

中型数控插齿机系列

Medium-sized CNC Gear Shaper

主要用于中型盘型内、外圆柱齿轮、螺旋齿轮的切削加工。YKD5150型插齿机工作台可倾斜 $\pm 10^\circ$ ，可用于加工倒锥齿轮。

★主运动由交流变频电机驱动，径向进给（X轴）和圆周进给（C1/C2轴）由交流伺服电机驱动。可根据切削需要设置循环次数和每次循环的切削量。

★具有斜向让刀机构，可实现少数齿数切削。

★YK5150D和YKC5150D型插齿机采用工作台中心孔排屑。



YKD5150型工作台可倾斜角度调整范围 $\pm 10^\circ$



YK5150D数控插齿机



YK5180B数控插齿机



YK5150E数控插齿机



YKW5165万能数控插齿机



电子螺旋导轨

主要特点

机床为6轴4联动，具备刀架自动提拉、冲程长度自动调整、内外齿加工自动转换、电子螺旋导轨、辅助换刀等功能；刀具主轴采用静压技术、工作台采用滚动轴承结构。

This kind of machine is mainly used for machining plate type of midsize, including internal or External cylindrical gear and helical gear .The worktable of YKD5150 can slant an angle of $\pm 10^\circ$,which is used for machining reversed-taper gear.

★The main motion is driven by AC frequency inverter motor. Both circular feed(X axis) and radial feed (C1 or C2 axis) are driven by AC servo motor. What's more, users can set up the cycles and the depth of cut for every cycle according to the demand of cutting.

★The machine has the mechanism of cutter relieving in oblique direction and can realize the small number of teeth cutting.

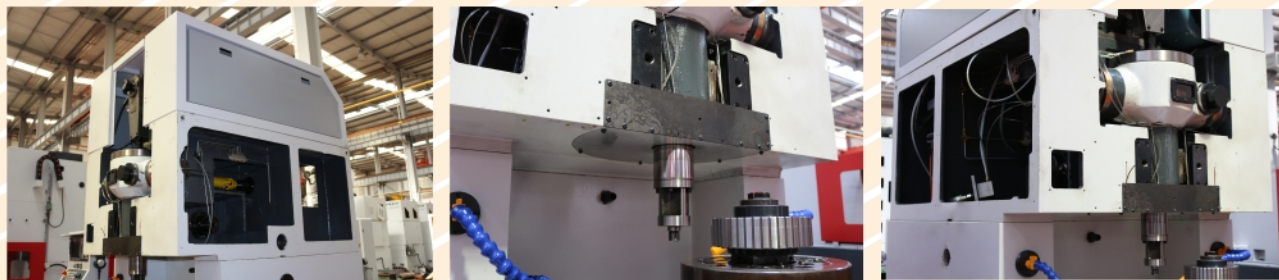
★YK5150D and YKC5150D gear shaping machine are both with central hole to remove chip.

主要技术规格 Specifications	YK5150D YK5150E YKD5150	YKW5165	YK5180B
最大加工外齿直径 (mm) Max. diameter of external	500	650	800
最大加工内齿直径 (mm) Max. diameter of internal	600	800	1100
最大加工模数 (mm) Max. module	10	12	12
最大加工齿宽 (mm) Max. face width	140	200	250
插齿刀冲程长度 (mm) Max. stroke length	160	230	270
插齿刀冲程速度 (str/min) Stroke speed	40~400	40~600	30~300
插齿刀让刀量 (mm) Cutter relieving	≥0.5	≥1	≥0.5
刀架提拉行程 Axial slide travel range of cutter head	-	400	-
插齿刀行程位置调整量 (mm) Adjusting amount of stroke position	50	-	50
插齿刀安装轴颈直径 (mm) Diameter of cutter neck	31.743	31.743	31.743
刀轴直径 (mm) Spindle diameter	100	100	100
工作台面直径 (mm) Diameter of worktable	700/600	700	900
工作台孔径 (mm) Diameter of worktable bore	140	320	320
工作台可倾斜角度 Sloping angle of worktable	0/±10°	-	-
插齿刀轴心线至工作台轴心线距离 (mm) Distance between axis of cutter spindle and worktable	-40~400	-40~450	0~750
机床主轴端面至工作面距离 (mm) Distance between the nose of spindle and worktable surface	320~530 320~530 250~460	150~780	300~620
机床总功率 (kw) Total power	22.5	55	22.5
机床重量 (Kg) approx. Total weight	11000	14000	15000

三轴数控机床配置表

标准配置	Standard Accessories	选项配置	Optional Accessories
数控系统: 西门子828D	Numerical control sysyem:828D Siemens	夹具	Fixture
主轴变频: 施耐德	Spindle frequency inverter:Schneider	立柱加高垫块	Iron block for column increase
液压装置一套: 外置	One set hydraulic station:Outside	专用接刀杆	Special cutter adaptor
冷却、排屑装置一套: 外置	One set cooling and chip conveyor:Outside	插齿刀具	Shaper cutter
集中润滑装置: 间歇式	Centralized auto-lubrication:By intermittent	螺旋导轨	Helix guide
电气柜: 外置 机床左侧	Electric cabinet:Outside	尾座	Tailstock
标准接刀杆: 3件	Standard cutter adaptor:3 pieces	全防护	Full cover
随机附件箱: 内置	Accessory box:Internal		
半封闭防护罩	Half cover		
机床垫铁	Machine sizing block		

YK5150E数控插齿机特点



全新防护顶罩

全密封接油盘

高刚性动静压刀架体

机床平面布置图

