



苏州哈勒智能装备有限公司  
Suzhou Haller Intelligent Equipment Co.,Ltd.

地址：苏州市相城区富元路富阳工业坊10号厂房 215131    Add: No.10, FuYang Industrial Park, FuYuan Road,  
XiangCheng District, 215131, Suzhou , China  
电话：+86 (0) 512 6983 3910    Tel: +86 (0) 512 6983 3910  
邮箱：info@szhaller.com    Email: info@szhaller.com  
网址：www.szhaller.com    Web: www.szhaller.com

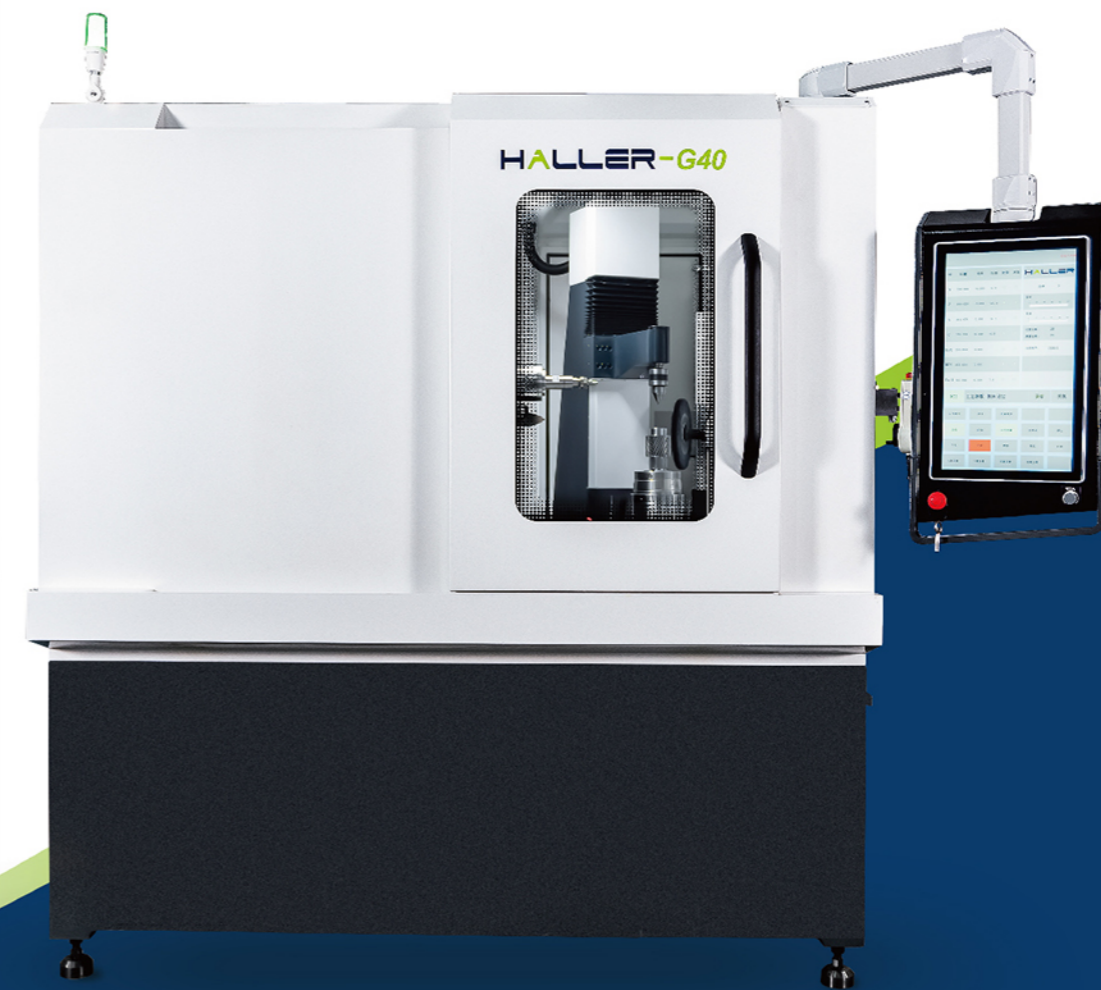


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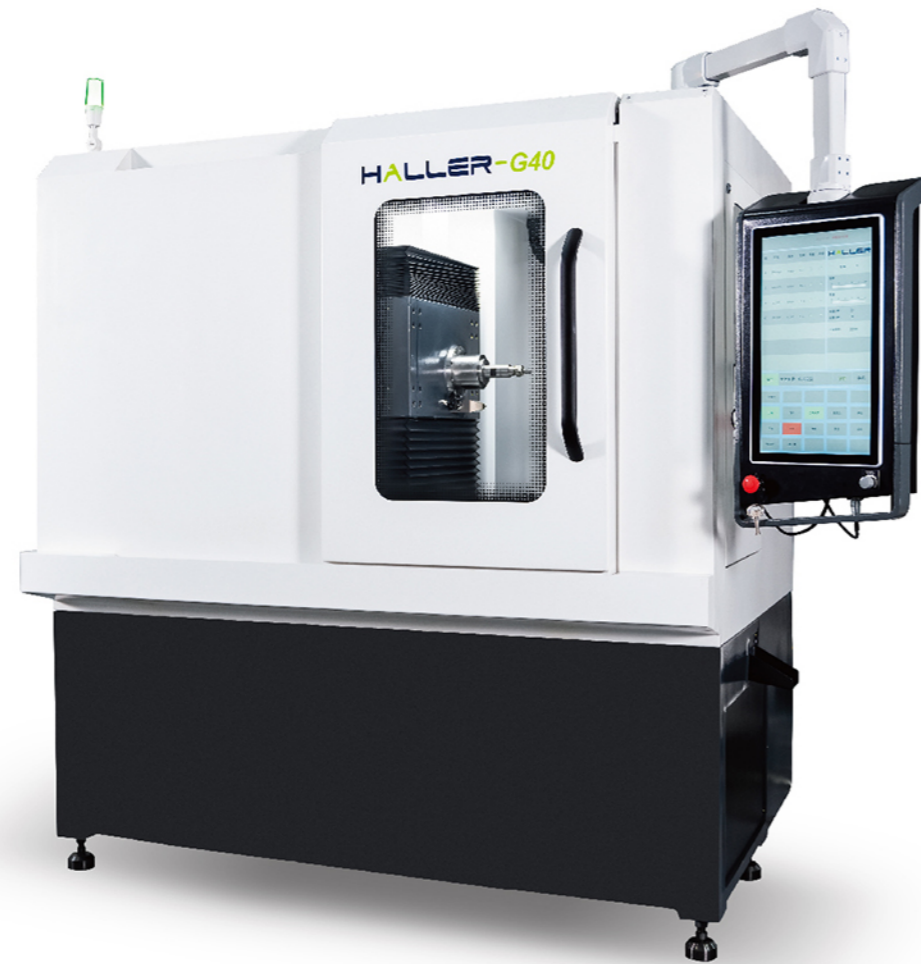
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# HALLER G40

啮合式齿轮倒角机床  
Meshing Gear Chamfering Machine G40



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## HALLER-G40

哈勒智能是一家高精度数控机床的制造商，致力于为客户提供刀具和零件加工解决方案。我们拥有不同系列的数控机床，如工具磨床、凸轮磨床、医疗骨锉磨床和齿轮倒角机床等，广泛应用于汽车、航空、电子、医疗等各个领域。

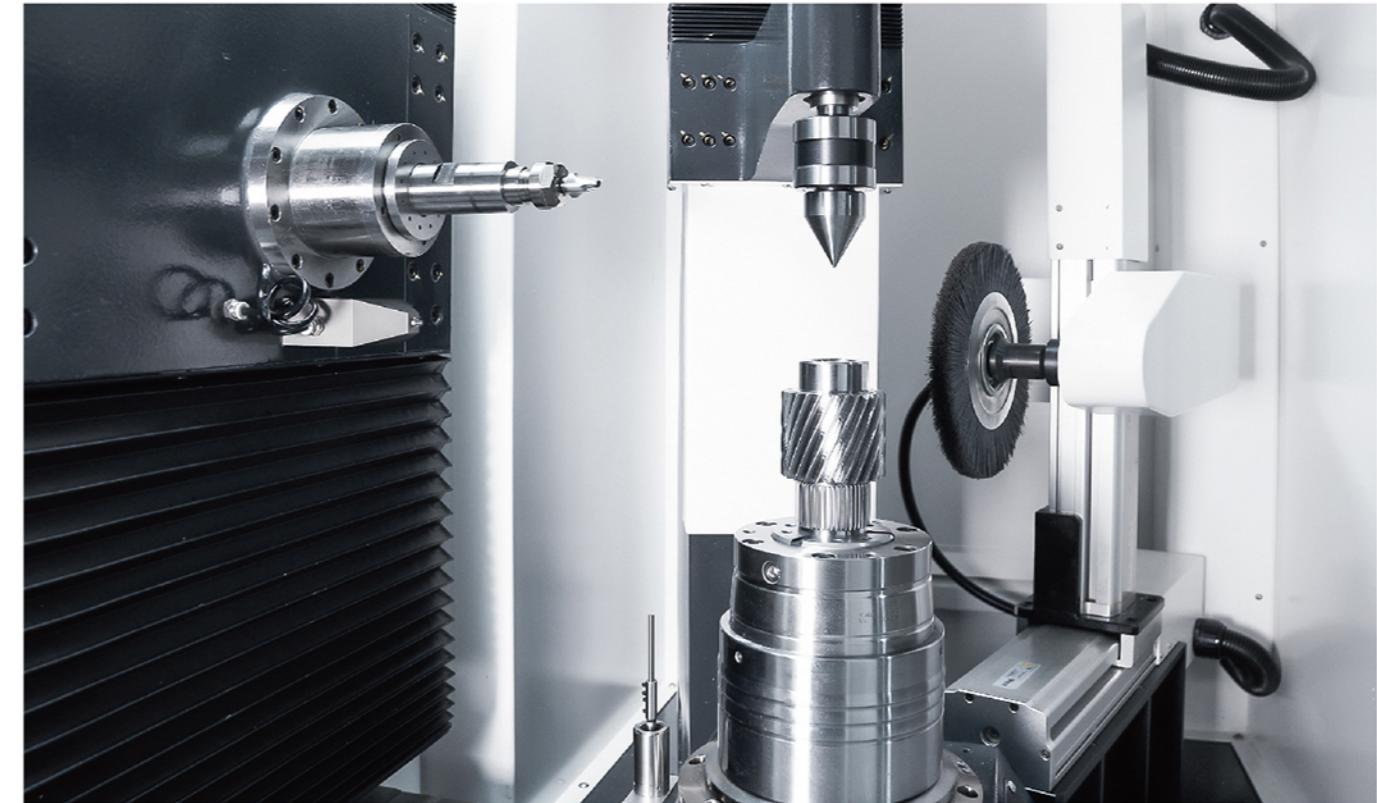
我们不仅可以为客户提供多元化的解决方案，专业的应用培训，优质的售后服务，还可以帮助客户解决加工难点，为客户创造更多价值。

Haller Intelligent is a manufacturer of high precision CNC machines, providing solutions of tools and parts processing. We have different series of CNC machines, such as tool grinding machines, cam grinding machines, medical bone rasper grinding machines, gear chamfering machines, widely used in industry fields including automobile, aviation, electronics, medical etc.

We can not only provide customers with diversified solutions, professional application training, and high-quality service, but also can help them solve processing problems and create more value for customers.

## 内部概览

Inside Overview



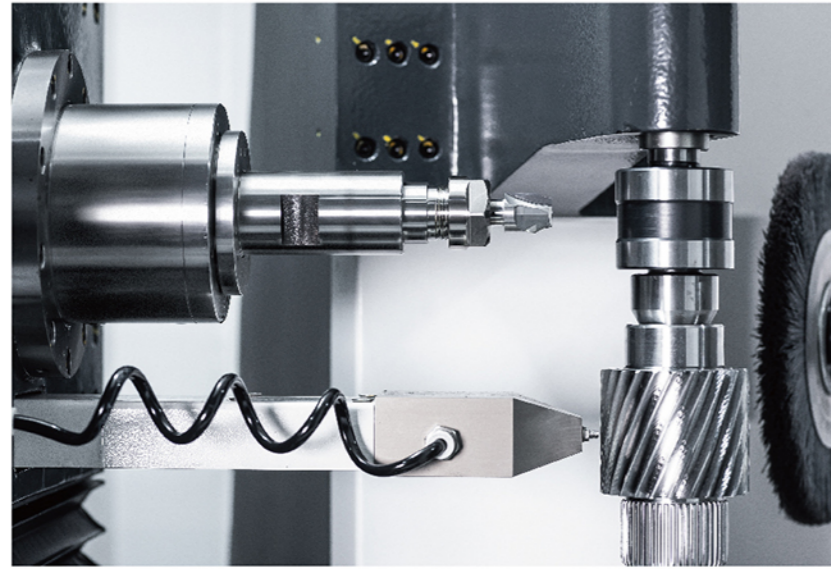
## 功能优势

Function Advantages

- 采用成型铣刀和齿轮相啮合的加工方式，效率高，稳定可靠；
  - 定制化齿轮倒角加工软件，人机交互，柔性化设计，操作简便；
  - 采用高精度感应式传感器，实现对工件和刀具的在线测量，确保了加工质量的稳定性；
  - 工件轴采用DD直驱电机，定位精度和重复定位精度高；
  - 可实现轴类齿轮和盘类齿轮的加工，加工范围大；
  - 采用自动尾顶装置和自动轮刷装置，结构设计合理化；
  - 定制化工件自动夹紧装置，拆卸方便；
  - 标准配备全封闭式防护罩，安全方便。
- The milling method of meshing gear with the profile cutter enables higher efficiency and reliability;
  - Customized gear chamfering software with human-machine interaction, flexible design and easy operation;
  - Adoption of high-precision inductive sensors enables on-line measurement of workpieces and tools, ensuring stable machining quality;
  - Workpiece axis adopts DD direct drive motor with high positioning accuracy and repeatability;
  - Wide range of machining possibilities for shaft gears and disk gears;
  - Adoption of automatic tail stock and automatic wheel brush device, rationalization of structural design;
  - Customized automatic clamping device for work piece, easy to change-over to a new gear batch;
  - Equipped with fully enclosed protective cover, safe and convenient.

## 自动在线测量系统

Automatic Internal Measuring System



### 工件测量系统

Workpiece Measuring System

采用高精度感应式传感器，实现在线对工件进行测量，确保了工件的加工质量稳定性。

Adoption of high-precision inductive sensors realizes on-line measurement of workpieces and ensures the stability of workpiece processing quality.



### 刀具测量系统

Tool Measuring System

在线对刀具进行定位，在加工过程中自动修正刀具加工的初始位置，保证了加工的稳定性和。

Online positioning of the tool and automatic correction of the initial position of the tool machining during the machining process ensure the stability of machining.

## 自动化装置

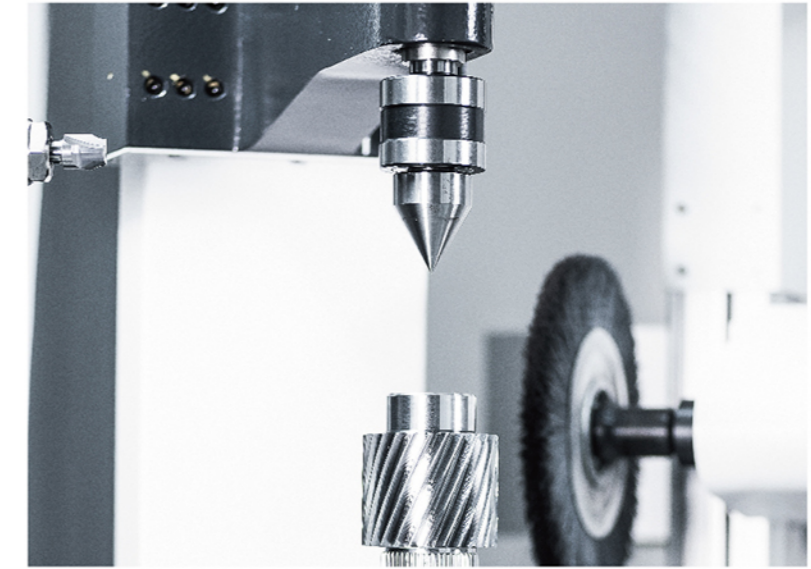
Automation

### 自动尾顶装置

Automatic Tail Stock

配备伺服电机驱动，定位和运动控制精确高，响应速度快，可保证尾顶装置的高精度、高效率，从而确保工件加工的高稳定性。

Equipped with servo motor drive, the positioning and motion control is highly accurate and fast response speed, which can ensure the high precision and high efficiency of the tail stock, thus ensuring the high stability of workpiece processing.



### 自动轮刷装置

Automatic Wheel Brush Device

配备轮刷去毛刺装置，实现自动化去毛刺功能，确保无毛刺翻边，提高加工后产品的表面质量。

Equipped with wheel brush deburring device to realize automatic deburring function, ensure burr-free flanging and improve the surface quality of processed products.



## 稳定可靠的控制系统

Reliably Stable Control System

### 控制系统

Control System

- 德国倍福数控系统；
- 21.5英寸彩色显示屏, 个性化操控面板, 直观简便；
- 开放式数控系统, 便于维护和升级更新；
- 通过光纤链接的可旋转操作面板方便操作；
- PLC响应实时性可以达到0.001Ms。
- German Beckhoff CNC;
- 21.5-inch color display with uniquely simple operating panel;
- Open CNC system, easy to maintain and update;
- Rotatable panel connected via Ether-cut simple for simple operation;
- PLC response in real-time can reach 0.001Ms.



### 齿轮倒角加工软件

Gear Chamfering Software

- 用户定制化参数, 可人机交互；
- 实时程序测量系统, 对刀具和工件实现在线测量；
- 智能程序管理和程序生成功能, 操作简便。
- User-customized parameters, human-machine interaction;
- Real-time programmed measurement system for in-line measurement of tools and workpieces;
- Intelligent program management and program generation functions for easy operation.



## 加工示例

Workpiece Samples

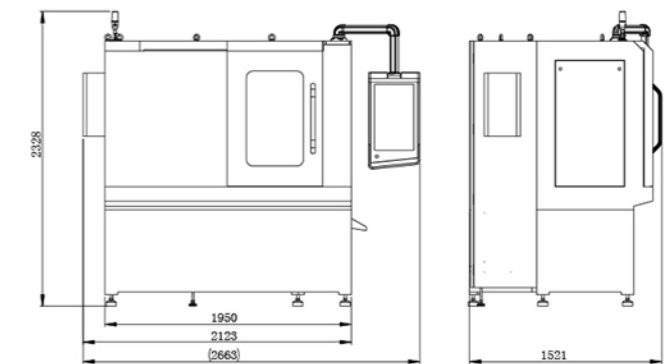


## 技术参数

Technical Data

加工范围 Range Of Work	
加工齿轮外径范围 Outer Diameter of Gear	26-320mm
控制系统 Control System	
CNC 控制部分 CNC Control Unit	Beckhoff
TFT液晶显示器 TFT Liquid Crystal Display	21.5英寸 Inch
齿轮倒角加工软件 Gear Chamfer Machining Software	
倍福控制系统 Beckhoff	
测量系统 Measurement System	
刀具测量 Tool Measurement	3-D 探针 Probe
工件测量 Workpiece Measurement	电感式探针 Inductive Probe
主轴 Spindle	
主轴转速 Spindle Speed	0-6000rpm
主轴电机功率 Spindle Motor Power	2KW
高速主轴夹头最大规格 Max High-speed Spindle Collet	ER20-12
工件轴 Workpiece Axis	
驱动形式 Drive Form	DD直驱 Direct Drive(DD)
工件夹紧系统 Tool Clamping System	自动 Automatic
电机功率 Motor Power	0.94KW

轴行程 Axis Travel	
Z轴 (上下移动) Z Axis (Spindle Box Moves Up And Down)	320mm
Y轴 (左右移动) Y Axis (Spindle Box Left And Right Movement)	190mm
速度 (Y轴快速进给) Speed (Y-axis Fast Feed)	10m/min
速度 (Z轴快速进给) Speed (Z-axis Fast Feed)	10m/min
速度 (Y轴切削进给) Speed (Y-axis Cutting Feed)	1~10m/min
速度 (Z轴切削进给) Speed (Z-axis Cutting Feed)	1~10m/min
Y/Z轴 Y/Z Axis	伺服电机 Servo Motor
机床尺寸 Machine Dimensions	
长度/宽度/高度 Length / Width / Height	2123mm*1521mm*2328mm
重量 Weight	Appr.5000KG
所需电源容量 Power Capacity	20KVA
压缩空气 Air Supply	≥6bar



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