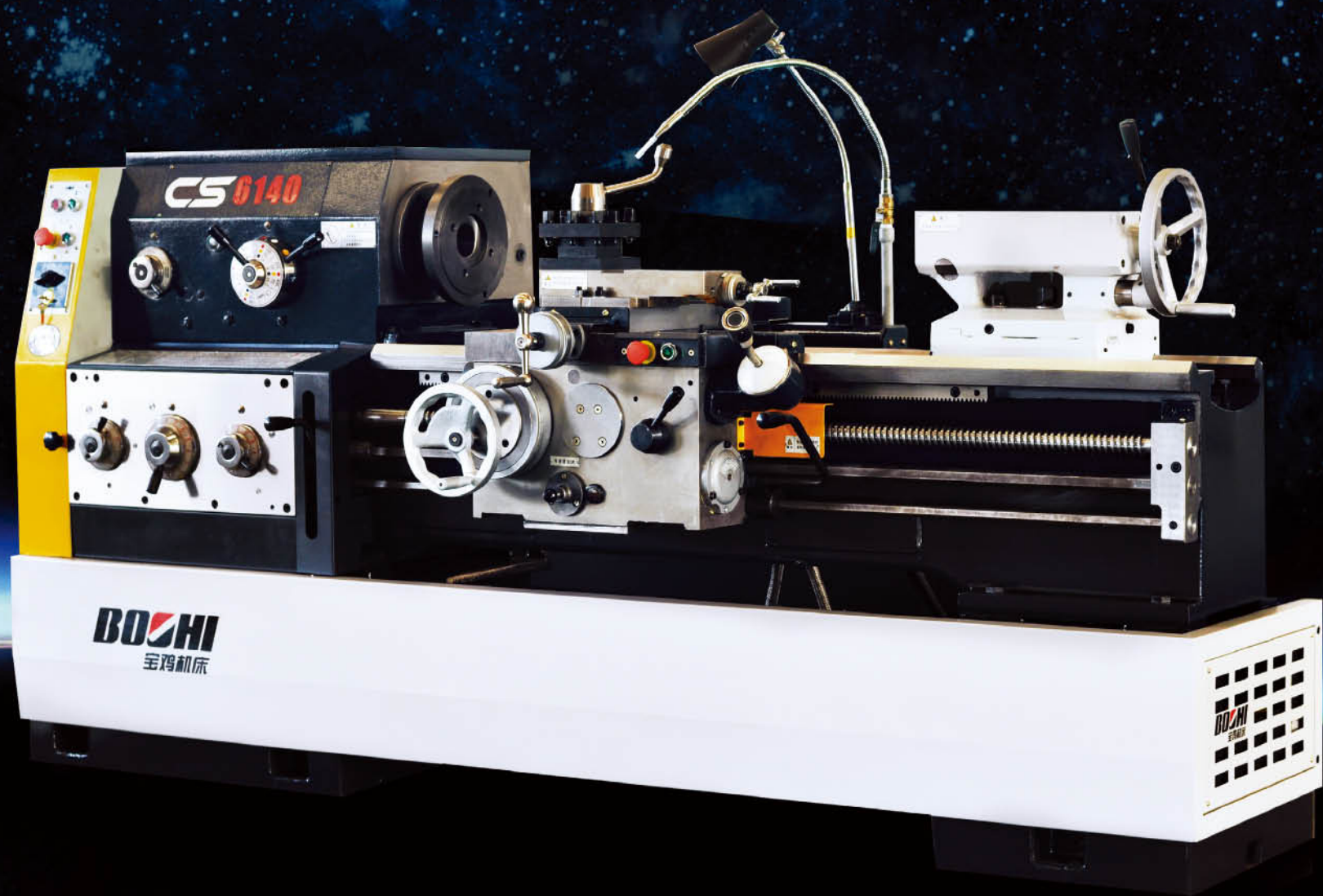
BJ系列车床 BJ series lathe / BJ1640系列 BJ1840系列

C系列车床 C series lathe / C6163B系列 C6180A系列 C6180



让更加精致的普通机床
满足不同领域的需求

Use much finer engine lathes to satisfy the
needs of different fields



CS系列车床

CS series lathe

CS6140J
CS61(2)40
CS61(2)50B

CS61(2)50C
CS61(2)66B
CS61(2)66C

机床特点描述 / Machine Features Description

- 1) 后缀带“B”的主轴通孔直径是Φ82mm;
- 2) 后缀带“C”的主轴通孔直径是Φ105mm;
- 3) 后缀带“J”的是节能型机床;
- 4) 第二位数字是“1”的为普通平床身;
- 5) 第二位数字是“2”的为马鞍式平床身;
- 6) 床身长度有750mm、1000mm、1500mm、2000mm、3000mm五种规格可选。

- 1) Spindle thru-hole is Φ82mm, for machine with letter B in its
- 2) Spindle thru-hole is Φ105mm, for machine with letter C in it
- 3) The suffix with J is an energy-saving machine tool
- 4) The second number 1 in the designation stands for general horizontal bed.
- 5) The second number 2 in the designation stands for horizontal gap bed.
- 6) Five length of machine is available: 750mm, 1000mm, 1500mm, 2000mm and 3000mm.



参数列表 / Parameter List

项目 / Item	单位 / Unit	参数 / Parameters					
		CS6140 CS6240	CS6140J	CS6150B CS6250B	CS6166B CS6266B	CS6140C/CS6150C CS6240C/CS6250C	CS6166C CS6266C
床身上回转直径 Max. swing over bed	mm	Φ400	Φ400	Φ500	Φ660	Φ400/Φ500	Φ660
床鞍上回转直径 Max. swing over slide	mm	Φ220	Φ220	Φ300	Φ420	Φ220/Φ300	Φ420
两顶尖之间最大距离 Max. workpiece length	mm	750/1000/1500/2000/3000	700/950/1450/1950/2950	750/1000/1500/2000/3000	750/1000/1500/2000/3000	750/1000/1500/2000/3000	750/1000/1500/2000/3000
主轴头型式 Spindle nose		ISO 702/II No.6 卡口型bayonet type ;		ISO 702/II No.8 短凸轮锁紧型short cam-lock type			
主轴通孔直径 Spindle thru-hole	mm	Φ52	Φ52	Φ82	Φ82	Φ105	Φ105
主轴转速范围 Spindle speeds	r/min	24级STEPS 9-1600r/min	24级STEPS 9-1600r/min	24级STEPS 9-1600r/min	24级STEPS 9-1600r/min	12级STEPS 36-1600 r/min	12级STEPS 36-1600 r/min
刀具截面 Tool section	mm	25×25	25×25	25×25	25×25	25×25	25×25
上刀架的最大行程 Max. travel of compound rest	mm	145	145	145	145	145	145
下刀架的最大行程 Max. travel of cross slide	mm	320	320	320	310	320	310
尾座套筒直径/行程 Tailstock quill diameter/ Max. travel of quill	mm	75/150	75/150	75/150	75/150	75/150	75/150
尾座套筒孔锥度 Diametric pitch threads	MT	5	5	5	5	5	5
主电机功率 Spindle motor power	kW	7.5	11	7.5	7.5	7.5	7.5

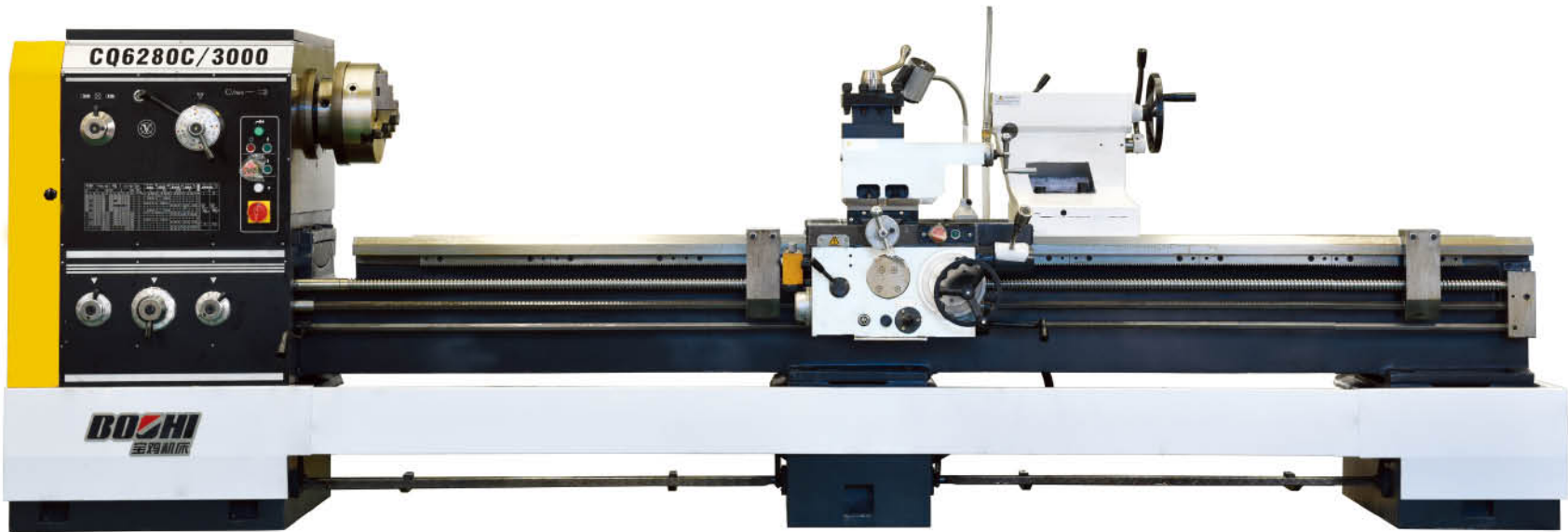
CQ系列马鞍车床

CQ6280B
CQ6280C

回转直径Φ800mm 的轻型普通车床

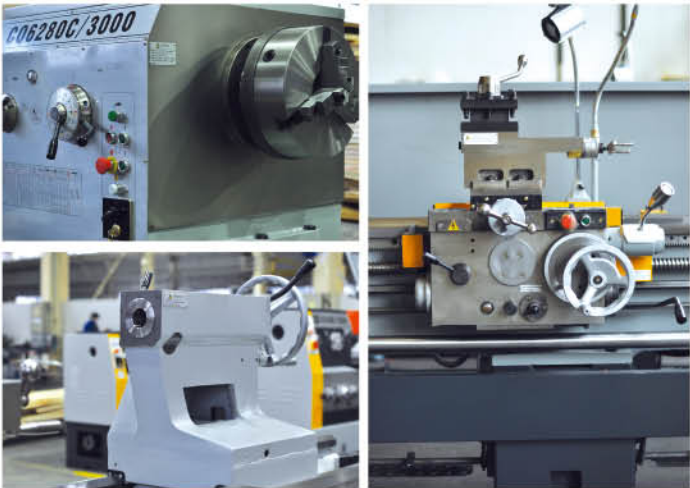
CQ series gap-bed lathe

Light duty engine lathe with swing diameter of Φ800 mm



参数列表 / Parameter List

项目/Item	单位 / Unit	参数 / Parameters	
		CQ6280B	CQ6280C
床身上回转直径 Swing over bed	mm	Φ800	
床鞍上回转直径 Swing over slide	mm	Φ580	
两顶尖之间最大距离 Max. workpiece length	mm	2000/3000	
主轴头型式 Spindle nose		ISO 702/ NO.8 短凸轮锁紧型(cam-lock)	
主轴通孔直径 Spindle thro-hole	mm	Φ82	Φ105
主轴转速范围 Spindle speed	r/min	24级steps 8-1400rpm	12级steps 30-1400rpm
刀具截面 Tool section	mm	25×25	
上刀架的最大行程 Max. travel of compound rest	mm	145	
下刀架的最大行程 Max. travel of cross slide	mm	320	
尾座套筒直径/行程 Tailstock quill diameter /travel	mm	Φ90/150	
尾座套筒孔锥度 Taper of quill	mm	5	
主电机功率 Spindle power	kW	7.5	



BJ系列机床

BJ1630GD
BJ1640GD
BJ1660GD

BJ1840GD
BJ1860GD

BJ1840D/B
BJ1860D/B

适用于车削各种回转面、端面 ,加工各种常用螺纹 ,
以及钻 ,铰 ,攻丝 ,拉削线槽等

BJ series lathe

For swivel surface turning, facing, common thread cutting, drilling,
reaming, tapping and grooving

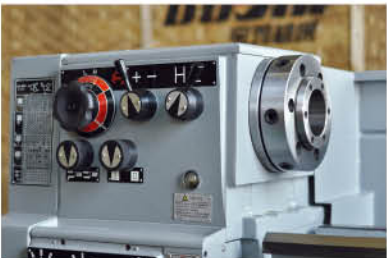
机床特点描述 / Machine Features Description

整体式底座，高速、高稳定性普通车床。
High speed universal lathe with integrated bed and nice stability.



参数列表 / Parameter List

项目 / Items	单位/Unit	参数 / Parameters		
		BJ1630GD BJ1640GD BJ1660GD	BJ1840GD BJ1860GD	BJ1840D/B BJ1860D/B BJ1880D/B
床身上回转直径 / Swing over bed	mm	Φ410	Φ458	Φ458
床鞍上回转直径 / Swing over slide	mm	Φ240	Φ288	Φ288
两顶尖之间最大距离 / Max. workpiece length	mm	750/1000/1500	1000/1500	1000/1500/2000
主轴头型式 / Spindle nose		ISO 702/II NO.6 凸轮锁紧型 cam-lock		ISO 702/II NO.8 凸轮锁紧型 cam-lock
主轴通孔直径 / Spindle thru-hole	mm	Φ52		Φ77
主轴转速范围 / Spindle speed	r/min	12级steps 32-2000rpm		12级steps 24-1600rpm
刀具截面 / Tool section	mm	25×25		
上刀架的最大行程 / Max. travel of compound rest	mm	120		
下刀架的最大行程 / Max. travel of cross slide	mm	230		
尾座套筒直径/行程	mm	Φ55/120		
Tailstock quill diameter/ Max. travel of quill	mm	MT NO.4		
尾座套筒孔锥度 / Diametric pitch threads		4		
主电机功率 / Spindle motor power	kW			



C系列车床

C series lathe

C6163B
C6180
C6180A

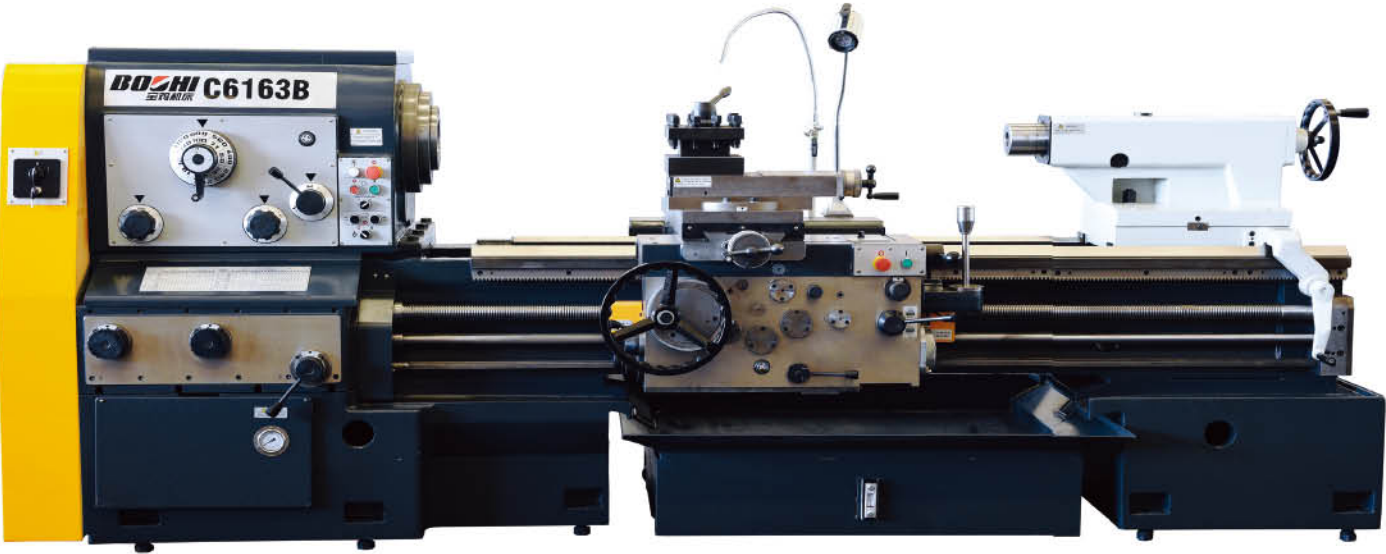
机床特点描述 / Machine Features Description

- 1) 适用于各种车削加工，如车削内外圆柱面、圆锥面、以及其它回转面、端面，还可加工各种常用
 螺纹——如公制、英制、模数、经节螺纹，以及钻，铰，攻丝，拉削线槽等工作。
- 2) 床身有1500mm，2000mm，3000mm，4000mm四种规格可选。（C6180只有1500mm床身规格）
- 1) Suitable for various cuttings, such as ID and OD turning, taper turning, other revolving surfaces turning, facing,
 threading of metric, inch, module and DP threads, drilling, reaming, tapping and slot cutting, etc.
- 2) Three length of machine is available: 1500mm, 2000mm, 3000mm and 4000mm. (The C6180 has only 1500mm bed size)

参数列表 / Parameter List

项目/Items	单位 / Unit	参数 / Parameters		
		C6163B	C6180A	C6180
床身上回转直径 Max. swing over bed	mm	Φ660	Φ830	Φ830
床鞍上回转直径 Max. swing over slide	mm	Φ400	Φ540	Φ500
两顶尖之间最大距离 Max. workpiece length	mm	1500/2000/3000/4000		1500
主轴头型式 Spindle nose		A1-11		A1-11
主轴通孔直径 Spindle thru-hole	mm	Φ105		Φ105
主轴转速范围 Spindle speed	r/min	14级 steps 12.5 ~ 1120 rpm		14级 steps 12.5 ~ 1120 rpm
刀具截面 Tool section	mm	32X32		32X32
上刀架的最大行程 Max. travel of compound rest	mm	200		200
下刀架的最大行程 Max. travel of cross slide	mm	480	515	500
尾座套筒直径/行程 Tailstock quill diameter/ Max. travel of quill	mm	Φ100/250		Φ100/250
尾座套筒孔锥度 Diametric pitch threads	MT	5		5
主电机功率 Spindle motor power	kW	11		11

C6163B、C6180A、C6180：中型普通卧式车床
C6163B, C6180A, C6180: medium size horizontal engine lathe



加工中心

MACHINING CENTER

五轴加工中心 / 五轴铣床中心(BMC-500TV五轴联动 BMC-500T四轴联动)
5-axis center / 五轴加工中心(BMC-630V五轴加工中心 FV170门型五轴立式加工中心)

立式加工中心 VMC / 高速型 标准型 实用型

卧式加工中心 HMC / HMC500 HMC630 HMC800

龙门加工中心 / 18系列(BXH1820L BXH1830L BXH1840L)
Gantry type / 23系列(BHX2330L BHX2340L BHX2350L BHX2360L)

钻削中心 / ZH钻削中心(ZH7120E钻削中心)
Drilling center

高效率切削加工·减少人工劳动强度

HIGHLY EFFICIENT CUTTING CUTS THE WORKER LABOR INTENSITY.



五轴铣车中心

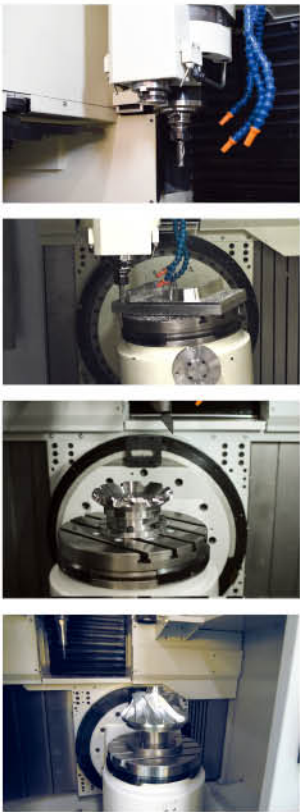
FIVE-AXIS MILLING MACHINE CENTER

BMC-500TV 五轴联动 BMC-500T 四轴联动
BMC-500TV Five-axis linkage BMC-500T Four-axis linkage

机床特点描述 / Machine Features Description

BMC-500TV为五轴五联动高档铣车复合加工中心，主机采用箱型滑枕结构，直驱BC双回转工作台，三轴滚动导轨，五轴全闭环控制。机床具有五轴联动铣削、复合立卧数控车功能，铣、车共用链式刀库，铣车模式无缝转换，高速高精度高可靠，一次装夹能完成多种切削。设备适用于对复杂曲面、多面体类零件的精密铣车复合加工，广泛应用于航空航天、船舶、汽车、刀具、高铁、医疗器械、模具、IT 等制造业，属国家重大专项支持装备。

BMC-500TV is a high-end 5-axis synchronized milling and turning compound machining center. The main machine adopts box-type slide structure, direct drive BC double rotary table, three-axis rolling guideway and five-axis closed-loop control. The machine tool has the functions of five-axis synchronized milling and compound vertical and horizontal CNC lathe. Milling and turning share chain type tool magazine. Milling and turning mode is seamlessly converted. It has high speed, high precision and high reliability. One clamp can complete many kinds of cutting. The equipment is suitable for complex surface and polyhedron parts of precision milling and turning compound processing, widely used in aerospace, ships, automobiles, cutting tools, high-speed rail, medical equipment, dies, IT and other manufacturing industries, is an equipment supported by National Major Project.



参数列表 / Parameter List

项目 / Item	单位/Unit	参数 / Parameters	
		BMC-500TV	BMC-500T
工作台尺寸 / Table area	mm	φ 400	φ 400
允许负载 / Permissible load	kg	150	150
行程(X/Y/Z) / Travel	mm	820/500/550	780/500/550
B轴倾角 / B axis angle	度	+130° ~ -130°	±100°×1°
C轴分度角 / C axis index angle	度	360°	360°
快移速度(X/Y/Z) / Rapid travel speed	m/min	48	48
B轴/C轴 / B axis/C axis	r/min	30/80	15/50
主轴锥孔 / Spindle taper hole	No.	BT40	BT40
主轴转速 / Spindle speed	r/min	100-15000	100-20000
主轴电机功率(S1) / Spindle motor power (S1)	kW	24	11/18.5
刀库容量 / ATC capacity	pcs	32	32



五轴加工中心

5-axis vertical machining center

BMC-630V 五轴加工中心

BMC-630V 5-axis vertical machining center

机床特点描述 / Machine Features Description

BMC-630V五轴立式加工中心，采用稳定的C型结构，标配高速电主轴、直驱数控转台和伺服刀库，可实现复杂零件的高速、高精度加工。广泛应用于新能源汽车电机、变速箱、发动机、模具、机器人、医疗器械等产品的制造。

BMC-630V 5-axis vertical machining center, with stable C type structure, standard with high speed electric spindle, direct drive NC rotary table and servo tool magazine, capable for high speed, high accuracy machining on complex parts. Widely application in machining products of new energy motor, gearbox, engine, mold, robot, medical apparatus etc.

参数列表 / Parameter List

项目 / Item	单位/Unit	参数 / Parameters
		BMC-630V
工作台尺寸 / Table area	mm	φ 630
允许负载 / Permissible load	kg	500(水平) 300(垂直)
行程(X/Y/Z) / Travel	mm	600/450/400
快移速度(X/Y/Z) / Rapid travel speed	m/min	36
主轴锥孔 / Spindle taper hole	No.	BT40
主轴转速 / Spindle speed	r/min	1500-12000
主轴电机功率(S6) Spindle motor power (S6)	kW	11/15
刀库容量 / ATC capacity	pcs	24



装备精密高速丝杠，滚柱导轨，保证机床的刚性和精度。



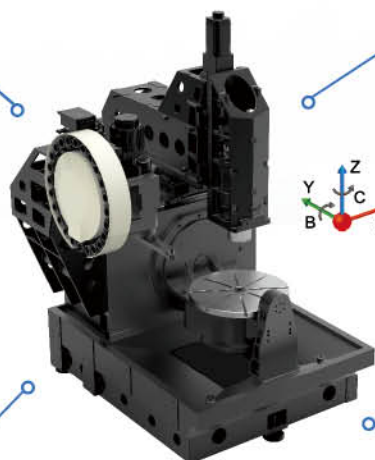
SINUMERIK 840D sl强大的硬件架构以及智能的控制算法，辅助以出色的驱动和电机技术，使加工过程拥有极高的动态性能及精度。



自主研制BT40/HSKA63电主轴，高精度、高功率密度、高动态响应，大幅提高加工效率和加工精度，降低机床噪音和振动。



液压同步换刀技术，实现伺服刀库和伺服液压站协同控制，最快换刀时间可达1.8s。



自主研制BC双轴直驱数控转台，内置大扭矩力矩电机，高精度、高动态响应，大幅提升机床性能和应用范围。

FV170 门型五轴立式加工中心

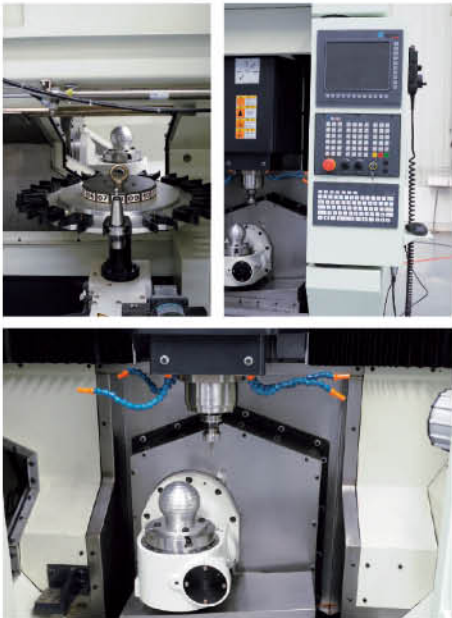
FV170 5-Axis Vertical Machining Center

机床特点描述 / Machine Features Description

FV-170五轴立式加工中心主要加工叶轮等多面体和曲面零件，是一款主要面向汽车涡轮增压器叶轮精密加工而开发的精密五轴加工中心。全机采用高刚性结构轻量化设计，门型结构，16工位伞型刀库，能有效的提供精密加工所需的高刚性与高精度。

机床基本配置为X、Y、Z、B、C五轴联动，主轴为转速30000r/min的高刚性大扭矩电主轴，可进行强力铣削和各种复杂曲面的精密加工。

FV-170 5-axis vertical machining center mainly processes impeller and other polyhedral and curved surface parts. It is a precision 5-axis machining center mainly developed for precision machining of automobile turbocharger impeller. The machine adopts high rigidity structure, lightweight design, gantry type structure and 16-station umbrella tool magazine which can effectively provide high rigidity and high precision for precision machining. The machine is basically equipped with X, Y, Z, B and C 5-axis linkage. The spindle is a high rigidity and large torque motorized spindle with a speed of 30000r/min. It can be used for powerful milling and precision machining of various complex surfaces.



参数列表 / Parameter List

项目 / Item	单位/Unit	FV170
外形尺寸 (长×宽) / Dimension (L×W)	mm	φ170
T型槽 / T-slot		12×4圆周均布
最大承重 / Max permissible load	kg	60 (水平) 45 (倾斜)
X左右行程 / X-axis right and left travel	mm	450
Y前后行程 / Y-axis back and forth travel	mm	270
Z上下行程 / Z-axis up and down travel	mm	310
主轴锥孔 / Spindle taper hole		ISO30
主轴转速 / Spindle speed	r/min	30000
最高进给速度 (X/Y/Z) / Max. feed rate (X/Y/Z)	mm/min	1-12000
快速移动速度 (X/Y/Z) / Rapid traverse (X/Y/Z)	m/min	48/48/48
B/C轴分度定位精度 / Positioning accuracy (B/C)	"	60/20
B/C轴分度重复定位精度 / Repeatability (B/C)	"	8/6

立式加工中心

VERTICAL MACHINING CENTER

智能型立式加工中心 : Intelligent Vertical Machining Center

BM8i-H

高精型立式加工中心 : High Precision Vertical Machining Center

BM8-H

标准型立式加工中心 : Standard Vertical Machining Center

VMC650B/L/H MVC650B/L/H VMC850B/L/H MVC850B/L/H VMC1060B/L/H MVC1060B/L/H VMC1370/MVC1370

VMC1580/MVC1580 VMC1690/MVC1690 VMC1890/MVC1890

实用型立式加工中心 : Practical Vertical Machining Center

VMC850HL BV8H BV9HP



智能型立式加工中心 BM8i-H

Intelligent Vertical Machining Center BM8i-H

机床特点描述 / Machine Features Description

BM8i-H智能立式加工中心，采用整体C型结构，15000rpm高速直联主轴，三轴重载滚柱线性导轨，整机主要精度压缩了国家标准的50%-65%，保证了机床高精度、高速度、高刚性的加工性能；防护造型新颖，安全环保；同时结合宝机B-800M智能系统，实现了机床热误差补偿、双码联控、断刀检测、健康保障的智能功能，是我公司新推出的一款智能机床。主要用于航空航天、船舶、汽车、模具等行业的高精高速加工。

BM8i-H Intelligent Vertical Machining Center adopts integral C-type structure, 15000rpm high-speed direct spindle, 3-axis heavy-duty roller linear guide, the main accuracy of the machine is reduced by 50%-65% of the national standard, which guarantees the high precision, high speed and high rigidity of the machine tool processing performance; with good looking appearance, safe and environmental protection; at the same time, combined with Baoji B-800M intelligent CNC system, the machine thermal error compensation and the intelligent functions of double code joint control, tool breaking detection and health protection are realized. It is a new intelligent machine tool introduced by our company. Mainly used in aerospace, shipping, automobile, die and other industries of high-precision and high-speed processing.



参数列表 / Parameter List

项目 / Items	单位 / Unit	参数 / Parameters
		BM8i-H
工作台尺寸 (L×W) Worktable size (L×W)	mm	1000×500
行程X/Y/Z Travel X/Y/Z	mm	800/500/600
主轴端面至工作台面距离 Distance of spindle nose and worktable face	mm	110 ~ 710
主轴锥孔 Spindle taper		BT40
主轴最高转速 Spindle speed	r/min	15000
主轴功率 Spindle power	kW	7.5
X/Y/Z快速移动速度 X/Y/Z rapid travel speed	m/min	48/48/48
X/Y/Z轴定位精度 X/Y/Z positioning accuracy	mm	0.01/0.01/0.01
X/Y/Z轴重复定位精度 X/Y/Z repeatability	mm	0.006/0.006/0.008



高精型立式加工中心 BM8-H

High Precision Vertical Machining Center BM8-H

机床特点描述 / Machine Features Description

BM8-H是我公司研制的高速、高精立式加工中心，其XYZ轴采用滚柱线轨，整机主要精度压缩了国家标准的50%~65%，且可选配XYZ轴采用光栅尺闭环控制，保证高精度、高速度、高刚性性能。防护造型新颖，安全环保。主要用于汽车、模具、摩托车、航空航天、机械制造等行业阀类凸轮、模具、板盘类和箱体类零件的高速加工。



参数列表 / Parameter List

项目 / Items		单位 / Unit	参数 / Parameters
			BM8-H
工作台 Work Table	外形尺寸 (长×宽) / Dimension (L×W)	mm	1000×500
	T型槽 / T-slot	mm	5-18(H8)
	最大承重 / Max permissible load	kg	500
行程 Travel	X左右行程 / X-axis right and left travel	mm	800
	Y前后行程 / Y-axis back and forth travel	mm	500
	Z上下行程 / Z-axis up and down travel	mm	600
主轴 Spindle	主轴锥孔 / Spindle taper hole		BT40
	主轴功率 / Spindle power	kW	7.5/11
	主轴转速 / Spindle speed	r/min	12000
进给 Feed	最高进给速度 (X/Y/Z) / Max. feed rate (X/Y/Z)	mm/min	10000
	快速移动速度 (X/Y/Z) / Rapid traverse (X/Y/Z)	m/min	48/48/48
(JIS标准)精度 (JIS standard) Accuracy	定位精度 (X/Y/Z) / Positioning accuracy (X/Y/Z)	mm	0.01/0.01/0.01
	重复定位精度 (X/Y/Z) / Repeatability (X/Y/Z)	mm	0.006/0.006/0.008



标准型立式加工中心VMC系列

Standard Vertical Machining Center VMC series

VMC650 / MVC650	VMC1270 / MVC1270	VMC1690 / MVC1690
VMC850B / MVC850B	VMC1370 / MVC1370	VMC1890 / MVC1890
VMC1060B / MVC1060B	VMC1580 / MVC1580	

高效高可靠性的立式加工中心 / 数控铣

High efficiency; Good reliability; Vertical machining center/CNC milling machine



参数列表 / Parameter List

项目/Items	单位/Unit	参数 / Parameters							
		VMC650 MVC650	VMC850B MVC850B	VMC1060B MVC1060B	VMC1270 MVC1270	VMC1370 MVC1370	VMC1580 MVC1580	VMC1690 MVC1690	VMC1890 MVC1890
工作台尺寸 / Table area	mm	420×800	500×1050	600×1300	700×1360	710×1400	800×1700	900×1800	900×2000
允许负载 / Permissible load	kg	600	600	1000	1000	1000	1500	1600	1800
行程(X/Y/Z) / Travel	mm	650/400/480	800/500/550	1000/600/600	1200/700/600	1300/700/650	1500/800/700	1600/900/680	1800/900/680
快移速度(X/Y/Z) / Rapid move speed	m/min	20/20/20	20/20/20	20/20/20	20/20/20	20/20/20	20/20/20	20/20/20	20/20/20
主轴锥孔 / Spindle taper hole	No.	BT40	BT 40	BT 40	BT 50	BT 50	BT 50	BT 50	BT 50
主轴转速 / Spindle speed	r/min	8000	8000	8000	7000	7000	7000	7000	7000
主轴电机功率 / Spindle motor power	kW	7.5/11	7.5/11	7.5/11	11/15	11/15	15/18.5	18.5/22	18.5/22
刀库容量 / ATC capacity	pcs	16/20/24	16/20/24	20/24	24	24	24	24	24

标准型立式加工中心 VMC-L系列 VMC-H系列

Standard Vertical Machining Center VMC-L series, VMC-H series

VMC-L系列 VMC650L MVC650L VMC850L
MVC850L VMC1060L MVC1060L

机床特点描述 / Machine Features Description

- 1) XY向采用滚柱线轨、Z向采用滑动淬硬导轨。
- 2) VMC是带刀库的加工中心/MVC是不带刀库的数控铣。
- 3) 控制系统可选择FANUC/广数系统/KND/华中系统/SIEMENS/三菱系统
- 1) X/Y to the use of roller line rails, Z to the use of sliding hardened guide rails.
- 2) VMC stands for machining center with magazine; MVC for CNC milling machine without magazine.
- 3) Optional control systems FANUC, GSK, KND, HNC, SIEMENS, MITSUBISHI



VMC-H系列 VMC650H VMC850H VMC1060H

机床特点描述 / Machine Features Description

- 1) C型结构、真“人”字型立柱、三向滚柱线轨，12000r/min直连短鼻主轴。
- 2) 可选配光栅尺全闭环控制。
- 1) C type vertical machining centers with A-shaped columns, roller guides in three axes and short nose 12000 r/min spindles directly connected.
- 2) Optional fully closed loop with encoders.



参数列表 / Parameter List

项目/Items	单位/Unit	参数 / Parameters					
		VMC650L MVC650L	VMC850L MVC850L	VMC1060L MVC1060L	VMC650H	VMC850H	VMC1060H
工作台尺寸 / Table area	mm	500×800	500×1000	600×1300	800×500	1000×500	1300×600
允许负载 / Permissible load	kg	350	500	1000	500	500	1000
行程(X/Y/Z) / Travel	mm	600/500/600	800/500/600	1000/600/600	600×500×600	800×500×600	1000×600×600
快移速度(X/Y/Z) / Rapid move speed	m/min	32/32/20	32/32/20	24/24/20	48/48/48	48/48/48	36/36/32
主轴锥孔 / Spindle taper hole	No.	BT 40	BT 40	BT 40	BT40	BT40	BT40
主轴转速 / Spindle speed	r/min	8000	8000	8000	12000	12000	12000
主轴电机功率 / Spindle motor power	kW	7.5/11	7.5/11	7.5/11	7.5/11	7.5/11	7.5/11
刀库容量 / ATC capacity	pcs	16/20/24	16/20/24	20/24	24	24	24

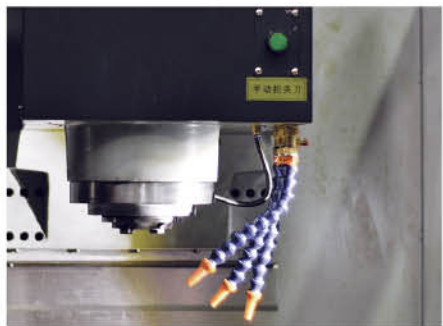
实用型立式加工中心 VMC850HL BV9HP

Practical Vertical Machining Center VMC850HL /BV9HP
(high-accuracy/heavy-loaded)

(高精、重载)

三向滚柱线轨

Roller linear guide-ways in three axes



参数列表 / Parameter List

项目 / Items	单位/Unit	参数 / Parameters	
		VMC850HL	BV9HP
工作台尺寸 / Table area	mm	500×1000	500×1100
允许负载 / Permissible load	kg	500	600
行程(X/Y/Z) / Travel	mm	800/500/600	900/550/600
快移速度(X/Y/Z) / Rapid move speed	m/min	48/48/42	48/48/48
主轴锥孔 / Spindle taper hole	No.	BT40	BT40
主轴转速 / Spindle speed	r/min	8000	12000
主轴电机功率 (连续/30分钟) Spindle motor power	kW	7.5/11	14
刀库容量 / ATC capacity	pcs	24	24

卧式加工中心系列

HORIZONTAL MACHINING CENTER SERIES

高精度 · 高速卧式加工中心

High accuracy; high speed

HMC 系列

HMC500
HMC630
HMC800

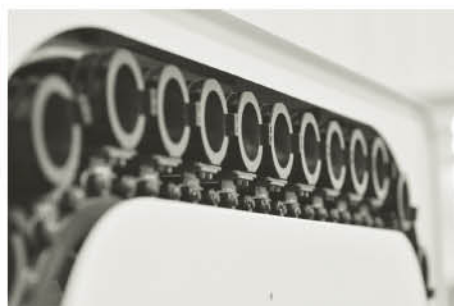
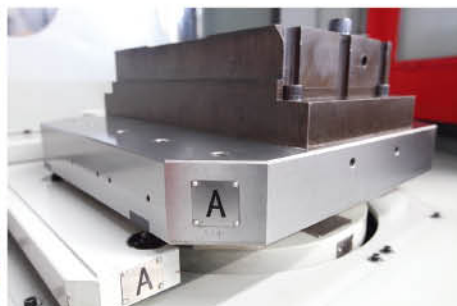
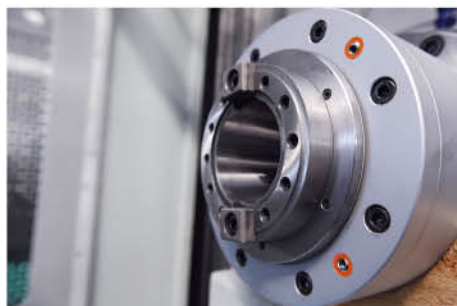
箱体、模具等高精制造行业的切削利器

HMC series

A good machine for high precision manufacturing industry to cut cases and dies/moulds

机床特点描述 / Machine Features Description

- 1) 正T型阶梯床身结构
 - 2) 大导程高精度强制冷却进给系统
 - 3) XYZ直线轴, $+360^{\circ} \times 1$ 旋转B轴
 - 4) 三轴滚柱线轨
 - 5) 强制冷却主轴
 - 6) 三轴光栅尺全闭环
 - 7) 双交换工作台
 - 8) 主轴、丝杠及其轴承强制冷却
 - 9) 双螺旋排屑器+链式排屑器
 - 10) 主轴、光栅尺气幕保护
 - 11) 主轴自重平衡系统
- 1) T-shaped stair type bed
 - 2) Large-lead high precision forced cooling feed system
 - 3) X, Y and Z linear axes, $360^{\circ} \times 1$ rotating B-axis
 - 4) X-axis, Y-axis and Z-axis linear roller ways
 - 5) Forced cooling spindle
 - 6) X-axis, Y-axis and Z-axis encoder full-closed loop
 - 7) Double pallet table
 - 8) Forced cooling for spindle, screws and their bearings
 - 9) Double spiral chip conveyor and chain chip conveyor
 - 10) Air curtain protection of spindle and encoders
 - 11) Spindle gravity air balancing system



参数列表 / Parameter List

项目 / Items		单位 / Unit	参数 / Parameters		
			HMC500	HMC630	HMC800
移动 Travel	X轴 / X-axis	mm	850	1000	1350
	Y轴 / Y-axis	mm	700	850	1100
	Z轴 / Z-axis	mm	800	850	1150
	主轴端到工作台中心的距离 / Distance from spindle nose to center of table	mm	70-870	200-1050	200-1350
	主轴中心到工作台面的距离 / Distance from spindle center to top of pallet	mm	75-775	75-925	75-1175
工作台及托盘 Table and pallet	工作台尺寸 / Size of table	mm	500×500	630×630	800×800
	工作台分度 / Indexing of table	Deg	360×1°(0.001°)	360×1°(0.001°)	360×1°(0.001°)
	工作台类型 / Type of table		24-M16	24-M16	24-M16
	工作台承载能力 / Loading capacity of table	kg	500	1200	2000
	最大工件尺寸 / Max. workpiece size	mm	Φ750, H850	Φ1000,H1000	Φ1300,H1300
	托盘交换型式 / Change type of pallet		旋转式Rotating	旋转式Rotating	旋转式Rotating
	托盘交换时间 / Change time of pallet	s	12	20	20
	托盘个数 / Number of pallets		2	2	2
	工作台离地面距离 / Height of table from floor	mm	1150	1305	1300
	工作台最大承载扭矩 / Max. load torque of table	Nm	2250	4500	4255
主轴 Spindle	主轴转速 / Spindle speed	r/min	7000	6000	6000
	主轴功率 / Spindle power	kW	15/18.5	18.5/22	22/26
	主轴扭矩 / Spindle torque	Nm	95.4/117	471/560	560/760
	锥孔 / Taper hole		BT50	BT50	BT50
	主轴冷却 / Spindle cooling		强制冷却Forced cooling	强制冷却Forced cooling	强制冷却Forced cooling
进给 Feed	导轨 / Guide way		滚柱线性导轨Linear roller ways	滚柱线性导轨Linear roller ways	滚柱线性导轨Linear roller ways
	进给电机扭矩X/Y/Z / Torque of X, Y and Z-axis feed motor	NM	30/30/30	30/30/30	30/30/30
	快速进给速度X/Y/Z/B / Rapid traverse of X, Y, Z, and B-axis	m/min	36/36/36	36/36/36	32/32/32
	切削进给速度X/Y/Z/B / Cutting feed of X, Y, Z, and B-axis	mm/min	12000	12000	12000
	丝杠冷却 / Cooling of screw		强制冷却Forced cooling	强制冷却Forced cooling	强制冷却Forced cooling
刀具装置 Tool changer	三轴光栅 / Encoder of three axes		选配Optional	选配Optional	选配Optional
	刀具容纳数 / Capacity (pc)	pc	40 (60,90)	60 (40,90)	60 (40,90)
	刀具交换方式 / Tool change type		机械手Manipulator	机械手Manipulator	机械手Manipulator
	刀具选择方式 / Tool selection type		随机，双向Random, bidirection	随机，双向Random, bidirection	随机，双向Random, bidirection
	刀具最大重量 / Max. weight of tool (kg)	kg	25	25	25
	最大刀具直径(满刀/邻空) / Max. diameter of tool (occupied/empty adjacency)	mm	125/250	125/250	120/240
	最大刀具长度 / Max. length of tool	mm	350	400	400
	刀柄型式Type of tool shank		MAS403 BT50	MAS403 BT50	MAS403 BT50
	拉钉型式Type of drawbar		MAS403 P50T-1 (45°)	MAS403 P50T-1 (45°)	MAS403 P50T-1 (45°)
	换刀时间 (T-T) / (C-C) / Tool change time (T-T/C-C)	S	3.5/7.5	4.6/10	4.6/10
精度 Accuracy	双向定位精度 / Bidirectional positioning	mm	0.012	0.012	0.018
	配光栅尺双向定位精度 / Bidirectional positioning in case encoder	mm	0.006	0.008	0.010
	双向重复定位精度 / Bidirectional repeatability	mm	0.008	0.008	0.012
	配光栅尺双向重复定位精度 / Bidirectional repeatability in case encoder	mm	0.005	0.006	0.008
	工作台分度定位精度 / Indexing accuracy of table	"	15	15	8
	工作台重复分度定位精度 / Repeatedly indexing accuracy of table	"	±3	±3	3
其它 Others	数控系统NC / Controller		FANUC 0iMF	FANUC 0iMD	FANUC 0iMD
	气源 / Air source	MPa	0.5	0.5	0.5
	切削液槽容量 / Capacity of cutting fluid tank	L	500	600	600
	电源 / Power source	kw	60	60	70
	机床外形尺寸 / Dimensions of machine	mm	5150X3845X2975	5800X4400X3500	9100X5600X3900
	机床重量 / Weight of machine	kg	20000	23000	24000

龙门加工中心

GANTRY MACHINING CENTER SERIES

高刚性·大型龙门式铣削利器

High rigidity; large gantry frame; good milling machine

18系列/23系列龙门铣床/龙门加工中心

高刚性多功能大型制造装备，主要用于大型零件、模具等多品种加工，广泛适用于航空、航天、汽车、模具、重机、机车、造船、机电、机床、印刷、轻纺等制造行业。

18/23 series gantry type milling machine/ machining center

Large-duty manufacturing equipment with high rigidity and multiple function; it is mainly used for multi work machining---large size work pieces and dies/moulds. Suitable for use in aerospace, automotive, die/mould, heavy machinery, locomotive, shipbuilding, electromechanical, machine tool, printing, textile industries and light industries.

机床特点描述 / Machine Features Description

- 1) 配备FANUC Oi-MD系统，可选配FANUC 18i或SIEMENS 840D。
- 2) 台湾产6000rpm皮带式主轴。
- 3) 40把链式刀库。
- 4) XY轴进口滚柱线轨。
- 5) 主轴箱液压自动平衡系统。
- 6) 螺旋式排屑器+链式排屑器。
- 7) 主轴锥孔清洁吹气。
- 8) 自动润滑系统。
- 9) 加高半防护。
- 10) 刚性攻丝。
- 11) 可选配：主轴油冷，ZF减速机，第四轴工作台，手动90°角度头，自动刀长量测系统。

- 1) Equipped with FANUC oi-MD controuer, FANUC 18i and SiEMENS 840D are optional.
- 2) Taiwan made belt driven spindle 6000rpm
- 3) Chain type magazine 40 tools
- 4) Imported X-axis and Y-axis roller linear guides
- 5) Auto hydraulic balancing system of spindle head
- 6) Spiral chip conveyor together with chain chip conveyor
- 7) Air blow in spindle taper hole for cleaning
- 8) Auto lubrication system
- 9) Half guarding
- 10) Rigid tapping
- 11) Optional: oil cooler of spindle, ZF speed reducer, fourth axis table,



参数列表 / Parameter List

项目 / Items		单位 Unit	18系列龙门铣床 (B XK) 、龙门加工中心 (B XH) 18 series gantry milling machine (B XK) gantry machining center (B XH)			23系列龙门铣床 (B XK) 、龙门加工中心 (B XH) 23 series gantry milling machine (B XK) gantry machining center (B XH)			
			B XK1820L B XH1820L	B XK1830L B XH1830L	B XK1840L B XH1840L	B XK2330L B XH2330L	B XK2340L B XH2340L	B XK2350L B XH2350L	B XK2360L B XH2360L
工作台 Work Table	工作台面积(宽X长) / Able area (W x L)	mm	1800X2000	1800X3000	1800X4000	2300X3000	2300X4000	2300X5000	2300X6000
	T型槽(数目-尺寸X间距) T-slot(number-dimension x space)	mm		9-22X180			11-28X200		
	允许负载 / Permissible load	Kg	4000	6000	10000	8000	12000	15000	18000
主轴 Spindle	主轴锥孔 / Spindle taper hole	No.		BT50			BT50		
	主电机功率(连续/30min.过载) Spindle motor(con./30min.overload)	KW		22/26			22/26		
	主轴最高转速 / Max. spindle speed	rpm		6000			6000		
行程 Travel	工作台左右行程 / (X Right and left travel of table (X-axis)	mm	2200	3000	4000	3000	4000	5000	6000
	主轴箱前后行程(Y) Rear and front travel of spindle box (Y-axis)	mm		2200			2700		
	主轴箱上下行程(Z) Up and down travel of spindle box (Z-axis)	mm		1000			1000		
	主轴端面至工作台面距离 Distance of spindle nose to table face	mm		250-1250			260-1260		
	龙门宽度 / Gantry width	mm		2200			2700		
进给 Feed	X轴快速移动 / X-axis rapid traverse	mm/min	10000	8000	6000	8000	6000	6000	5000
	Y轴快速移动 / Y-axis rapid traverse	mm/min		10000			10000		
	Z轴快速移动 / Z-axis rapid traverse	mm/min		10000			10000		
	最大切削进给速度 / Max. cutting Feedrate	mm/min	5-5000	5-5000	5-5000	5-5000	5-5000	5-5000	5-5000
刀库 Magazine (铣床无此项)	刀具规格 / Tool specification	/	BT50	BT50	BT50	BT50	BT50	BT50	BT50
	刀库容量 / Magazine capacity	Pcs		40			40		
	换刀方式 / Tool change type	/		双向任意 Any of two-directions			双向任意 Any of two-directions		
	ATC换刀时间 / Ool change time of ATC	S		3.5S (T-T)			3.5S (T-T)		
	最大刀具尺寸 / Max. tool size	mm		φ125X400			φ125X400		
	最大刀具重量 / Max. tool weight	Kg		18			18		
机床精度 Machine accuracy	定位精度 Positioning accuracy	X X-axis	mm	0.032	0.032	0.032	0.032	0.032	0.032
		Y Y-axis			0.032			0.032	
		Z Z-axis			0.025			0.025	
	单向重复定位精度 One direction repeatability	X X-axis	mm	0.013	0.013	0.013	0.013	0.013	0.013
		Y Y-axis			0.013			0.013	
		Z Z-axis			0.010			0.010	
其它 Other	机床重量 / Machine weight	Kg	28000	34000	38000	43000	48000	53000	63000
	机床长度X机床宽度X机床高度 / Length x width x height	mm	7200X3700X4800	9200X3700X4800	11200X3700X4800	9500X4400X4800	11600X4400X4800	14000X4400X4800	16500X4400X4800



钻削中心

ZH 钻削中心 / ZH7120E 钻削中心

机床特点描述 / Machine Features Description

- 1) 适用于汽车、摩托车、机械制造、缝纫机、仪器仪表、电子等行业的阀类、板盘类和箱壳类零件的快速钻孔、攻丝等加工工序及小型模具的高速铣削。具有速度快、精度保持性好、占地面积小等特点。
- 2) 三轴进口滚动直线导轨副，z轴六滑块设计，高速震动小，低速无爬行，定位精度高。
- 3) 高速直连主轴，标配FANUC系统，转速20000r/min，可以选配4000r/min主轴。
- 4) 三轴快移速度可达48/48/60m/min。
- 5) 配备新型伺服飞碟式16T刀库，换刀速度快，加工辅助时间短。

- 1) It is designed for rapid drilling and tapping of valve-type, plate- type and case-type workpieces and speedy milling of small dies/molds, suitable for use in automotive, motorcycle, manufacturing, sewing machine, instrument and electronic industries. Features: high rigidity, high accuracy, high speed, high efficiency and high reliability.
- 2) 3-axis imported roller linear guideway, 6 sliders on Z axis , small vibration at high speed, no crawling at low speed, high positioning accuracy.
- 3) High-speed direct spindle, standard FANUC system, speed 20000r/min, 24000r/min spindle is optional.
- 4) Rapid traverse rate of three axes is up to 48/48/60m/min.
- 5) New UFO-type 16T magazine equipped on the machine ensures fast tool change and short non-cutting time.



参数列表 / Parameter List

项目 / Items		单位 / Unit	参数 / Parameters
			ZH7120E
工作台 Work Table	外形尺寸 (长×宽) / Dimension (L×W)	mm	650×400
	T型槽 / T-slot		3×14×125
	最大承重 / Max permissible load	kg	300
行程 Travel	X左右行程 / X-axis right and left travel	mm	500
	Y前后行程 / Y-axis back and forth travel	mm	400
	Z上下行程 / Z-axis up and down travel	mm	330
主轴	主轴锥孔 / Spindle taper hole		BT30
	主轴功率 / Spindle power	kW	3.7/9
	主轴转速 / Spindle speed	r/min	20000
进给 Feed	最高进给速度 (X/Y/Z) / Max. feed rate (X/Y/Z)	mm/min	10000
	快速移动速度 (X/Y/Z) / Rapid traverse (X/Y/Z)	m/min	48/48/60
精度 Accuracy	定位精度 (X/Y/Z) / Positioning accuracy (X/Y/Z)	mm	0.01/0.01/0.01
	重复定位精度 (X/Y/Z) / Repeatability (X/Y/Z)	mm	0.008/0.008/0.008



专精特数控机床

SPECIAL CNC MACHINE

数控卧式轮毂车床 Horizontal Hub CNC lathe : HW22/CK7660LD/CK7670LE

数控立式轮毂车床 Vertical Hub CNC lathe : BDVL28/VW24T

刹车盘数控车床 Brake disc CNC lathe : CK55F/TK50F

数控管螺纹车床 Pipe thread CNC lathe : QK1212/19/27/35

数控曲轴车床 Crankshaft CNC lathe : CK4363/75

数控珩磨机2MK2218系列 CNC Honing machine : 2MK2206S-2/2MK2218/2MK2218A/2MK2218B/2MK2218S



数控卧式轮毂车床

铝合金轮毂车削加工专家

Specially for cutting aluminum alloy wheels

HW22伺服刀架
CK7660LD
CK7670LE

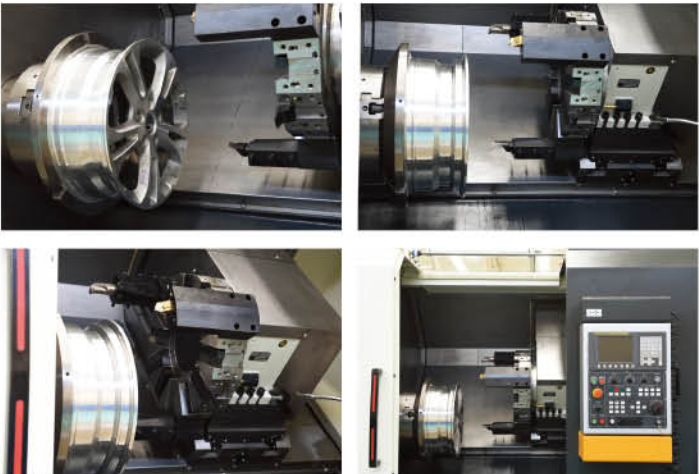
机床特点描述 / Machine Features Description

高强度铸铁斜床身结构，淬硬+贴塑导轨副、精密滚珠丝杠副，主轴单元采用精密角接触球轴承和双列圆柱滚子轴承、伺服驱动，多工位转塔式液压刀架，HW22是伺服刀架，高档数控系统控制。铝合金轮毂车削加工专用数控车床。

The machine is designed with high grade cast iron integrated base and slant bed, hardened bed ways, plastics-coated carriage and tailstock ways, and precision ball screw pairs. The spindle is supported by precision angular contact ball bearings and double row roller bearings, driven by a servo motor. The machine is equipped with multi-station hydraulic turret and controlled by high class CNC controller. It is a special purpose CNC lathe for machining aluminum alloy wheels.

参数列表 / Parameter List

项目 / Item	单位 / Unit	HW22	CK7660LD	CK7670LE
最大回转直径 / Max. swing dia. over bed	mm	Φ790	Φ750	Φ830
最大车削直径 / Max. turning dia.	mm	Φ620	Φ630	Φ680
主轴转速 / Spindle speed	r/min	22-2500	20-2500	22-2200
主轴电机功率 (连续/30分钟) Main motor power(continued/30minutes)	kW	30/37	37/45	37/45
行程(X/Z) / Travel (X/Z)	mm	30+350/750	350/750	360/880
快移速度(X/Z) / Rapid Travel Speed(X/Z)	m/min	16/20	16/20	16/20
最大加工轮毂直径 Maximum processed hub diameter	in	22	22	24



数控立式轮毂车床 | VW24T

VERTICAL HUB CNC LATHE VW24T

机床特点描述 / Machine Features Description

VW24T数控立式双刀架车床是针对汽车轮毂加工开发的一款高效机床。机床拥有单主轴双刀架，由双通道数控系统控制，两个六工位伺服刀架可各自独立对刀和进给，两个刀架可同时对轮毂进行内外圈加工，应用灵活，通用性强；一套控制控制两套进给，加工效率高，占地面积小。

- 1.立式结构，排屑流畅，装夹工件方便；
- 2.高强度铸铁底座、立柱，吸震性好，精度保持性优良；
- 3.主轴采用套筒结构，套筒采用对称、悬挂设计，高刚度主轴，低速大扭矩主轴电机，主轴润滑采用进口高级润滑脂润滑，全封闭，免维护；
- 4.六工位伺服刀架，刚性高、换刀迅速、可靠；
- 5.冷却水箱采用分离式，移动、清洁方便；
- 6.全封闭防护，安全，可靠，环保；
- 7.集中式机床操作面板，操作方便、快捷；
- 8.各种计量单位全部符合国际单位制（SI）。

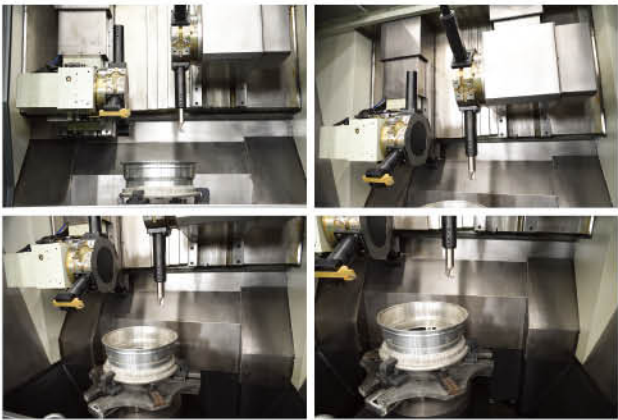
VM24T dual-turret vertical CNC lathe is specially developed for vehicle hub production. The machine has single spindle and dual turrets, controlled by dual channel NC control system, two 6-station servo turrets can set tool and feed independently, two turrets can do machining on internal and external face of hub simultaneously, flexible and universal application, one control system for two feeding system, high efficient machining, small floor occupation.

- 1.Vertical structure, easy chip removal and workpiece clamping.
- 2.High rigidity iron casting machine base and column, good shock absorption and accuracy stability.
- 3.Spindle with sleeve structure. The sleeve is symmetrical and suspension design, rigid spindle, strong torque motor in low speed. Spindle lubrication with imported advanced grease, fully covered, maintenance free.
- 4.6-station servo turret, high rigid, reliable fast tool change.
- 5.Coolant tank with separated type, movable, easy cleaning.
- 6.Full covered guard, safe, reliable, environment protection.
- 7.Concentrated operation panel, easy and fast operating.
- 8.All measuring units are according with International unit system (SI).



参数列表 / Parameter List

项目 / Item	单位 / Unit	VW24T
最大回转直径 / Max. swing dia. over bed	mm	Φ870
最大车削直径 / Max. turning dia.	mm	26 " (660mm)
主轴转速 / Spindle speed	r/min	20-2200
主轴电机功率 (连续/30分钟) Main motor power(continued/30minutes)	kW	45/55
行程(X/Z) / Travel (X/Z)	mm	520/550
快移速度(X/Z) / Rapid Travel Speed(X/Z)	m/min	16/16



轮毂立式加工中心 | BM9-LW

针对汽车行业的锻造轮毂轮辐铣削加工的专业数控立式加工中心

A professional numerical control vertical machining center for milling forged hub spokes in the automobile industry

机床特点描述 / Machine Features Description

门型立柱、方形工作台结构，高速直连主轴、两轴滚柱线规、防护严密、高效排屑、高速高效的立式加工中心，主要用于汽车轮毂轮辐的个性化铣削加工。

Vertical machining centers with gantry type column, square worktable, high speed direct drive spindle, 2-axis roller guideway, tight protection, high efficiency chip removal and high speed and efficiency are mainly used for personalized milling of automobile hub spokes.

参数列表 / Parameter List

项目 / Items	单位 / Unit	参数 / Parameters
		BM9-LW
工作台尺寸 / Work table	mm	800×800
工作台最大承重 / Max. load of work table	kg	750
X/Y/Z行程 / X/Y/Z stroke	mm	800/800/460
主轴端面至工作面距离 / Distance between spindle nose to work table	mm	80 ~ 540
主轴锥孔 / Spindle taper		BT40
主轴功率 / Spindle power	kW	9/15
主轴转速 / Spindle speed	r/min	60 ~ 15000
X/Y/Z快速移动速度 / X/Y/Z rapid travel speed	m/min	48/48/20
X/Y/Z轴定位精度 / X/Y/Z position accuracy	mm	0.01/0.01/0.017
X/Y/Z轴重复定位精度 / X/Y/Z repeatable accuracy	mm	0.008/0.008/0.01
刀库容量 / Number of tool station	把	16



刹车盘数控车床 | TK50F

刹车盘专用车床：
Brake Disc Special Lathe

参数列表 / Parameter List

项目 / Items	单位 / Unit	参数 / Parameters
		TK50F
最大回转直径 / Max. swing diameter	mm	Φ500
最大车削直径 / Max. turning diameter	mm	Φ500
最大车削高度 / Max. turning height	mm	450
主轴转速 / Spindle speed	r/min	75~1500



数控管螺纹系列车床

QK1212
QK1219

QK1227
QK1235

适用于石油、天然气等管道加工

CNC pipe threading lathes

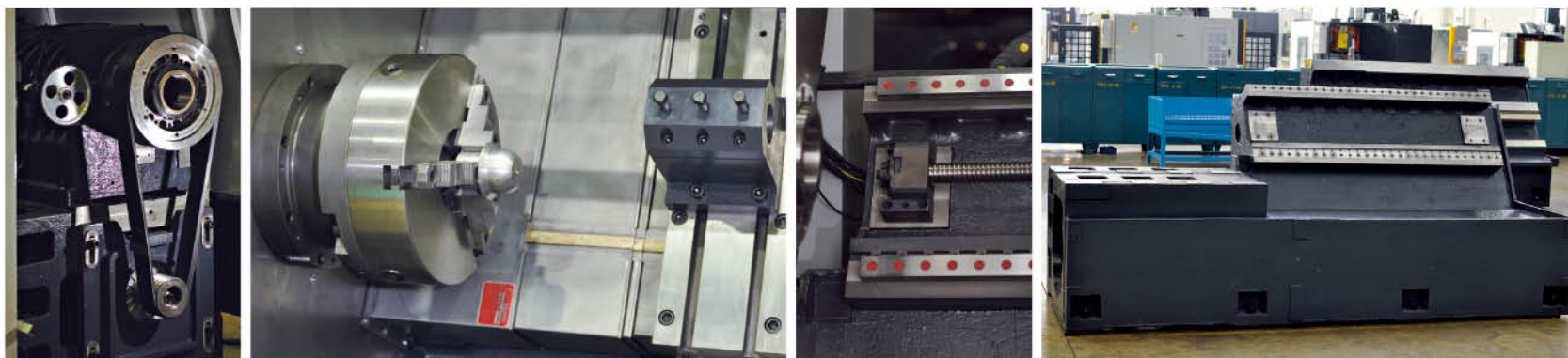
Suitable for threading pipes in petroleum/natural gas industry

机床特点描述 / Machine Features Description

QK12系列是具有大跨距主轴箱结构，整体式斜床身，宽跨距直线圆柱滚动导轨的全功能数控管螺纹专用车床。

QK12 series are special purpose, pipe threading CNC machines with full function.

Features: large span spindle head, integrated slant bed, cylindrical roller linear guide of wide span.





参数列表 / Parameter List

项目 / Items	单位 / Unit	参数 / Parameters			
		QK1212	QK1219	QK1227	QK1235
最大回转直径 Swing over bed	mm	Φ500	Φ600	Φ800	Φ880
床鞍最大回转直径 Swing over carriage	mm	Φ280	Φ280	Φ540	Φ540
最小/最大管子直径 Min/Max diameter of pipe	mm	Φ60.3/Φ120	Φ60.3/Φ190	Φ110-Φ270	Φ110-Φ340
主轴转速 Spindle speed	r/min	150-1000	150-800	40-400	30-320
主轴通孔直径 Spindle hole diameter	mm	Φ130	Φ196	Φ285	Φ355
刀具尺寸 (车削) Tool size (turning)	mm	32X32	32X32	32X32	32X32
刀具尺寸 (镗孔) Tool size (boring)	mm	Φ60	Φ80	Φ80	Φ80
主轴电机功率 spindle motor power	kw	15	22	37	45



曲轴车床系列

CK4363
CK4375

无级变速 · 同步驱动 · 高精度 · 高柔性 · 高效率
的曲轴连杆颈专用数控车床

Crank shaft lathe series
Infinite variable speed, synchronous drive, high accuracy,
high flexibility and high efficiency;
For cutting crankshaft connecting rod journals

机床特点描述 / Machine Features Description

- 1) 60°斜床身，无级调速，密封式防护。

2) 头尾架高效同步轴传动，专用偏心夹具。

3) 曲轴加工专用12工位刀盘。

4) 高精度检测系统。
- 1) 60° slant bed, infinite variable speed, full-enclosed guard.

2) Efficient synchronous drive between headstock and tailstock; special eccentric jig.

3) 12-station turret specially for crank machining.

4) High precision testing system.



参数列表 / Parameter List

项目 / Items	单位 / Unit	参数 / Parameters	
		CK4363	CK4375
最大回转直径 Swing over bed	mm	Φ670	Φ850
最大加工曲轴长度 Crankshaft turning length	mm	800	1500
最大车削直径 Max. turning diameter	mm	Φ450	Φ550
夹具直径 Fixture diameter	mm	Φ320	Φ380
主轴头型式 Spindle nose type		A2-8 (GB5900.1)	A2-11 (GB5900.1)
主轴转速 Spindle speed	r/min	50-1200	30-1200
主电机功率(连续/30分钟) Main motor power (cont./30 mins)	kW	22/30	22/30
行程 / travel (X/Z)	mm	260/800	380/1500
快速移动速度 X/Z Rapid traverse rate	m/min	12/16	10/12
滚珠丝杠直径 X/Z Ball screw diameter	mm	Φ40/Φ50	Φ50/Φ63
曲轴加工专用刀盘直径×宽度 Special tool disk diameter X width for crankshaft machining	mm	Φ650×16	Φ750×24



数控珩磨机系列产品

CNC HONING MACHINE SERIES

机床特点描述 / Machine Features Description

2MK2210S-2伺服珩磨机是一款双主轴立式内孔珩磨设备，机床主运动均由伺服电机控制，集高性能、高精度、高可靠性和高安全性为一体。该机床适用于发动机缸体、缸套、油缸、阀体、齿轮、轴套等孔套类零件精密孔珩磨加工。机床采用运动控制器，显示器采用10英寸触摸屏，可实现单机自动化，也可纳入自动生产线。机床两个主轴分别设有独立操作面板，便于两轴同时加工，互不影响。

- 1) 双立柱，双主轴，主轴箱体往复移动
- 2) 主轴旋转（C轴）伺服电机驱动无极调速
- 3) 主轴往复（Z轴）伺服电机驱动无极调速
- 4) 张刀轴（Z1轴）伺服电机控制或液压比例阀控制，单进给结构
- 5) 2工位液压旋转工作台
- 6) 循环冷却系统，油冷机
- 7) 全自动间歇润滑系统
- 8) 友好的人机界面，双10寸触摸屏
- 9) 双球头万向节浮动连杆
- 10) 选配在线气动测量系统

参数列表 / Parameter List

项目 / Items	单位 / Unit	参数 / Parameters
		2MK2206S-2
珩磨孔直径 Honing diameter	mm	Φ10-Φ63
最大珩孔深度 Max. honing depth	mm	200
珩磨头数量 Honing head quantity	个/pc	2
主轴最大行程 Max. travel of spindle	Mm	350
主轴转速范围 Spindle speed	r/min	0~750
主轴往复速度 Spindle reciprocating speed	m/min	0~25



2MK2206S-2 2MK2218B
2MK2218 2MK2218S
2MK2218A

2MK2210S-2 servo honing machine is with dual-spindle vertical type for inner hole honing. The machine movement is controlled by servo motors, concentrated with high performance, high accuracy, high reliability. The machine is suitable for honing operation for parts as engine cylinder body, cylinder liner, hydro-cylinder, valve body, gear, shaft sleeve etc. With movable controller, 10" touchable display screen, it can work as single machine automatization, or working in automatic production line. The machine has two spindles with separated operation panel, suitable for two spindles machining simultaneously.

- 1) Dual column, dual spindle, spindle box moving back and forth.
- 2) Spindle rotation (C axis) servo motor drive stepless speed adjustment.
- 3) Spindle moving back and forth (Z axis) servo motor drive stepless speed adjustment.
- 4) Tool axis (Z1 axis) servo motor control or hydraulic ratio valve control, single feeding structure.
- 5) 2-station hydraulic rotary worktable.
- 6) Recycling coolant system, oil coolant device.
- 7) Automatic intermittent lubrication system.
- 8) Friendly operation interface, dual 10" touchable display screen.
- 9) Dual ball type cardan joint float lever.
- 10) Optional on-line pneumatic measuring system.



发动机缸体缸套内孔平台网纹的理想珩磨加工设备
An ideal honing machine used for flat-roofed crosshatch machining inside holes on engine cylinder blocks and liners.

机床特点描述 / Machine Features Description

- 1) 2MK2218/A/ B / D数控珩磨机: 采用液压比例技术, PLC控制, 液压驱动,用于发动机缸体、缸套平台网纹珩磨加工。
- 2) MK2218S数控珩磨机: 伺服电机驱动, 实现珩磨加工过程中主轴旋转与往复运动完全插补, 用于发动机缸体、缸套平台网纹珩磨加工。
- 1) 2MK2218/A/B/D CNC honing machine: hydraulic proportion technology, PLC control, hydraulic drive, suitable for plateau honing cross hatches on engine cylinders and cylinder liners.
- 2) 2MK2218S CNC honing machine: servo motor drive, complete interpolation of spindle rotating and reciprocating in the whole course of machining; suitable for plateau honing cross hatches on engine cylinders and cylinder liners.



参数列表 / Parameter List

项目 / Items	单位 / Unit	参数 / Parameters			
		2MK2218	2MK2218A	2MK2218B	2MK2218S
珩磨孔直径 Honing diameter	mm	Φ80-Φ180	Φ80-Φ180	Φ80-Φ180	Φ80-Φ180
最大珩孔深度 Max. honing depth	mm	400	400	400	400
珩磨头数量 Honing head quantity	个/pc	1	1	1	1
主轴最大行程 Max. travel of spindle	Mm	800	800	800	800
主轴转速范围 Spindle speed	r/min	变频驱动 / inverter drive 25 ~ 250	变频驱动 / inverter drive 25 ~ 250	变频驱动 / inverter drive 25 ~ 250	伺服驱动 / servo drive 0 ~ 250
主轴往复速度 Spindle reciprocating speed	m/min	液压驱动 / hydraulic drive 2.5~25	液压驱动 / hydraulic drive 2.5~25	液压驱动 / hydraulic drive 2.5~25	伺服驱动 servo drive 0 ~ 35
珩磨头进给方式 Feed mode of Honing head		定压进给 Constant pressure feed	定量/定压进给 Constant amount/constant pressure feed	定压进给 Constant pressure feed	定量/定压进给 Constant amount/constant pressure feed

自动化智能化产品

AUTOMATIC INTELLIGENT PRODUCTS

卓越的性能和方案，构建最佳的生产系统
使加工和制造变得简单高效

Remarkable performance and impressive solutions;
To constitute best production systems;
To simplify operation with higher efficiency



桁架机器人 / 柔性车削加工单元DK2010 BC3751R数控车床（单元） BHL系列桁架机器人 BHW系列无线桁架机器人

关节机器人 / BRX10 柔性加工单元 BLG20及轮毂加工智能生产线

两台以上数控机床配置桁架机器人或关节机器人及料库、检测装置等组成自动化生产系统

双主轴车床DK2010

双主轴 · 双刀架 · 上下料系统
多序车削 · 无人化操作

Double spindle lathe DK2010
Double spindles; double turrets; auto loading/unloading;
multiple operations; unattended run

机床特点描述 / Machine Features Description

采用双主轴、双刀架对称布局, 配备自动上下料机械手, 可进行单机加工或多机联线, 实现无人化操作。
Symmetrically located double spindles and double turrets; equipped with loading/unloading manipulator, the lathe can run independently or be linked into a production line for unattended operation.

参数列表 / Parameter List

项目 / Item	单位 / Unit	参数 / Parameters
		DK2010
最大加工直径 / Max. turning diameter	mm	Φ200
最大加工长度 / Max. turning length	mm	100
主轴转速 / Spindle speed	r/min	50-4000
主电机功率 / Main motor power	kW	9X2
X向行程 / X travel	mm	135
Z向行程 / Z travel	mm	230
X向最高移动速度 / X-axis Max. rapid feed rate	m/min	24
Z向最高移动速度 / Z-axis max. rapid feed rate	m/min	24
刀架工位数 / Tool positions		C
机械手提升工件能力 / Mechanical hand lifting capacity	kg	2X5
机械手X轴移动速度 / Mechanical hand X-axis feed speed	m/min	120
机械手Y轴移动速度 / Echanical hand Y-axis feed speed	m/min	80
机械手Z轴移动速度 / Mechanical hand Z-axis feed speed	m/min	80
料库料位数 / Workpiece positon quantity in workpiece magazine		10



BC3751R 数控车床(单元)

机床特点描述 / Machine Features Description

BC3751R是一款高效数控车削加工单元，该机床主要用于加工盘、盖类零件，特别适用于汽车、摩托车、工程机械等行业零件的大批量加工。机床整机结构紧凑，加工范围大且占地面积小、刀盘对边尺寸大、快移速度高、性价比高。配备自动上下料机械手和八工位料库，可进行单机加工或多机联线，实现无人化操作。

BC3751R is a high-efficiency flexible machining unit for turning disc-type workpieces in motorcycle, automotive and engineering machinery fields. The machine has compact structure, large processing range and small area occupation, large opposite edge of turret disc, high speed and high cost performance ratio. Equipped with automatic loading and unloading manipulator and 8-position stock , it can be processed by single machine or multi-machine on-line to realize unmanned operation.

参数列表 / Parameter List

项目 / Item	单位 / Unit	参数 / Parameters
		BC3751R
最大回转直径 / Max.swing diameter	mm	Φ550
最大车削直径 / Max.turning diameter	mm	Φ370
最大车削长度 / Max.turning length	mm	100
卡盘直径 / Chuck diameter	in	8
最大棒料直径 / Max. bar dia	mm	Φ51
主轴转速 / Spindle speed	r/min	50-4500
主轴电机功率（连续/30分钟） / Main motor power(continued/30minutes	KW	11/15
床鞍行程（X/Z） / Saddle travel	mm	210/510
床鞍快移速度（X/Z） / Saddle rapid travel speed	m/min	30/30
机械手最大夹持直径 / Maximum clamping diameter of manipulator	mm	Φ90
单爪抓取工件重量 / One claw grabs the workpiece weight	kg	4
快速移动速度 X/Z / Fast moving speed X/Z	m/min	160/140
移动距离X/Z / Travel X/Z	mm	620/1900
重复定位精度 / Repeated positioning accuracy	mm	±0.15
工位数 / Number of seats		8
搬运工件尺寸 / Porter Parts Size	mm	Ø25-Ø140
单工位承重 / Single station load-bearing	kg	50
总重量 / Total weight	kg	6000



桁架机械手 自动化加工单元

自动化 · 智能化 · 高效率的成套方案

Auto manufacturing cell equipped
with gantry type robot

Automatization; intelligentization; complete efficient
solutions



机床特点描述 / Machine Features Description

主要组成有：两台或多台数控车床呈一条线布列，一套桁架机械手系统、一套自动上下料及检测装置等设备，成一字型排布，可满足盘、轴类零件大批量加工要求。

Its is mainly made up of 2 or more CNC lathes, a trussed frame mechanical finger, an auto load/unloading device and a testing system, arranged in a line; suitable for machining disk type and shaft type workpieces in large batches.



关节式机器人自动化加工单元 BRX10

用于盘、盖类零件车削加工与物流传送的自动化加工系统

Auto manufacturing cell equipped with joint robot
BRX10

For disk/plate type work machining and logistics delivery

机床特点描述 / Machine Features Description

BRX10: 采用两台机床对面布置，配备六关节机器人可实现无人化操作。

with two machines located face to face and 6-articulated robot unattended operation can be performed.

参数列表 / Parameter List

项目 / Items		单位 / Unit	参数 / Parameters
			BRX10
机器人 Robot	最大负荷重量 Max. loading weight	kg	12
	重复定位精度 Repeatability	mm	±0.05
	最大动作范围 Movement scope	mm	Φ1420
料库 Workpiece magazine	最大工件直径 Max. workpiece diameter	mm	Φ125
	提升行程 Lifting travel	mm	400
	工位数量 Position quantity		8



轮毂自动化加工单元

BLG20 及轮毂加工智能生产线

自动化 · 智能化 · 高效率的轮毂加工成套方案

Auto manufacturing cell for wheels

BLG20 And hub processing intelligent production line
Automatization; intelligentization; complete efficient solutions for wheel machining

机床特点描述 / Machine Features Description

BLG20轮毂加工单元主要用于汽车铝制轮毂的自动化加工，该轮毂加工单元可满足目前市场上17寸至20寸铝制轮毂的加工要求。其加工单元主要组成有：两台轮毂加工专用数控车床、一台立式加工中心、一台六关节工业机器人、一套自动上、下料库及产品识别装置、一套在线检测装置和一套铝屑清理装置等设备，单元成环岛式排布，可针对不同场地进行模块化布局，多个单元可通过一套双层运送长料道连接为一体。

多个轮毂加工单元可组成高效、智能的轮毂加工生产线。



BLG20 wheel hub processing cell is mainly used for automatic processing of automotive aluminum hubs. The wheel hub processing cell can meet the processing requirements of 17-20 inch aluminum hubs in the current market. The main components of the processing cell are: two special CNC lathes for hub processing, a vertical machining center, a six-joint industrial robot, a set of automatic loading and unloading storage system and product identification device, an on-line detection device and a set of aluminum chip cleaning device, etc. The cell is arranged in a ring-island mode, and can be modularized for different sites. Multiple cells can be connected through a long double-layer transport path.

Multiple hub processing units can constitute an efficient and intelligent hub processing production line.

参数列表 / Parameter List

项目 / Items	单位 / Unit	参数 / Parameters
		BLG20
加工轮毂尺寸范围 Hub size for machining	in	17-20
工业机器人腕部负重 Loading capacity on robot wrist	kg	165
工业机器人腕部有效半径 Valid radius of robot wrist	mm	R2655
轮毂车床床身上最大回转直径 Hub lathe swing over bed	mm	Φ870
轮毂车床主电机功率（连续/30min） Hub lathe main motor power (cont./30min)	kW	45/55
立式加工中心工作台面积 Vertical machining center worktable size	mm	600X1300
立式加工中心主轴电机功率（连续/15min） Vertical machining center spindle motor power (cont./15min)	kW	7.5/11



宝机系统 B60 / B80 / B800

机床特点描述 /

Machine Features Description

系统集成高速高精控制算法、高响应伺服技术、高分辨率编码器，轻松实现从零部件到模具的高速、高精、高效的高性能加工。

Integrated with high speed and high accuracy control algorithm, rapid response servo technology, easily realize the high speed, high accuracy, high efficient machining from parts to mold.

手轮试切功能，通过手轮控制切削进给速度，方便进行首件工件打样加工。

系统标配USP电源，在机床异常断电下自动进行加工数据的保存，保障了加工数据的安全。

日志功能，不仅能记录刀具偏执、坐标系、加工程序等数据更新历史，还能记录加工操作、报警信息等内容，为机床设备维修检测、查找故障提供数据。

Handwheel test cut function. Control the cutting feed speed by handwheel, convenient for machining the first sample workpiece.

Standard USP power supply. Automatically save the machining data once the machine power turn off, to ensure the machining data safety.

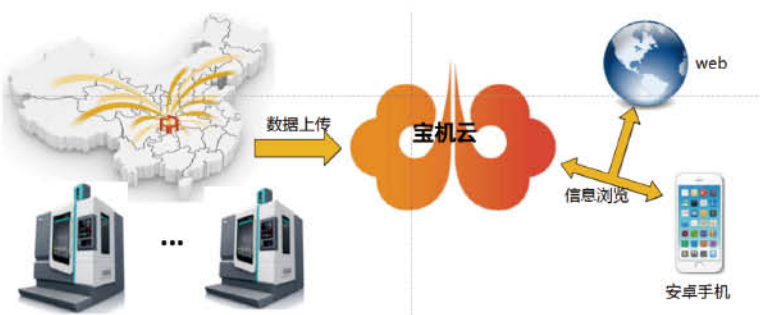
Journal function. Recording not only tool offset, coordinate system, machining program data update history, but also machining operation, alarm information etc. which can offer data for machine maintenance inspecting and error searching.

智能机床健康保障

Intelligent machine health guarantee

通过机床运行健康体检程序，智能化比对数据的变化，判断出机床健康状态的变化。实现了对机床装配质量横向比较以及对机床健康状况的全面评估、追溯及保障，并可支持机床远程故障诊断。

Running the health examine program, intelligently comparing the data difference, concluding the variation of machine health status. Realizing the comparison of machine assembly quality and the complete evaluation, review, guarantee of machine health status, and also support the remote error diagnoses on machines.



智能加工工艺参数优化

Intelligent machining technical parameter optimization

通过对加工采样数据分析，建立主轴负载电流、材料去除率与加工工艺参数的关联关系，对加工工艺参数智能优化提升加工效率。

Analyzing the machining sample data, setting up the relative relationship between spindle loading current, removal rate of material and machining technical parameters, to improve the machining efficiency by intelligently optimizing the machining technical parameters.

基于互联网宝机云服务，随时随地掌握生产情况

Base on internet BOCHI cloud service, mastering the manufacturing status at all times and places.

宝机云手机APP或web页随时随地查看工厂机床运行状态，加强生产产能管理。基于航天云服务平台，信息安全可靠。

Supervising the machines running status by BOCHI cloud APP or web pages at all times and places, to enhance the manufacturing management.

Base on CASICloud service platform, with safe and reliable information.

宝机云 BOCHI Cloud

宝机云简介：

Introduction of BOCHI Cloud

宝机云是宝鸡机床数控机床全生命周期管理服务平台。宝机云对机床数据等进行远程采集，通过对机床大数据的分析和处理，实现基于机床大数据、云计算的智能化增值服务。如，面向车间管理人员的机床状态和生产数据可视化，提高生产管理的便捷和时效；面向用户设备的远程运维，提高服务质量和效率，为用户减少停机时间，降低使用成本等等，最终实现企业产品转型升级和价值链的延伸。

BOCHI Cloud is the lifecycle management service platform for CNC machine tools of Baoji Machine Tool. BOCHI Cloud remotely collects machine data, and realizes intelligent value-added services based on machine tool big data and cloud computing through analysis and processing of machine tool big data. For example, the machine state and production data visualization for the workshop management personnel can improve the convenience and timeliness of production management; remote operation and maintenance for user equipment, improve service quality and efficiency, reduce downtime for users, reduce the cost of use, etc., and finally achieve Enterprise product transformation and upgrading and extension of the value chain.

宝机云四大核心功能：

Four core functions of BOCHI Cloud

- 1、宝机云机床运行状态监控与生产统计功能：设备列表、设备监控、加工统计、综合统计
- 2、宝机云数控机床远程运维与生产管理系统：
- 3、建立设备档案数据管理，产品全生命周期信息可追溯：基于Bochi Cloud大数据中心
- 4、宝机云核心亮点运维服务功能：高效远程运维体系，故障在线诊断与报修、预测性维护

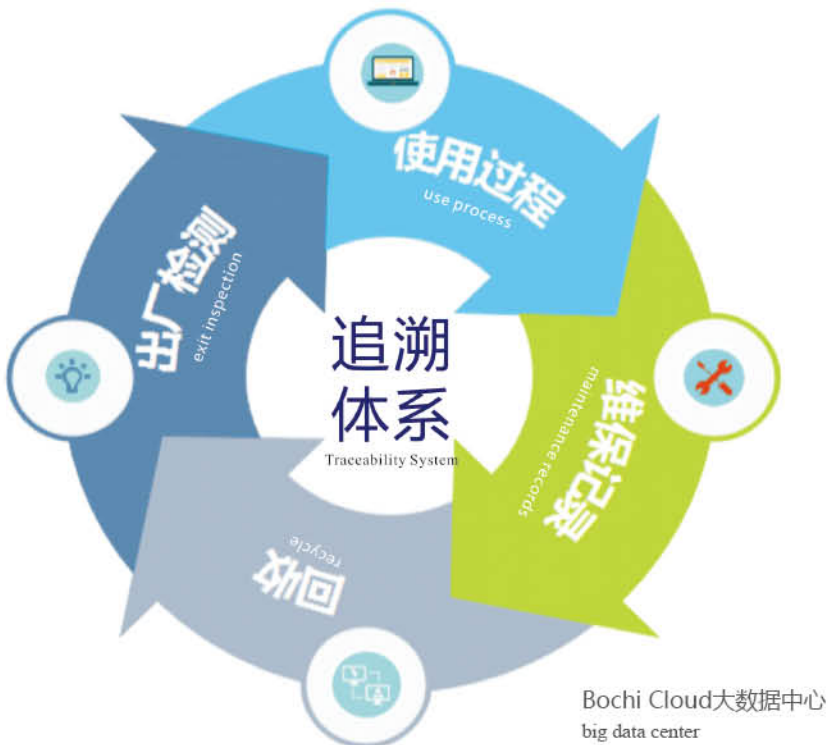
1. Operation status monitoring and production statistics functions of Baoji cloud machine tools: equipment list, equipment monitoring, processing statistics and comprehensive statistics
2. baoji cloud CNC machine tool remote operation and production management system:
3. Establish equipment file data management, and the information of the whole product life cycle can be traced back: based on Bochi Cloud Big Data Center
4. Operation and Maintenance Service Functions of Core Highlights of Baoji Cloud: Efficient Remote Operation and Maintenance System, Online Fault Diagnosis and Repair, Predictive Maintenance

BOCHI CLOUD技术架构：

Technical Architecture



建立设备档案数据管理，产品全生命周期信息可追溯！
Establishment of equipment archives data management, traceability of product life cycle information



宝机云核心亮点运维服务功能
Core highlights Operations and Maintenance Service Function of BOCHI Cloud



宝机云机床运行状态监控与生产统计功能：
Machine Tool operation Status Monitoring and Production
Statistics Function of BOCHI Cloud

设备列表	equipment list
设备监控	equipment monitoring
加工统计	processing statistics
综合统计	comprehensive Statistics

宝机云数控机床远程运维与生产管理系统：
CNC Machine Tool Remote Operation and Maintenance and
Production Management System of BOCHI Cloud



发 展 格 局

Development Pattern

四大产业：高档数控机床及数控刀具产业、新能源汽车关键零部件制造产业、机床再制造及服务产业、高端医疗、制药设备及备件生产产业；

FOUR LEADING INDUSTRIES: High-end CNC machines and machine tools; Key parts for new energy automobiles; Machine reformation and services; High-end medical and pharmaceutical equipment and its spare parts.

一个出口：以“一带一路”为主的外贸进出口振兴计划

ONE FOR INTERNATIONAL TRADE: Revitalization plan on import and export business mainly involves the “Belt and Road”.

五大发展目标：基础管理达标；产品结构升级；产业结构合理；员工福利配套；品牌知名度提升

FIVE DEVELOPMENT TARGETS: Improve basic management; Upgrade product structure; Advance industrial structure; Improve staff welfare; Promote brand popularity.