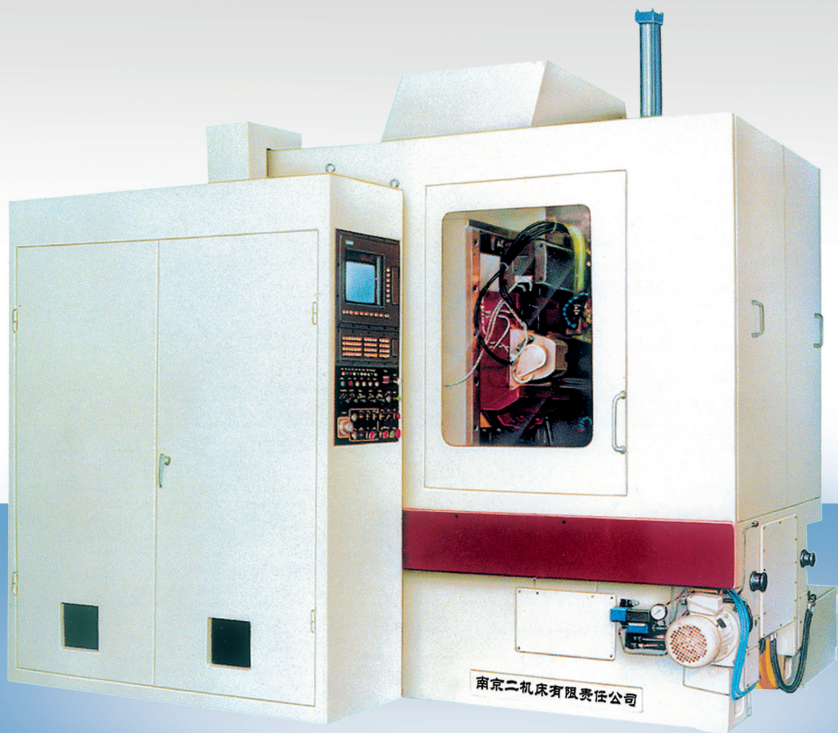




YS3120CNC/ YS3132CNC 型 数控高速滚齿机

CNC High-speed Gear Hobbing Machine Model YS3120CNC/YS3132CNC



主要特点:

Main features

本机床为六轴数控高速滚齿机，六个数控轴分别为：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)；刀架回转轴(A轴)。The machine are CNC High-speed Gear Hobbing Machines with the following 6 axes working under the CNC control: Radial feed axis (X-axis), axial feed axis (Z-axis), hob spindle running axis (B-axis), worktable running axis (C-axis) and cutter carriage swivel (A axis).

● 主要结构件均采用双层壁结构、结构刚性好。刀架交流主轴电机直接安装在刀架上，经过三对高精度圆柱斜齿轮传至滚刀主轴，大大降低了传动误差，提高了传动精度及传动刚性。刀架自动转角后，按五点布置的夹紧机构将刀架体紧紧的锁紧在滑板上。

The major structure members are of double-wall design to ensure a nice rigidity; The AC spindle motor is directly mounted on the hob head, and the drive is transmitted to the spindle via three pairs of high-precision cylindrical helical gears, thus minimizing the transmission error and improving the accuracy and rigidity of the transmission. When the hob head is swiveled to a desired angle, it is firmly clamped on the hob slide by the five-point clamping system.

● 溜刀滑板采用多点液压缸夹紧，并且刀架悬伸长度短，使刀架具有良好的整体刚性。具有刀具自动夹紧装置，刀具交换快速、方便。

The automatic tool clamping device has enabled the machine to perform a quick and rapid tool-changing operation. The hob shifting plate is hydraulically clamped at multi-points. The hob head has a short suspension length which provides a high body rigidity.

● 工作台采用大直径、高精度圆柱齿轮转动，并采用高精度、高刚度滚动轴承支承。

Big-diameter and high precision cylindrical gears are adopted in the transmission chain and supported by high-precision and high-rigidity bearings from overseas.

● 主要导轨副均采用矩形大平面注塑镶钢淬硬导轨，抗振性好，支撑力大，运动精度高，精度保持性好。

All major slideways, featured in perfect vibration resistance, strong bearing power, high guiding accuracy consistency, are designed in large rectangular shape, inserted with steel strip, hardened and coated with Teflon.

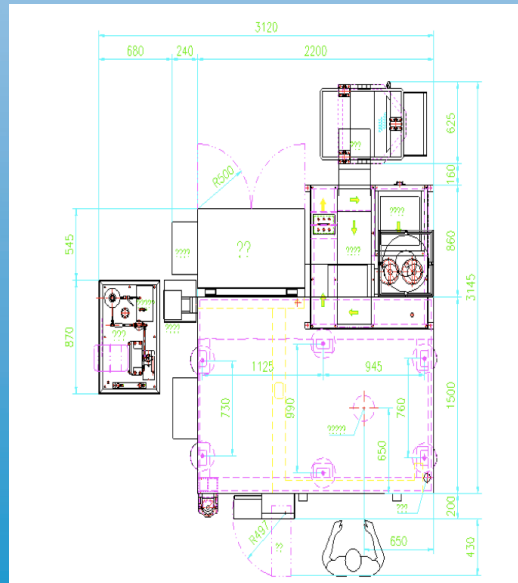
● 机床具备完善的故障监测，安全保护功能。

The machine is equipped with a reliable trouble locating system and thoughtful Safety protection facilities

机床主要参数: Main specification:

			YS3120CNC	YS3132CNC
最大工件直径	Max.dia.of workpiece	mm	200	320
最大模数	Max.module	mm	6	8
最大加工宽度	Max.face width	mm	200	200
加工斜齿轮螺旋角	Helix angle	deg	± 45	± 45
加工齿数范围	NO.of teeth	tooth	4~200	4~200
可安装滚刀最大直径	Max.dia.of hob	mm	140	160
可安装滚刀最大长度	Max.length of hob	mm	230	230
滚刀最大轴向移动量	Max.hob shift	mm	170	170
滚刀可换芯轴直径	Dia.of hob arbors	mm	27/32/40	27/32/40
滚刀主轴锥孔锥度	Inner taper of hob spindle bore		Sk40	Sk40
滚刀中心到工作台中心水平距离	Distance form center of hob to center of worktable	mm	30~250	30~250
滚刀中心到工作台面垂直距离	istance form center of hob to surface of worktable	mm	180~430	175~425
工作台台面直径	Dia.of work surface	mm	200	320
工作台孔径	worktable bore	mm	65	100
工作台台面至床身底面距离	eight from worktable surface to bottom of machine base	mm	965	970
后立柱顶尖到工作台面距离	Distance form tailstock center to worktable surface	mm	327~747	322~742
滚刀主轴转速范围(B轴)	Rotating speed of hob spindle(axis B)	rpm	1~800	1~800
轴向进给速度范围	Axial feedrate(axisZ)	mm/min	1~1000	1~1000
轴向快速移动速度范围	Axial rapid travel speed	mm/min	2000~6000	2000~6000
径向进给速度范围(X轴)	Radial feedrate(axis X)	mm/min	1~1000	1~1000
轴向快速移动速度范围	Axial rapid travel speed	mm/min	3000~6000	3000~6000
切向运动速度(Y轴)	Hob shifting speed(axis Y)	mm/min	3000	3000
工作台转速范围(C轴)	Rotating speed of worktable(axis C)	rpm	1~150	1~120
刀架回转速度(A轴)	Swiveling speed of worktable(axis A)	deg/s	4.5	4.5
刀具主轴电机功率(B轴)	Motor for hob spindle(asix B)	kw	9	9
工作台交流伺服电机功率(C轴)	AC servo motor for worktable(axis C)	kw	6.28	6.28
轴向进给交流伺服电机功率(Z轴)	C servo motor for axial movement(axis Z)	kw	4.55	4.55
径向进给交流伺服电机功率(X轴)	AC servo motor for radial movement(axis X)	kw	5.65	5.65
切向进给交流伺服电机功率(Y轴)	AC servo motor for tangential movement(axis Y)	kw	2.3	2.3
刀架回转交流伺服电机功率(A轴)	AC motor for hob head swiveling(axisA)	kw	1.1	1.1
液压电机功率	Motor for hydraulic system	kw	3	3
冷却电机功率	Motor for cooling system	kw	0.45	0.45
机床净重	Net weght	kg	约9800	约9800

机床安装基础图 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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