

QD560 5-AXIS CNC TOOL GRINDER

五轴数控工具磨床



Features | 特点

- 1.QD560 is a high efficiency tool grinder. It can produce standard CNC tools, such as end mills, drill bits ect.
 - 2.The machine has a simple shape, human-computer interface, Natural granite base with unmatched thermal stability and excellent vibration absorption.
- QD560一款高效率的数控刀具磨床，生产铣刀、钻头标准CNC刀具。
 - 机床造型简洁，人机界面友好，天然大理石构件，稳定性好。



Workpiece Spindle | 工件主轴

The workpiece spindle adopts dd direct drive, W25 tool holder and Schaublin collet, and the workpiece is automatically clamped.

- 工件主轴采用dd直驱，W25液压刀柄和肖伯林筒夹，工件自动夹紧。



Grinding Spindle | 磨头

The machine adopts high precision direct drive spindle with variable-frequency spindle. The spindle has two sets of grinding wheel flanges. Each set of flanges can be equipped with 2 to 4 grinding wheels at the same time. It can meet all kinds of tool grinding requests.

- 机床采用高精度、同步直驱变频电主轴，主轴有两组砂轮法兰，每组法兰可同时装2~4片砂轮，根据磨削工艺，砂轮组换位快捷，可充分满足各种刀具磨削需求。



Operation panel | 操作面板

- 1.Function keys integrated into the operator panel for quick configuration of operation.
- 2.The display has touch screen function to assist the operator.
- 3.The console can be adjusted flexibly.
- 4.Durable design for a variety of industrial environments.

- 功能按键集成到操作面板，可快速配置操作
- 显示屏具有触屏功能，辅助操作人员操作
- 控制台可灵活调整位置
- 适用于各种工业环境的耐用设计



Hand-held Remote Pendant 手持式遥控操作器

- 1.It is easier for the operator to set up the grinder without going to the screen or leaning over.
- 2.The remote manipulator has a feed rate control, and the feed rate can be easily changed during commissioning.
- 3.It has the function of "hand-held operation" and conforms to CE certification.

- 操作人员更容易进行磨床设置，无需到屏幕前或俯身。
- 遥控操作器带有进给倍率控制，调试过程中可轻松改变进给速度。
- 有“手持运行”功能，符合CE认证。



Optional Devices | 可选配置

1. 18KW motorized spindle

2. SCHUNK holder
3. W20 holder

4. Auxiliary support
- 5.Grinding wheel

6.British Renishaw probe
- 7.Automatic feeding and unloading device "Nachi Robot"

- 18KW电主轴
- 雄克刀柄
- W20刀柄
- 辅助支撑
- 砂轮
- 英国雷尼绍测头
- 自动上下料-那智机械手

Specifications | 技术参数

Stroke		
X-axis Stroke X轴行程		450 mm
Y-axis Stroke Y轴行程		590 mm
Z-axis Stroke Z轴行程		360 mm
Swivel Angle A-axis Stroke A轴旋转范围		∞
Swivel Angle C-axis Stroke C轴旋转范围		-95°~+225°

Rapid Traverse	
Rapid Traverse X/Y/Z 直线轴快速移动速度	15 m/min
Rapid Traverse A 工件主轴转速(A轴)	200 rpm
Rapid Traverse C 磨头摆动最高转速(C轴)	30 rpm

Resolution	
Linear Resolution 直线轴分辨率	0.0001 mm
Radial Resolution 旋转轴分辨率	0.0001°

Grinding Range	
Workpiece Diameter 夹头夹紧工件范围	3-20mm
Max. Workpiece Length 最大工件长度	270 mm
Max. groove depth 最大加工工件槽深	20 mm
Max. weight 最大工件重量	10 kg
Max. cutting edge length 最大切削刃长度	190mm

Wheel Spindle (C-axis)	
Wheel size 砂轮尺寸(CBN/金刚石)	Ø50mm-Ø200 mm
Wheel Spindle 砂轮主轴	HSK-50E Built-in Spindle
Spindle Power 磨头最大功率(直驱电主轴)	22 kw
Rotation Speed 磨头主轴转速(变频调速)	1000-6000 rpm
Radial Runout 径向跳动	≤0.005mm

Workpiece Spindle (A-axis)	
Center Height 工件主轴中心高	150 mm
Radial Runout 径向跳动	≤0.005mm

Controller	
Controller 系统	SYNTEC

Software	
Software 软件	QD

Machine Dimensions	
Electrical Power 电源	AC 380V 50HZ
Total Power 总功率	20 kw/32kw
Weight 重量	4T (Including robotic arm 4.5T)
Dimensions (L x W x H) 长x宽x高	1700x 1730 x 2100 mm
Dimensions (L x W x H) 长x宽x高	2523x1726x2079mm(Including robotic arm)