



YN5132CNC型 数控插齿机

CNC Gear Shaping Machine Model YN5132CNC



主要特点：

Main features

1、YN5132CNC 数控插齿机是以刀架摆动实现让刀运动、立柱移动做径向进给、立柱部件左右偏移实现斜向让刀的纵向布局四轴三联动数控插齿机。其控制轴为：X轴—径向进给运动，B轴—刀具回转运动，C轴—工件回转运动，采用变频调速电机，实现主运动的无级调速。

The model YN5132CNC is a 4-Axes CNC Gear Shaping Machine. Any three of its 4 axes can be moved simultaneously. The machine is designed in a longitudinal placement. The back-off motion of the cutter is completed by swinging the cutter head. The radial feed is effected by moving the column. And the column assembly can be offset to the left or right to allow for the oblique back-off motion of the cutter. The X-axis is for controlling the radial feed. The B-axis is for controlling the revolving motion of the cutter. And the C-axis is for controlling the revolving motion of the workpiece. The main drive is transmitted at an infinitely variable speed from a frequency-controlled motor

2、YN5132CNC 数控插齿机采用FANUC—0I—MD数控系统，机床X、B和C轴均由独立交流伺服电机驱动，能实现X轴、B轴和C轴的联动加工。

The CNC Gear Shaping Machine Model YN5132CNC works under the control of a FANUC-0I-MD CNC system. The drive to the X, B- & C-axis is transmitted from their respective AC servo motors. The said 3 axes can be moved simultaneously in the cutting operation.

3、本机床实现参数化编程，易学易用的人机界面，操作调整极为方便。

The machining program can be edited by the parameterized programming method. And the machine can be set up and operated through an easy-to-operate man-and-machine interface.

4、本机床安全可靠、传动链短、运动平稳、刚性好、生产率高、噪音低。

The machine features in reliable performance, short transmission chain, smooth running, high rigidity, high productivity and less noise.

5、YN5132CNC 数控插齿机采用圆盘插齿刀，通过连续分齿的方法插削圆柱形直齿盘状齿轮、多联齿轮、内外齿轮、扇形齿轮和扇形齿等。

The Model YN5132 works by using a rotary gear-shaping cutter and is designed for cutting cylindrical straight disc-gears, duplex gears, internal & external gears and segment gears. Upon customers' request, the machine can be equipped with special attachments for cutting rack bars, shaft gears, helical gears, little tapered gear teeth and crowned gear teeth.

6、根据用户需要，可配置特殊附件，用来加工齿条、连轴齿轮、斜齿轮、小锥度齿轮和鼓形齿轮等。

Due to its versatile functions and wide adaptability, the present machine is well-suited for batch and mass production of gears

7、本机床功能全、适应性广，不但适用于汽车、拖拉机等专业齿轮厂的成批和大批量生产，同时也适用于机床和其它机械行业的小批量和单件生产。

in the automobile, tractor and special gear-manufacturing industries, and also well-recommended for small-batch and job lot production of gears in the machine tool and other machine-building industries.

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控制系统功能:	Functions of the control system
FANUC-0I-MD数字驱动技术、LCD显示	Digital drive technology of the FANUC-0I-MD system and LCD display
参数编程	Parameterized programming
标准通讯接口	Standard communication interface
伺服轴手动调整	Manual adjustment of the servo-controlled axes
加程序的存储与调用	Storage and call of machining programs
手动调整用独立安装手轮	An independent handwheel for manual adjustment
故障自诊断、安全联锁保护	Self-diagnosis of troubles and interlock safety protection

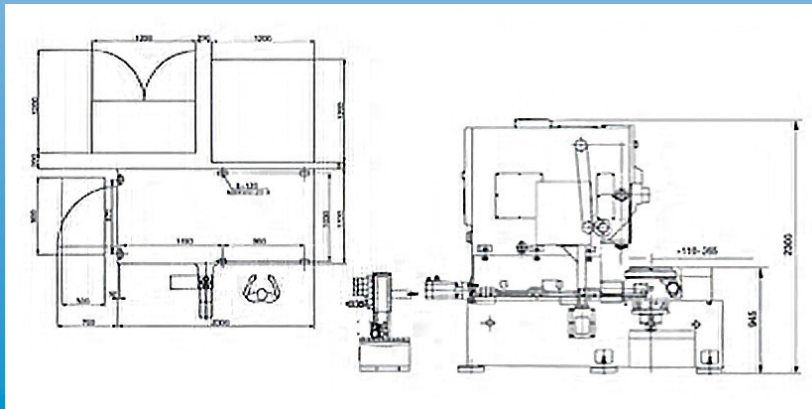
标准配置:	Standard collocation	选购配置:	Optional attachments
主机	Basic machine	SIEMENS 828D控制系统	SIEMENS 828D control system
液压系统润滑系统	Hydraulic system & lubrication system	工件夹具	Workholding fixture
FANUC-0I-MD控制系统	FANUC-0I-MD control system	特殊刀具芯轴	Special cutter arbours
恒温控制的电箱	Air-conditioned control cabinet	螺旋导轨、后立柱	Helical guideway & counter column
冷却排屑系统	Coolant & chip conveyor	加高垫板	Riser blocks
工件夹紧油缸	Workpiece clamping cylinder	摆动工作台	Tilting worktable
半封闭防护罩	Semi-enclosed protection guard	斜垫板	Inclined riser blocks
刀具芯轴 (Φ31.743)	Cutter arbour (Φ31.743)	去毛刺装置	Deburring unit
弹性垫铁	Spring iron wedges	插齿条附件	Rack shaping attachment

机床主要参数: Main specification:

最大工件直径 外齿径	Max. diameter of workpiece: External gears	320mm
内齿轮 (安装直径400)	Internal gears with a mounting diameter of 400mm	220+dmm
最大加工模数	Max. module to be cut	6mm
最大加工齿宽	Max. face width to be cut	70mm
最大行程长度	Max. facewidth	84mm
主轴冲程速度	Max. stroke length	160~1000str/min
主轴直径	Spindle diameter	85mm
刀具安装面至工作台台面的距离 (可根据用户要求加高)	Distance from the cutter mounting surface to the worktable (Riser blocks are available upon customers request.)	120~230mm
刀具中心线至工作台中心线的距离	Distance from the cutter to the worktable	~110~265mm
工作台台面直径	Diameter of the worktable	380mm
工作台孔径	Worktable bore	120mm
插齿刀主轴最高位置的让刀量	Cutter spindle back-off at its top--most position	>0.5mm
斜向让刀立柱的偏移量	Column offset for the oblique cutter back-off motion	± 20mm
径向进给量(无级变速)	Radial federates (infinitely variable)	2~16mm
电机总功率/主电机功率	Total power consumption/power of the main drive motor	20KVA/7.5kw
整体外形尺寸(长×宽×高)	Overall dimensions (L × W × H)	300 × 320 × 230cm
包装箱尺寸(长×宽×高)	Dimensions of packing cases (L × W × H)	
(1)主 机	Basic machine	350 × 220 × 315cm
(2)冷却排屑	Coolant & chip conveyor	235 × 155 × 165cm
(3)电 箱	Control cabinet	175 × 120 × 252cm
净重/毛重	Net/gross weight:	
(1)主 机	Basic machine	8000/8500kg
(2)冷却排屑	Coolant & chip conveyor	600/680kg
(3)电 箱	Control cabinet	300/380kg

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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