



YX3120CNC /YX3132CNC /YX3140CNC型 数控高效滚齿机

CNC High-production Gear Hobbing Machine Model YX3120CNC /YX3132CNC/YX3140CNC



主要特点：

Main features:

● 本机床为五轴数控滚齿机，分别为：径向进给轴(X轴)；轴向进给轴(Z轴)；滚刀主轴回转轴(B轴)；工作台回转轴(C轴)，切向进给轴(Y轴)。

The Model YX3120CNC, YX3132CNC and YX3140CNC are CNC High-Production Gear Hobbing Machines with the following 5 axes working under the CNC control: Radial feed axis (X-axis), axial feed axis (Z-axis), hob spindle rotation axis (B-axis) and worktable rotation axis (C-axis), hob shifting (Y axis).

● 主运动由安装在刀架上的交流主轴电机经过三对高精度圆柱齿轮传至滚刀主轴，主轴电机功率为11KW或15KW，能承受较大的切削力，可使用多头滚刀进行大进给量滚削加工。

The main drive to the hob spindle is transmitted from an AC main drive motor (mounted on the hob head) via 3 high-precision cylindrical gear pairs. The main drive motor has a power of 11KW or 15KW it can beared great cutting force. A multi-lead hob can be used on the machine to make heavy cut.

● 主要导轨副采用了矩形大平面导轨且移动面注塑的工艺方法，滚珠丝杆传动，传动刚性好，支承能力大，运动直线度高。采用立柱上的平衡油缸与滚珠丝杆共轴的新结构，使得刀架滑板上下运动时能够更好地平衡。

The major guideway pair is composed of wide rectangular guideways and Teflon-coated slideways. The ballscrews are rigid in transmission, great in actuating capacity and high in linear movement

accuracy. The counter-balance cylinder on the column is coaxial with the ballscrew, thus making it possible for the hob head slide to move up and down in better balance.

● 标准配置采用FANUC Oi+EGB数控系统，配有与电脑相连的传输接口(RS232C)。

As a standard collocation, the machine is equipped with a Fanuc Oi+EGB control system and a communication interface RS232C for connection with a personal computer.

● 本机床除可加工圆柱直齿轮、斜齿轮、短花键轴、链轮、蜗轮等外，还可以加工多种锥度齿、鼓形齿等特殊齿形的齿轮。

These machines are designed for cutting cylindrical gears, helical gears, short spline shafts, sprockets and wormwheels. These machines are also capable of cutting various little tapered teeth gears, crowned teeth gears and gears with special tooth profiles.

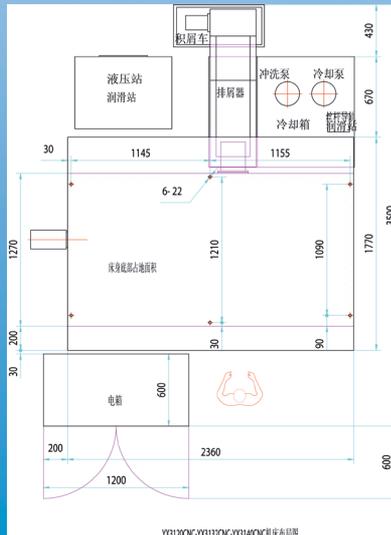
● 本机床特别适用于重型汽车、工程机械等大批大量生产齿轮的企业，也适用于小批量、多品种生产齿轮的企业。

These machines are well-suited for batch and mass production of gears in the heavy-duty automobile, construction machinery industries, but also well-recommended for small batch production of different gears in the gear-making enterprises.

机床主要参数: Main technical specifications

主要规格:	Main specifications:	YX3120CNC	YX3132CNC	YX3140CNC	
最大工件直径×最大模数	Max. dia. of the jobs×max. module	Φ200×6	Φ320×8	Φ400×10	mm
加工范围:	Machining capacity:				
最大工件直径	Max. diameter of the workpiece	Φ200	Φ320	Φ400	mm
最大模数	Max. module	6	8	10mm	mm
加工斜齿轮螺旋角	Max. helix angle	±45	±45	±45	度
尺寸规格:	Size specifications:				
可安装滚刀最大直径	Max. hob diameter to be fitted	170	170	170	mm
可安装滚刀最大长度	Max. hob length to be fitted	220	220	220	mm
滚刀最大轴向移动量	Max. hob-shift in the axial direction	180	180	180	mm
滚刀可换芯轴直径(各提供一根)	Diameters of hob arbours (each 1)	27, 32, 40	27, 32, 40	27, 32, 40	mm
滚刀主轴锥孔锥度	Cone of the hob spindle bore	SK50	SK50	SK50	
滚刀中心到工作台中心水平距离	Distance from the hob center to the worktable center	60~300	60~300	60~320	mm
滚刀中心到工作台台面垂直距离	Vertical distance from the hob center to the worktable	210~560	210~560	210~560	mm
后立柱顶尖到工作台台面距离	Distance from the tailstock center to the worktable	320~680	320~680	320~680	mm
工作台台面直径	Worktable diameter	250	350	400	mm
工作台定心直径	Worktable bore	140	140	140	mm
工作台台面至床身底面距离	Distance from the worktable surface to the bottom of the machine bed	1100	1100	1100	mm
滚刀主轴最高转速	Hob spindle speeds	700(无极)	700(无极)	700(无极)	rpm
轴向进给速度范围(Z轴)	Axial feedrates (Z-axis)	1~1000	1~1000	1~1000	mm/min
轴向快速移动速度范围(Z轴)	Axial rapid travel speeds (Z-axis)	1000~2400	1000~2400	1000~2400	mm/min
径向进给速度范围(X轴)	Axial feedrates (X-axis)	2~1000	2~1000	2~1000	mm/min
径向快速移动速度范围(X轴)	Axial rapid travel speeds (X-axis)	1000~4000	1000~4000	1000~4000	mm/min
切向运动最大速度	Max. speed of Tangential movement	960	960	960	mm/min
工作台最大转速范围	Max. running speed of the worktable	30	30	30	rpm
刀架回转速度	Swiveling speed of the hob head slide	0.9	0.9	0.9	度/秒
总容量	Total	约35	约35	约40	kw
主轴电机(B轴)	Main drive motor (B-axis)	11	11	15	kw
轴向进给交流伺服电机(Z轴)	AC servo motor for the axial feed (Z-axis)	4	4	4	kw
径向进给交流伺服电机(X轴)	AC servo motor for the radial feed (X-axis)	4	4	4	kw
工作台交流伺服电机(C轴)	AC servo motor for the worktable (C-axis)	7	7	7	kw
切向进给交流伺服电机(Y轴)	Servo motor for the hob shifting (Y-axis)	1.8	1.8	1.8	kw
机床体积(长×宽×高)	Overall dimensions (L×W×H)	289×210×262	289×210×262	289×210×262	Cm
机床净重	Net weight, approx.	约12000	约12000	约12000	kg

安装基础图 Foundation Plan



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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