

机床特点 | CHARACTERISTICS OF MACHINE TOOL

TY40 0 斜床身数控车床是结合我们多年设计卧式数控车床的经验, 顺应市场及 发展需求而设计, 生产的一种全新产品。该产品主要性能指标达到国际先进水平, 节能环保。与同类机床相比具有如下特点: 1. 高效率, 加工周期短, 减少非切削时间; 2. 高精度, 良好的静态精度和加工精度; 3. 高空间效率: 较小的空间发挥最大的作用; 4. X/Z 轴采用滚珠丝杠, 定位精度高, X/Z 轴采用线性导轨设计, 加大导轨, 更高的动静载荷, 提高了机床的刚性。该系列机床整机采用机、电、液一体化结构, 整体布局紧凑合理, 并采用先进的有限元分析软件对整机进行分析优化, 使整机性能达到最优。关键的外购件 都选用国际知名厂家的标准系列产品, 保证机床的精度和可靠性。因此该系列机床特别适合汽车、工程机械、电子、轻工机械等行业, 对旋转体类零件 进行高效、大批量、高精度加工, 加工精度 IT6 级, Cp 值大于等于 1.33。

TY40 0 Infeed bed CNC lathe is a brand new product designed and produced in accordance with the market and development requirements based on our years of experience in designing horizontal CNC lathes. The main performance indicators of the product meet the international advanced level, energy saving and environmental protection. Compared with similar machine tools, it has the following characteristics: 1. High efficiency, short processing cycle, reducing non-cutting time; 2. High accuracy, good static accuracy and machining accuracy; 3. High space efficiency, small space plays the greatest role; 4. The X/Z axis adopts three-point positioning ball screw with high positioning accuracy. The X/Z axis adopts linear guide rail design, which increases the guide rail, higher dynamic and static load, and improves the rigidity of the machine tool. The whole machine of the series adopts the integrated structure of machinery, electricity and hydraulics, and the overall layout is compact and reasonable. The advanced finite element analysis software is used to analyze and optimize the whole machine, so as to optimize the performance of the whole machine. The key purchased parts are selected from the standard series products of internationally famous manufacturers to ensure the accuracy and reliability of the machine tool. Therefore, this series of machine tools is particularly suitable for the automobile industry, motorcycle industry, electronics, light industrial machinery and other industries. It can process rotating parts efficiently in large quantities and with high precision. The processing accuracy is IT6, and the Cp value is greater than or equal to 1.33.



T32

详细配置清单 | DETAILED CONFIGURATION LIST

序号 NO.	配件名称 NAME OF ACCESSORIES	规格型号 SPECIFICATION	数量 QUANTITY	品牌 BRAND	产地 PLACE OF PRODUCTION
1	控制系统 Control system	开通系统 Opening system	1套 1 set	南京开通 Opening in Nanjing	广东 Guangdong
2	伺服驱动器 Servo driver	开通配套 Opening supporting facilities	1套 1 set	南京开通 Opening in Nanjing	广东 Guangdong
3	X 伺服电机 X servo motor	6N.M 6N.M	1只 1	南京开通 Opening in Nanjing	广东 Guangdong
4	Z 伺服电机 Z servo motor	6N.M 6N.M	1只 1	南京开通 Opening in Nanjing	广东 Guangdong
5	主轴电机 Spindle motor	4KW 伺服主电机 4KW servo main motor	1 one	南京开通 Opening in Nanjing	广东 Guangdong
6	主轴驱动器 Spindle drive	配套 Supporting facilities	1 one	南京开通 Opening in Nanjing	广东 Guangdong
7	主轴 Principal axis	机械主轴 Mechanical spindle	1套 1 set	勃泰 Jongtai	浙江 Zhejiang

序号 NO.	配件名称 NAME OF ACCESSORIES	规格型号 SPECIFICATION	数量 QUANTITY	品牌 BRAND	产地 PLACE OF PRODUCTION
8	直线导轨 X轴 Linear guide X axis	HGW30	2	德国FZS Germany FZS	江苏 Jiangsu
9	直线导轨 Z轴 Linear guide Z axis	HGW30	2	德国FZS Germany FZS	江苏 Jiangsu
10	丝杠 X轴 Lead screw X axis	2510	1	万润/盛禾 Wanrun/Shenghe	江苏 Jiangsu
11	丝杠 Z轴 Z axis of lead screw	3210	1	万润/盛禾 Wanrun/Shenghe	江苏 Jiangsu
12	油缸 Cylinder	中空回转油缸 Hollow swing cylinder	1	科普特 Coptone	江苏 Jiangsu
13	液压站 Hydraulic station	高性能液压站 High performance hydraulic station	1	履全 Shengquan	浙江 Zhejiang

10 南泰品质 匠心制造

机床主要参数 | MAIN PARAMETERS OF MACHINE TOOL

项目 ITEM	单位 UNIT	TY32
系统配置 System configuration		南京开通系统 可选配广数、凯恩帝等系统 The system opened in Nanjing can be equipped with GDS, Cain and other systems
床身上最大回转直径 Swing over bed	mm	Φ360
托板上最大回转直径 Maximum rotation diameter on the supporting plate	mm	Φ120
X轴最大行程 Maximum travel of x-axis	mm	680
Z轴最大行程 Maximum travel of z-axis	mm	400
主轴 Principal axis		机械主轴 Mechanical spindle
主轴转速 Spindle speed	rpm	50-3000
主轴鼻端 Spindle nose		A2-5
主轴通孔直径 Diameter of main shaft through hole	mm	Φ48
伺服主电机功率 Servo main motor power	KW	4
X轴伺服电机 X-axis servo motor	N.m	4
Z轴伺服电机 Z-axis servo motor	N.m	4
夹紧方式 Clamping system		液压夹紧 Hydraulic clamping
油缸规格 Cylinder specification		液压中空 536 Hydraulic hollow 536
刀架形式 Tool holder form		排刀 Cutter arrangement
刀位数 Number of cutters		4
刀方尺寸 Knife size	mm	20X20
导轨形式 Z轴 Guide rail form z-axis		直线导轨(FZS) Linear guide rail (FZS)
导轨形式 X轴 Guide rail form x-axis		直线导轨(FZS) Linear guide rail (FZS)
床身形式 Bed form		30°斜床身 30° inclined bed
尾座动力 Tailstock power		无 nothing
最小设定单位 Minimum setting unit	mm	0.001
最小移动量 Minimum movement	mm	0.001
最小检测量 Minimum detection amount	mm	0.001
X轴快速移动 X-axis fast movement	m/min	18
Z轴快速移动 Fast movement of z-axis	m/min	20
机床总重量 Total weight of machine tool	kg	1600
外观尺寸(长 X宽 X高) Appearance size (length x width x height)	mm	1900x1500x1680, 高度不包含报警灯) 1900x1500x1680 (height does not include warning light)

(注: 机床参数以实际机床数据为准。) (Note: The machine tool parameters are subject to the actual machine tool data.)

机床概述 | MACHINE TOOL OVERVIEW

数控机床是数字控制机床 (Computer numerical control machine tools) 的简称。是一种装备有程序控制系统的自动化机床。该控制系统能够逻辑地处理具有控制编码或其他符号指令规定的程序，并将其译码，用现代化的数字表示，通过信息载体输入数控装置。经运算处理后由数控装置发出各种控制信号，控制机床的动作，按图纸要求的形状和尺寸，自动地将零件加工出来。

CNC machine tool is the abbreviation of Computer numerical control machine tools. It is an automatic machine tool equipped with a program control system. The control system can logically process the program specified by the control code or other symbolic instructions, decode it, express it with coded numbers, and input it into the numerical control device through the information carrier. After calculation and processing, the numerical control device sends out various control signals to control the action of the machine tool, and automatically processes the parts according to the shape and size required by the drawing.



T35

一体桁架基本配置 | BASIC CONFIGURATION OF INTEGRATED TRUSS

伺服电机驱动：台湾台达
Drive motor drive: Taiwan Delong
导轨：定制冷黑技术，确保空程永不生锈20导轨
Guide rail: customized cold black technology to ensure that the empty section will never rust 20 guide rails
控制柜：日本三菱
Controller: Mitsubishi
人机界面：手持台湾维伦
Man-machine interface: handheld Taiwan viylon
驱动配置：施耐德ABB
Drive configuration: Schneider ABB
接触器与继电器：施耐德与日本OMRON
Contactor and relay: Schneider and Japan OMRON
开关电源：OMRON 日本科索滤波
Switching power supply: OMRON, Koso filter
电话：日本东京
Wee: Burking, Japan
气泵：日本神田
Gas pump: Motta, Japan
电磁阀：日本SMC韩国TCP台湾气立可
Solenoid valve: Japan SMC, South Korea TCP, Taiwan Qilike

接近开关：日本OMRON
Proximity switch: Japan OMRON
油泵：自动微量黄油泵 (原标配美孚润滑油)
Oil pump: automatic micro grease pump (original with Mobil grease)
料仓：独立密封式双料仓，料仓与主机采用
Silk (placed in an independent sealed hood, and the silo and the host machine adopt
总线通信；非桁架0高度轴控制，方便后期升级更换 (维护机、换动盘；法连转台等)
Bus communication; non-truss 0-axis control, which is convenient for later upgrade and replacement (host, vibrating disk, Falian rotary disk, etc.)
桁架主梁：左右Y轴为无键方管结构 (非铝型材固定导轨)
Truss main beam: left and right Y-axis use of welded square tube structure (non-aluminum profile fixed guide rail)
表面处理：1整体喷砂；2整体硝化；3箱体喷漆 (非直接烤漆)
Surface treatment: 1 overall sandblasting; 2 overall nitriding; 3 overall paint spraying (non direct baking paint)
承重螺丝：304不锈钢，重载均为12.9级电螺，以扭矩值紧固
Load-bearing screws: 304 stainless steel for light load; All heavy loads are paired with 12.9 grade and torqued with torque value
卡料检测：内置安装
Chock detection: built-in installation
抓空检测：外部安装本设备电源为220V交流；运行时最大功率不超过400W 暂停时功率输出如有个别
Grab detection: the power supply of the equipment installed externally is 220V AC. The maximum power during movement shall not exceed 400W, and there shall be no power output during suspension. If there are technical changes to individual accessories, no further notice (such as additional configurations)

24 南泰品质 匠心智造

机床主要参数 | MAIN PARAMETERS OF MACHINE TOOL

项目	单位	T35
ITEM	UNIT	
加工能力 Processing capacity	mm	Φ400
最大回转直径 Max swing diameter	mm	Φ120
刀架板上回转直径 Swing over cross slide	mm	Φ400
最大工件长度 Max turning length	mm	Φ40
最大刀棒直径 Maximum bar diameter	N/A	30mm 夹头 Spring collet 100-3000 (普通主轴单元) 100-4000 (精密主轴单元) 100-4000 (precision spindle unit)
工件夹持方式 Work piece clamping method	Rpm	选配 Optional
主轴 Principal axis		
主轴转速范围 Spindle speed range		
主轴轴径规格 Spindle nose size		
X轴快移速度 X-axis rapid traverse	m/min	24m (3210)
Z轴快移速度 Z-axis rapid traverse	m/min	24m (3210)
X轴快移精度 X-axis travel	mm	800
Z轴快移精度 Z-axis travel	mm	420
X/Z重复定位精度 X/Z axis repeating positioning accuracy	mm	0.003
刀架形式 Tool holder type	N/A	排刀 Cutter row
刀方规格 Tool size	mm	20
最大套刀数量 Number of tools	pcs	9 (可装63刀塔) 9 (63 turret can be installed)
机床尺寸 (长X宽X高) Overall size (LxWxH)	mm	2100*1450*1850
床脚底面到主轴中心高度 The foot bottom spindle center height	mm	990
机床重量 Net weight	kg	约 1500 About 1500

详细配置清单 | DETAILED CONFIGURATION LIST

配件名称 NAME OF ACCESSORIES	规格型号 SPECIFICATION	品牌来源 BRAND SOURCE	备注 NOTES
数控系统 CNC system		南京开通 Opening in Nanjing	可选配广数、凯通帝等系统 It can be equipped with Guangshu, Kandi and other systems
X轴电机 X-axis motor	6NM带刹车 6NM with brake	南京开通 Opening in Nanjing	
Z轴电机 Z-axis motor	10NM 10NM	南京开通 Opening in Nanjing	
伺服主电机 Servo main motor	7.5KW 7.5KW	系统配套伺服电机 Supporting servo motor of the system	
刀架 Tool carrier	6寸中夹卡盘 6inch medium sockl chuck	科普特 Copertone	可选配8寸卡盘 Optional 8-inch chuck
液压力盘 Hydraulic chuck	210W 210W	国产 domestic	
冷却泵 Cooling pump		国产 domestic	
自动润滑系统 Automatic lubrication system	注油泵 Grease pump	国产 domestic	

机床概述 | MACHINE TOOL OVERVIEW

数控机床是数字控制机床 (Computer numerical control machine tools) 的简称, 是一种具有程序控制系统的自动化机床。该控制系统能够逻辑地处理具有控制编码或其他符号指令规定的程序, 并将其译码, 用现代化的数字表示, 通过信息载体输入数控装置。经运算处理后由数控装置发出各种控制信号, 控制机床的动作, 按图纸要求的形状和尺寸, 自动地将零件加工出来。

CNC machine tool is the abbreviation of Computer numerical control machine tools. It is an automatic machine tool equipped with a program control system. The control system can logically process the program specified by the control code or other symbolic instructions, decode it, express it with coded numbers, and input it into the numerical control device through the information carrier. After calculation and processing, the numerical control device sends out various control signals to control the action of the machine tool, and automatically processes the parts according to the shape and size required by the drawing.



T46

详细配置清单 | DETAILED CONFIGURATION LIST

序号 NO.	配件名称 NAME OF ACCESSORIES	规格型号 SPECIFICATION	品牌来源 BRAND SOURCE	数量 QUANTITY	序号 NO.	配件名称 NAME OF ACCESSORIES	规格型号 SPECIFICATION	品牌来源 BRAND SOURCE	数量 QUANTITY
1	主轴 Principal axis	7018TBT8, 7016DB8	ZYS, CSC	1套 1 set	7	液压卡盘 Hydraulic chuck	8寸中空 8-inch hollow	霍力卡等 (选配台湾品牌) Luikka, etc. (Taiwan brand is optional)	1套 1 set
2	直线导轨 Linear guide rail	X35, Z35	HI WIN, PMI, SHAG	1套 1 set	8	集中润滑器 Centralized lubricator	齿轮泵 Gear pump	浙江油泵 Zhejiang Oil Pump	1套 1 set
3	X轴滚珠丝杆 X-axis ball screw	X轴滚珠丝杆 3210 长度 610	HI WIN, PMI, SHAG	1套 1 set	9	数控系统 CNC system	选配 (立式操作屏) Optional (vertical operation screen)	GSK980TC3, K1000TFH	1套 1 set
		Z轴滚珠丝杆 Z-axis ball screw	4010 长度 1225/1210 4010 Length 1225/1210	THK, HIWIN, SHAG			1套 1 set		
4	X轴丝杠轴承 X-axis lead screw bearing	25TAC62B-2RZP4DBB	NACHK CSC	2套 2 sets	10	电气元件 Electrical components	环宇电气 HuanYu Electric	1套 1 set	
5	Z轴丝杠轴承 Z-axis lead screw bearing	25TAC62B-2RZP4DBB	NACHK CSC	2套 2 sets	11	主电机 Main motor	11kw/选配功能性电机 11kw/Optional functional motor	系统自配成套电机 The system is equipped with complete set of motor	1套 1 set
6	刀架 Tool carrier	8工位伺服液压刀塔 8 position servo hydraulic turret	纳率, 联基刀架 Naleng, Lianji tool rest	1套 1 set	12	排屑器 Slitting machine	链式 (选配) Chain type (optional)	国产优质 Domestic quality	外购 Outsourcing

23 机床品质 匠心智造

机床主要参数 | MAIN PARAMETERS OF MACHINE TOOL

项目 ITEM	单位 UNIT	T46	
技术规格 Technical specifications	床身最大工件回转直径 Maximum workpiece rotation diameter of bed	mm	Φ500
	最大加工长度 (一夹一顶) Maximum machining length (one clip and one top)	mm	480
	最大工件长度 (两顶) Maximum length overstroke (two tops)	mm	530
	最大卡前盘类直径 Maximum turning disc class diameter	mm	Φ400
主传动 Main drive	无极变速 Infinite variable speed		
	主电机 The main motor	kw	选配低速大扭矩或更高级别电机 11 Optional low-speed high torque or higher motor 11
	主轴直径 Diameter of main shaft hole	mm	Φ56
	最大材料通过直径 Maximum raw material through diameter	mm	Φ46
尾座装置 Tailstock device	主轴转速范围 Spindle speed range	r/min	50-3000
	尾座套筒直径 Tailstock sleeve diameter	mm	Φ62
	尾座套筒行程 The tailstock	mm	100
	尾座套筒锥孔锥度 Taper of cone hole of ball seat sleeve		莫氏5号
进给系统 Feed system	刀架最大行程横向 (X) Maximum stroke of tool holder transverse (X)	mm	230
	刀架最大行程纵向 (Z) Maximum stroke of tool holder longitudinal (Z)	mm	500
	纵向X轴伺服电机扭矩 Transverse X axis servo motor torque	N.m	130-7.5
	纵向Z轴伺服电机扭矩 Transverse Z axis servo motor torque	N.m	130-7.5
	纵向快速进给 Fast longitudinal feed	m/min	20
	纵向快速进给 Feed longitudinal feed	m/min	20
	定位精度纵向 (X) Positioning accuracy transverse (X)	mm	0.005
	定位精度纵向 (Z) Positioning accuracy longitudinal (Z)	mm	0.005
	重复定位精度纵向 (X) Repeatability positioning accuracy Transverse	mm	0.005
	重复定位精度纵向 (Z) Repeatability positioning accuracy Longitudinal	mm	0.005
	工件加工精度 Workpiece machining accuracy		IT6
	工件表面粗糙度 Workpiece surface roughness		Ra1.6
刀架装置 Tool holder device	伺服刀位架 Servo right position tool rest		
	刀杆截面 Tool rest cross section	mm	25x25
	刀杆杆直径 Diameter of turning tool rod	mm	Φ32
	重复定位精度 Repeatability positioning accuracy	mm	0.005
长宽高 L * W * H	mm	2800*1700*1750	
重量 Weight	kg	3500	

机床特点 | CHARACTERISTICS OF MACHINE TOOL

1. 整体铸铁床身，采用高低轨30°斜式布局，床身布局合理，大木腿高机床机身，抗扭刚度（市场上有分体铸铁床身，床身有分体铸铁床身，铸铁床身等）。
2. 主轴承支撑采用双列滚柱轴承，后支撑采用72系列配对轴承，工艺性好，采用进口专用轴承润滑脂，免维护。
3. 线性导轨，润滑装置，联轴器、轴承等关键功能部件均为知名品牌。
4. 外观设计美观，可靠实用、水电气处理得当。
5. 排屑方便。



STC5052D

一体桁架基本配置 | BASIC CONFIGURATION OF INTEGRATED TRUSS

- 伺服电机驱动：台湾台达
Drive motor drive: Taiwan Delta
- 导轨：定制冷黑技术，确保空段永不生锈20导轨
Guide rail: customized cold black technology to ensure that the empty section will never rust 20 guide rails
- 控制柜：日本三菱
Control cabinet: Mitsubishi
- 人机界面：手持台湾维纶
Man-machine interface: handheld Taiwan viton
- 驱动配置：施耐德ABB
Drive configuration: Schneider ABB
- 联轴器与继电器：施耐德与日本OMRON
Coupling and relay: Schneider and Japan OMRON
- 开关电源：OMRON 日本科泰滤波
Switching power supply: OMRON, Koso filter
- 电话：日本神东
Tel: Wee Burdang, Japan
- 气泵：日本神田
Air pump: Motta, Japan
- 电磁阀：日本SMC韩国TCP台湾气可
Solenoid valve: Japan SMC, Korea TCP, Taiwan Kiko

- 接近开关：日本OMRON
Proximity switch: Japan OMRON
- 油泵：自动微量黄油泵（原标配带泵润滑脂）
Oil pump: automatic micro grease pump (original with grease)
- 料仓：独立料仓式送料，料仓与主机采用
Silo (placed in an independent silo, wood, and the silo and the host machine adopt)
- 总线通信：非标准IO板直接控制，方便后期升级更换（维修机、换动盘、法连转台等）
Bus communication: non-standard IO point is directly controlled, which is convenient for later upgrade and replacement (host, vibrating disk, Falian rotary disk, etc.)
- 桁架主梁：左右4根为无键万管结构（非铝型材固定导轨）
Truss main beam: left and right 4 sets of welding pipe structure (non-aluminum profile fixed guide rail)
- 表面处理：1整体喷砂；2整体磷化；3箱体喷塑（非直接喷漆）
Surface treatment: 1. overall sandblasting; 2. overall phosphating; 3. overall plastic spraying (non direct baking paint)
- 固定螺丝：轻载均为304不锈钢；重载均为12.9级电螺，以阻力值紧固
Fixed screws: 304 stainless steel for light load; All heavy loads are paired with 12.9 grade and fastened with torque value
- 卡料检测：内置安装
Stack detector: built-in installation
- 真空检测：外部安装本设备电源为220V交流；运动时最大功率不能400W 暂停时均无功率输出如有个
Vac. detection: the power supply of the equipment installed externally is 220V AC. The maximum power during movement shall not exceed 400W, and there shall be no power output during suspension. If there are technical changes to individual accessories, no further notice (such as additional configurations)

26 南泰品质 匠心智造

机床主要参数 | MAIN PARAMETERS OF MACHINE TOOL

项目 ITEM	单位 UNIT	规格 SPECIFICATIONS	备注 NOTES
床身上最大回转直径 Swing over bed	mm	Φ500	
滑板上最大回转直径 Maximum turning diameter on sliding plate	mm	Φ300	
主轴端部形式及代号 Type and code of spindle end		A2-8	
主轴通孔直径 Diameter of spindle through hole	mm	Φ82	
主轴最高转速 Maximum spindle speed	r/min	1600	
拉管通孔直径 Diameter of tube drawing through hole	mm	Φ68	配油缸时 With oil cylinder
卡盘 Chuck	寸	10	
主电机 Main motor	KW	15	
XYZ轴快移速度 Rapid traverse speed of XYZ axis	m/min	15/20	
X轴行程 X-axis stroke	mm	380	
Z轴行程 Z-axis stroke	mm	550	
刀架形式 Tool holder form		四工位电动刀架 Four position electric tool rest	标配 Standard configuration
		双刀架 Double tool rest	选配 Optional
刀架 Tool carrier	刀力 Knife square	mm	25x25
	铣刀杆直径 Diameter of money knife bar	mm	Φ32
	机床净重 Net weight of machine tool	kg	约 2800 About 2800
其它 Other	机床外形尺寸(长X宽X高) (不含刀架及手轮) mm (Length X width X height)	mm	2680X1695X1800

机床精度 | MACHINE TOOL ACCURACY

- 本机床精度符合GB/T 25659.1-2010简式数控卧式车床第1部分：精度检验
The accuracy of the machine tool shall comply with GB/T 25659.1-2010 Simple CNC Horizontal Lathe Part 1: Accuracy Inspection
- 检验项目
Inspection items
- 加工精度
Machining accuracy
- 加工工件圆度 (mm)
Roundness of machined workpiece (mm)
- 加工表面粗糙度 (u m)
Roughness of machined surface (u m)
- 重复定位精度: X轴 (mm)
Repetitive positioning accuracy: X axis (mm)
- 重复定位精度: Z轴 (mm)
Repetitive positioning accuracy: Z axis (mm)

机床主要配置 | MAIN CONFIGURATION OF MACHINE TOOL

配件名称 NAME OF ACCESSORIES	规格型号 SPECIFICATIONS	品牌/来源 BRAND/SOURCE	备注 NOTES
数控系统 Cnc system		广数或凯恩帝 Guangshu or Kaindi	选配 Optional
X轴电机 X-axis motor	10NM带抱闸 10NM band type brake	中国 China	选配 Optional
Z轴电机 Z-axis motor	10NM	中国 China	选配 Optional
主电机 Main motor	伺服15KW Servo 15KW	中国 China	
主轴 Principal axis	A2-8		自制 self-control
主轴前轴承 Front bearing of main shaft	NN3024 K P5 W33 NN3024 K P5 W33	KTL KTL	
主轴后轴承 Rear bearing of main shaft	7021 Ac P5 DB8 7021 Ac P5 DB8	KTL KTL	
X轴丝杠 X-axis lead screw	3210 three thousand two hundred and ten	启尖 Tip opening	
Z轴丝杠 Z-axis lead screw	4010 four thousand and ten	启尖 Tip opening	
X轴导轨 X-axis guide rail	滚柱线轨35 Roller rail 35	台湾银泰 Taiwan Yinta	
Z轴导轨 Z-axis guide rail	滚柱线轨45 Roller rail 45	台湾银泰 Taiwan Yinta	
手动卡盘 Manual chuck	10寸 10 inches		标配 Standard configuration
动力卡盘 Power chuck	10寸中空 10 inch hollow	雷力卡 Lailika	选配 Optional
	10寸中空 10 inch Zhonghui	雷力卡 Lailika	选配 Optional
刀架 Tool carrier	四工位电动刀架 (单) Four position electric tool rest (single)	三和文昌 Sanhe/Wenchang	标配 Standard configuration
	四工位电动刀架 (双) Four position electric tool rest (double)	三和文昌 Sanhe/Wenchang	选配 Optional
液压站 Hydraulic station	单路 One way	中国 China	选配 Optional
冷却水泵 Cooling water pump	370W扬程14米 370W, lift 14m	中国 China	标配 Standard configuration
手脉 Hand pulse	外挂手脉 Extraneous hand pulse	中国 China	标配 Standard configuration

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机床概述 | MACHINE TOOL OVERVIEW

数控机床是数字控制机床 (Computer numerical control machine tools) 的简称。是一种装备有程序控制系统的自动化机床。该控制系统能够逻辑地处理具有控制功能的其他符号指令规定的程序，并将其译码，用现代化的数字表示，通过信息载体输入数控装置。经运算处理后由数控装置发出各种控制信号，控制机床的动作，按图纸要求的形状和尺寸，自动地将零件加工出来。

CNC machine tool is the abbreviation of Computer numerical control machine tools. It is an automatic machine tool equipped with a program control system. The control system can logically process the program specified by the control code or other symbolic instructions, decode it, express it with coded numbers, and input it into the numerical control device through the information carrier. After calculation and processing, the numerical control device sends out various control signals to control the action of the machine tool, and automatically processes the parts according to the shape and size required by the drawing.



T65

一体桁架基本配置 | BASIC CONFIGURATION OF INTEGRATED TRUSS

伺服电机驱动：台湾台达
Drive motor drive: Taiwan leadshine G-SERVO
导轨：定制冷黑技术，确保空程永不生锈20号轨
Guide rail: customized cold black technology to ensure that the empty section will never rust 20 guide rails
控制系统：日本三菱
Control system: Mitsubishi
人机界面：手持台湾维纶
Man-machine interface: handheld Taiwan nylon
驱动配置：施耐德ABB
Drive control configuration: Schneider ABB
接触器与继电器：施耐德与日本OMRON
Contactor and relay: Schneider and Japan OMRON
开关电源：OMRON 日本科索滤波
Switching power supply: OMRON, Koso filter
电话：日本东京
Wee: Burding, Japan
气泵：日本神田
Gas pump: Mitsu, Japan
电磁阀：日本SMC韩国TCP台湾气立可
Solenoid valve: Japan SMC, South Korea TCP, Taiwan Cilia

接近开关：日本OMRON
Proximity switch: Japan OMRON
油泵：自动微量黄油泵 (原粗配带美孚润滑油)
Oil pump: automatic micro grease pump (original configuration with Mobil grease)
料仓：独立密封式双仓，料仓与主机采用
Silo: placed in an independent sealed room, and the silo and the host machine adopt
总线通信：非桥式IO板直接控制，方便后期升级更换 (维修机、换刀盘; 法连转台等)
Bus communication: non-bridge IO plate is directly controlled, which is convenient for later upgrade and replacement (repair machine, change tool, vibrating disk, Falian rotary disk, etc.)
桁架主梁：左右Y轴为无缝方管结构 (非铝型材固定导轨)
Truss main beam: left and right Y-axis are of seamless square tube structure (non-aluminum profile fixed guide rail)
表面处理：1整体喷砂; 2整体硝化; 3箱体喷塑 (非直接喷漆)
Surface treatment: 1 overall sandblasting; 2 overall nitriding; 3 overall plastic spraying (non direct painting)
固定螺丝：轻载均为304不锈钢; 重载均为12.9级电螺; 以扭矩值紧固
Fixed screws: 304 stainless steel for light load; All heavy loads are paired with 12.9 grade and torqued with torque value
卡料检测：内置安装
Chip detection: built-in installation
排屑检测：内置安装
Chip detection: built-in installation
真空吸尘：外部安装本设备电源为220V交流; 运动时最大功率不超400W 暂停时均无功率输出如有个
Grab suction: external installation, the power supply of the equipment installed externally is 220V AC. The maximum power during movement shall not exceed 400W, and there shall be no power output during suspension. If there are technical changes to individual accessories, no further notice (such as additional configurations)

21 炯泰品质 匠心智造

机床主要参数 | MAIN PARAMETERS OF MACHINE TOOL

项目 ITEM	单位 UNIT	T65
床身上工件最大回转直径	mm	540/630
托板上最大回转直径	mm	340/420
最大加工长度	mm	550/950
主轴端部形式	GB59001	A2-8
主轴通孔直径	mm	82/90
最大棒料通过直径	mm	67/75
主轴转速范围	R/min	20~2200
主轴换挡方式	Shift mode of main shaft	无级变速 Stepless speed change
主电机功率 (连续值)	main motor power (continuous value)	Kw 11KW/15KW (主轴伺服) 15KW/20KW (主轴伺服)
卡盘形式 (标配/选配)	Chuck type (standard/optional)	液压中实 Hydraulic medium solid
卡盘直径	mm	10寸 (标配) (台湾宝丽) 10 inch (standard configuration) (Taiwan Polaroid)
丝杠	mm	X4010P2-Z4010P2 汉江/X4010C3-Z4010C3 台湾 X4010P2-Z4010P2 Hanjiang/X4010C3-Z4010C3 Taiwan
规格	Wire gauge	重载荷柱结构 (台湾上等) Heavy roller structure (Taiwan Shangting, etc.)
主轴轴承	Main shaft bearing	NTN (日本) /NTN中轴 NTN Japan/NTN center shaft
X/Z轴快速移动	The X/Z axis is moving fast	mm/min 18000/18000
X/Z轴伺服电机扭矩	X/Z axis servo motor torque	n/m 15/11.4
X轴行程	The X axis stroke	mm 320
Z轴行程	The Z axis stroke	mm 600/1000
刀架形式	Tool post form	液压伺服刀架 (台湾品牌) 8工位 (中心高80/100mm) Hydraulic servo tool post (Taiwan brand) 8 stations (center height: 80/100mm)
切刀/W管刀尺寸	Cutter/boring tool dimensions	mm 25/32,40
尾座套筒直径/行程	Tailrest sleeve diameter/stroke	mm 100/120
尾座形式	The ballstock form	液压 Hydraulic pressure
尾座套筒锥度	Taper of ballstock sleeve	莫氏5号 Morse No.5
排屑形式 (另购)	Chip removal form (purchased separately)	可选 Optional
机床重量	Machine weight	吨 (Ton) 7560约 4.71/7500约 5.4T (含排屑机) 7560 about 4.71/7500 about 5.4T (including chip conveyor)
机床尺寸	Machine size	长 (不带排屑机) x宽x高 3200/3800*1800*220

* 数控系统可选配，如技术变更请致电咨询。CNC system is optional. Please call for details if there is any technical change.