

TC40A Drilling & Tapping Center

TC40A钻攻中心



 **新誉集团**
New United Group

SHINRI® **新瑞**

江苏新瑞重工科技有限公司
JIANGSU SHINRI HEAVY INDUSTRY SCIENCE & TECHNOLOGY CO., LTD.

Main Feature

主要特点

- ☑ 采用国内外先进技术设计制造的高性能数控机床，结构性能成熟稳定，外购配套件的选用与国际先进水平保持一致。
- ☑ 整机结构经FEM有限元分析，可保证最佳的刚度与稳定性；铸件采用树脂砂铸造，经时效处理，可充分消除内应力，以保证良好的精度保持性。
- ☑ 三轴传动均采用进口FANUC交流伺服电机，通过联轴器直接驱动滚珠丝杠，可确保机床在加工时的快速响应和平稳切削。
- ☑ 主轴轴承选用日本NSK，主轴锥柄BT30，可满足粗加工和精加工的工艺需要。
- ☑ 机床润滑系统采用集中润滑泵供油，对各个润滑点（如导轨、滚珠丝杠）进行定时定量润滑；另外，润滑泵站还具有压力和液位监测报警功能，通过电气系统控制，实现全自动集中润滑。
- ☑ 机床气动系统由气源处理元件、控制阀和执行元件组成，设有压力检测开关，通过数控系统对机床系统压力进行监控。



- ☑ The high performance CNC machine tool designed and manufactured by domestic and oversea advanced technology features mature structure and stable performance. The selection of outsourcing accessories is consistent with the international advanced level.
- ☑ The whole machine structure analyzed by FEM can ensure the best rigidity and stability. The parts produced by resin sand casting and aging treatment with less residual stress relieving, which can ensure good precision maintenance.
- ☑ The three-axis drive adopt imported FANUC ac servomotor, which drive the ball screw through coupling directly and ensure quick response and cutting smooth during operation.
- ☑ Spindle bearing adopts Japan NSK and spindle taper shank BT30, which can satisfy the requirement of the roughing and finishing process.
- ☑ The machine tool lubrication system using concentrated oil-supplied lubrication pump lubricate the oiling point (guide, ball screw) regularly and quantitatively; in addition, the lubrication pump station has the pressure and liquid level monitoring alarm function, can realize the automatic centralized lubrication through the electrical system control.
- ☑ The machine tool air-operated system consists of gas processing components, control valves and executive components, with pressure detection switch, monitor the pressure of the machine system through the CNC system.



☑ 性能 **稳定**

☑ 配套 **先进**



快速响应



国内外领先



安全保障



Main Specifications

主要规格

规格	技术参数	单位	TC40A
工作台 Worktable	工作台尺寸 Worktable dimension	mm	650 × 400
	最大承载重量 Max.load	kg	300
	T型槽 T-slot	mm	3-18 × 125
行程 Travel	X轴 X axis	mm	500
	Y轴 Y axis	mm	400
	Z轴 Z axis	mm	330
	工作台表面至主轴端面 Distance from worktable to spindle nose	mm	150~480
	主轴中心到Z轴导轨防护罩 Distance from spindle center to guideway guard of Z axis	mm	435
	主轴中心至外防护前端内侧最小距离 Min.distance from spindle center to the inside of front guard	mm	650
主轴 Spindle	主轴转速 Spindle speed	rpm	50 ~ 20000
	主轴扭矩 Spindle torque	N.m	7
	主轴电机 Spindle motor	kw	2.2/3.7(a2i)
	锥孔 Taper hole		MAS BT30
进给速度 Feed rate	X/Y/Z轴快移速度 X/Y/Z axis rapid feed rate	m/min	48
	X/Y/Z轴进给速度 X/Y/Z axis feed rate	m/min	20
	X/Y/Z进给轴电机 X/Y/Z feed axis motor	kw	X、Y: a8is; Z: a12is
刀库 Tool magazine	刀柄型式 Shank type		MAS BT30
	拉钉型式 Pull stud type		MAS P30T- I
	刀具容纳数 Magazine capacity	把	21
	刀具最大直径(满刀) Max.tool diameter(adjacent pots full)	mm	Φ50
	刀具最大直径(临空刀) Max.tool diameter(empty)	mm	Φ80
	刀具最大长度 Max.length of tool	mm	110
	刀具最大重量 Max.weight of tool	kg	3kg
	换刀时间 Tool change time	秒	1.9
控制系统 Control system			标配FANUC-0i-MF
精度 Accuracy	X/Y/Z轴定位精度 X/Y/Z axis positioning accuracy	mm	X/Y/Z轴:0.010
	X/Y/Z轴重复定位精度 X/Y/Z axis repeatability	mm	X/Y/Z轴:0.006
机床重量 Overall dimension	占地尺寸(带排屑器) Floor occupation(Including chip conveyor)	mm	1650x2350x2500
	重量 Weight	T	2.8
机床动力源 Power supply	压缩空气压力 Pneumatic pressure	Mpa	0.5~0.8
	压缩空气耗气量 Pneumatic air consumption	L/min	280
	电源 Power		3相 AC380V, 50/60Hz, 10kVA



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