



无锡安博尔机械有限公司
WUXI ANBER MACHINE CO., LTD.

自动精密 数控机床 CNC Machine



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自动精密数控机床概述

本系列机床采用车床专用数控系统控制，使用全数字交流伺服电机直接驱动高精度的滚珠丝杆。采用CNC系统装置实现机床的X、Z向联动、主轴的正反转，主轴的启动停止等，并可选用组合排刀实现多工位的刀具转换，从而可进行多品种复杂零件的切削加工。机床编程采用ISO国际标准数控G、M代码格式。



Description of CNC machine

The CNC machine adopts special lathe control system, using high-precision ball screw direct driven by all-digital AC servo motor. The CNC system can realize X and Z direction linkage, reversing of the spindle, spindle start & stop of the spindle, etc., and can choose a combination of row knife multi-station tool changer, which can be used for many varieties of complex parts machining. Programming of CNC machine uses ISO international standard G, M code format.



机床的主要特点

- (1) 全数字交流伺服驱动,控制性能好、维修简单。CNC系统稳定可靠,易于操作,功能强,响应快,界面丰富,具有自我诊断功能。
- (2) 机床采用直线导轨,具有定位速度高、定位准确、刚性好、滚动摩擦小、寿命长、精度高等特点。
- (3) 滚珠丝杠采用弹性联轴器与交流伺服电机直接联结,丝杠采用进口轴承支撑,并在出厂前进行预拉伸,保证进给系统无间隙、刚度大、工作精度稳定。
- (4) 机床上料、下料自动控制,车床缺料时料盘自动运转,料满感应后,料盘延时一段时间自动停止,通过更改程序可以修改延时时间,实现全自动功能。
- (5) 主运动:主轴采用变频器无级调速,经同步带直接传给主轴。主轴光栅编码器通过同步带轮可实现与主轴同步旋转。
- (6) 进给运动:机床的X向和Z向进给由全数字交流伺服电机驱动。X向进给运动通过联轴器直接驱动滚珠丝杠副带动小拖板,从而实现X向进给运动。Z向进给运动通过联轴器直接驱动滚珠丝杠副带动大拖板,从而实现Z向进给运动。

Characteristics of CNC machine

- (1) Digital AC servo drive, good control performance, simple maintenance. CNC system is reliable, easy to operate, powerful, fast response, rich interface with self-diagnostic function.
- (2) The CNC machine uses liner guideway with characteristics of fast positioning speed, precision positioning, good rigity, small rolling friction, long operating lift and high precision etc.
- (3) Ball screw uses direct connection of flexible coupling and AC servo motor, screw uses imported bearing with pre-stretched before delivery to ensure the feed system without gaps, rigidity, accuracy and stability work.
- (4) Auto control of feeding and cutting process, trays of CNC machine will automatically turn as lack of material, expected after full induction, trays delay period is automatically stopped, the program can be modified by changing the delay time, fully automatic function.
- (5) Main movement: variable speed for spindle drive, the belt directly to the spindle. Spindle belt round grating encoder can be achieved through synchronous rotation with the spindle.
- (6) Feed movement: X and Z direction are driven by full digital AC servo motor. X to the feed movement directly driven ball screw driven by a small carriage by Vice couplings, enabling X to feed movement. Z to feed movement led directly driven ball screw deputy big carriage through the coupling to achieve Z to feed movement.

主要技术参数

型号: SK-S80系列
最大行程: X: 120mm; Z: 120mm;
快速移动速度:
X: 12000mm/min; Z: 12000mm/min;
主轴电机功率: 4KW-4P主轴电机
主轴与编码器传动比: 1:1
主轴转速 (r/min): 200-1800内变速
X轴导轨结构: 25直线导轨
Z轴导轨结构: 25直线导轨
X、Z电机连接方式: 直联
驱动类型: X: 3.2N/m; Z: 3.2N/m
X、Z滚珠丝杠规格: 25-10T3
主轴前轴承: 32217
主轴后轴承: 32216
液压系统: 压力0-3.5Mpa
机床净重: 1.5吨
机床尺寸: 1300*1000*1600mm

Main specifications of CNC machine

Model: SK-S80 series
Max. Stroke:
X: 120mm; Z: 120mm;
Rapid moving speed:
X: 12000mm/min; Z: 12000mm/min;
Transmission ratio: 1:1
Rotate speed of main shaft: 200-1800r/min
Structure of X rail: 25 linear rail
Structure of Z rail: 25 linear rail
Connection type of X and Z motor: direct connection
Drive type:
X: 3.2N/m; Z: 3.2N/m
Specification of ball screw for X and Z: 25-10T3
Front bearing of main shaft: 32217
Rear bearing of main shaft: 32216
Hydraulic system: 0-3.5Mpa pressure
Machine weight: 1.5T
Overall size: 1300*1000*1600mm



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WUXI ANBER MACHINE CO., LTD.

CNC Cutting Machine 数控切管机

SK-G72 Series



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数控切管机概述

本机床为全自动割管机，能担任各种短轴套类管料的切割。机床采用微机控制X、Z向运动分别使用伺服电机直接驱动高精度的滚珠丝杆传动小拖板和大拖板完成X向和Z向走刀。使用该机床可以节省工艺装备，缩短生产准备周期，保证零件加工质量，提高生产效率。机电一体化程度高，生产效率高，切割尺寸稳定，型号更换方便且适合长料切割，是管料切割生产的理想设备。



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Description of CNC tube cutting machine

This CNC machine is fully automatic pipe cutting machine, can fill a variety of short sleeve type pipe cutting. The machine adopts microcomputer control X, Z servo motor direct drive high-precision ball screw drive small and large carriage to carriage movement in X and Z, respectively complete the pass. This cutting machine can save technology and equipment, shorten production preparation cycle to ensure parts processing quality, increase production efficiency. A high degree of mechanical and electrical integration, high production efficiency, cutting dimensionally stable, easy to replace and is suitable for long model material cutting, tube feeding is the ideal equipment for cutting production.



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机床的主要特点

- 一)、机床采用PLC控制，很方便更改加工工艺参数，具有稳定性好、可靠性好、加工精度高、效率高等特点，实现电气系统全自动。
- 二)、切割采用全交流数字伺服、导轨采用直线进口导轨，具有刚性好、滚动摩擦小、寿命长、精度高等特点。
- 三)、滚珠丝杠采用弹性联轴器与交流伺服电机直接联结，丝杠专用进口轴承支撑，并在出厂前进行预拉伸，保证进给系统无间隙、刚度大、工作精度稳定。

Characteristics of CNC machine

- (1) The CNC machine adopts PLC control, it is easy to change the process parameters with characteristics of good stability, reliability, precision and high efficiency, to achieve automatic electrical system.
- (2) Cutting process is driven by all-digital AC servo, uses imported linear guide rail, with good rigidity, low rolling friction, long life and high accuracy.
- (3) The ball screw is direct connected by elastic coupling and AC servo motor, use imported screw bearing, and pre-stretched before delivery to ensure the feed system without gaps, rigidity, accuracy and stability work.

主要技术参数

型号：SK-G72系列
最大行程：X: 140mm; Z: 140mm;
快速移动速度：
X: 12000mm/min; Z: 12000mm/min;
主轴电机功率：4KW-4级三相异步电动机
主轴转速 (r/min)：1200
X轴导轨结构：进口直线导轨
Z轴导轨结构：进口直线导轨
X、Z电机连接方式：直联
驱动类型：
X：2.4N/m; Z：2.4N/m
X、Z滚珠丝杠规格：R25-5T3
主轴前轴承：NN3028K W33
主轴后轴承：7026-AC-DB
加工套圈直径：Ø30-Ø72mm
最大割管壁厚：10mm
加工长度范围：3-100mm
机床净重：1.1吨
机床尺寸：1650*900*1450mm

Main specifications of CNC cutting lathe

Model: SK-G72 series
Max. Stroke:
X: 140mm; Z: 140mm;
Rapid moving speed:
X: 12000mm/min; Z: 12000mm/min;
Motor power of main shaft: 4KW-4 three-phase asynchronous motor
Rotate speed of main shaft: 1200 r/min
Structure of X rail: imported linear rail
Structure of Z rail: imported linear rail
Connection type of X and Z motor: direct connection
Drive type:
X: 2.4N/m; Z: 2.4N/m
Specification of ball screw for X and Z: 25-5T3
Front bearing of main shaft: NN3028K W33
Rear bearing of main shaft: 7026-AC-DB
Diameter range of tube: Ø30-Ø72mm
Max. Cutting thickness: 10mm
Cutting length: 3-100mm
Machine weight: 1.1T
Overall size: 1650*900*1450mm