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有关产品性质和通用范围的说明不保证产品属性, 仅作可供了解的信息。本公司的供货范围及提供的服务以合同条款为准。本公司拥有产品规格设计变更之权利, 如规格有修改, 恕不再另行通知。

The description of the products is intended as information. The supplyment and service are subject to the terms of the contract. Our company adheres to the principle of improvement and innovation of the products. Therefore, we reserve the right to change the specifications of this model without notification.

## CNC TOOL GRINDER





## TABLE OF CONTENTS 目录

01	关于我们 About Us	3
02	荣誉优势 Honor and Advantage	5
03	C818 五轴五联动数控刀具磨床 C818 Five-axis Five-linkage CNC Tool Grinder	7
04	NT618 五轴五联动数控刀具磨床 NT618 Five-axis Five-linkage CNC Tool Grinder	11
05	NZ-04S 四轴四联动CNC磨床 NZ-04S Four-axis Four-linkage CNC Grinding Machine	15
06	NZ-01 C型精密砂轮修整机 NZ-01 Type C Precision Dressing Machine for Grinding Wheel	19
07	联系方式 Contact Information	23



### 专注数控刀具磨床生产

品质保证 / 精益求精

诚信为本 / 顾客至上

Quality Guaranty / Excellence Pursuit

Integrity Based / Customer Fore



因为专业,所以信赖;  
因为信赖,所以选择。

Focuses on CNC grinding machine with excellent performance and strong after sales support, which win the trust from customers.





## 企业简介

### Enterprise Introduction

本公司致力于数控刀具磨床的研发与生产，为硬质合金刀具行业提供优质、高效的生产工具。2公司产品主要有：五轴数控磨床，四轴多功能丝锥开槽机，亚克力铣刀专机，标准铣刀专机，木工雕刻刀专机，数控段差研磨机，砂轮圆弧修整机，磨削油处理系统等。此外，公司为客户提供非标数控刀具磨床的定制服务。

公司拥有一支经验丰富、技艺精湛的高效技术服务团队，并与国际知名数控工具磨床软件公司长期合作。我们以市场和客户需求为导向，坚持“高起点、高标准、高品质”的发展方针，对产品把关，为客户负责，竭诚为广大用户提供全面、快速、周到的服务。

Our company committing to the R&D and production of CNC tool grinding machines and providing high-quality and efficient production tools for the cemented carbide tool industry.

Our products including five axes CNC grinding machines, standard milling cutter, acrylic milling cutter, CNC segment grinding machine, grinding wheel arc trimming machine, grinding oil treatment system, etc.

We have an experienced technical service team, and have built a long-term cooperation with international renowned CNC grinding machine software companies.

Gungnir operates five axes CNC grinding machines, four axes standard milling cutter, grinding wheel dressing machines and etc.

We also provides customization services.

### MAIN BUSINESS

主要经营五轴数控磨床、四轴标准铣刀专机、砂轮修整机等产品。公司还为客户提供数控刀具磨床的定制服务。

## About US



### 技术开发

#### Technical Development

拥有工程技术研发中心,对产品的制造、技术和过程等进行改进和革新,使嘉宁尔成为业内集研发和生产全套解决方案的供应商。

针对产品一对一测试和优化,根据市场使用结果进一步提升,总结经验,不断沉淀打磨,使产品在同业内一直处于领先水平。

Gungnir has an engineering technological R&D center for machines, which makes us as an industry leader. We will make optimization one-on-one for testing and improvement of the machines.



### 设备储备

#### Equipments Reserve

目前,我们拥有一整套国际先进水平的检测设备,精良的工艺以及完善的质量管理体系,并聚集了具有专业技术和领先水平的队伍。充分利用新技术、新工艺、新材料保证产品的稳定性和可靠性。

Gungnir believes technology creating future. We have international advanced testing equipment, excellent craftsman-ship and refine quality management system, as well as professional team. It ensures our products stable and reliable.



# 30+

技术专利  
Technical patents

# 110+

企业员工  
Enterprise employees





### 体系认证 System Certification

建立卓越有效的品质之路,使公司发展更具规范性。在产品制造领域,我们已取得多种行业权威认证。在企业经营领域我们获得来自社会各方的积极认可,是品质、细节、认真、坚持让品牌更具活力,是标准、责任、荣誉和使命鞭策我们承载过去,开创未来。

Gungnir expects to develop in a standardized way. We have obtained industry authoritative certifications and positive recognition from the society. The pursuit for product's quality and details will lead us to the brighter future.



## HONOR AND ADVANTAGE

# 荣誉优势



### 专业信赖 Trustworthy

因为专业,所以信赖;  
因为信赖,所以选择。

嘉宁尔是集研发、生产、销售于一体的现代化制造企业。公司致力打造品控优秀、性能卓越的产品,赢得客户的信赖。

Gungnir focuses on CNC grinding machine with excellent performance and strong after sales support, which won the trust from customers.



### 增值服务

除了满足金属切削加工的基本前提条件比如高质量和高精度以外,纳载还在客户的整个工艺流程中为其提供增值服务。



### Value-added services

Gungnir not only provides high quality and precision machine, but also offers value-added service to its customers throughout the procession.



### 精益求精 Keep Improving

公司技术力量雄厚,检测设备齐全。可对产品进行主轴偏摆测试、主轴拉伸测试、激光检测等,以确保机器长时间维持完美加工。满足客户对不同等级产品质量和性能的全方位要求。对质量严格要求,对品质严加控制,对品质积极建设,是嘉宁尔的质量原则。

Our company has plenty of technical testing equipments like spindle deflection testing, spindle tension testing, laser detection, etc. These ensure the machines maintains perfection for a long time. We have strictly requirement for quality and performance.







# FIVE-AXIS

## C818 五轴五联动数控刀具磨床

C818 Five-axis Five-linkage CNC Tool Grinder

## C818 五轴五联动数控刀具磨床 C818 Five-axis Five-linkage CNC Tool Grinder



### 设备概述

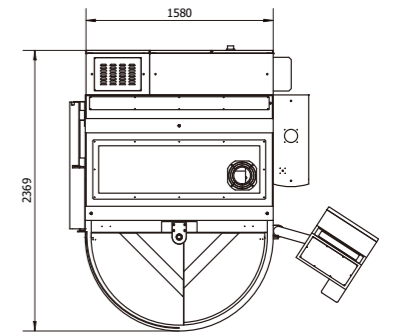
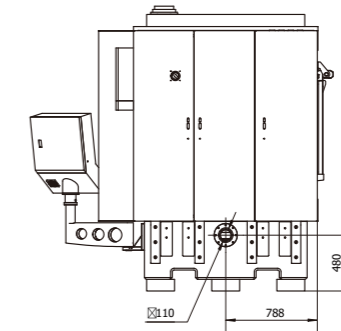
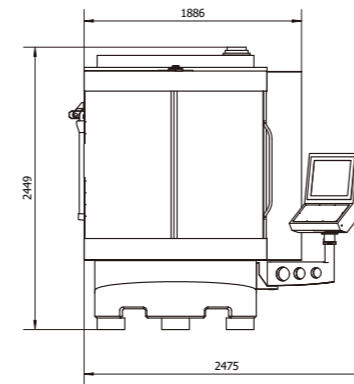
Technical Development

应用于 3C、医疗、汽车、高铁、航空航天、精密  
刀具磨削等领域。

Applied in 3C, medical, automotive, high speed  
rail, aerospace, precision cutting tools etc.



Practical, Economical, Operational, Maintenance, Stable, Efficient







## 设备优势

### Equipments Advantages

- ▶ 机床采用整体矿物铸造床身,日本进口伺服电机与丝杠导轨(重型滚柱型)、A、B 旋转轴大扭矩 DD 电机。
- ▶ 永磁恒扭矩主轴电机、双磨头结构、B 轴可 360 度旋转,适合各种非标刀具的加工生产。
- ▶ 根据德国 5 轴数控工具磨床的优秀理念及设计。
- ▶ 根据融合人员实际操作经验和现场指导交流而设计。
- ▶ Integral mineral casting bed, Japan servo motor and screw guide rail (heavy-duty roller type) and AB rotating shaft with high torque DD direct drive motor.
- ▶ The permanent magnet constant torque spindle motor, dual grinding head structure and 360 degrees rotating of B-axis for non-standard cutting tools procession.
- ▶ Designed upon the concept of German 5-axis CNC grinding machines.
- ▶ Designed by integrating the practical experience and guidance.



## 主要零部件

### Equipments Advantages

- ▶ 数控系统 - SYNTEC, 台湾新代
- ▶ 集中自动润滑站 - 胜祥
- ▶ 线轨 - 日本, THK
- ▶ 气动系统(电磁阀、减压阀、空气过滤器等) - CHELIC
- ▶ 探测头 - 英国雷尼绍, RENISHAW
- ▶ 主轴 - 台湾品牌
- ▶ 电路附件电器 - 施耐德 / 欧姆龙
- ▶ 光栅尺 - 海德汉, 德国
- ▶ 分度盘 - 晟昌, 台湾
- ▶ CNC System - SYNTEC New Generation, Taiwan
- ▶ Centralized automatic lubrication station - Shengxiang
- ▶ Track - THK, Japan
- ▶ Pneumatic system (solenoid valve, pressure reducing valve, air filter, etc.) - CHELIC, Taiwan
- ▶ Detection head - Renishaw, UK
- ▶ Spindle - Taiwan
- ▶ Circuit accessories - Schneider, France/Omron, Japan
- ▶ Grating ruler - Heidenham, Germany
- ▶ Dividing Plate - Shengchang, Taiwan



PROJECT	UNIT	C818 (MINI)	C818 (POWER)	C818 (VISION)
日本伺服电机驱动(绝对值)行程(X/Y/Z轴) / Japan servo motor drive (absolute value) stroke (X/Y/Z axis)	mm	650 / 350 / 270	700 / 450 / 300	800 / 550 / 320
数控系统分辨率(X/Y/Z轴) / CNC system resolution (X/Y/Z axis)	mm	0.0001	0.0001	0.0001
编程和手轮进给最小分辨率(X/Y/Z轴) / Minimum resolution for programming of handwheel feed (X/Y/Z axis)	mm	0.0001	0.0001	0.0001
THK丝杆(X/Y/Z轴) / THK screw (X/Y/Z axis)	—	BN-FN32-C3	BN-FN32-C3	BN-FN32-C3
重复定位精度(X/Y/Z轴) / Repositioning accuracy (X/Y/Z axis)	mm	0.003	0.003	0.003
导轨(X/Y/Z轴) / Guide rail (X/Y/Z axis)	mm	SRG35-P / SRG35-P / SRG35-P	SRG45-P / SRG35-P / SRG35-P	SGR45-P / SGR35-P / SGR35-P
工件旋转轴(A/B轴) / Workpiece rotation axis (A/B axis)	—	旋转轴(rotation axis)	旋转轴(rotation axis)	旋转轴(rotation axis)
DD伺服驱动(A/B轴) / DD servo drive (A/B axis)	—	直接驱动(direct drive)	直接驱动(direct drive)	直接驱动(direct drive)
旋转编码器(A/B轴) / Rotary encoder (A/B axis)	—	英国RENISHAW雷尼绍(RENISHAW, UK)	英国RENISHAW雷尼绍(RENISHAW, UK)	英国RENISHAW雷尼绍(RENISHAW, UK)
分度精度(A/B轴) / Indexing accuracy (A/B axis)	—	2角秒(0.0005度)(2 arc seconds (0.0005 degrees))	2角秒(0.0005度)(2 arc seconds (0.0005 degrees))	2角秒(0.0005度)(2 arc seconds (0.0005 degrees))
额定转数(A/B轴) / Rated speed (A/B axis)	rpm	300 / 100	300 / 100	300 / 100
最高转数(A/B轴) / Maximum revolutions (A/B axis)	rpm	400 / 150	400 / 150	400 / 150
数控系统分辨率(A/B轴) / CNC system resolution (A/B axis)	度(degree)	0.0001	0.0001	0.0001
360度旋转、分度头本体(A/B轴) / 360 degree rotation, indexing head body (A/B axis)	—	可安装肖柏林W25夹头座和BT50刀柄 (Could be installed with Shaw Berlin W25 collet holder or BT50 knife handle)	可安装肖柏林W25夹头座和BT50刀柄 (Could be installed with Shaw Berlin W25 collet holder or BT50 knife handle)	可安装肖柏林W25夹头座和BT50刀柄 (Could be installed with Shaw Berlin W25 collet holder or BT50 knife handle)
快速移动(X/Y/Z轴) / Quick movement (X/Y/Z axis)	m/min	7.5	7.5	7.5
夹持最小工件直径 / Minimum diameter for clamping workpiece	mm	3	3	3
夹持最大工件直径 / Maximum diameter for clamping workpiece	mm	20	1-32	1-32
夹持最大工件长度 / Maximum length for clamping workpiece	mm	200	300	300
磨削最小工件直径 / Minimum diameter for grinding workpiece	mm	1	1	1
磨削最大工件直径 / Maximum diameter for grinding workpiece	mm	12	32	40
磨削最大刃口长度 / Maximum blade length for grinding	mm	≤120	≤180	≤180
最大工件重量 / Maximum workpiece weight	kg	5	5	5
直线分辨率 / Linear resolution	mm	0.0001	0.0001	0.0001
直线重复定位精度 / Linear repeat positioning accuracy	mm	0.003	0.003	0.003
旋转分辨率 / Rotation resolution	mm	0.0001	0.0001	0.0001
旋转重复定位精度 / Rotation Repetitive Positioning Accuracy	度(degree)	0.001	0.001	0.001
主轴功率 / Spindle power	kw	12-15kw永磁变频电机 (permanent magnet variable frequency motor)	22kw永磁变频电机 (permanent magnet variable frequency motor)	30kw永磁变频电机 (permanent magnet variable frequency motor)
砂轮直径 / Grinding wheel diameter	mm	75-150	75-150	75-150
砂轮主轴转速 / Grinding wheel spindle speed	rpm	4000-8000	4000-8000	4000-8000
无级可调 / Stepless adjustable	—	变频器(inverter)	变频器(inverter)	变频器(inverter)
机床重量 / Machine weight	kg	4000	5000	6500
总功率 / Total power	kw	≤22.5kw	≤30kw	≤45kw

可选配直线电机升级至C828系列 / Linear motor can be choesd for upgrading to C828 series.





# FIVE-AXIS

## NT618 五轴五联动数控刀具磨床

NT618 Five-axis Five-linkage CNC Tool Grinder

## NT618 五轴五联动数控刀具磨床 NT618 Five-axis Five-linkage CNC Tool Grinder



### 设备概述

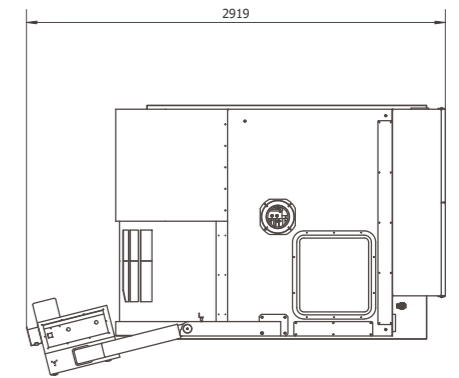
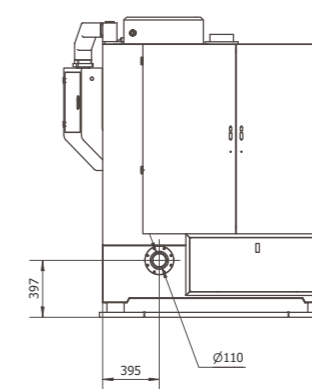
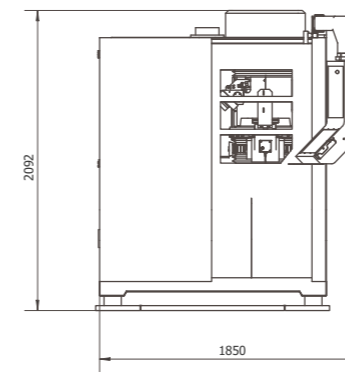
Technical Development

应用于 3C、医疗、汽车、高铁、航空航天、精密  
刀具磨削等领域。

Applied in 3C, medical, automotive, high speed  
rail, aerospace, precision cutting tools etc.



Practical, Economical, Operational, Maintenance, Stable, Efficient







## 设备优势

### Equipments Advantages

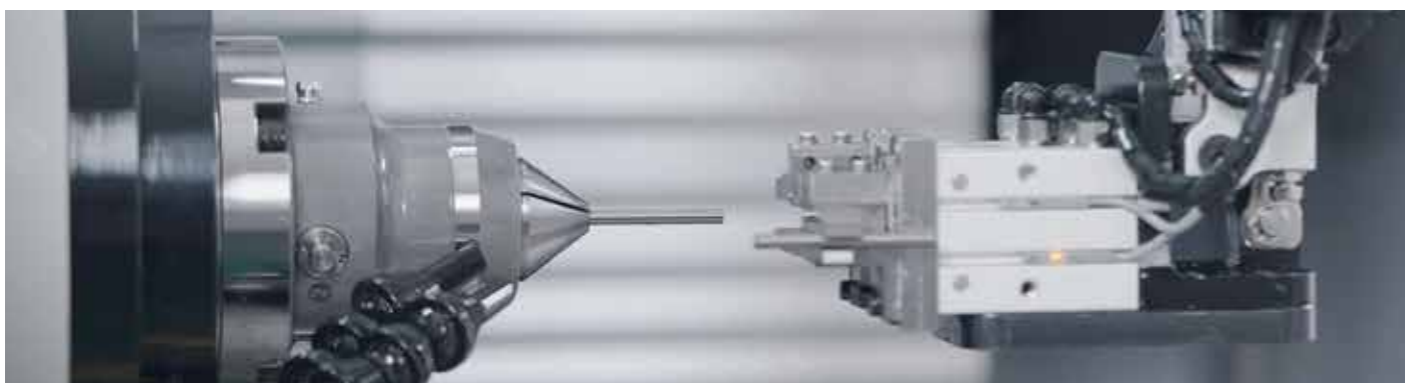
- ▶ 机床采用整体矿物铸造床身,日本进口丝杠导轨、A、B 旋转轴 DD 电机。
- ▶ 永磁恒扭矩主轴电机、双磨头结构、B 轴可 360 度旋转, 适合各种非标刀具的加工生产。
- ▶ 根据德国 5 轴数控工具磨床的优秀理念及设计。
- ▶ 根据融合人员实际操作经验和现场指导交流而设计。
- ▶ Integral mineral casting bed, Japan screw guide rail and AB rotating shaft with DD direct drive motor.
- ▶ The permanent magnet constant torque spindle motor, dual grinding head structure and 360 degrees rotating of B-axis for non-standard cutting tools procession.
- ▶ Designed upon the concept of German 5-axis CNC grinding machines.
- ▶ Designed by integrating the practical experience and guidance.



## 主要零部件

### Equipments Advantages

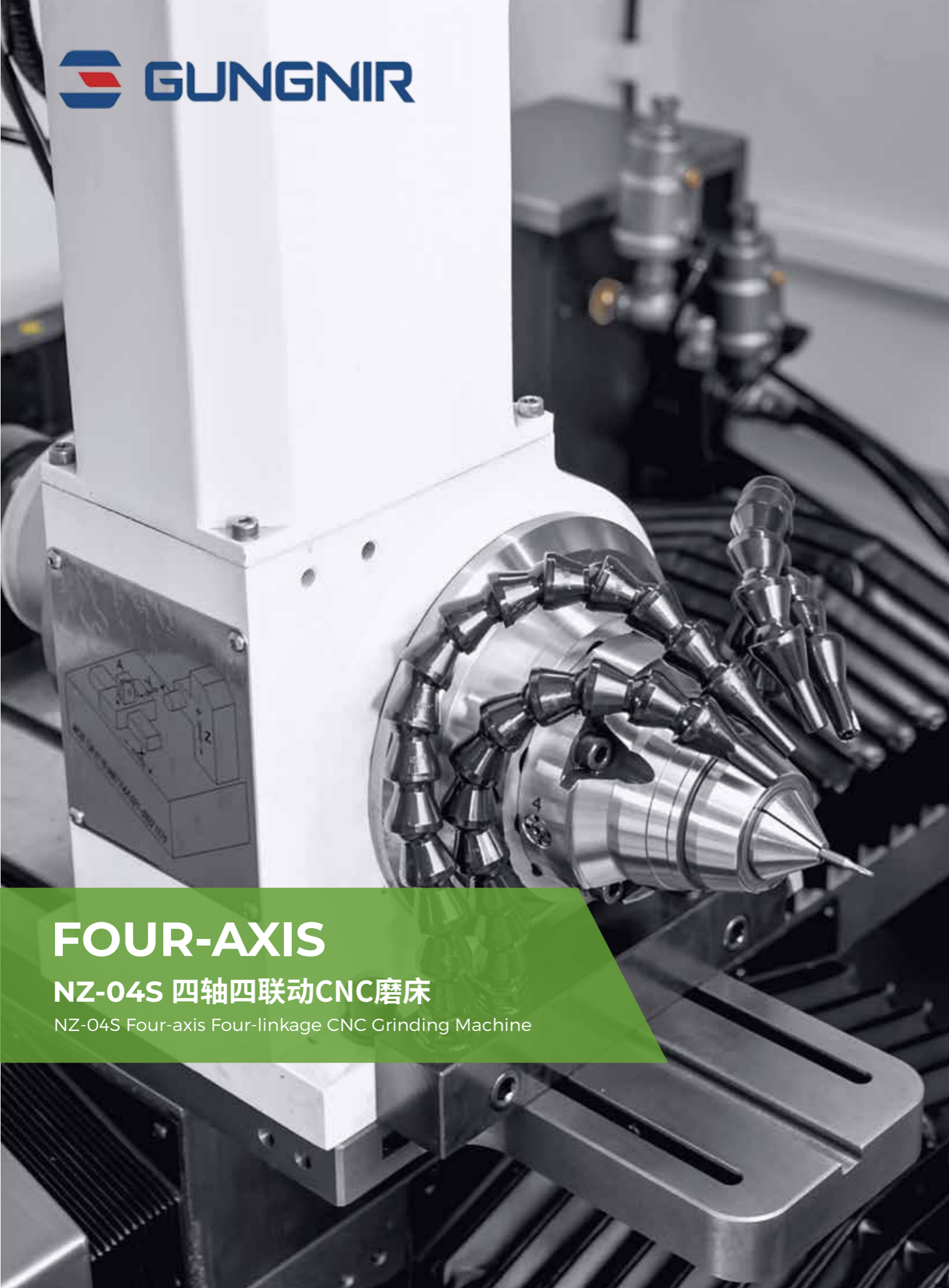
- ▶ 数控系统 - SYNTEC, 台湾新代
- ▶ 集中自动润滑站 - 胜祥
- ▶ 线轨 - THK, 日本
- ▶ 气动系统 (电磁阀、减压阀、空气过滤器等) - CHELIC
- ▶ 探测头 - RENISHAW, 英国雷尼绍
- ▶ 主轴 - 台湾品牌
- ▶ 电路附件电器 - 施耐德 / 欧姆龙
- ▶ 分度盘 - 晟昌, 台湾
- ▶ CNC System - SYNTEC New Generation, Taiwan
- ▶ Centralized automatic lubrication station - Shengxiang
- ▶ Track - THK, Japan
- ▶ Pneumatic system (solenoid valve, pressure reducing valve, air filter, etc.) - CHELIC, Taiwan
- ▶ Detection head - Renishaw, UK
- ▶ Spindle - Taiwan
- ▶ Circuit accessories - Schneider, France/Omron, Japan
- ▶ Dividing Plate - Shengchang, Taiwan



PROJECT	UNIT	NT618
台湾伺服电机驱动(绝对值)行程(X/Y/Z轴) / Taiwan servo motor drive (absolute value) stroke (X/Y/Z axis)	mm	500 / 470 / 250
数控系统分辨率(X/Y/Z轴) / CNC system resolution (X/Y/Z axis)	mm	0.0001
编程和手轮进给最小分辨率(X/Y/Z轴) / Minimum resolution for programming of handwheel feed (X/Y/Z axis)	mm	0.0001
THK丝杆(X/Y/Z轴) / THK screw (X/Y/Z axis)	—	BN-FN32-C3
重复定位精度(X/Y/Z轴) / Repositioning accuracy (X/Y/Z axis)	mm	0.003
导轨(X/Y/Z轴) / Guide rail (X/Y/Z axis)	mm	HSR30
工件旋转轴(A/B轴) / Workpiece rotation axis (A/B axis)	—	旋转轴 (rotation axis)
DD伺服驱动(A/B轴) / DD servo drive (A/B axis)	—	直接驱动 (direct drive)
旋转编码器(A/B轴) / Rotary encoder (A/B axis)	—	英国RENISHAW雷尼绍 (RENISHAW, UK)
分度精度(A/B轴) / Indexing accuracy (A/B axis)	—	2角秒 (0.0005度) (2 arc seconds (0.0005 degrees))
额定转数(A/B轴) / Rated speed (A/B axis)	rpm	250 / 200
最高转数(A/B轴) / Maximum revolutions (A/B axis)	rpm	250 / 200
数控系统分辨率(A/B轴) / CNC system resolution (A/B axis)	度	0.0001
360度旋转、分度头本体(A/B轴) / 360 degree rotation, indexing head body (A/B axis)	—	可安装肖柏林W25夹头座和BT50刀柄 (Could be installed with Shaw Berlin W25 collet holder or BT50 knife handle)
快速移动(X/Y/Z轴) / Quick movement (X/Y/Z axis)	m/min	7.5
夹持最小工件直径 / Minimum diameter for clamping workpiece	mm	3
夹持最大工件直径 / Maximum diameter for clamping workpiece	mm	1-20
夹持最大工件长度 / Maximum length for clamping workpiece	mm	250
磨削最小工件直径 / Minimum diameter for grinding workpiece	mm	1
磨削最大工件直径 / Maximum diameter for grinding workpiece	mm	16
磨削最大刃口长度 / Maximum blade length for grinding	mm	≤100
最大工件重量 / Maximum workpiece weight	kg	5
直线分辨率 / Linear resolution	mm	0.0001
直线重复定位精度 / Linear repeat positioning accuracy	mm	0.003
旋转分辨率 / Rotation resolution	mm	0.0001
旋转重复定位精度 / Rotation Repetitive Positioning Accuracy	度 (degree)	0.001
主轴功率 / Spindle power	kw	12kw永磁变频电机 (permanent magnet variable frequency motor)
砂轮直径 / Grinding wheel diameter	mm	75-150
砂轮主轴转速 / Grinding wheel spindle speed	rpm	4000-8000
无级可调 / Stepless adjustable	—	变频器 (inverter)
机床重量 / Machine weight	kg	4000
总功率 / Total power	kw	≤29kw

可选配直线电机升级至NT628系列 / Linear motor can be choesd for upgrading to NT628 series.





# FOUR-AXIS

## NZ-04S 四轴四联动CNC磨床

NZ-04S Four-axis Four-linkage CNC Grinding Machine

## NZ-04S 四轴四联动CNC磨床 NZ-04S Four-axis Four-linkage CNC Grinding Machine



### 设备概述

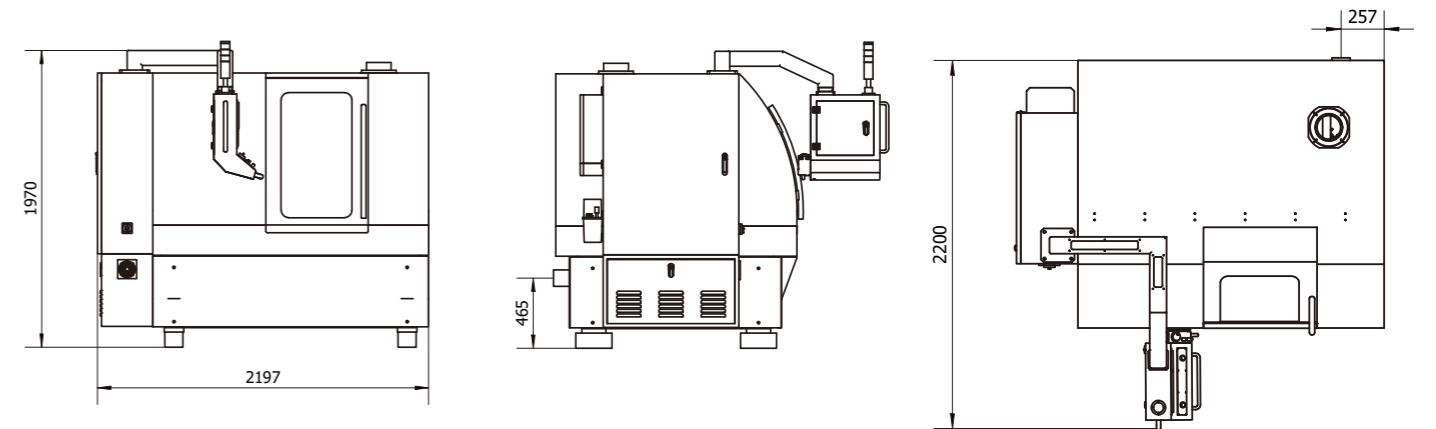
Technical Development

应用于 3C、医疗、汽车、高铁、航空航天、精密  
刀具磨削等领域。

Applied in 3C, medical, automotive, high speed  
rail, aerospace, precision cutting tools etc.



实用 经济 操作 维修 稳定 高效  
Practical, Economical, Operational, Maintenance, Stable, Efficient







## 设备优势

### Equipments Advantages

- ▶ 四轴联动的数控铣刀专用磨床, 专注于生产标准铣刀、铝加工刀、亚克力铣刀、倒角刀、丝锥开槽。
- ▶ 机床采用多工位磨削、多砂轮组磨削的工艺, 经多年使用仍能确保刀具生产品质, 大大提高刀具生产效率。
- ▶ 前后两面开门, 便于机床无限制的调试与维护, 全封闭的保护罩壳符合生产安全。
- ▶ 全轴均采用全进口的伺服电机与丝杆导轨, 高精度和分辨率, 保证机床的高生产品质和效率。
- ▶ Suit for standard milling cutters, aluminum processing cutters, arylc milling cutters, chamfering cutter and tap slotting.
- ▶ The multi-station and multi wheel group grinding ensure the quality and efficiency of tools.
- ▶ Front and rear doors of the grinder could easily unrestricted debugging and maintenance. The protective cover keep safety when production.
- ▶ All axes are equipped with high precision and resolution imported servo motors and screw guides for high quality and efficiency.



## 主要零部件

### Main Components

- ▶ X轴/Y轴, 水平直线 CNC 数控轴, 台湾制伺服电机, THK 精密滚珠丝杆, THK 精密滚柱型导轨。
- ▶ Z轴, 垂直直线 CNC 数控轴, 台湾制伺服电机, THK 精密滚珠丝杆, THK 精密滚柱型导轨。
- ▶ A轴, 旋转 CNC 数控工件轴, 台湾制伺服电机, 日本精密蜗轮蜗杆副成套。
- ▶ Z轴, 立柱增加角度旋转中心, 配置角度编码器, 确保更换不同螺纹角度时重复定位精度, 更换尺寸时调机更高效更方便精准。
- ▶ 整体大理石床身。
- ▶ 密封机罩, 方便调机, 烤漆, 机罩可整体拆下, 方便维修。
- ▶ 数控操作面板安装在机罩上, 并采用带磁铁的移动型手轮, 方便操作。
- ▶ 专用高速开槽电主轴一支, 可以安装一片到三片砂轮, 可整体拆卸至砂轮修整机修整砂轮。
- ▶ 侧轴、垂直轴采用台湾高精度直连式电主轴。
- ▶ 主轴电机变频调速。
- ▶ 机内安装管式密封防油日光灯。
- ▶ 日本不二越, 机器人自动上下料机外安装, 增长机器人使用寿命。(选配)
- ▶ X-axis/Y-axis, horizontal straight CNC axis. Taiwan servo motor. THK precision ball screw, THK precision roller guide rail.
- ▶ Z-axis, vertical straight CNC axis, Taiwan servo motor, THK precision ball screw, THK precision roller guide rail.
- ▶ A-axis, rotating CNC workpiece axis, DD direct drive motor.
- ▶ Z-axis, increasing the angle rotation center of the column, and configuring an angle encoder to ensure repeated positioning accuracy when replacing different thread angles and adjusting the size efficiently.
- ▶ Marble overall.
- ▶ Sealed hood with painting for easy adjustment and maintenance.
- ▶ The CNC operation panel is installed upon the hood with magnetic easily movable handwheel.
- ▶ A special high-speed slotted electric spindle, which could be installed with one to three grinding wheels. It would be disassembled as a whole to the grinding wheel trimming machine.
- ▶ The side and vertical shafts adopt Taiwan's high-precision direct connected electric spindle.
- ▶ The spindle motor adopt variable frequency control regulation.
- ▶ The machine is equipped with sealed tubular oil-proof fluorescent lamp.
- ▶ Installed with external automatic loading and unloading robot for increasing the lifespan. (Optional)



PROJECT	UNIT	NZ-04S
直线轴 / Linear axis	—	数控四轴联动直线轴 (CNC four axes linkage linear axis)
驱动 / Drive	—	进口伺服电机驱动 (Imported servo motor drive)
行程(X/Y/Z轴) / Stroke (X/Y/Z axis)	mm	240 / 300 / 190
数控系统分辨率(X/Y/Z/A轴) / CNC system resolution (X/Y/Z/A axis)	mm	0.0001
编程和手轮进给最小分辨率(X/Y/Z/A轴) / Minimum resolution for programming of handwheel feed (X/Y/Z/A axis)	mm	0.0001
THK丝杆(X/Y/Z轴) / THK screw (X/Y/Z axis)	—	BN-FN25-C3
THK导轨(X/Y/Z轴) / THK guide rail (X/Y/Z axis)	—	SHS-25V P级 (level P)
重复定位精度(X/Y/Z轴) / Repositioning accuracy (X/Y/Z axis)	mm	0.003
工件旋转轴(A/B轴) / Workpiece rotation axis (A/B axis)	—	旋转轴 (rotation shaft)
DD伺服驱动(A/B轴) / DD servo drive (A/B axis)	—	直接驱动 (direct drive)
快速移动(X/Y/Z轴) / Quick movement (X/Y/Z axis)	m/min	7.5
最大工件重量 / Maximum workpiece weight	kg	5
直线分辨率 / Linear resolution	mm	0.0001
直线重复定位精度 / Linear repeating positioning accuracy	mm	0.003
旋转分辨率 / Rotation resolution	mm	0.0001
旋转重复定位精度 / Rotation Repeating Positioning Accuracy	度 (degree)	0.001
主轴功率 / Spindle power	kw	15(选配: 15KW-20永磁变频电机) (optional: 15-20KW permanent magnet frequency control motor)
机床重量 / Machine weight	kg	4000
总功率 / Total power	kw	≤30kw





**PRECISE**

**NZ-01 C型精密砂轮修整机**

NZ-01 Type C Precision Dressing Machine for Grinding Wheel

## NZ-01 C型精密砂轮修整机

### NZ-01 Type C Precision Dressing Machine for Grinding Wheel



#### 设备概述

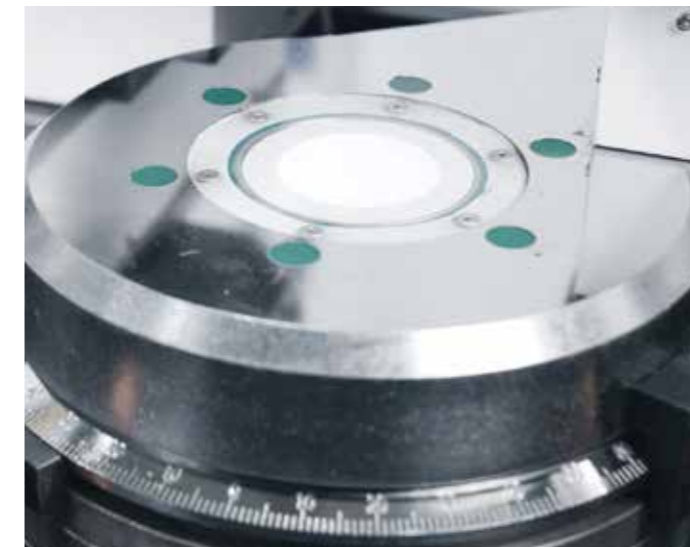
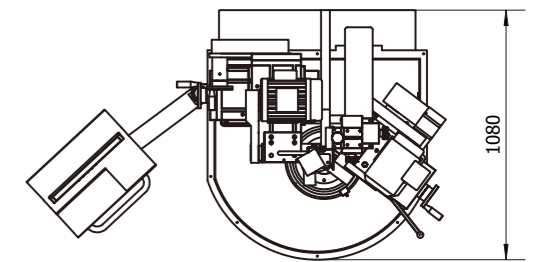
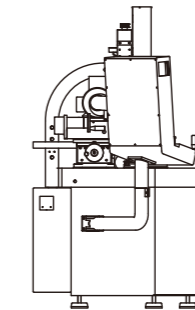
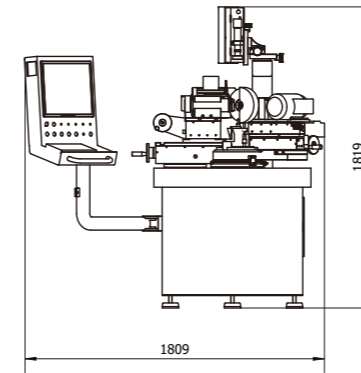
Technical Development

应用于 3C、医疗、汽车、高铁、航空航天、精密刀具磨削等领域。

Applied in 3C, medical, automotive, high speed rail, aerospace, precision cutting tools etc.



Practical, Economical, Operational, Maintenance, Stable, Efficient







## 设备优势

### Equipments Advantages

- ▶ NZ-01C 砂轮修整机, 既可以修整钻石 /CBN 砂轮, 也可以修整平面、侧面、角度、外圆弧和成型砂轮, 单片砂轮和多片砂轮组合同时皆可。
- ▶ NZ-01C 砂轮修整机是在钻石砂轮 /CBN 砂轮及数个砂轮组成的砂轮轴上提供简单及高效率的修整。
- ▶ NZ-01C 砂轮修整机操作简单, 且精准度高。
- ▶ It could not only trim diamond and CBN grinding wheel, but also the flat and side surface, angles, outer arcs and formed grinding wheel, as well as single and multiple grinding wheels.
- ▶ Ideal for grinding diamond and CBN grinding wheel, as well as other types of grinding wheels with convenient and efficient effect.
- ▶ Easy to operate with high accuracy.



## 设备特点

### Features of Machine

- ▶ 机床是采用被修整砂轮和修整砂轮的转速差的原理, 来实现被修整砂轮的形状修整的。
- ▶ 机床主轴砂轮作为被修整的金刚石砂轮或 CBN 砂轮, 附件上所安装的砂轮作为修整砂轮即绿色碳化硅砂轮。
- ▶ 被修整砂轮二个方向可以调整, 即 X 轴、Y 轴。
- ▶ 修整砂轮有三个方向可以调整, 即旋转 A 轴、X1 轴和 Y1 轴, 并且可以变频调速的往复摆动, 除此之外, X1 轴和 Y1 轴之间可以旋转和定位, 可以实现修整砂轮做 180° 旋转。
- ▶ 机床配有 CCD 光学测量系统、光栅尺数显测量系统、10 到 100 倍之放大系统、液晶显示器。
- ▶ The principle is the speed difference between the repaired and dressing grinding wheel.
- ▶ The repaired wheel is for diamond and CBN grinding wheel, while the grinding wheel is green silicon carbide grinding wheel.
- ▶ The repaired grinding wheel could be adjusted in X-axis and Y-axis.
- ▶ The dressing wheel could be adjusted in rotating A-axis, X1-axis and Y-axis directions with variable speed frequency reciprocating oscillation. The X1-axis and Y1-axis could be rotated and positioned for achieving 180° rotation of the whole grinding wheel.
- ▶ Equipped with a CCD optical measurement system, grating ruler digital display measurement system, 10 Up to 100x magnification system and LCD display.



PROJECT	UNIT	NZ-01
钻石砂轮主轴 / Diamond grinding wheel spindle	—	BT40 / HSK50 / 或者定制 (or customized)
钻石砂轮最大直径 / Maximum diameter of diamond grinding wheel	mm	Φ350
钻石砂轮最小直径 / Minimum diameter of diamond grinding wheel	mm	Φ50
钻石砂轮最大宽度 / Maximum width of diamond grinding wheel	mm	40
钻石砂轮转速 / Diamond grinding wheel speed	rpm	0-1500 (无极变速) (continuously variable speed)
钻石砂轮马达 / Diamond grinding wheel motor	kw	0.75
钻石砂轮左右移动距离 / Left and right movement distance of diamond grinding wheel	mm	135
钻石砂轮前后移动距离 / Forward and backward movement distance of diamond grinding wheel	mm	135
钻石圆弧大小 / Diamond arc size	mm	Φ0.05-40
修整砂轮(碳化硅)直径 / Dressing wheel (silicon carbide) diameter	mm	Φ180 / 10 / ψ32
修整砂轮转速 / Dressing wheel speed	rpm	0-2800
修整砂轮马达功率 / Motor Power of dressing grinding wheel	kw	0.75
修整砂轮摇摆次数 / Number of swinging times of dressing grinding wheel	rpm/min	0-50 (无极变速) (continuously variable speed)
修整砂轮摇摆长度 / Length of swinging of dressing grinding wheel	mm	0-50 (可调) (adjustable)
修整砂轮摆动马达功率 / Swing motor power of dressing grinding wheel	kw	0.025
X、Y轴光学尺装置 / X-axis and Y-axis optical ruler device	mm	0.001
CCD及高清镜头 / CCD and high-definition lens	支 (piece)	1
数据采集卡 / Data acquisition card	套 (set)	1
镜头支架 / Lens holder	套 (set)	1
镜头十字工作台 / Lens cross workbench	套 (set)	1
LED上光灯 / LED bottom light	只 (piece)	1
LED下光灯 / LED upper light	只 (piece)	1
电脑主机 / Computer host	台 (piece)	1
液晶显示屏 / LCD display screen	寸 (inch)	19
装载EDIS测量系统 / Loading the EDIS measurement system	套 (set)	1
电源电压 / Power supply voltage	—	380V,50HZ
总功率 / Total power	kw	1.5kw
机器尺寸(长×宽×高) / Machine size (length × wide × High)	mm	1600 / 1200 / 1800
机器总重 / Total weight of the machine	kg	约1500 (about)