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Dingshun Heavy Duty Machine Tool

ISO9000质量管理体系认证企业

宝 顺 机 械
Baoshun Machinery

CK84100数控轧辊车床

CNC ROLL TURNING LATHE



CK84100 (1000×3000/5000/7000)



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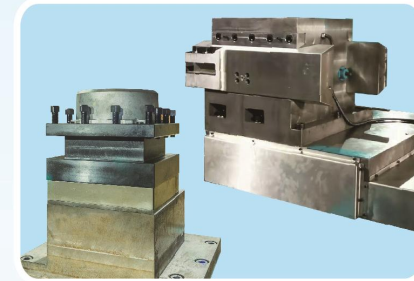
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CK84100数控轧辊车床简介 Brief introduction

本机床为数控轧辊车床。主要用于铸铁、钢质和有色金属轧辊的半精车削及精车削加工，使用高速钢、硬质合金或其他材料的刀具可进行轧辊的外圆、端面和各种复杂孔型型面、曲面的车削加工和修复加工。也可用于与轧辊相同尺寸及重量范围的铸铁、钢质及有色金属材质的轴类零件的加工。可进行外圆、端面和各种复杂曲面的半精车削及精车削。机床纵向导轨设计为整体4导轨，纵向和横向移动均采用高精度滚珠丝杠传动，刀架纵向和横向进给运动导轨均采用高刚性矩形导轨，结合框式刀架上的高刚性刀排，提高了机床切削加工时的高刚性和稳定性；主轴的轴承采用高精度可调整径向间隙的双列径向短圆柱滚子轴承，因而主轴刚性强、旋转平稳、精度高。以上高稳定性和高刚性的结构设计，确保机床的整体综合加工精度。从而保证了被加工零件的精度也很高。运动导轨副采用耐磨贴塑处理和集中润滑系统实施定点定量自动润滑，保证了系统的动态响应特性；机床的纵向和横向进给运动导轨采用不锈钢全防护，有利于运动精度的长期保持。

This CNC roll lathes are mainly used in the semifinishing and finishing turning processing work for cast iron, steel and Non-ferrous metal rolls. The machines adopt high speed iron steel, tungsten-carbide or other kind of material cutters. These kind of designs support the machines to do turning and repairing processing work for the rolls' excircle, head face, all kinds of complex groove face and curved surface. They can also process the similar cast iron, steel and non-ferrous metal shafts as rolls in same weight range for semifinishing and finishing work on excircle, head face, and all kinds of complex groove face. The machine adopts four guideway. The longitudinal and lateral movement adopts high precision ball screw drive. The longitudinal and cross movement adopt high rigid rectangular guideway. With the combination frame blade holder of high rigid cutter row on the rectangular, the machines have improved the rigidity and stability. We adopt high accuracy and radial clearance of the double row short cylindrical roller bearings as machine's spindle bearings to ensure the machine's high rigidity, stability and high accuracy. All the designs make sure the machines in integrated processing precision. And the workpieces will be processed in high accuracy. Machines adopt paste hardened plastic guideway and centralised lubrication systems for every guideways' lubrication. It uses fixed-point quantitative oil supply principle. This ensures that the dynamic response of the system and the long using life for the machine's guideways' lubrication. Machines adopt full stainless steel covers for guideway. This kind of design will keep the machine's accuracy.



刀架 Turret tool holder



重载尾架 Tailstock

CK84100主要规格、技术参数 Performance parameters brief introduce

主要参数 Main parameters		床头箱 Headstock		进给传动 Feed transmission		尾座移动参数 Tailstock moving parameters		电动机及其它参数 Motor and other parameters	
最大工件直径 Max. Workpiece diameter	Ø1000mm	主轴转速范围 Main spindle rotation	3~200r/min	进给量级数 Feed movement grade	无级 Stepless	尾座套筒移动量 Tailstock sleeve of mobile content	250mm	交流变频主电机功率 Variable frequency AC motor power	75/98KW
最大工件长度 Max. Workpiece length	3000/5000/7000mm	主轴转速级数 Spindle speed grade	无级 Stepless	纵向(Z轴)进给速度范围 Longitudinal(Z axis) movement speed	1~4000mm/r	尾座快速移动速度 Rapid speed of tailstock	2200mm/min	进给交流伺服电动机 纵向(Z轴)电机扭矩 Variable frequency AC motor for longitudinal feeding(Z axis) torque	1FK7系列
顶尖间最大工件重量 Max. load between centers points	25000/32000kg	主轴变速方式 Spindle speed mode	液压机械换挡 Hydro mechanical shift	纵向快速移动速度 Rapid longitudinal movement speed	4000mm/min	尾座移动方式 Tailstock moving mode	机动 Motor drive	进给交流伺服电动机 横向(X轴)电机扭矩 Variable frequency AC motor for cross feeding(X axis) torque	1FK7系列
中心高 Center height	650mm	花盘直径 Work holding chuck diameter	Ø1000mm	横向(X轴)进给速度范围 Cross(X axis) movement speed	1~2000mm/r	尾座主轴锥孔尺寸 The tailstock spindle taper hole size	Ø106.375mm 1:4	床身导轨防护形式 The bed guideway form	不锈钢防护罩 Stainless protective covers
最大切削力 Max. Cutting capacity	80Kn	主轴锥孔尺寸 Size of spindle taper	Ø139.719mm	横向快速移动速度 Rapid cross movement speed	2000mm/min	尾座套筒直径 Tailstock sleeve diameter	Ø320mm	机床外型尺寸(长*宽*高) Overall size(L*W*H)	12160×2920×2250mm
花盘最大扭矩 Max. work holding chuck torque	50Kn·m							机床重量(约) Gross weight	40000kg

注：标准配置采用数控系统是SINUMARIK 808D，主传动调速系统采用欧系或日系交流变频器，也可按客户特殊需求配置其它数控系统和主传动调速系统。
NOTICE: In standard features, we adopt SINUMARIK 808D as CNC system, "Yaskawa" CIMR-G7B as AC frequency converter. CNC system and main transmission system can be appointed by customer.



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