

立式数控滚齿机

CNC VERTICAL GEAR HOBBING MACHINE

机床特点

- 1、高刚性：机床导轨、滚刀架、工作台等部件用无间隙传动技术，消除了切削过程中振动，保障高效切削；
- 2、滚铣复合工艺：刀具主轴可以同时安装铣刀和滚刀，铣刀粗加工后通过自动换刀实现精加工；
- 3、自动化程度高：机床各轴运动均由伺服电机驱动，操作方便，可实现自动换刀以及自动扳角度；
- 4、安全性高：机床具备断电回退功能，在意外情况下可以有效保护刀具；
- 5、机床的高刚性配以可转位滚刀可以实现干式滚齿，绿色环保。
- 6、中大型机床为淬硬钢导轨加滚动块的结构形式，具有无间隙，高刚性的特点。

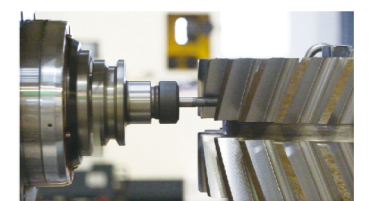
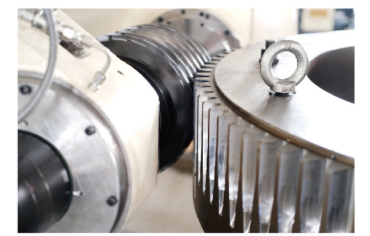
MACHINE TOOL FEATURES

1. High rigidity. The machine tool guide rails, rolling tool holders, workbenches and other components use gapless transmission technology to eliminate vibration during the cutting process and ensure efficient cutting;
2. Rolling milling composite process: The tool spindle can be equipped with both milling cutters and hobs, and after rough machining, the milling cutter can achieve precision machining through automatic tool shifting;
3. High degree of automation: The movement of each axis of the machine tool is driven by a servo motor, which is easy to operate and can achieve automatic tool review and automatic turning angle;
- 4 High safety: The machine tool has a power-off and fallback function, which can effectively protect the tool in case of unexpected situations;
5. The high rigidity of the machine tool combined with an indexable hob can achieve dry gear hobbing, which is green and environmentally friendly
6. Medium and large machine tools use the structure of hardened steel guide rails with rolling blocks, which has the characteristics of no gap and high rigidity.



技术参数 THE MAIN PARAMETERS

名称 Description		型号 Type								
		YK3150	YK3180A YK3180B	YK31125 YK31125A	YK31160 YK31160A	YK31200A	YK31300	YK31400	YK31600	YK31800
最大工件直径 Max. workpiece diameter	mm	500	800	1250	1600	2000	3000	4000	6000	8000
最大模数 Max. module	mm	12	16/20	25	25	25	25	30	30	30
最大齿宽 Max. face width	mm	400	600	800	800	800	800	1600	1600	1600
最大螺旋角 Max. helical angle	°	±45	±45	±45	±45	±45	±45	±45	±35	±35
滚刀转速 Rotation speed of hob	r/min	40~450	40~450 20~150	20~250 20~150	20~250 20~150	20~150	20~250	10~200	10~200	10~200
滚刀最大直径 Max. diameter of hob	mm	270	350	450	450	450	450	450	450	450
滚刀最大长度 Max. length of hob	mm	300	500	700	700	700	700	700	700	700
主轴中心至工作台中心距离 Center distance spindle/worktable	mm	50~410	50~600	150~870	150~1050	300~1300	300~1750	400~2300	1200~3500	2000~4500
刀具回转中心至工作台面距离 Distance cutter center/worktable surface	mm	250~800	400~1200	500~1600	500~1600	500~1600	700~1800	900~2700	900~2700	900~2700
工作台最大承重 Max. load bearing of worktable	kg	500	2000	10000	10000	20000	20000	40000	120000	150000
工作台直径 Worktable diameter	mm	500	800	1300	1500	1850	1850	2500	3500	5500
工作台孔径 Bore of the worktable	mm	140	200	300	300	500	500	600	1000	1000
工作台转速 Worktable rotary speed	r/min	0~20	0~15	0~10	0~10	0~7.5	0~7.5	0~5	0~2	0~2
径向进给速度 Radial feed speed	mm/min	0~3000	0~3000	0~3000	0~3000	0~3000	0~3000	0~3000	0~3000	0~3000
轴向进给速度 Axial feed speed	mm/min	0~1000	0~1000	0~3000	0~3000	0~3000	0~3000	0~3000	0~3000	0~3000
机床总功率 Total power	kW	约70	约70	约100	约100	约100	约100	约120	约160	约180
机床总重量 Total weight	t	约16	约20	约40	约41	约45	约46	约80	约100	约120
主机外形尺寸(长×宽×高) Main Machine Dimension	m	3.7x2.3x2.2	5.6x3.9x3.1	6.1x4.6x4.3 7.6x3.8x3.65	6x4.6x4.3 7.6x3.8x3.65	8.1x3.8x3.46	8.6x4.2x2.26	9x5.2x6.2	12x7.98x6.44	15x11x7.5



注：
1. 重量仅供搬运起重时参考，具体以实物为准；
2. 外观防护分半防护、全防护，用户可根据实际需要进行选择；
3. 公司持续创新机床设计，本手册中各系列产品参数将持续优化。

Note:
1. The weight is for reference only, and the actual product shall prevail;
2. The appearance protection of this machine tool has two options: semi-protection and full protection, which can be selected according to actual needs;
3. We continue to innovate machine tool design. The parameters of each series of products in this manual are for reference only. If you have any inquiry, please contact us for the update.