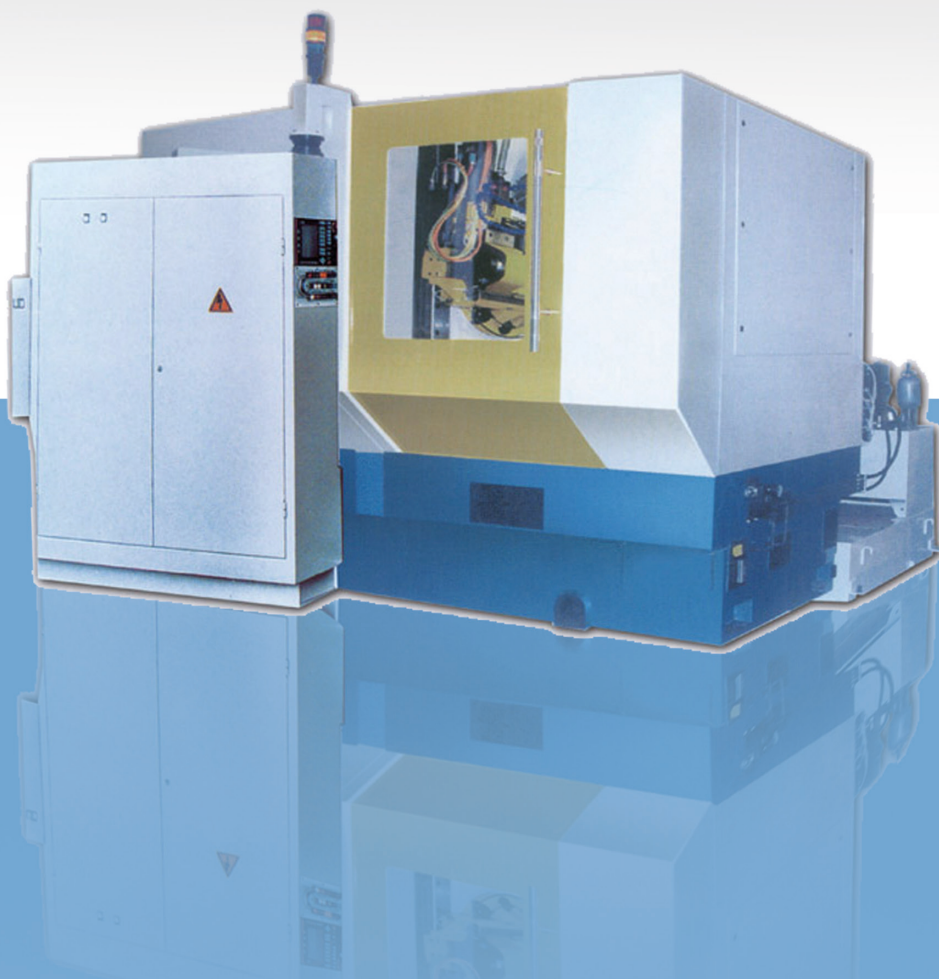




南京二机齿轮机床有限公司
NANJING NO.2 MACHINE TOOL WORKS

YS3140CNC/YS3140CNC/4型 数控高速滚齿机

CNC Gear Hobbing machine model YS3140CNC /YS3140CNC/4



主要特点：

Main features

机床采用西门子840DSL数控系统，YS3140CNC为六轴数控（立柱径向进给、轴向进给、滚刀旋转、工作台旋转、刀架回转及切向窜刀）；YS3140CNC/4为四轴数控（立柱径向进给、轴向进给、滚刀旋转及工作台旋转）。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、操作调整非常方便。机床配有参数化编程专用软件。

机床刀具主轴与工作台主轴均采用滚动轴承支承，圆柱齿轮副传动，立柱导轨采用支承力大，抗震性好的注塑镶钢滑动导轨。为保证加工精度，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及稳定的精度，可满足最大至12模数齿轮的高效率、高精度切齿加工。

The model YS3140CNC is a high-speed gear hobbing machine with six axes controlled, By b siemens 840DSL system. The six working axes are respectively radial feed of Column ,axial feed of hob head ,cutter spindle rotation ,worktable rotation ,hob head swivel and tangential hob shifting. (radial feed of column,axial feed of hob head,cutter spindle rotation and worktable rotation). Exchange gears adopted on old gear hobbing machines are now replace by electronic gear boxes, and therefore the machines is featured in nice transmission rigidity ,high working accuracy and very easy setting-up and operation

The cutter spindle and worktable spindle are supported by rolling bearings and actuated by cylindrical gear pairs. Sliding guide ways of column are of steel material and coated with Teflon and therefore features in ample bearing force and nice vibration resistance. To guarantee the machine's cutting accuracy, heat-exchange measures have been taken to create a the machine is high in working rigidity and Stable in cutting accuracy and can perform high-efficiency and high-precision cutting operations for gears with a module up to 12.

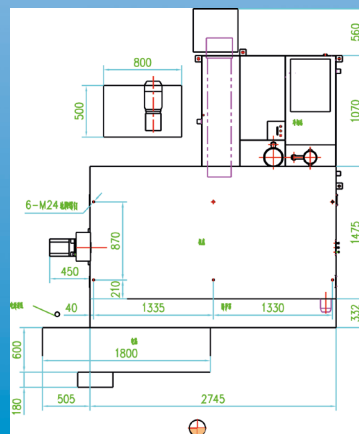
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机床主要参数: Main specification:

序号 No.			YS3140CNC	YS3140CNC/4
1	最大加工直径 Max. diameter to be cut	mm	400	400
	最大加工模数 Max. module of workpiece	mm	12	12
2	滑板行程长度 Travel length of hob head silde	mm	400	400
3	最大加工螺旋角 Max.helix angle to be cut	deg.	± 45°	± 45°
4	可安装滚刀最大直径 Max.diameter of hobbing cutter	mm	170	170
5	可安装滚刀最大长度 tMax.length of hobbing cutter	mm	220	220
6	滚刀最大窜刀行程 Max.diameter of hobbing cutter	mm	180	180
7	滚刀主轴锥孔 Max.hob shift length		SK50	SK50
8	滚刀中心到工作台中心水平距离 Inner taper of spindle bore	mm	60~310	60~310
9	滚刀中心到工作台面垂直距离 Distance form hob center to worktable center	mm	180~580	180~580
10	后立柱顶尖至工作台面距离 Distance form hob center to worktable surface	mm	280~780	280~780
11	工作台面直径 Distance form tailstock center to worktable surface	mm	400	400
12	工作台面至床身底面距离 Diameter of worktable face	mm	1210	1210
13	滚刀主轴转速 (无级) Distance form worktable face to machine base	rpm	60~800	60~800
	工作台最高转速 Cutter spindle speed	rpm	100	100
15	径向进给速度 Max.rotation speed of worktable	mm/min	1~1000	1~1000
16	径向快速行程速度 Radial federate	mm/min	3000	3000
17	轴向进给速度 Rapid radial feedrate	mm/min	1~1000	1~1000
	轴向快速行程速度 Axial federate	mm/min	3000	3000
18	切向快速行程速度 Rapid tangential travel speed	mm/min	960	360
	刀架转角速度 Hob head swivel speed	degree/ sec	3	0.9
19	主电机功率 Power of main drive motor	kw	15	15
	电气总容量 Total power capacity of machine	kw	58.75	57.65
20	机床净重 Net weight of machine	kg	15000	15000
	数控轴数 Number of controlled axes		6	4

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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