

Grindermac series

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LEADERMAC MACHINERY CO., LTD.

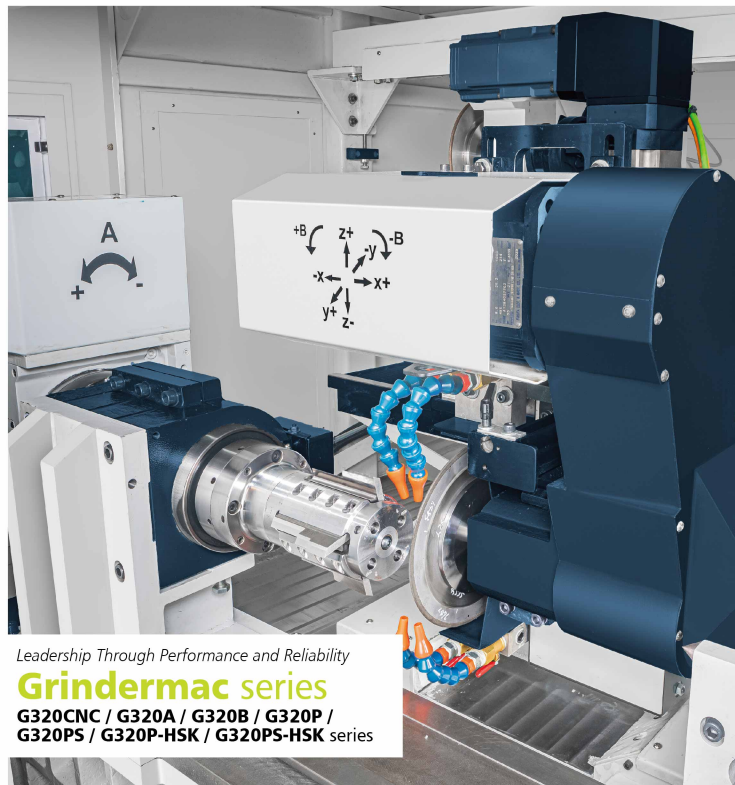
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Leadership Through Performance and Reliability

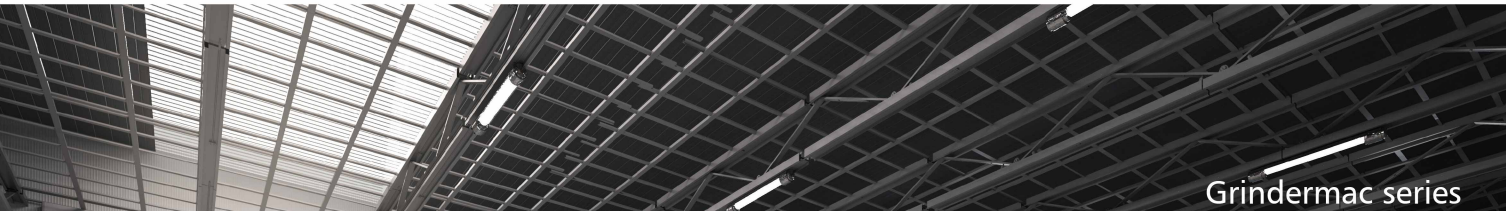
Grindermac series

**G320CNC / G320A / G320B / G320P /
G320PS / G320P-HSK / G320PS-HSK series**

LEADERMAC MACHINERY CO., LTD.

Quality Features Add More Value to Your Production





OUTSTANDING FEATURES:

- The optional variable-speed function allows users to select the optimal grinding speed for any tool steel. Higher speeds harden the grinding wheel, increasing wear resistance and making it suitable for fine profiles requiring precise wheel shapes. Lower speeds soften the wheel, enabling faster material removal and preventing glazing.
- As wheel diameter decreases, spindle speed increases to maintain a constant surface speed at the grinding point, ensuring consistent cutting performance.

Grindermac series G320CNC

Leadership Through Performance and Reliability

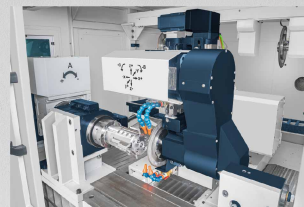
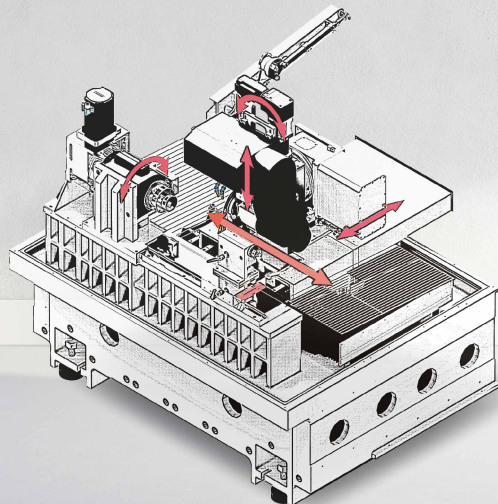


The G320CNC Automatic Tool Grinder is a high-precision CNC machine for sharpening and shaping straight and profile woodworking cutters. It extends tool lifespan, reduces processing costs, and ensures uniform grinding results.

G320CNC Grindermac series

OUTSTANDING FEATURES:

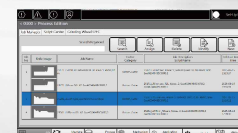
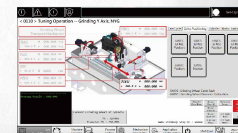
- Start by placing the unsharpened cutter blades into the tool holder and securely attaching it to the A-axis of the profile tool grinder.
- Design the cutter blade in 2D software, such as CAD, and import the DWG or DXF file into the machine's control system. Set grinding parameters for roughing and finishing, including wheel compensation. Position the blades evenly laterally and maintain radial orientation.
- Advanced CNC and intelligent grinding technology allow the machine to achieve 0.01 mm precision.
- The fully automated grinding and milling process is user-friendly due to the Siemens control system, which allows presetting parameters such as feed rate, grinding angle, and number of passes.
- Multiple tool datasets can be saved to streamline batch operations and increase productivity.
- The grinder features a tool management system and an automatic tool magazine that holds up to four grinding wheels simultaneously.
- This setup enables seamless wheel changes for different tool profiles and supports continuous multi-tool processing. The integrated optical measurement system continuously monitors tool dimensions to ensure specification compliance.
- All operational data is stored electronically using Microsoft SQL Server, removing the need for paper records.



After grinding, the tool holder with finished blades can be mounted directly onto the production machine, ensuring consistent quality without further blade adjustment.



The Siemens control system offers an intuitive interface for setting grinding parameters. Multiple tool datasets can be stored to optimize batch operations.



Grindermac series G320A / G320B

Leadership Through Performance and Reliability

OUTSTANDING FEATURES:

- Cutter rotation is automatically controlled by PLC for high accuracy.
- Grinding head movement is automatically controlled by PLC, ensuring high grinding accuracy.
- Humanified touch-sensing screen allows for convenient operation.
- Multiple micro-switches protection upgrades operational safety.
- Hydraulic system controls the slide movement rightward / leftward, featuring maximum stability.
- Automatic or manual movement of slide is quick to change.
- The entire machine is thoroughly protected by safety guards to achieve higher safety.
- Fast cutterhead change saves considerable time while upgrading efficiency.
- The control panel offers simple setting of tool parameters that saves cutter setting time.
- Movable working light for added convenience.



G320B



G320A



NC CONTROLLER



G320B Beveled Knife Back Grinding
(ex. Solid cutter, Finger jointer knife)



G320B Knife Edge Grinding
(Movable straight knife)



G320A Knife Edge Grinding
(Movable straight knife)

Automatic Cutter Grinder

The Grindermac G320A and G320B automatic cutter grinder is an advanced grinder, featuring fully automatic grinding operation. With the PLC control, high grinding accuracy is obtainable.

G320P(HSK) / G320PS(HSK)

Grindermac series

OUTSTANDING FEATURES:

- The profile cutter grinder is designed for grinding knife profile and sharpening applications. Especially ideal for grinding profile-cutters used for cutting decoration strips.
- Allows for grinding a cutterhead with 2, 4, 6, 8 or more knives. The ground cutterhead can be directly mounted on the machine without need of further adjustment of knives.
- **SPEED CHANGE CONTROL:** Can be equipped with speed control for adjusting grinding wheel speed suitable for various types of knives.
- **ROTARY TYPE TRACING ROD ASSEMBLY:** Choice of various shapes of tracing rod to suit complicated knife profiles.
- **CURVE SHAPED SLIDE:** When changing grinding angle, it is not necessary to dress the grinding wheel to return to dressing reference and adjust gap of tool rest. When the grinding wheel diameter decreases, it is convenient to adjust the gap of tool rest.
- **GRINDING WHEEL DRESSER:** Provides fast dressing of grinding wheel to a shape complying with that of the tracing rod. Also suitable for correcting wear of the grinding wheel. When the grinding wheel diameter decreases, no additional calibration is required.
- **GRINDING WHEEL CLAMP AND MICROMETRIC ADJUSTMENT OF WHEEL ARBOR:** Provide fast adjustment of grinding wheel to keep it at the original dressing position.
- **TWO-DIRECTION POSITIONING OF ARBOR:** This function permits fast positioning when mounting cutterhead on the arbor. This is combined with the positioning of template support to eliminate further calibration.
- **TILTING GRINDING RESET DEVICE:** It allows for accurate and fast positioning after tilting grinding has been performed.
- **COOLING SYSTEM:** It prevents knife from burning during grinding. Also suitable for removing powder and chips during grinding.
- **WASHING DEVICE:** Provides for convenient cleaning on grinding table.
- The machine is conveniently lifted or moved by a forklift.



G320P

- For profile knives.



G320PS

- For profile and straight knives.
- **TWO MACHINES IN ONE:** This machine is also capable of grinding various straight knives. Easy to convert without need to change parts.
- **OPTIONAL POWERED ADJUSTMENT:** This function eliminates manual adjustment, enhancing operation convenience.



G320PS-HSK

G320P Grindermac series



G320P Profile knife grinding



G320P Multiple tracing rods allow for accurate and convenient grinding

G320PS Grindermac series



G320PS Profile knife grinding



G320PS Straight knife grinding



G320PS Multiple tracing rods allow for accurate and convenient grinding



G320PS Grinding wheel dressing

G320P-HSK / G320PS-HSK Grindermac series



G320PS-HSK Profile knife grinding



G320PS-HSK Straight knife grinding

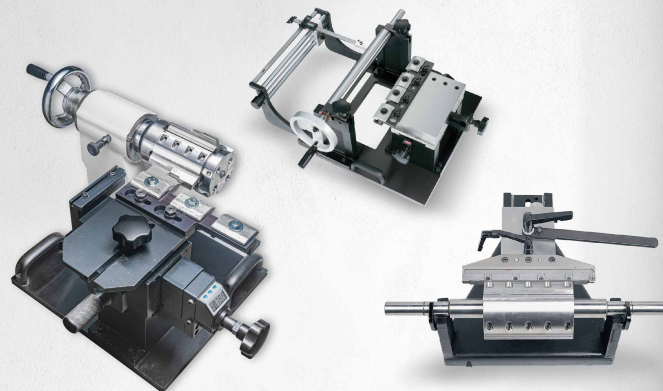
Too Setting and Measuring Device

1. Easy operation, quickly convert measurement data into tool settings for seamless transfer to the mold.
2. A dedicated SQL Server database ensures data consistency across multiple connected machines.
3. Vision-based measurement technology replaces traditional manual interpretation, significantly improving measurement accuracy and operational efficiency.
4. This architecture reduces dependency on individual machine databases and enables advanced pre-scheduling capabilities.

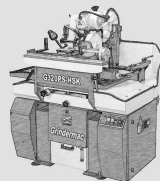


Tool Calibration Device

A tool calibration device can be supplied for the convenient and accurate calibration of each cutterhead, thus ensuring perfect cutterhead running.



Quality Features Add More Value to Your Production



SPECIFICATIONS

MODEL	G320CNC
Machine Performance	
Max. Tool Length	360 mm (14.17")
Min. Tool Diameter	93 mm (3.66")
Max. Tool Diameter	300 mm (11.8")
Max. Profile Depth	40 mm (1.57")
Max. Tool Weight	80 kgs
Tool Holder (HSK)	85 w
Grinding Wheel	
Max. Diameter	230 mm (9")
Bore Diameter	60 mm (2.36")
Spindle Speed	
Variable Frequency	1500 - 4000 rpm
Motor Output	
Grinding Spindle	5.5 kW (7.5 HP)
Coolant Pump	0.75 kW (1 HP)
Cooling System	
Tank Capacity - Max.	440 L (116 gal)
Work Light	20 W

● Note: This machine is not designed for materials that may produce fire or explosion hazards during grinding/milling, such as aluminum, magnesium, or similar materials. It is not intended for use in explosive environments.

SPECIFICATIONS

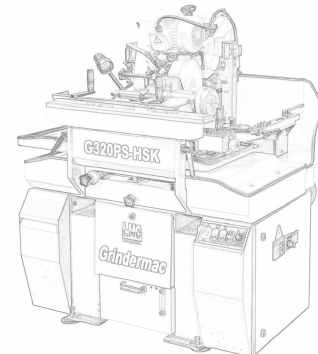
MODEL	G320A (G320A-HSK)	G320B (G320B-HSK)
Max. Length of Cutterhead		
Conventional Cutterhead (By Nut Locking)	320 mm (12.6")	320 mm (12.6")
Hydraulic Cutterhead (By Hydraulic Bushing Locking)	320 mm (12.6")	320 mm (12.6")
Max. Diameter of Cutter	320 mm (12.6")	320 mm (12.6")
Min. Diameter of Cutter	125 mm (5")	125 mm (5")
Max. Number of Knives	32	32
Grinding Wheel		
Diameter	175 mm (6.9")	175 mm (6.9")
Bore	25 mm (1")	20 mm (0.79")
Spindle Speed	3000 rpm	1000 - 6000 rpm
Motors		
Grinding Wheel Arbor	1.5 kW (2 HP)	3.75 kW (5 HP)
Coolant Pump	0.188 kW (0.25 HP)	0.188 kW (0.25 HP)
Hydraulic Motor	0.75 kW (1 HP)	0.75 kW (1 HP)
Cooling System		
Coolant Tank Capacity - Max.	28 liters (6.15 gallons)	23 liters (6.08 gallons)
Coolant Tank Capacity - Min.	16 liters (3.5 gallons)	11 liters (2.91 gallons)
Machine Dimensions		
Length	1905 mm (75")	1985 mm (78.1")
Width	1100 mm (43.3")	1645 mm (64.8")
Height	1500 mm (59")	1800 mm (74.8")
Worklamp	20 w	20 w

● All specifications, dimensions and design characteristics are subject to change without notice.

SPECIFICATIONS

MODEL	G320P (G320P-HSK)	G320PS (G320PS-HSK)
Max. Length of Cutterhead		
Using Locking Collars	320 mm (12.6")	320 mm (12.6")
Hydro Locking Block	320 mm (12.6")	320 mm (12.6")
Max. Cutting Circle		
Profile Grinding	350 mm (13.8")	350 mm (13.8")
Straight Knife	-	300 mm (11.8")
Min. Cutting Circle		
All Types	70 mm (2.75")	70 mm (2.75")
Max. Depth of Profile	40 mm (1.57")	40 mm (1.57")
Grinding Wheels For Profile Grinding		
Diameter	230 mm (9")	230 mm (9")
Width	5 mm (0.197")	5 mm (0.197")
Dressed Width	4.7 mm or 3.0 mm	4.7 mm or 3.0 mm
Bore	60 mm (2.36")	60 mm (2.36")
For Solid Profile (C.B.N. Type)		
Diameter Options	-	100 mm (4")
Bore	-	20 mm (0.787")
Spindle Speeds (Infinitely Variable)		
Profile Grinding Spindle	1500 - 3000 rpm	1500 - 3000 rpm
Straight Knife Spindle	-	3000 - 6000 rpm
Motor Outputs		
Profile Grinding Spindle	1.5 kW (2 HP)	1.5 kW (2 HP)
Straight Knife Spindle	-	0.75 kW (1 HP)
Head Tilt	-	0.025 kW (0.03 HP)
Coolant Pump	0.188 kW (0.25 HP)	0.188 kW (0.25 HP)
Coolant System		
Tank Capacity - Max.	36 liters (8 gallons)	36 liters (8 gallons)
Tank Capacity - Min.	18 liters (4 gallons)	18 liters (4 gallons)
Machine Dimensions		
Depth	1150 mm (45.3")	1100 mm (43.3")
Width	1150 mm (45.3")	1150 mm (45.3")
Height	1680 mm (66.2")	1505 mm (59.3")
Worklamp	20 w	20 w

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