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ABOUT US

宝鸡机床集团有限公司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。始建于1965年，下辖9个子公司，年收入30亿元，出口创汇4000万美元，主营业务收入稳居中国机床行业前列。

公司坚守“匠心智造中国好机床”的企业使命，坚持科技创新与市场开拓“双轮驱动”，建立起集人才、技术、品牌于一体的完备研发制造体系，形成以全功能数控车床、智能机床、智能制造单元、高精度加工中心、自动生产线为主导的14大类、200多个品种、400个规格的中高端机床产品群，广泛应用于高端装备制造领域。承担国家重大专项30多项，在全球拥有五大营销服务中心。

公司拥有国家数控系统工程技术研究中心和国家级技能大师工作室，充分应用工业互联网、大数据、人工智能等新技术，不断推进生产、管理、服务数字化，加快实现向智能化产线转型，致力于为用户提供完整的生产制造解决方案。公司汇聚了一大批职工创新团队、技术精英和能工巧匠，多次承办国家、省、市职业技能大赛。

“十四五”期间，公司以高质量发展为主题，加快实施“以客户为中心、以市场和产品转型为主线、以智能制造和技术创新为基础、以提品质增效益为目标”的发展战略，打造“高端车铣复合及高精度加工中心研发制造基地”，建成数字化工厂，成为行业一流的高端装备供应商。

企业荣获全国五一劳动奖状、中国出口质量安全示范企业、中国机床工具行业“自主创新十佳企业”、“产品质量十佳”、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”，入围工信部“2021年度智能制造优秀场景企业”，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、省级高技能人才培训基地。

Baoji Machine Tool Group Co., Ltd. is an important research and production base and intelligent manufacturing base for high-end CNC machine tools in China. Established in 1965, it has 9 subsidiaries with an annual revenue of 3 billion yuan and export earnings of 40 million US dollars. Its main business revenue remains at the forefront of China's machine tool industry.

The company adheres to the mission of "intelligent manufacturing of good Chinese machine tools with the craftsmanship", adheres to the "dual drive" of technological innovation and market development, establishes a complete R&D and manufacturing production system that integrates talent, technology, and brand. The company has formed a group of medium and high machine tool products with 14 major categories, over 200 kinds, and 400 specifications, led by fully-functional CNC lathes, intelligent machine tools, intelligent manufacturing units, and automatic production lines, widely used in the field of high-end equipment manufacturing. The company undertakes more than 30 national major projects and have five major marketing service centers worldwide.

The company has a National CNC System Engineering Technology Research Center and a National Skills Master Studio, fully utilizing new technologies such as industrial internet, big data, and artificial intelligence, continuously promoting digitalization of production, management, and services, accelerating the transformation from single-machine intelligence to production line intelligence. The company is committed to providing users with complete production and manufacturing solutions. The company has gathered a large number of employee innovation teams, technical elites, and skilled craftsmen, and has hosted national, provincial, and municipal employee vocational skills competitions multiple times.

During the 14th Five-Year Plan period, the company focused on high-quality development and accelerated the implementation of a re-entrepreneurship strategy “centered on customers, with market and product transformation as the main line, intelligent manufacturing and technological innovation as the foundation, and quality improvement and efficiency enhancement as the goal”, to build a high-end research and development and manufacturing base for automotive turn-milling composite and high-precision machining centers, building a digital factory, and becoming a first-class high-end equipment supplier in the industry.

The enterprise has won the National May Day Labor Award, China Export Quality and Safety Demonstration Enterprise, China Machine Tool Industry "Top 10 Independent Innovation Enterprises", "Top 10 Product Quality", Quality and Integrity Enterprise in China Machinery Industry, National Backbone Enterprise of Machinery Industry Advanced Manufacturing Industry for Integration of Industry Education, the "8th Shaanxi Quality Award", and was shortlisted for the "2021 Intelligent Manufacturing Excellent Scene Enterprise" by the Ministry of Industry and Information Technology. The enterprise has been named as Shaanxi Province Machine Tool Export Base, Shaanxi Province Intelligent Manufacturing Pilot Demonstration Enterprise, Shaanxi Province Vocational Skills Training Competition Base, and Provincial High skilled Talent Training Base.

发展历程和产业结构

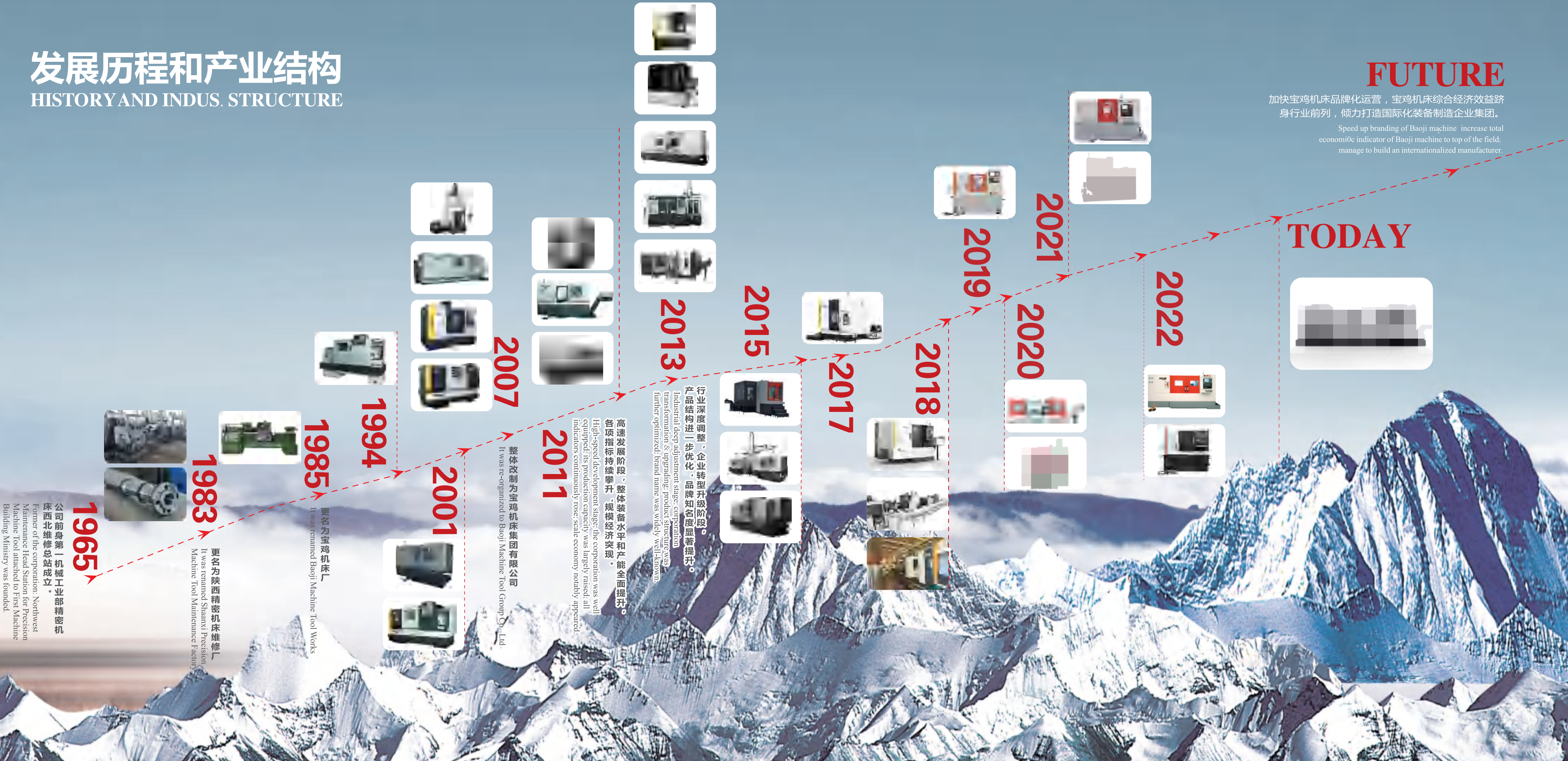
HISTORY AND INDUS. STRUCTURE

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



组织架构

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、宝鸡秦能装备制造有限公司等骨干企业在内的9个子企业，占地1200多亩，形成了集团化发展格局。
The group company has nine subsidiaries, including Baoji Zhongcheng Machine Tool Co., Ltd.BAOJI ZHONGCHENG MACHINE TOOL CO., LTD., Shaanxi Guanzhong Tool Manufacturing Co., Ltd, and Baoji Qinneng Equipment Manufacturing Co., Ltd, covering an area of over 1200 mu (197.68 acres), forming a group-oriented development pattern.



资格认证 / 荣誉证书

CERTIFICATION AND HONOR

ISO14001 :2016国际环境管理体系认证
ISO14001 Environmental Management System

ISO9001:2016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



先进的加工设备

ADVANCED EQUIPMENT FACILITY

公司生产手段先进，过程控制完善，拥有众多的高端加工设备：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 mannufacturing capacity has come to the fore in its sector.



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



日本卧加
Horizontal machining center from Japan



瑞士坐标镗床
Coordinate boring machine from Switzerland



德国DMG卧加
DMG horizontal machining center from Germany

人才队伍

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
国家级技能大师工作室
三秦工匠
改革开放40周年机械工业百名工匠



杨忠州 Yang Zhongzhou:
全国劳动模范
享受国务院特殊津贴
国家级技能大师工作室
三秦工匠
陕西带徒名师
宝鸡工匠



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



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



傅晨 Fu Chen:
陕西省五一劳动奖章
三秦英才
陕西省机冶建产业工匠
宝鸡市十大杰出工人



李宏林 Li Honglin:
陕西省经济技术创新标兵
宝鸡市十大杰出工人
宝鸡市首席技师
宝鸡市技能大师工作室



翟江利 Zhai Jiangli:
陕西省首席技师
陕西省技术能手
宝鸡市首席技师



李玉朝 Li Yuchao:
陕西省创新人才攀登工程
“中青年科技创新领军人才”
宝鸡市第十二次党代会代表



杨红军 Yang Hongjun:
宝鸡市十佳科技创新人才
宝鸡市“三五人才”
宝鸡市五一劳动奖章



于宝明 Yu BaoMing:
陕西省五一劳动奖章
陕西省技术能手



刘平 Liu Ping:
宝鸡市五一劳动奖章



柳建锋 Liu Jianfeng:
陕西省创新人才攀登工程
“中青年科技创新领军人才”
宝鸡市五一劳动奖章

完善的质控体系

COMPLETE QCS

遵从“追求卓越，顾客至上”的管理方针，建立“一次就做好”的工作理念，以工作“零差错”实现产品“零缺陷”。

The company adheres to the management policy of "pursuing excellence and putting customers first", establishes the work ideal of "doing a good job at once", and achieves "zero defects" in products with "zero mistakes" in work.

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.



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，更有众多来自美国、日本、英国、德国、瑞士、意大利等国际一流的计量仪器和检测设备50多套，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
Coord3 CMM from Italy



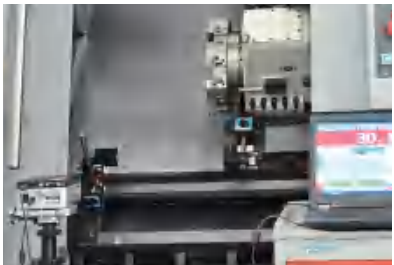
德国申克动平衡仪
Schenck Smart Balancer from Germany



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



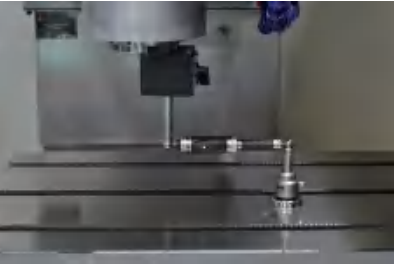
高清万工显
HD Universal microscope



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



意大利GNR Minilab 150光谱仪
Spectrograph

研发团队

R & D TEAM

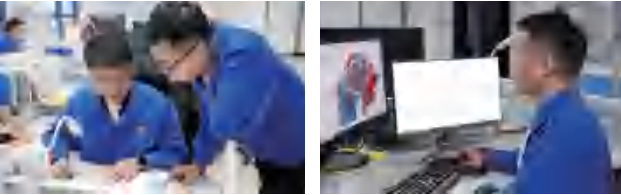
>自主研发 >技术引进 >产学研合作

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、PLM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”“荣获国家级数字化转型贯标试点企业”。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。公司拥有多项专利、驰名商标和名牌产品。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 company has more than 400 engineering technicians, with strong technical force and advanced technical equipment. We have built a provincial-level technology center with more than 150 R&D personnel, many experts with outstanding contributions in Shaanxi Province, and many experts with national special allowances. Products are developed with CAD, CAPP, PLM system, and the company was titled "National CAD Application Demonstration Enterprise" "Shaanxi Province Manufacturing Informatization Application Demonstration Enterprise" "National Digital Transformation and Standardization Pilot Enterprises". The company has undertaken multiple major scientific and technological projects for national high-end CNC machine tools and basic manufacturing equipment. The company has 56 patents, 2 well-known trademarks, 2 famous brand products. Through various means such as independent innovation, joint development, and technology introduction, we comprehensively enhance technological innovation and product upgrading, making the company's product line more in-depth and extensive, and continuously enhancing the company's core competitiveness.



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、吉林大学、大连理工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

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, TianjinUniversity, Xi'an University of Technology, Chongqing University , Central South University, Jilin University, Dalian University of Technology. 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)

高精型卧式数控车床 : High Precision Horizontal CNC Lathe

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/Y CH7550 CH50C CH25Y

CK75系列series : CK7516/A CK7520/A/B CK7525/A/B CK7530 CK7550

CK75 C系列 series : CK7516C CK7520C CK7525C

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/BC4251/BC3751-H/BC3751-HY

其它 : Other

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



高精型卧式数控车床BM63150X/B-

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CK75-H系列（车削中心）

High Performance Horizontal CNC Lathe CK75-H 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;

CK7516-H
CK7520-H系列
CK7525-H系列
CK7530-H系列
CK7550-H
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					
		CK7516-H	CK7520-H	CK7525-H	CK7530-H	CK7550-H	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	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/Z)	mm	165/350	210/510 210/980	240/470 240/970 240/1450	325/770 325/1470	385/1850	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	30-3000	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

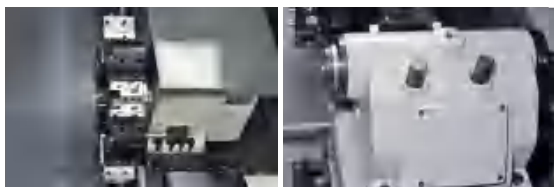
高速 · 无级变速 · 全防护

High speed; Infinite variable speed; Full enclosed guard

回转直径Φ400mm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 ϕ 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	Φ400	Φ400	Φ500/Φ450/Φ450	Φ500/Φ450/Φ450	Φ500/Φ450/Φ450
最大车削直径 / Max. turning dia.	mm	Φ285	Φ285	Φ370	Φ370	Φ370
最大车削长度 / Max. turning length	mm	400/1000	400/1000	500/1000/1500	500/1000/1500	500/1000/1500
卡盘直径 / Chuck dia.	mm	Φ165	Φ165	Φ210	Φ210	Φ254
最大棒料直径 / Max. bar dia	mm	Φ42	Φ42	Φ51	Φ51	Φ73
主轴转速 / Spindle speed	r/min	55-5500	70-3000	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	165/1030	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

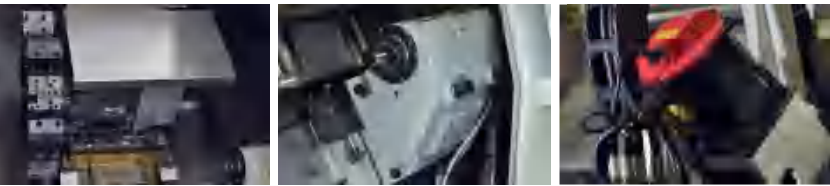
Full enclosed guard; high speed; high efficiency; batch production

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			15/18.5		
行程(X/Z) / Travel(X/Z)	mm	250/525	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，多工位卧式转塔刀架，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/F
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	800/1500/2000/3000
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 325/3050
快移速度(X/Z) / Rapid travel speed(X/Z)	m/min	12/16 12/12(3000规格)

高性能型卧式数控车床CK7550

High Performance Horizontal CNC Lathe CK7550

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以内的两档主轴、档内无级变速、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 $\varnothing$ 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，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	385/1540 385/2040 385/3050
快移速度(X/Z) / Rapid travel speed (X/Z)	m/min	10/12



CK7550/1500
CK7550/2000
CK7550/3000

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 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
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

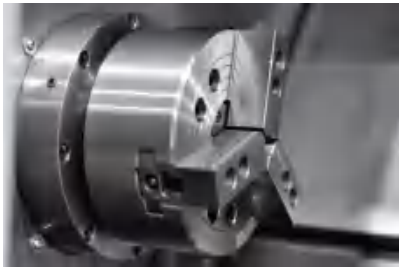
机床特点描述 / Machine Features Description

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(S) CK50(S)

General Horizontal CNC Lathe CK40(S) CK50(S)



参数列表 / Parameter List

项目 / Item	单位 / Unit	参数 / Parameters	
		CK40(S)	CK50(S)
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	165/410 165/1030	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	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	80-3000	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	210/780
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/BC4251/BC3751-H/BC3751-HY

BC系列数控车床/车削中心包括BC3731、BC3751、BC4251、BC3751-H、BC3751-HY六款产品，该系列机床采用整体式平床身、30°斜床鞍结构，结构紧凑，回转直径大，占地面积小；刀盘大，刀具干涉小。可加工内外圆柱、圆锥、圆弧面；各种螺纹以及孔的钻、扩、铰等加工。

BC3751L 数控车床 X 轴、Z 轴采用直线电机配进口光栅结构，定位精度高，移速度快。

BC3751-H/HY车削中心，刀塔具有铣削功能。BC3751-H机床具有C轴和铣削功能；BC3751-HY具有C轴、Y轴和铣削功能，该系列机床可在零件一次安装下完成复杂零件的加工，能较好的适应复杂零件对数控机床功能及高精度的需求。



参数列表 / Parameter List

项目/Item	单位/Unit	参数 / Parameters					
		BC3731	BC3751	BC3751L	BC4251	BC3751-H	BC3751-HY
床身上最大回转直径	mm	Φ550	Φ550	Φ550	Φ600	Φ550	Φ550
床鞍上最大回转直径	mm	Φ330	Φ330	Φ330	Φ330	Φ330	Φ345
最大切削直径	mm	Φ370	Φ370	Φ370	Φ420	Φ360	Φ320
最大车削长度	mm	310	510	510	510	320	360
最大过棒料直径	mm	Φ50	Φ50	Φ50	Φ60	Φ50	Φ50
卡盘规格	inch	8"中空	8"中空	8"中空	10"中空	8"中空	8"中空
车主轴最高转速	rpm	50~4500	50~4500	50~4500	50~3500	50~4500	50~4500
行程X/Z/(Y)	mm	210/350	210/550	210/550	235/550	210/400	210/410/(±30)
快移速度X/Z/(Y)	m/min	30/30	30/30	42/60	30/30	30/30	30/30/(10)
刀架形式		卧式刀塔	卧式刀塔	卧式刀塔	卧式刀塔	动力刀塔	Y轴动力刀塔
装刀容量	pcs	8	8	8	8	12	15
刀具尺寸	mm	25×25/Φ40	25×25/Φ40	25×25/Φ40	25×25/Φ40	25×25/Φ32	20×20/Φ25
动力刀具形式		-	-	-	-	BMT55-ER32	BMT40-ER20
铣主轴最高转速	rpm	-	-	-	-	3800	3800
铣主轴最大刀柄直径	mm	-	-	-	-	Φ13	Φ13
尾座行程	mm	150(选配)	350	350	350	350	350
顶尖套锥度	mm	MT No.4 (选配)	MT No.5	MT No.5	MT No.5	MT No.5	MT No.5



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	Φ320
最大加工长度 / Max. machining length	mm	800
X1/X2/X3轴快移速度 / Rapid traverse X1/X2/X3	m/min	20
Y1/Y2轴快移速度 / Rapid traverse Y1/Y2	m/min	24
Z1/Z2/Z3轴快移速度 / Rapid traverse Z1/Z2/Z3	m/min	36
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



BL20-HSY车铣中心

机床特点描述 / Machine Features Description

BL20-HSY是一款高速高精型车铣中心，机床配备双电主轴、十二工位伺服动力刀架、高刚性滚柱线性导轨，具有Y轴功能和双C轴功能。双主轴高精度对接，实现自动掉头加工，，特别适应于零件一次装夹完成全部或大部分工序的车铣加工。



参数列表 / Parameter List

项目/Item	单位/Unit	参数 / Parameters
		BL20-HSY
最大回转直径/Max.swing dalmeter	mm	695
最大车削长度/	mm	500
最大车削直径/ Max.turning diameter	mm	340
主轴转速/Spindle speed	r/min	35—5000
主轴液压卡盘直径/	inch	8
副主轴转速/	r/min	35—6000
副主轴液压卡盘直径/	inch	6
行程/Travel(X/Y/Z/W)	mm	190/±50/605/580
快移速度/Rapid feed rete(X/Y/Z/W)	m/min	30/10/30/10

经济型卧式数控车床

Economical horizontal CNC lathe

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

HK系列 HKseries / HK63B HK80B HK80 HK100 HK125

TK/EK系列 TKseries / TK36S TK50 EK40

CB系列 CBseries / 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.

FMC-600V 五轴加工中心

Horizontal Turning-Milling compound machining center 机床特点描述 / Machine Features Description

FMC-600V是一款高端、高技术含量的五轴加工中心。机床采用双立柱高架结构，立式加工，配摇篮式双摆转台；最多两次装夹可完成复杂精密零件，极大的提高了生产效率、产品质量、降低生产成本，具有十分重要的意义。主要用于各种燃机、压气机叶轮和小型模具、特型箱体等形状复杂的零件高效五轴加工，是航空、航天、汽车、模具等行业必不可少的设备。这种机床是目前用途最广，技术最先进的五轴联动机床。

参数列表 / Parameter List

项目/Item		单位/Unit	参数 / Parameters
			FMC-600V
X轴行程		Mm	700
Y轴行程		mm	760
Z轴行程		mm	500
A轴倾角		度	±120°
C轴分度角		度	360°
工作台大小		mm	600X600
允许工件最大重量		kg	600
主轴转速		r/min	18000
主轴锥孔形式			HSK A63
主轴功率		kW	35
快进系统	X、Y、Z	m/min	48
	A轴	rpm	50
	C轴	rpm	100
定位精度	X、Y、Z定位精度	mm	0.008
	X、Y、Z重复精度	mm	0.005
	A/C轴定位精度	a/c sec	6
	A/C轴重复定位精度	a/c sec	4
刀具数		把	32
最大刀具直径		mm	75
最大刀具长度		mm	300
最大刀具重量		kg	8
电源		kVA	80
机床重量		kg	13500



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
SK66Q
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)长度有750mm、1000 mm、1500 mm、2000 mm、3000mm多种规格可选。
- 3)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)Different length of machine is available: 750mm, 1000mm, 1500mm,2000mm and 3000mm
- 3)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	SK66Q	SK50C
最大回转直径 Swing over bed	mm	Φ400	Φ500	Φ660	Φ500
最大车削直径 Max. turning diameter	mm	Φ400	Φ500	Φ550	Φ500
最大工件长度 Max. workpiece length	mm	750 /1000/1500/3000		750 /1000/1500/2000	710 /960/1460/1960/2960
卡盘直径 Chuck size	mm	Φ250		Φ250	Φ315
主轴通孔直径 Spindle bore	mm	Φ82		Φ82	Φ105
主轴转速 Spindle speed	r/min	3档(3-shifts) 21-1620		3档(3-shifts) 21-1620	3档(3-shifts) 21.7-1600
主轴电机功率 Spindle motor power	kW	7.5		7.5	7.5
行程(X/Z) X/Z axes traverse	mm	X: 275 Z: 600/850/1350/1850/2900		X: 275 Z: 600/850/1350/1850	X: 275 Z: 600/850/1350/1850/2900
快移速度(X/Z) Rapid travel speed	m/min	6/8		6/8	6/8



HK 系列机床

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

HK63B

HK80B

HK80

HK100

HK125



参数列表 / Parameter List

项目 / Items	单位 / Unit	参数 / Parameters				
		HK63B	HK80B	HK80	HK100	HK125
最大回转直径 Swing over bed	mm	Φ630	Φ800	Φ800	Φ1040	Φ1250
最大车削直径 Max. turning diameter	mm	Φ630	Φ740	Φ800	Φ948	Φ1234
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	Φ630	Φ630
主轴通孔直径 Spindle bore	mm	Φ105	Φ105	Φ105	Φ130	Φ130
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	I 3.5-160 II 5-233 III 7-345 IV 11-500	I 3.5-160 II 5-233 III 7-345 IV 11-500
主轴电机功率 Spindle motor power	kW	11	11	15	22	22
行程(X/Z) X/Z axes traverse	mm	370 760/1300/1810/2810	390 760/1310/1810/2810	430 760/1350/1850/2850/3850/4850	520 1300/2800/3800	630 1300/2800/3800
快移速度(X/Z) Rapid travel speed	m/min	6/7	6/7	6/7	3/6	3/6

TK 系列机床

TK series lathe
无级调速车床

Infinite variable speed

TK36S
EK40
TK50

机床特点描述 / Machine Features Description

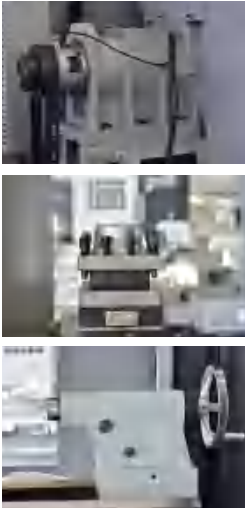
1) 平床身结构，主轴单元采用精密角接触球轴承和双列圆柱滚子轴承，标配四工位立式转塔刀架，高档数控系统控制。

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.



参数列表 / Parameter List

项目 / Item	单位 / Unit	参数 / Parameters		
		TK36S	EK40	TK50
最大回转直径 Swing over bed	mm	Φ360	Φ400	Φ500
最大车削直径 Max. turning diameter	mm	Φ320	Φ400	Φ500
最大工件长度 Max. workpiece length	mm	750	750/1000	1100/1600/2100/3100
卡盘直径 Diameter of chuck	mm	Φ200	Φ200	Φ250
主轴通孔直径 Spindle bore	mm	Φ57	Φ57	Φ87
主轴转速 Spindle speed	r/min	140-3000	140-3000	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)
行程(X/Z) X/Z axes Traverse	mm	200/610	230/590 230/840	295/1000 295/1500 295/2000 295/3000
快移速度(X/Z) Rapid travel speed	m/min	6/8	6/8	6/8 (3000均为6)



C B 系列机床

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.

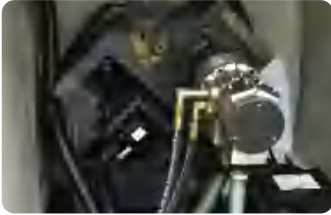
5) Comb type tool rest is used, which features simple structure, economical use and high stiffness.

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
		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	Φ56
主轴头型式 / Spindle nose		A2-5
可通棒料直径 / Bar to be held	mm	Φ45
主轴转速 / Spindle speed	r/min	4000
X向快进速度 / 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向快进速度 / 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	2020x1485x1760



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

宝鸡机床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

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 .

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



参数列表 / Parameter List

项目/Item	单位/Unit	参数 / Parameters		
		BHR700V	BHR800V	BHR1000V
回转直径	mm	φ700	820	1020
两顶尖距离	mm	2500	2000–6000	2000–6000
车削主轴最高转速	rpm	4000	2700	1650
车削主轴最大扭矩	Nm	330	3170	8264
C轴最大转速	rpm	200	80	40
C轴最大扭矩	Nm	330	2380	6200
铣削主轴最高转速	rpm	12000	5000	3200
铣削主轴最大扭矩	Nm	120	276	733
B轴最大转速	rpm	40	16	16
B轴最大扭矩	Nm	735	1780	1780
X轴快进速度	m/min	36	40	40
X轴行程	mm	845	400	550
Y轴快进速度	m/min	36	40	40
Y轴行程	mm	430(±215)	400/550	550
Z轴快进速度	m/min	36	40	30
套筒直径	mm	110	180	260
套筒行程	mm	100	200	250
刀库容量	Number of tools	40/60/80/120		
数控系统		西门子SIEMENS ONE		



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	Φ450（八工位）/Φ500（四工位）			Φ420
最大车削长度 / Max. workpiece length	mm	800/1000（四工位）	1800/2000（四工位）	2800/3000（四工位）	1050（四工位）/980（六工位/八工位）
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 / CK514H/Z数控立式车床
Type chuck vertical CK516/CK516Z数控立式车床
CNC lathe 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)
CK51125A数控立式车床 (刀库)

Worktable type vertical CK51160数控立式车床 (转塔刀架)
CNC lathe 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.



CK514H/Z/CK516/CK516Z CK516A / CK518

立式结构 · 排屑流畅 · 装夹工件方便 机床特点描述 / Machine Features Description

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

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



BK50-2 BK40-2 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

BK40-2/BK50-2数控立式车床为高效双主轴CNC车床，配以宝机B80系统/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	参数 / Parameters
		BK40-2	BK50-2
最大回转直径 / Max. swing daimeter	mm	Φ450	Φ500
最大车削直径 / Max. turning diameter	mm	Φ400	Φ420
最大车削高度 / Max. turning height	mm	360	360
主轴转速 / Spindle speed	r/min	50~800	50~800
液压卡盘直径 / Hydraulic chuck diameter	inch	12 "	12 "
主电机功率 / Main motor power	kW	11	11
行程 / Travel (X/Z)	mm	300/380	300/380
快移速度 / Rapid feed rate	m/min	12/12	12/12



CK51125/CK51125A/ CD125/CD160

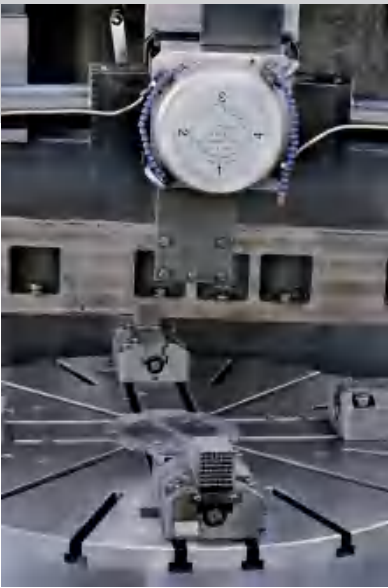
适用于大型盘、套类零件加工的高效立式车床

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/CK51160: 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,简易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	Φ1400
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	500/900
工作台转速 / Worktable speed	r/min	2~400	2~400	15~200	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



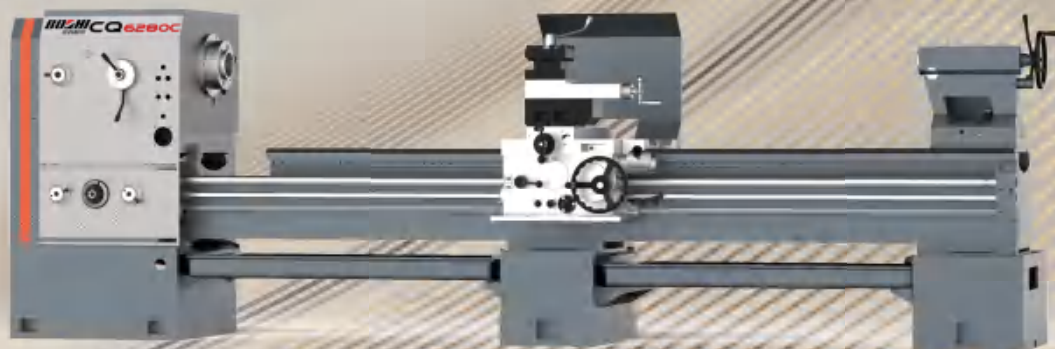
普通卧式车床系列

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 / CQ6280B系列 CQ6280C系列

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



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
上机架的最大行程 Max. travel of compound rest	mm	145	145	145	145	145	145
下机架的最大行程 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
尾座套筒锥度 Diametric pitch threads	MT	5	5	5	5	5	5
主电机功率 Spindle motor power	kW	7.5	7.5	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

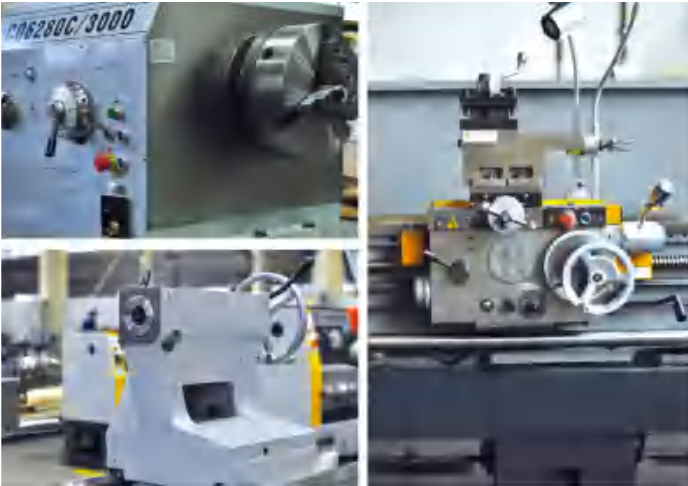
CQ series gap-bed lathe

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/II 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	25x25	
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	



C系列车床

C series lathe

C6163B
C6180A
C6263B
C6280A

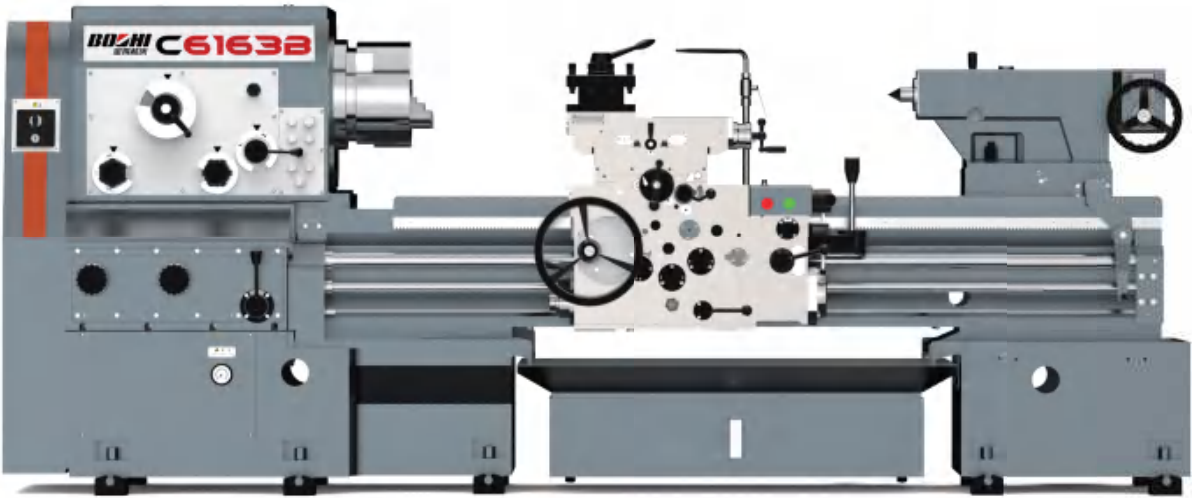
机床特点描述 / Machine Features Description

- 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。
- 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.

参数列表 / Parameter List

项目/Items	单位 / Unit	参数 / Parameters			
		C6163B	C6180A	C6263B	C6280A
床身上回转直径 Max. swing over bed	mm	Φ660	Φ830	Φ660	Φ830
床鞍上回转直径 Max. swing over slide	mm	Φ400	Φ540	Φ400	Φ540
两顶尖之间最大距离 Max. workpiece length	mm	1500/2000/3000/4000		1500	1500
主轴头型式 Spindle nose		A2-11		A2-11	A2-11
主轴通孔直径 Spindle thru-hole	mm	Φ105		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	14级 steps 12.5~1120 rpm
刀具截面 Tool section	mm	32X32		32X32	32X32
上刀架的最大行程 Max. travel of compound rest	mm	200		200	200
下刀架的最大行程 Max. travel of cross slide	mm	480	515	480	515
尾座套筒直径/行程 Tailstock quill diameter/ Max. travel of quill	mm	Φ100/250		Φ100/250	Φ100/250
尾座套筒锥度 Diametric pitch threads	MT	5		5	5
主电机功率 Spindle motor power	kW	11		11	11

C6163B、C6180A、C6263B、C6280B：中型普通卧式车床
C6163B, C6180A, C6263B、 C6280B: medium size horizontal engine lathe



加工中心

MACHINING CENTER

五轴加工中心 / 五轴铣车中心(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)

立式加工中心 VMC系列 / BV系列

卧式加工中心 HMC / HMC500 HMC630 HMC800

龙门加工中心 BG系列/BG-F系列

HIGHLY EFFICIENT CUTTING CUTS THE WORKER LABOR INTENSITY.

高效率切削加工 · 减少人工劳动强度



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	—/50
主轴锥孔 / Spindle taper hole	No.	BT40	BT40
主轴转速 / Spindle speed	r/min	100-15000 100-20000	100-15000
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。

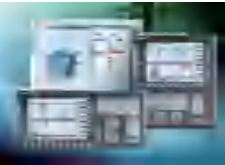
BMC-630V 5-axis vertical machining center, with stable C type structure, standard with high speed electric spindle, direct drive NC rotary table and servo tool magazine, capable for high speed, high accuracy machining on complex parts. Widely application in machining products of new energy motor, gearbox,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



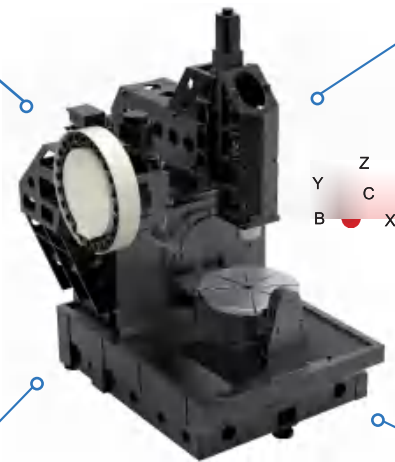
SINUMERIK 840D s强大的硬件架构以及智能的控制算法，辅助以出色的驱动和电机技术，使加工过程拥有极高的动态性能及精度。



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。

立式加工中心

VERTICAL MACHINING CENTER

VMC系列:

VMC850B/L MVC850B/L VMC1060B/L MVC1060B/L VMC1370/MVC1370 VMC1580/MVC1580 VMC1690/MVC1690
VMC1890/MVC1890 VMC855H VMC1167H VMC1270/L VMC1580L

BV系列:

BV642B/H BV852B/H BV1162B/H



标准型立式加工中心VMC系列

Standard Vertical Machining Center VMC series

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

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						
		VMC850B MVC850B	VMC1060B MVC1060B	VMC1270 MVC1270	VMC1370 MVC1370	VMC1580 MVC1580	VMC1690 MVC1690	VMC1890 MVC1890
工作台尺寸 / Table area	mm	500x1050	600x1300	700x1360	710x1400	800x1700	900x1800	900x2000
允许负载 / Permissible load	kg	600	800	1000	1000	1500	1600	1800
行程(X/Y/Z) / Travel	mm	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
主轴锥孔 / Spindle taper hole	No.	BT 40	BT 40	BT 50	BT 50	BT 50	BT 50	BT 50
主轴转速 / Spindle speed	r/min	8000	8000	7000	7000	7000	7000	7000
主轴电机功率 / Spindle motor power	kW	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	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 VMC850L VMC1060L VMC1270L VMC1580L
MVC850L MVC1060L MVC1270L MVC1580L

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 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							
		VMC850L MVC850L	VMC1060L MVC1060L	VMC850H	VMC1060H	VMC1270L MVC1270L	VMC1580L MVC1580L	VMC855H	VMC1167H
工作台尺寸 / Table area	mm	500×1000	600×1300	1000×500	1300×600	700×1360	800×1700	550×1000	600×1200
允许负载 / Permissible load	kg	500	1000	500	1000	1000	1500	500	800
行程(X/Y/Z) / Travel	mm	800/500/600	1000/600/600	800/500/600	1000/600/600	1200/700/600	1500/800/700	800/550/550	1100/600/700
快移速度(X/Y/Z) / Rapid move speed	m/min	32/32/20	36/36/20	48/48/48	36/36/32	24/24/20	24/24/20	48/48/48	36/36/36
主轴锥孔 / Spindle taper hole	No.	BT 40	BT 40	BT40	BT40	BT50	BT50	BT40	BT40
主轴转速 / Spindle speed	r/min	8000	8000	12000	8000	7000	7000	8000(可选12000)	8000(可选12000)
主轴电机功率 / Spindle motor power	kW	7.5/11	7.5/11	7.5/11	7.5/11	11/15	15/18.5	7.5/11	11/15
刀库容量 / ATC capacity	pcs	16/20/24	20/24	24	24	24	24	24	24

BV系列立式加工中心

Practical Vertical Machining Center

高精度, 高刚性, 大跨距

Roller linear guide-ways in three axes



参数列表 / Parameter List

项目 / Items	单位/Unit	参数 / Parameters					
		BV642B	BV852B	BV1162B	BV642H	BV852H	BV1162H
工作台尺寸 / Table area	mm	420×800	520×1050	620×1300	420×800	520×1000	620×1300
允许负载 / Permissible load	kg	600	600	1000	500	600	1000
行程(X/Y/Z) / Travel	mm	600/400/500	800/500/600	1100/650/650	600/400/500	800/500/600	1100/650/650
快移速度(X/Y/Z) / Rapid move speed	m/min	20/20/20	20/20/20	20/20/20	48/48/48	48/48/48	48/48/32
主轴锥孔 / Spindle taper hole	No.	BT40	BT40	BT40	BT40	BT40	BT40
主轴转速 / Spindle speed	r/min	10000	10000	8000	10000	10000	8000
主轴电机功率 (连续/30分钟) Spindle motor power	kW	7.5/11	7.5/11	7.5/11	7.5/11	7.5/11	7.5/11

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) 选配三轴光栅尺全闭环
 - 7) 双交换工作台
 - 8) 主轴、丝杠（选配）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) 主轴自重气平衡系统
- 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	1120
	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	200~1320
	主轴中心到工作台面距离 / 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	24
	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
	主轴转速 / Spindle speed	r/min	7000	6000	6000
主轴 Spindle	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	560/664
	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
	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 Feed	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
	丝杠螺母冷却 / Cooling of screw		强制冷却Forced cooling	强制冷却Forced cooling	强制冷却Forced cooling
	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)
刀具装置 Tool changer	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		双向Random, bidirection	双向Random, bidirection	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) / Tool change time (T-T)	S	3.5	3.5	4.6
	双向定位精度 / Bidirectional positioning	mm	0.010	0.010	0.012
精度 Accuracy	配光栅尺双向定位精度 / Bidirectional positioning in case encoder	mm	0.008	0.008	0.010
	双向重复定位精度 / Bidirectional repeatability	mm	0.008	0.008	0.009
	配光栅尺双向重复定位精度 / Bidirectional repeatability in case encoder	mm	0.005	0.005	0.006
	工作台分度定位精度 / Indexing accuracy of table	“	15	15	15
	工作台重复分度定位精度 / Repeatedly indexing accuracy of table	”	±3	±3	±4
	数控系统NC / Controller		FANUC 0iMF	FANUC 0iMF	FANUC 0iMF
其它 Others	气源 / Air source	MPa	0.6~0.8	0.6~0.8	0.6~0.8
	切削液槽容量 / Capacity of cutting fluid tank	L	500	600	600
	电源 / Power source	kw	50	65	70
	机床外形尺寸 / Dimensions of machine	mm	5150X3845X2975	5800X4400X3500	9100X5600X3900
	机床重量 / Weight of machine	kg	20000	23000	25000

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

BG系列/BG-F系列龙门加工中心

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。

BG series/BG-F series gantry 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/molds. Suitable for use in aerospace, automotive, die/mold , 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SIEMENS828D。
- 2) 台湾产6000rpm皮带式主轴。
- 3) 24把圆盘刀库。
- 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) 可选配：主轴油冷机、ZF减速机，第四工作台，手动90°角度头，自动刀长测量系统。
- 10) BG-F系列龙门加工Z轴采用方滑枕结构，机床刚性更好。

- 1) Equipped with FANUC Oi-MD System, SIEMENS 828D is optional.
- 2) Taiwan made belt driven spindle 6000rpm.
- 3) Disc magazine 24 tools.
- 4) Imported X-axis and Y-axis roller linear guides
- 5) Gas 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) Optional: oil cooler of spindle, ZF speed reducer, fourth axis table.
- 10) Z-axis of BG-F series gantry machining center adopts a square sliding pillow structure, rigidity is better.



参数列表 / Parameter List

项目/Items		单位 Unit	BG系列龙门加工中心 BF series gantry machining center						BG-F系列龙门加工中心 BF-F series gantry machining center		
			BG1825	BG1830	BG2225	BG2230	BG2840	GB2860	BG3240F	BG3260F	BG3280F
工作台 Work table	工作台面积(宽×长)/Able area (W×L)	mm	2500×1600	3000×1600	2500×1800	3000×1800	4000×2100	6000×2100	4000×2800	6000×2800	8000×2800
	T型槽（数目－尺寸×间距） T-slot(number－dimension×space)	mm	9×22×180	9×22×180	9×22×180	9×22×180	9×28×220	9×28×220	12×28×230	12×28×230	12×28×230
	允许负载 Permissible load	Kg	7000	8000	8000	9000	18000	18000	20000	24000	28000
主轴 Spindle	主轴锥孔/Spindle taper hole	No.	BT50	BT50	BT50	BT50	BT50	BT50	BT50	BT50	BT50
	主电机功率（连续/30min过载） Spindle motor(con./30min.overload	Kw	15/18.5	15/18.5	22/26	22/26	22/26	22/26	22/26	22/26	22/26
	主轴最高转速/Max. spindle speed	rpm	6000	6000	6000	6000	6000	6000	6000	6000	6000
	方滑枕尺寸/Square ram size	mm							450×450	450×450	450×450
行程 Travel	工作台左右行程X/Right and left travel of table(X－axis)	mm	2500	3000	2500	3000	4000	6000	4000	6000	8000
	主轴箱前后行程Y Rear and front travel of spindle box(Y－axis)	mm	1800	1800	2200	2200	2800	2800	3200	3200	3200
	主轴箱上下行程Z UP and down travel of spindle box(Z－axis)	mm	1000	1000	1000	1000	1000	1000	1200	1200	1200
	主轴端面至工作台距离 Distance of spindle nose to face	mm	250－1250	250－1250	250－1250	250－1250	250－1250	250－1250	250－1450	250－1450	250－1450
	龙门宽度/Gantry width	mm	1800	1800	2200	2200	2800	2800	3200	3200	3200
进给 Feed	快速移动X/Y/Z Rap traverse X/Y/Z	m/min	12/12/10	12/12/10	12/12/10	12/12/10	12/12/10	10/12/10	12/12/8	10/12/8	8/12/8
	最大切削速度 Max. cutting federate	mm/min	1－8000	1－8000	1－8000	1－8000	1－8000	1－8000	1－8000	1－8000	1－8000
刀库 Magazine	刀库容量/Magazine capacity	Pcs	24	24	24	24	24	24	24	24	24
	换刀时间/Tool change time	S	3	3	3	3	3	3	3	3	3
	最大刀具尺寸/ Max.tool size	mm	Φ110×350	Φ110×350	Φ110×350	Φ110×350	Φ110×350	Φ110×350	Φ110×350	Φ110×350	Φ110×350
	最大刀具重量/ Max.tool weight	Kg	15	15	15	15	15	15	15	15	15
精度 Machine accuracy	位置精度X/Y/Z Positioning accuracy	mm	0.02/0.015/0.010	0.025/0.015/0.010	0.025/0.015/0.010	0.025/0.015/0.010	0.030/0.020/0.010	0.04/0.020/0.010	0.03/0.025/0.015	0.04/0.025/0.015	0.04/0.025/0.015
	单向重复定位精度X/Y/Z One direction repeatability	mm	0.015/0.010/0.008	0.02/0.010/0.008	0.02/0.010/0.008	0.02/0.010/0.008	0.020/0.014/0.008	0.025/0.014/0.008	0.020/0.016/0.012	0.025/0.016/0.012	0.025/0.016/0.012
其他 Other	机床重量/Machine weight	Kg	24500	27500	28000	34000	43000	50000	48000	65000	85000
	机床长×机床宽×机床高 /Length×Width×height	mm	7200×4900×5000	7200×4900×5000	7200×5300×5000	8200×5300×5000	10500×6150×5500	15600×6150×5500	10500×6300×6500	15800×6300×6500	20340×6300×6500

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

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

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

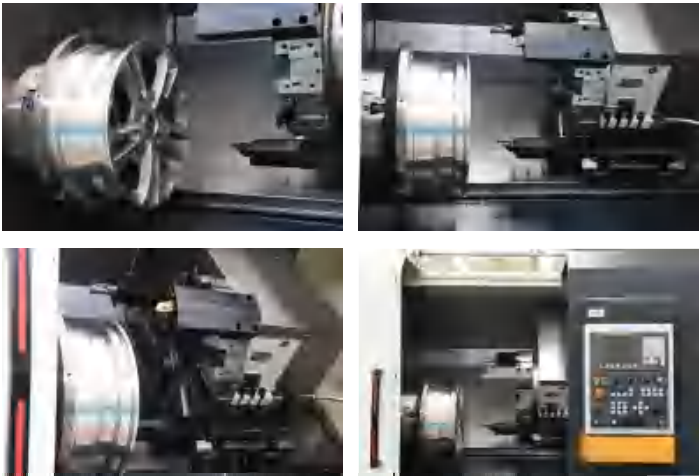
机床特点描述 / Machine Features Description

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。

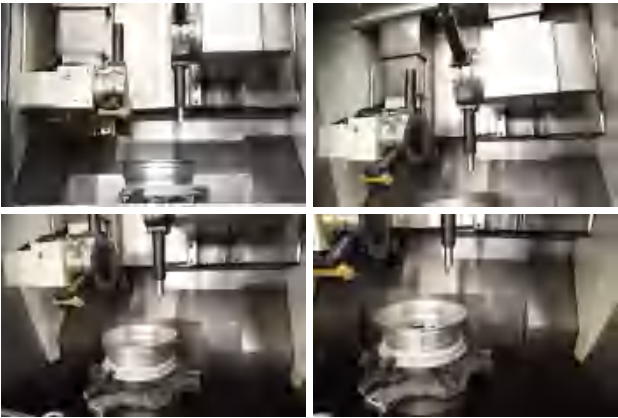
- 1.立式结构，排屑流畅，装夹工件方便；
- 2.高强度铸铁底座、立柱，吸震性好，精度保持性优良；
- 3.主轴采用套筒结构，套筒采用对称、悬挂设计，高刚度主轴，低速大扭矩主轴电机，主轴润滑采用进口高级润滑脂润滑，全封闭，免维护；
- 4.六工位伺服刀架，刚性高、换刀迅速、可靠；
- 5.冷却水箱采用分离式，移动、清洁方便；
- 6.全封闭防护，安全，可靠，环保；
- 7.集中式机床操作面板，操作方便、快捷；
- 8.各种计量单位全部符合国际单位制（SI）。

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



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

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

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 daimeter	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

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
For disk/plate type work machining and logistics delivery

机床特点描述 / Machine Features Description

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 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



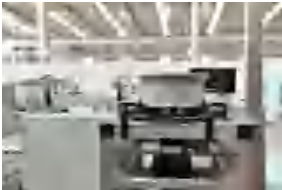
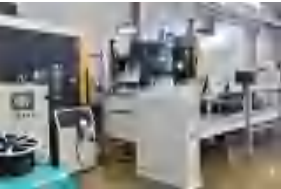
参数列表 / Parameter List

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

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.



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.

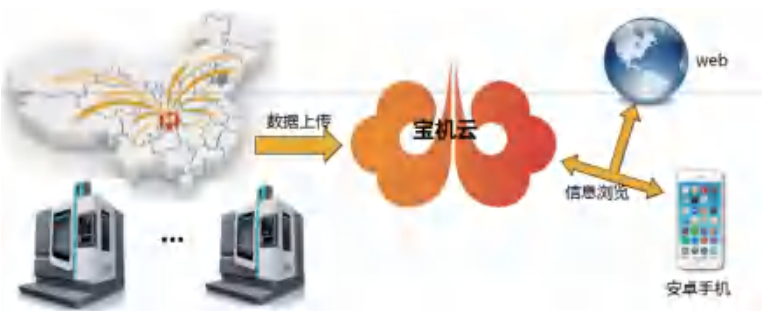
Journal function. Recording not only tool offset, coordinate system, machining program data update history, but also machining operation, alarm information etc. which can offer data for machine maintenance inspecting and error searching.

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 currency, 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.

宝鸡云四大核心功能：

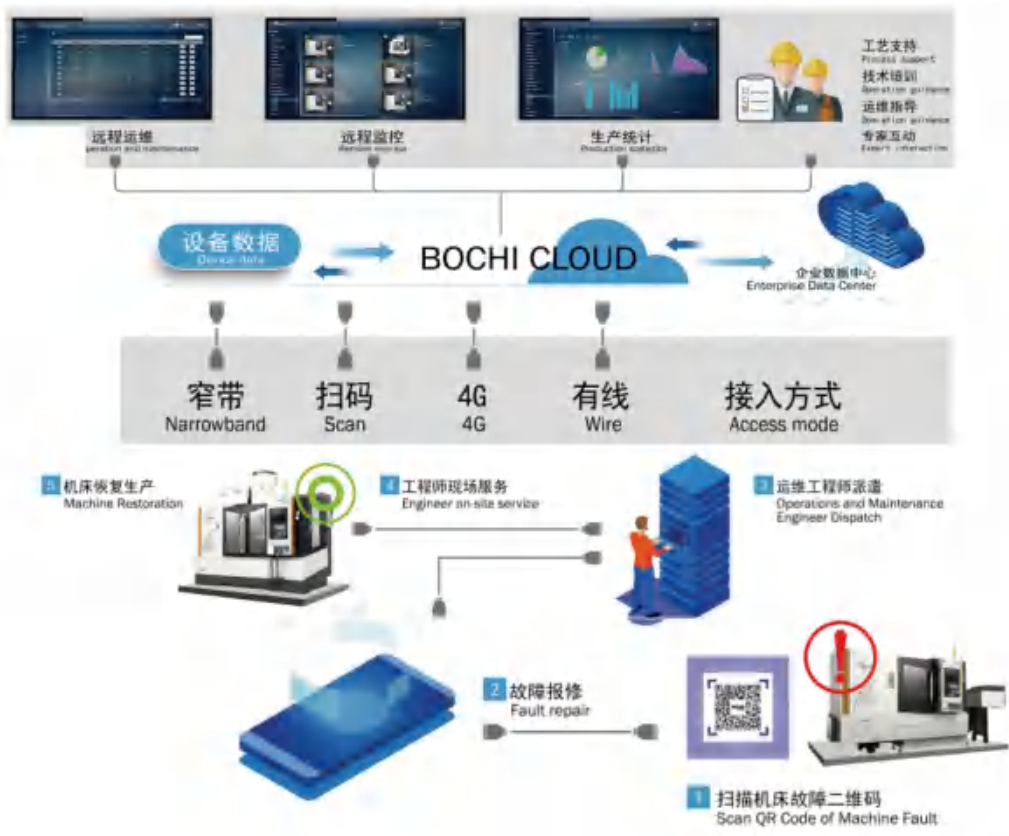
Four core functions of BOCHI Cloud

- 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

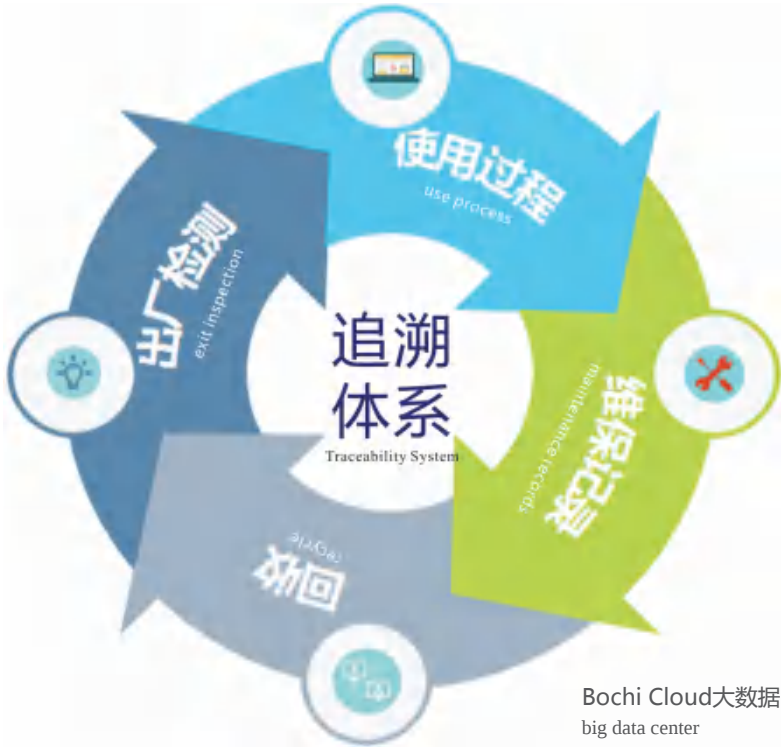
1. Operation status monitoring and production statistics functions of Baoji cloud machine tools: equipment list, equipment monitoring, processing statistics and comprehensive statistics
2. baoji cloud CNC machine tool remote operation and production management system:
3. Establish equipment file data 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



Bochi Cloud大数据中心
big data center

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



让宝鸡机床成为客户首选

Make BAOCHI MACHINE become customers' first choice.

公司秉承"以客户需求为导向，善于质疑，敢于超越"的创新理念和"让宝鸡机床成为客户首选"的营销理念，设立了覆盖全国各省、市、自治区的营销服务机构，为用户提供快捷满意的个性化服务；在海外设立营销服务中心，产品外销美国、加拿大、德国、俄罗斯、墨西哥、印尼、马来西亚等50多个国家和地区。

The company adheres to the innovative concept of "customer-oriented, good at query, and daring to surpass". The marketing concept of "making BOCHI machine tool become the first choice for customers". It has established marketing service agencies covering all provinces, cities, and autonomous regions in China to provide users with fast and satisfactory personalized services; The company establishes marketing service centers overseas, and it exports products to more than 50 countries and regions, including the United States, Canada, Germany, Russia, Mexico, Indonesia, Malaysia, etc.