



新灏峰精密科技有限公司

Newhaofeng Precision Technology Co., Ltd



高精度 High precision 数控工具磨床 CNC tool grinder

产品手册 Technical Manual

Professional R&D and Manufacturer of CNC Grinder Mill

专业磨刀机研发制造企业



公司概况 Company Profile:

新灏峰精密科技是一家位于广东东莞的国家高新技术企业，专注于全自动磨刀机设备的研发、生产与销售。我们致力于为全球金属加工、CNC车床、钻头打磨等行业客户，提供稳定可靠、技术领先的磨刀解决方案。

Newhaofeng Precision Technology is a national high-tech company specialized in R&D, production and sales of CNC grinder mill. We are committed to providing stable, reliable and technologically advanced grinder solutions for global customers in metal processing, CNC lathe, drill grinding and other industries.

产品介绍 Product Introduction:

3轴智能数控工具磨刀机

3-Axis Intelligent CNC Tool Grinder



产品概述 Product Overview:

本机可自动精准研磨铣刀、圆鼻刀、钨钢钻头、球刀、倒角刀等金属加工刀具。通过智能控制修磨磨损刀具，效果接近新刀，高效实现降本增效。

The mill can automatically and precisely grind cutting tools, including end mills, corner radius cutters, tungsten steel drills, ball nose cutters, and chamfering cutters. By grinding worn-out tools, it will be near-new cutter, thereby effectively reducing costs and improving efficiency.

产品优势 Product Superiority:

1. 极致精度：研磨精度高达 0.005mm，采用精密伺服控制、高精度夹持定位，搭配进口导轨与丝杠。

Ultra-high precision: Grinding accuracy up to 0.005mm, with precision servo control, high-precision clamping, with imported guide rails and ball screws.

2. 降本增效：相较购置新刀，可节省约 80% 刀具成本。

Cost reduction: Saves approximately 80% of tooling costs compared to purchasing new tools.

3. 智能易操作：自研控制系统，界面人性化，无需编程。

Intelligent operation: Self-developed control system, no programming.

4. 一键自动研磨：内置标准程序，参数可调，一键完成自动研磨。

One-key automatic grinding: Built-in standard programs, adjustable parameters.

5. 自动对刀：支持自动对刀与偏心补偿。

Automatic tool setting: Supports automatic tool setting and eccentricity compensation.

6. 稳定耐用：全封闭床身，刚性强、稳定性高；配备磨削液冷却系统。

Stable & durable: Fully enclosed structure, high rigidity and stability; equipped with grinding fluid cooling system.



智能数控工具磨床技术参数表

Technical Specifications of Intelligent CNC Tool Grinder

类别 Category	项目 Content	参数 Parameters
基本规格 Basic Specs	磨削长度 Grinding length	20 - 600 mm
	修磨直径 Grinding diameter	4 - 20 mm
	X轴行程 X-axis travel	220 mm
	Y轴行程 Y-axis travel	220 mm
	Z轴行程 Z-axis travel	220 mm
	A轴旋转角度 A-axis rotation angle	360°
精度与速度 Precision & Speed	X/Y/Z轴定位精度 X/Y/Z axis positioning accuracy	≤ 0.01 mm
	X/Y/Z轴重复定位精度 X/Y/Z axis repeat positioning accuracy	≤ 0.01 mm
	X/Y/Z轴快速移位速度 X/Y/Z axis fast shift speed	12 m/min
	电主轴最高转速 Maximum spindle speed	6000 rpm
动力与控制 Power & Control	数控系统 CNC system	PLC 升级款 PLC Upgraded model
	主轴额定功率 Electric spindle power	0.75 KW
	伺服电机系统 Servo motor system	X/Y/Z/A/C 轴伺服电机 X/Y/Z/A/C axis servo motors
	直线导轨精密级 Linear guide precision	P级 P Grade
	滚珠丝杆精密级 Ball screw precision	C7 级
	工件装夹方式 Workpiece clamping method	ER32
研磨工艺 Grinding Process	砂轮转速 Grinding wheel speed	3200 rpm
	砂轮材质 Grinding wheel material	金刚石 Diamond
	研磨时间 Grinding time	2 分钟/支 2 min/unit
	砂轮寿命 Grinding wheel life	800 - 1000 支 800 - 1000 units
	冷却方式 Cooling method	钨钢磨削液自动循环冷却 Tungsten steel fluid auto-circulation
适用范围 Application	适用刀具直径 Applicable tool diameter	4 - 20 mm
	适用刀具类型 Applicable tool types	焊接2刃圆鼻刀、焊接2刃钻头 Welded 2-flute bull nose, 2-flute drill
物理参数 Physical Specs	机器总功率 Total machine power	2.5 KW
	机器重量 Machine weight	370 KG
	机器尺寸 Machine size (approx)	1483 x 748 x 1100 mm



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PhoneNumber: 13453404905

E-Mail:nhfcncgrinder@gmail.com

地址: 广东省深圳市光明区民生工业城111栋2层Address: 2nd Floor,
Building 111, Minsheng Industrial City, Guangming District,
Shenzhen, Guangdong Province