

高效数控滚齿机系列

Large-scale CNC Gear Hobbing Machine Series

适用于能源、交通、矿山、电力、重型机械等行业的大型高精度齿轮加工；可以加工各种直齿轮、斜齿轮、小锥度齿轮、鼓形齿轮、蜗轮等，如果采用可更换的内铣齿头部件，可以进行单分度内齿加工。

机床直线运动导轨采用进口高精度滚动导轨块加镶钢导轨，进给系统采用予载滚珠丝杠副加进口高精度直线光栅尺闭环控制，保证传动和进给精度。

SANDVIK
Coromant



高速干滚



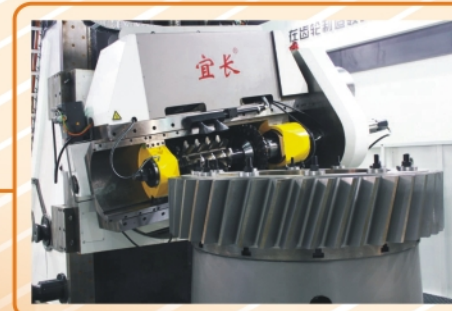
滚铣复合



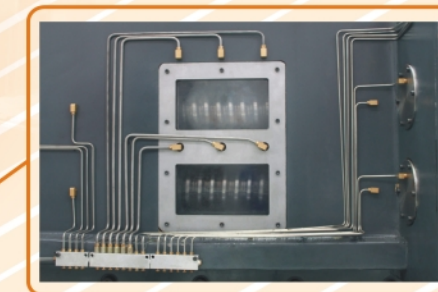
双联铣刀加工



Yk31350六轴高效数控滚齿机



- ★ 滚刀架角度的调整采用伺服电机直接驱动高精度蜗轮蜗杆副来实现，从而保证了角度调整的准确。
- ★ 滚刀主轴采用大功率交流主轴电机驱动，无级调速，传动过程采用减振和消除机构，实现高精度、高刚性的主运动传动。



- ★ 工作台采用大规格静压轴承支承，高精度双蜗轮蜗杆副传动，同时保证工作台精确的无间隙分度运动。



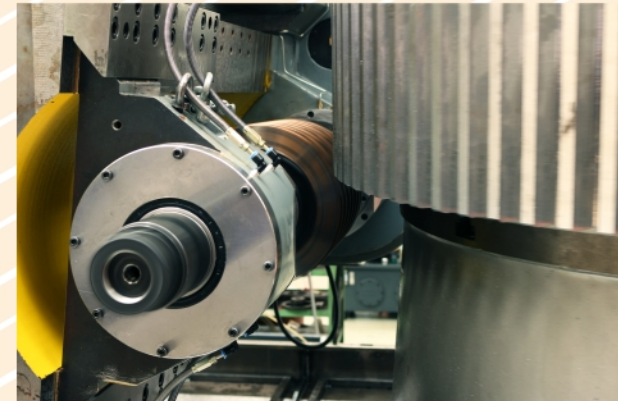
Yk31250六轴高效数控滚齿机

It is applied to machining big gears of high precision for energy sources, transportation, mine, electric power and heavy-machinery. It can be used to process kinds of spur and helical gears, small tapered gear, crowned gear, worm gear, etc. The individual indexing internal gear can be processed if you adopt the replaceable part of internal gear milling head.

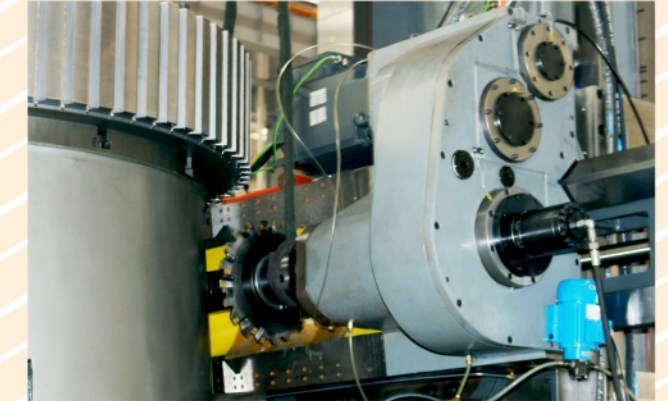
The guideway for linear movement adopt imported rolling guideway block with inlay steel guide of high precision. Feeding system uses preload ball screws with imported linear grating of high precision to ensure the precision of drive and feeding.

主要技术规格 Specifications	YK31125	YK31160	YK31250	YK31350	YK31600
最大工作直径 (mm) Max. workpiece diameter	1250	1600	2500	3500	6000
最大模数 (mm) Max. module	25	25	25	32	40
最大齿宽 (mm) Max. face width	800	800	800	1200	1200
最大螺旋角 Max. helical angle	±45°				
滚刀转速 (r/min) Rotate speed of hob	20-250	20-250	20-250	20-200	20-200
滚刀最大直径 (mm) Max. diameter of hob	450				
滚刀最大长度 (mm) Max. length of hob	700				
主轴锥孔 Taper hole of main spindle	BT60				
主轴中心至工作台中心距离 (mm) Distance from main spindle center to worktable center	0-900	0-1050	200-1500	300-2100	1000-3500
刀架回转中心至工作台台面距离 (mm) Distance from rotary center of tool rest to worktable surface	700-1900	700-1900	700-1900	800-2400	800-2400
工作台最大承重 (Kg) Max. load bearing of worktable	20000	20000	40000	40000	60000
工作台直径 (mm) Worktable diameter	1300	1300	1850	2500	3700
工作台孔径 (mm) Bore of the worktable	400	400	600	1000	1000
工作台转速 (r/min) Worktable rotary speed	0-10	0-10	0-10	0-2	0-1
径向进给速度 (mm/min) Radial feed speed	0-3000				
轴向进给速度 (mm/min) Axial feed speed	0-3000				
机床总功率 (Kw) Total power	100	100	100	120	130
机床总重量 (Kg) Total weight	35000	40000	45000	80000	100000

注：参数表中各机床最大加工齿宽为标准型，可根据用户要求分别选择800mm、1200mm、1600mm不同齿宽。



滚削加工

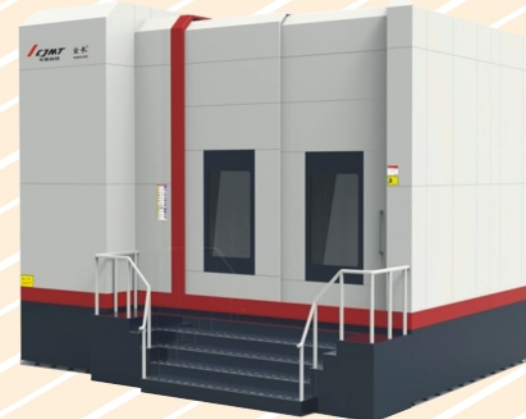


铣削加工

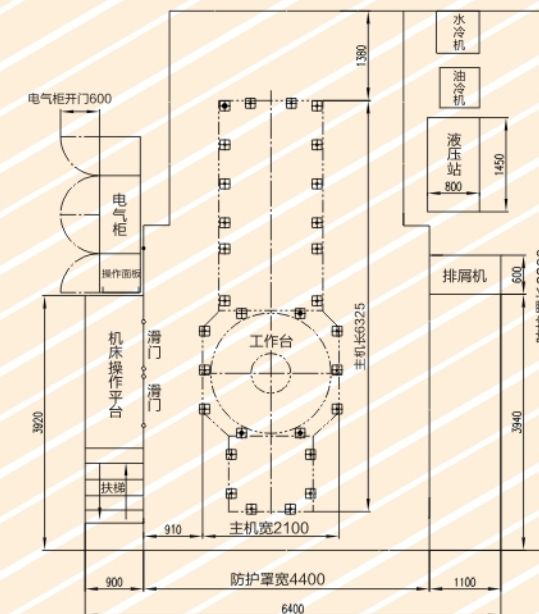
标准配置 Standard Accessories	选项配置 Optional Accessories
数控系统：西门子840D Numerical control system: 840D Siemens	胎具 Fixture
液压装置一套：外置 One set hydraulic device: Outside	专用接刀杆 special cutter adaptor
冷却、排屑装置两套：外置 One set cooling and chip conveyor: Outside	铣齿刀盘 Milling tools
集中润滑装置：间歇式 Centralized auto-lubrication: By Intermittent	内齿铣头 Internal milling head
电气柜：外置 Electrical cabinet: Outside	全防护 Full cover
随机附件箱 Accessories box	
半封闭防护罩 Half cover	
机床垫铁 Machine sizing block	



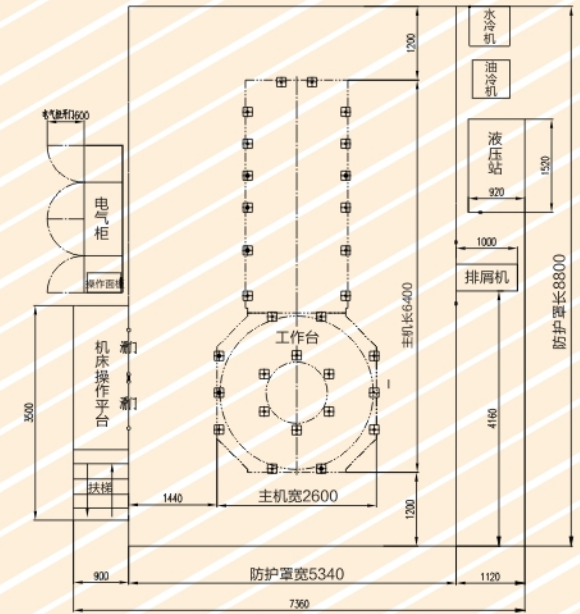
半防护



全防护



YK31250机床平面布置图



YK31350机床平面布置图