



YN3180CNC型 数控滚齿机

CNC Gear Hobbing Machine Model YN3180CNC



主要特点：

Main features

YN3180CNC型数控滚齿机为六轴数控滚齿机，数控轴分别为：径向进给轴（X轴）；轴向进给轴（Z轴）；切向运动轴（Y轴）；工作台回转轴（C轴）；滚刀主轴回转轴（B轴）；刀架转角回转轴（A轴）。机床可同时实现四轴联动控制。机床以电子齿轮箱代替传统滚齿机的各种交换挂轮，传动刚性好、精度高、操作调整快速方便。机床配有参数化编程专用软件。

机床刀具主轴电动机安装在刀架滑板上，经过高精齿轮副传至滚刀主轴，提高了传动精度，并增加了相关的传动特性和传动刚性。立柱导轨副采用了支承能力大、抗震性好的矩形大平面注塑镶钢淬硬导轨。床身等基础构件均采用双层壁机构，机床采取了良好的热平衡措施。先进的设计使整机具有充裕的刚性和稳定性，可满足最大至16模数的直齿、斜齿、小锥度、鼓型齿轮的高效率、高精度切齿加工。

本机床具有完善的故障监测、安全环保功能。

The Model YN3180CNC is 6-Axes CNC Gear Hobbing Machine with the following 6 axes working under the CNC control: X-axis for the radial feed, Z-axis for the axial feed, Y-axis for the tangential movement, C-axis for the worktable revolution, B-axis for the hob spindle revolution and A-axis for the hob head swiveling. Four axes can be moved simultaneously under control. The electronic gearbox is used to replace conventional change gears on the machine. The machine features in rigid transmission, high machining accuracy and easy-to-operate. The machine is provided with a special software for parameterized programming.

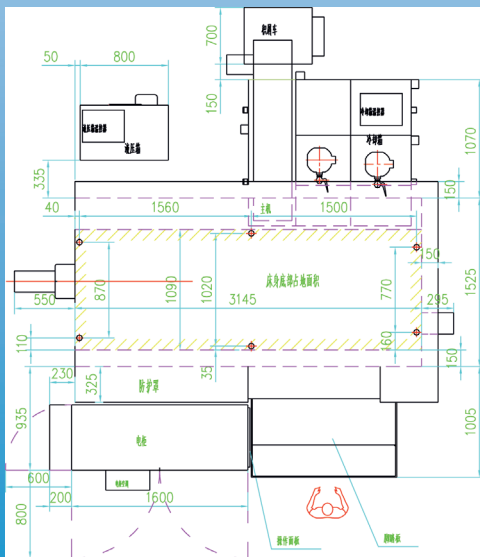
The drive to the hob spindle is transmitted from a spindle motor (mounted on the hob head slide) via high-precision gear pairs, thus improving the transmission accuracy and strengthening the relevant transmission characteristics and the transmission rigidity. The ample rectangular guideways on the column are inserted with steel strips and hardened. Their matching slideways are coated with Teflon. Such a guideway pair features in heavy bearing capacity and good resistance against vibration. The machine bed and the like structural members are of double-wall design. The excellent heat balance measure and the up-to-date design assure the machine with sufficient rigidity and stability, enabling the machine to undertake high-production and high-precision gear-cutting operation on straight gear teeth, helical gear teeth, little tapered gear teeth and crowned gear teeth, all with a max. module of 16mm.

The machine is equipped with a perfect trouble detection function, the safety function and the environmental protection function.

机床主要参数:

最大加工直径	Max. diameter to be hobbled	mm	800
最大加工模数	Max. module to be hobbled	mm	16
最大加工螺旋角	Max. helix angle	度	± 45
可安装滚刀最大直径	Max. hob diameter. to be mounted	mm	220
可安装滚刀最大长度	Max. hob length to be mounted	mm	220
滚刀最大轴向移动量	Max. hob shift in the axial direction	mm	200
滚刀主轴锥孔	Bore of the hob spindle		NT50
滚刀中心到工作台中心水平距离	Horizontal distance from the hob center to the worktable center	mm	90—470
滚刀中心到工作台台面垂直距离	Vertical distance from the hob center to the worktable	mm	200—850
后立柱顶尖到工作台台面距离	Distance from the tailstock center to the worktable	mm	750—1300
工作台台面直径	Diameter of the worktable	mm	650
工作台台面至床身底面距离	Distance from the worktable surface to the bottom of the machine bed	mm	1225
滚刀主轴转速范围（无级）	Hob spindle speeds, infinitely variable	rpm	60—500
工作台转速范围	Worktable speeds	rpm	1—20
轴向进给速度范围	Axial federates, infinitely variable	mm/min	1—1000（无级）
轴向快速移动速度范围	Axial rapid travel speeds, infinitely variable	mm/min	1000—3000（无级）
径向进给速度范围	Radial federates, infinitely variable	mm/min	1—1000（无级）
径向快速移动速度范围	Radial rapid travel speeds, infinitely variable	mm/min	1000—3000（无级）
切向运动速度	Tangential federate	mm/min	960
刀架回转速度	Swiveling speed of the hob head slide	度/秒	3
主轴电机功率	Power of the main drive motor	KW	15
电气总容量	Total power consumption	KW	58.85
机床体积（长×宽×高）	Overall dimensions (L×W×H)	cm	385×355×370
机床净重	Net weight, approx.	kg	约20000

Foundation Plan



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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