



YT5140CNC/YS5140CNC型 数控插齿机

CNC Gear Shaping Machine Model YT5140CNC&YS5140CNC



主要特点:

Main features:

● 本机床为按连续分度法工作的六轴三联动数控高速插齿机，六轴分别是：径向进给运动（X轴）、刀架滑板垂直运动（Z轴）、冲程长度调整（W轴）、曲柄回转运动（B轴）、工作台圆周运动（C2轴）、刀具主轴圆周运动（C1轴）。机床具有1000次/分钟的冲程速度和精确的宽范围圆周进给量及径向进给量，采用新颖可靠的刀架滑板。通过简单编程能实现多种循环方式，机床刚性

好，结构新，功能齐全，安全可靠。
the machine is six axes CNC gear shaping machine with four linkages. The six axes are: radial feeding (X axes), spindle moving up and down (Z axes), stroke length adjustment (W axes), spindle stroke moving (B axes), worktable rotation (C2 axes) and cutter rotation (C1 axes). This tool has 1000 times/minute of stroke speed, accurate wide range of circle feeding number and radial feeding number. It adopts new and credible cutter rest board. It can realize many ways of cutting circulation by simple programmes. The rigidity of the machine is good. The structure is new and functions are perfect. It is safe and reliable.

● 高刚性大件采用高密度灰铸铁、双层壁管状构造
The big workpiece is using the high rigidity ash cast iron with high consistency and tube with double wall

● 刀架球头采用金属陶瓷球头
The ball coupling of spindle adopts the metal ceramic.
大直径刀具主轴
big size spindle
大直径高精度滚珠丝杆
Ball guide screw of large diameter and high efficiency

● 高精度
High efficiency
刀架结构采用静压轴承和静压导轨

static hydraulic spindle and spindle rest.

高精度双导程变厚蜗轮副

Double thread heavy worm wheel with high precision

床身底部冷却循环，热稳定性好

cooling circulation is flow via the bottom of the machine, the thermal balance is good.

● 柔性化

Flexibility

采用刀架滑板，增大了加工范围，使卡车等重载齿轮多部位齿能够一次装夹加工

Knife rest board enlarges the range of the machining which can make the heavy loaded gear such as truck nip be processed at the first time

刀具采用碟簧夹紧，液压松开

The cutter is clamped with dish spring and loosened with hydraulic pressure

刀具冲程长度可自动调整

The stroke length of the cutter can be automatic adjustment

● 适用于卡车及工程机械等重载齿轮，较深的内齿轮

It is used in heavy loaded gear and rather deep inside gear of truck and engineering framework

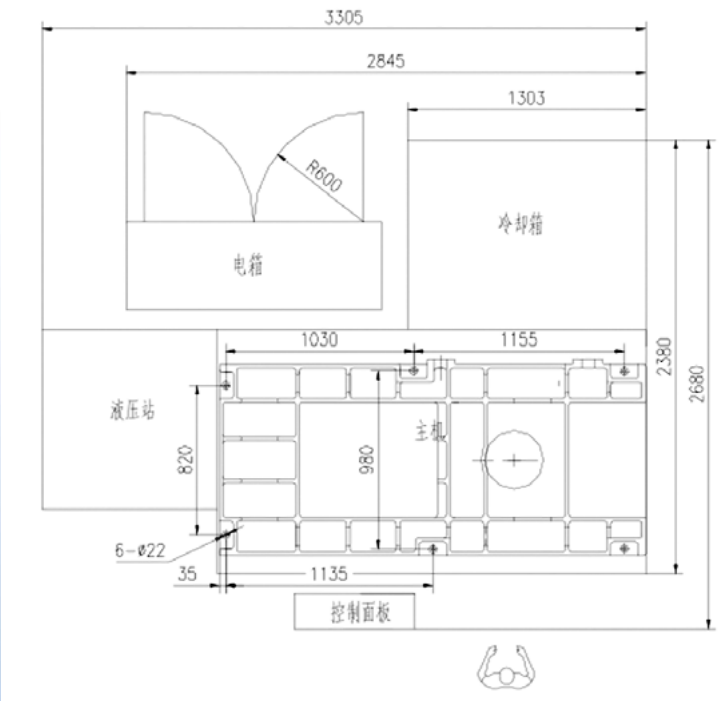
主要技术参数

Main specifications:

外齿轮最大直径	The maximal diameter of extend gear	mm	400
内齿轮(最大直径 400)	Inner gear (The max diameter is 400)	mm	250+d刀
最大模数	The maximal module	mm	8
最大行程长度	The maximal stroke length	mm	100
最大加工齿宽	The maximal gear width of machining	mm	85
最大切削力	The maximal power of the cutting	kgf	700
刀具主轴直径	The diameter of the cutter spindle	mm	100
刀架滑板行程长度	The travel of the cutter carriage	mm	200
主轴冲程速度（无级）	The stroke speed of spindle(variable)	str/min	100~1000
主轴电机功率	Main motor	Kw	11
数控系统	Numerical control system		SIEMENS840D

机床平面布置图

Machine layout:



规格、参数若有改变，恕不另行通知，客户如有特殊要求，敬请垂询。
All the specifications are subject to revision without notice in advance .Please contact the manufacturer for special request on the machine .

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