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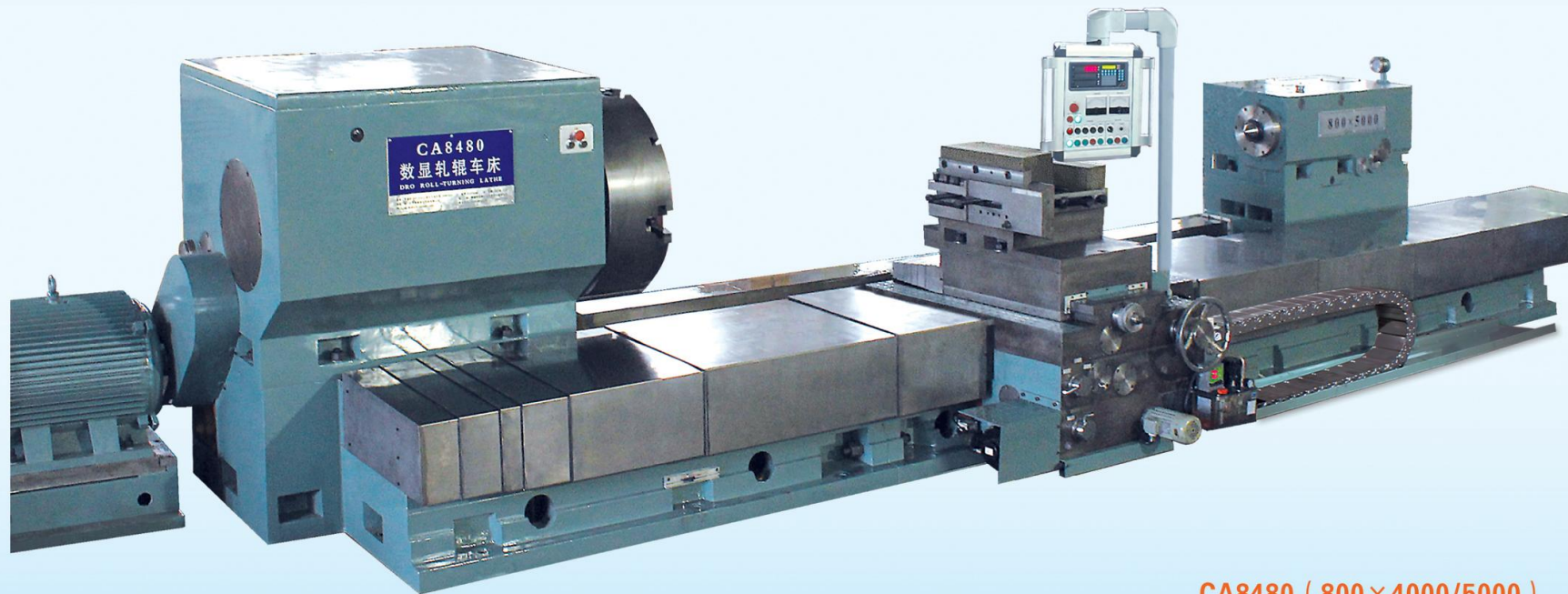
Dingshun Heavy Duty Machine Tool

ISO9000质量管理体系认证企业

宝 顺 机 械  
Baoshun Machinery

# CA8480数显轧辊车床

DRO ROLL TURNING LATHE



CA8480 ( 800 × 4000/5000 )



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### CA8480数显轧辊车床简介 Brief introduction

CA8480数显轧辊车床主要用于铸铁、钢质及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。机床纵向导轨设计整体4导轨，纵向移动采用蜗米牙条传动，刀架横向进给运动采用高刚性矩形导轨，意大利框式刀架技术与固定式刀台完美结合，提高了机床切削加工时的高刚性和稳定性；同时高刚性的刀排特别适合对过主轴中心工件的加工，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。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。主轴箱(床头箱)采用45KW交流变频电机，使用液压，自动换挡，机床纵、横向移动采用无级变速实现，可根据不同轧辊材质选用不同的转速、进给量，操作非常简单。机床纵向移动使用光栅数显，车削轧辊时无需对辊或划线加工。各运动导轨副采用集中润滑系统实施定点定量自动润滑供油，保证了系统的动态响应特性；确保机床导轨润滑经久耐用，机床的纵横均均采用不锈钢全防护，有利于运动精度的长期保持。本机床由床身、主轴箱、尾座、刀架、液压系统、PLC系统电器柜、托线(坦克链式)等组成。

CA8480pic roll lathes are mianly 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 samiliar 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 adpots four in one guide way.Its longitudinal movement is driving by cochlear meters teeth.The turret traverse motion uses high rigid rectangular guide.With Italian frame type cutter technology and the fixed cutter structure's perfect combination,the machines have improved the rigidity and stability.At the same time,the high rigidity blade row structure is suitable to process workpieces as spindle center.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,stablity and high accuracy. All the designs make sure the machines in integrated processing precision. And the workpieces will be processed in high accuracy.Spindle box(headstock) adopts 45KW AC frequency variable motor,using hydraulic unit,automatic shift modes,stepless transmission(longitudinal and cross movement).The machine can adjust speed,feed rate according to the workpieces's materials.Easy control.Machines use DRO for the longitudinal movment.With this kind design, there is no need to positioning roll or scribing workpiece in machining operation.Machines adopts centralised lubricationsystems for every guidiways' 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 guidways' lubrication. Machines adopt full stainless steel covers.This kind of design will keep the machine's accuracy.This machine consists of bed,turret tool holder,hydraulic system,PLC system,electrical cabinet,wire holder and so on.



框式刀架 Turret tool holder



重载尾架 Tailstock

### CA8480 (800×4000/5000)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	Ø800mm	主轴转速范围 Main spindle rotation	1~60r/min	进给量级数 Feed movement grade	无级 Stepless	尾座套筒移动量 Tailstock sleeve of mobile content	300mm	交流变频主电机功率 Variable frequency AC motor power	45KW
最大工件长度 Max. Workpiece length	4000/5000mm	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	0.4~1300mm/r	尾座快速移动速度 Rapid speed of tailstock	3000mm/min	进给交流伺服电动机 纵向(Z轴)电机扭矩 Feed AC servo motor Longitudinal(Z axis) motor torque	35N·m
中心高 Center height	550mm	主轴变速方式 Spindle speed mode	液压自动 Hydraulic auto	纵向快速移动速度 Rapid longitudinal movement speed	1300mm/min	尾座移动方式 Tailstock moving mode	机动 Motor drive	床身导轨防护形式 The bed guideway form	不锈钢防护罩 Stainless protective covers
顶尖间最大工件重量 Max. load between centers points	14000Kg	花盘直径 Work holding chuck diameter	Ø800mm	横向(X轴)进给速度范围 Cross(X axis) movement speed	0.2~650mm/r	尾座主轴锥孔尺寸 The tailstock spindle taper hole size	Ø80mm 1:7	纵向运动位置显示 Longitudinal movement display	有 YES
最大切削力 Max. Cutting capacity	70Kn	主轴锥孔尺寸 Size of spindle taper	Ø100mm 1:7	横向快速移动速度 Rapid cross movement speed	650mm/min	尾座套筒直径 Tailstock sleeve diameter	Ø280mm	机床外型尺寸(长*宽*高) Overall size (L×W×H)	9380/10240×2300×1800mm
花盘最大扭矩 Max. work holding chuck torque	55000N·m							机床重量(约) Gross weight	30000kg



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