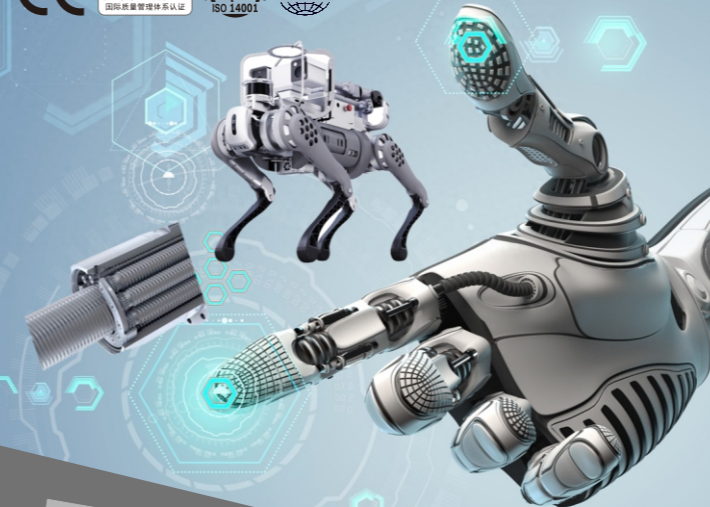


# BEIPING MACHINE



Smart Grinding Expert



SMART  
GRINDING  
EXPERT



GRINDING TECHNOLOGY SOLUTION

## BEIPING MACHINE (ZHEJIANG) CO.,LTD.

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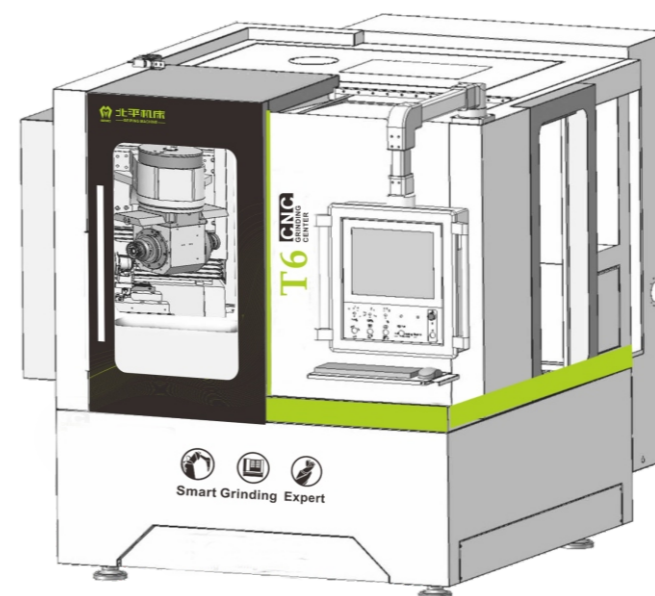
Website



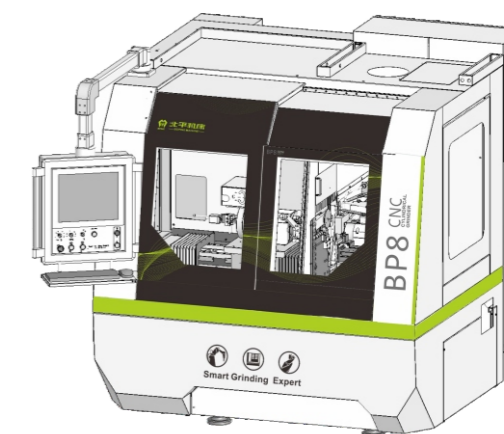
Tiktok



Wechat



6 Axis Tool Grinding Center



CNC Cylindrical Grinder

Creating Value Through Technology

Software-defined  
Five-axis precision grinding



R&D Center



Manufacturing base

Each Machine, and Robot is.....

Integrated with European- Technology and Manufacturing Process



SCIENTIFIC MANAGEMENT AND PERFECT DESIGN  
BEST PERFORMANCE AND PERSISTENT INNOVATION  
HIGH TECHNOLOGY AND RICH EXPERIENCE

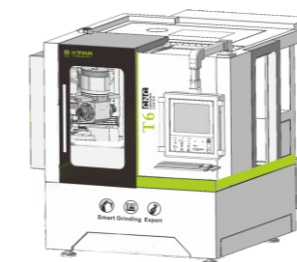
SHARP TOOLS MAKE EFFICIENT WORK

SMART GRINDING EXPERT

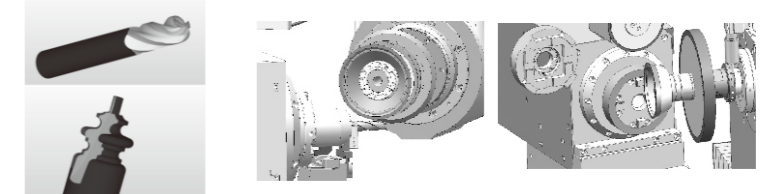
- 5-Axis CNC cutter grinder . . . . P01-P06
- Vertical CNC grinder . . . . P07-P08
- CNC OD & ID grinder . . . . P09-P12
- Thread、Screw grinder . . . . P13-P14
- CNC hob & cam grinder . . . . P15-P16
- CNC hydrostatic centerless grinder . . . . P17-P18
- CNC end mill & tap grinding producing line . . . . P19-P22
- CNC Insert grinder . . . . P23
- Robot/Oil filter . . . . P24



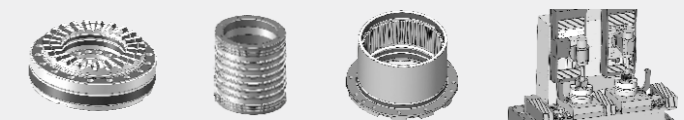
Capable for OD, forming and step grinding of carbide blanks (dia.Φ25mm). BP8 CNC step cylindrical grinder is able to grind regular flat surface, multi-angles, eccentric and noncylindrical cam surfaces.



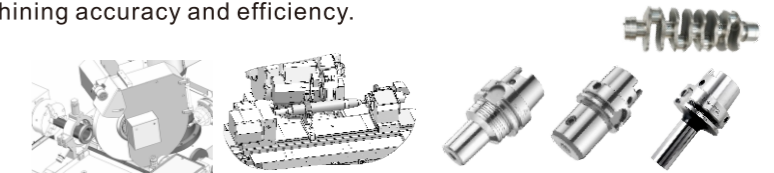
BP tool grinders widely applied in high precision tool grinding application for automotive, aviation, IT, medical and telecommunication industries; It's also capable for production of inserts, woodworking, CBN cutters.



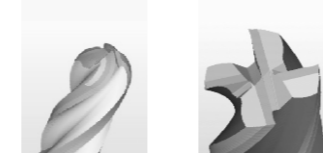
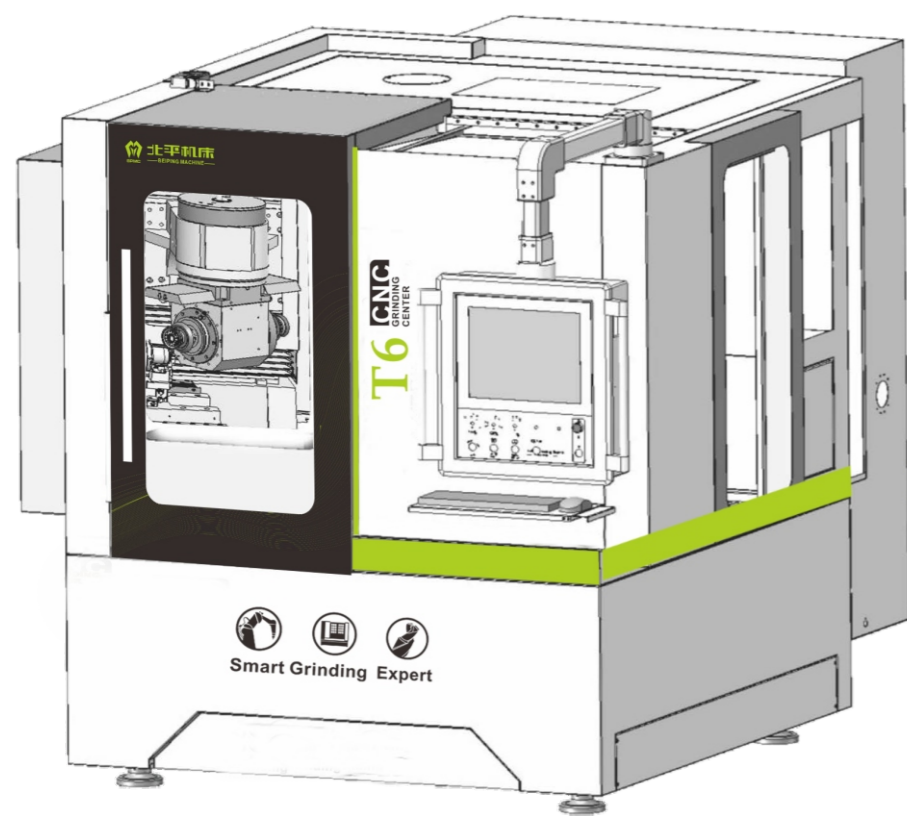
BP850 high precision vertical complex grinders are perfect for the ID & OD, faces and counter faces. The grinding process is no longer depended on operator's skill to realize perfect perpendicularity and concentricity.



The BP321/BP22 precision CNC grinding machine is suitable for grinding workpieces of various sizes, including internal diameter, external diameter, stepped, tapered internal/external end faces, and complex profiles in a single setup. It can be equipped with an automatic loading/unloading system to enable intelligent mass production, significantly improving machining accuracy and efficiency.



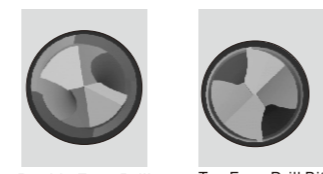
# T6/T8 6 Axis CNC Tool Grinder



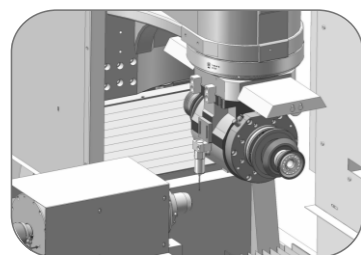
Ball Nose End Mills



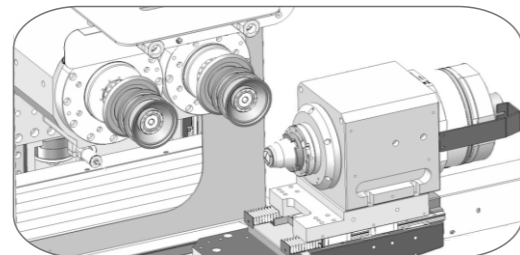
Woodworking Annular Cutter



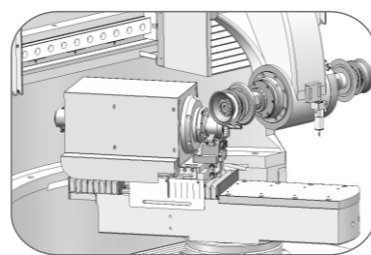
Double Face Drill Tap Face Drill Bit



T6



T6A

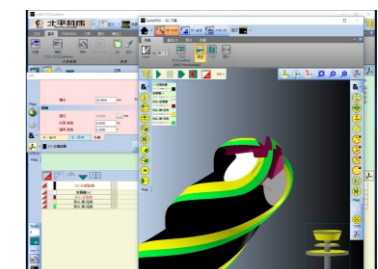


T8

Equipped with direct drive spindle for double grinding wheel set, T6/T8 5-axis CNC grinder is perfect for automatically mass production of mills, drills, screw taps for aviation, automotive, molds, IT and medical industries.

Main technical features:

- 1, Direct drive/ Linear motor on workpiece swiveling axis (B), workpiece rotating axis (C) and X,Y,Z axis with HEIDEHAIN/FAGOR/RENISHAW linear scale for higher machine accuracy.
- 2, Special support devices are optional for longer drills grinding with high efficiency and high precision.
- 3, Natural granite machine base provides excellent accuracy and temperature stability, which is a wise option for high accuracy tool grinding.
- 4, Automatic loading & unloading system with anti-collision, maintenance free and fine adjustment function
- 5, Thanks to the innovative accurate press-blade system, precise grinding could be realized efficiently.
- 6, Workpiece axis (C axis) is equipped with pneumatic clamping and blowing device for fast change system. Pressure relief window, automatic power & air off, power failure automatic lock.
- 7, Wide extension with BP/SYNTEC/NUM. Toolbox/NUM ROTO 3D grinding simulating software and innovative BP intelligent grinding software bring a smarter and easier operation experience.

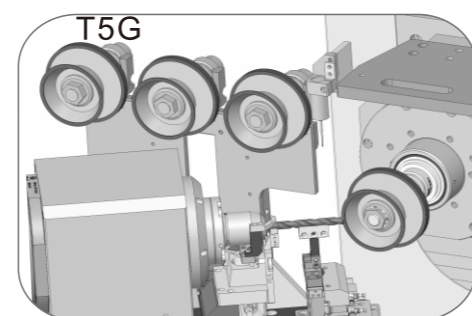
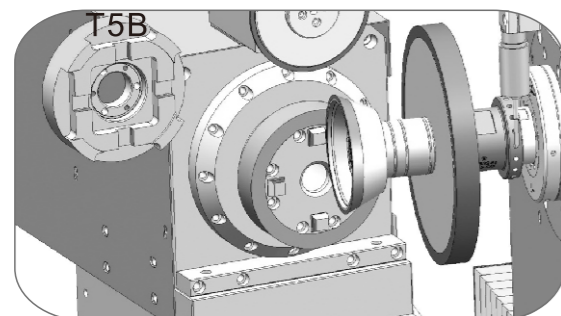
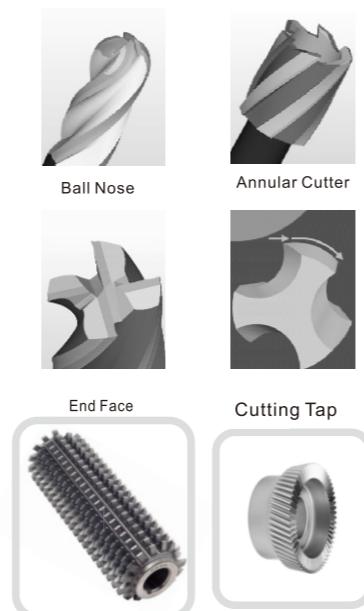
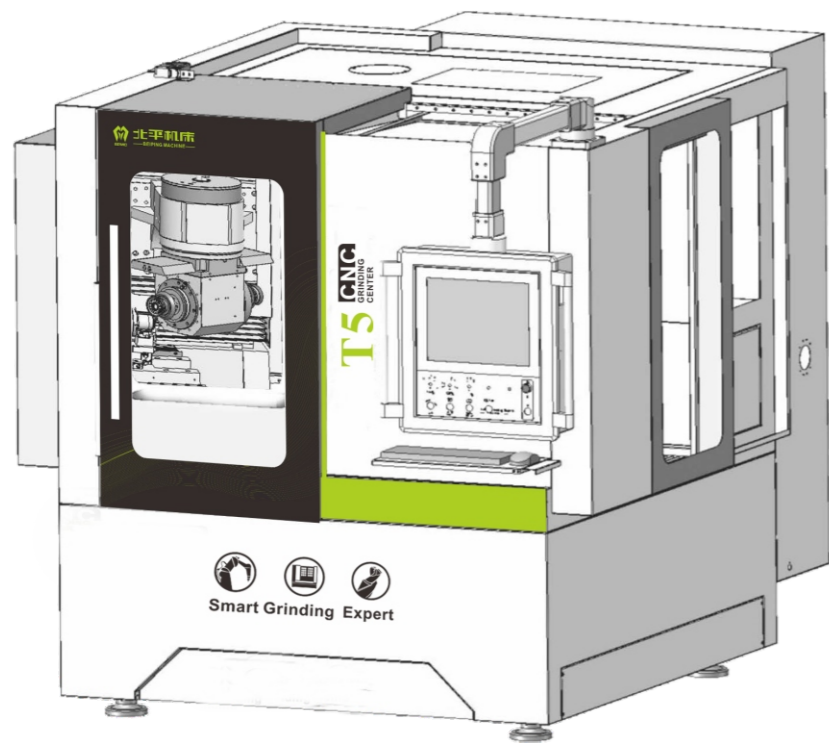


## Specification T6/T8

<b>Grinding spindle</b>	
Flange link	Φ25mm/HSK50 flange
Power	7.5/20/30kW
Max.speed	6000/9000/12000r.p.m
<b>Travel</b>	
X axis	T6:470/T6A:470/T8:650mm
Y axis	T6:470/T6A:280/T8:280mm
Z axis	T6:250/T6A:250/T8:280mm
Max.speed of linear axis	10/30m/min
B-axis rotation range	-20° ~270°
<b>Work piece rotating axis(C axis)</b>	
Max. speed	300/800r. p. m
Standard taper hole type	BT50/W20/W25
Grinding software	Toolbox/numroto
Probing system	Renishaw/ Marposs
CNC system	BY/ SYNTEC/ NUM

<b>Work piece grinding capacity</b> (cutter's size depend on the type and grinding skill)	
Work piece grinding capacity	1-16/25mm
Grinding length	200mm
Control resolution of linear axis	0.0001mm
Control resolution of rotating axis	0.0001°
<b>Robot loading system</b>	
Work piece shank diameter	3-25mm
Max. length of work piece	150mm
Maximum load quantity	345x2
<b>Connecting load</b>	
At 380V/50Hz	15/30/40kW
<b>Dimension</b>	
LengthxWidth	2250x2450mm
Height	2400mm
<b>Weight</b>	
Total weight (depend on the configuration)	4500kg

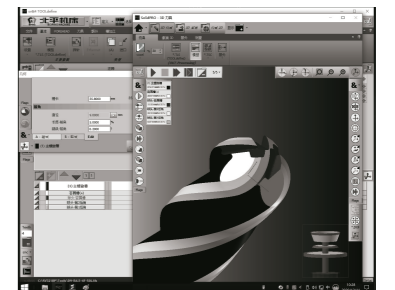
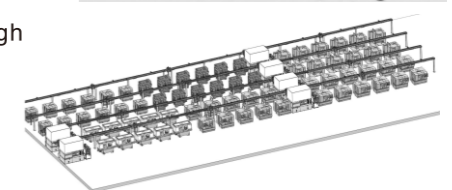
# T5/T5G 5-axis CNC Tool Grinder



T5/T5G 5-axis CNC grinder is perfect for automatically mass production of mills, drills, screw taps for aviation, automotive, molds, IT and medical industries.

Main technical features:

- 1, Direct drive/ Linear motor on workpiece swiveling axis (B), workpiece rotating axis (C) and X,Y,Z axis with HEIDHAIN/FAGOR/RENISHAW linear scale for higher machine accuracy.
  - 2, Special following support devices are optional for longer drills grinding with high efficiency and high precision.
  - 3, Natural granite machine base provides excellent accuracy and temperature stability, which is a wise option for high accuracy tool grinding.
  - 4, Automatic loading & unloading system with anti-collision, maintenance free and fine adjustment function
  - 5, Thanks to the innovative accurate press-blade system, precise grinding could be realized efficiently.
  - 6, Workpiece axis (C axis) is equipped with pneumatic clamping and blowing device for fast change system. Pressure relief window, automatic power & air off, power failure automatic lock.
  - 7, Toolbox 3D grinding simulating software and innovative BP intelligent grinding software bring a smarter and easier operation experience.
  - 8, Smart tool managing system can realize automatic grinding, probing, laser marking.
- Real-time data collecting, remote diagnose, maintenance, supervising and management is possible.



## Specification T5/T5G

Grinding Spindle	
Single spindle Hole	Φ25mm/HSK50 flange
power	7.5/20/30kW
Max.Speed	6000/9000/12000r.p.m

Travel	
X axis	T5:440/T5G:650mm
Y axis	T5:250/T5G:250mm
Z axis	T5:250/T5G:250mm
B axis Rotary Axis	-45° ~270°
Linear Axis	10/30m/min

### Work Piece Rotary Axis(C Axis)

Max.speed(Mechanical/Direct Drive)	300/800r.p.m
Standard Taper Hole:	BT50/W20/W25

Measurement System:	RENISHAW/XF
Controller:	BY/SYNTEC/NUM/HNC

Axis Drives and Motors	YASKAWA
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Spindle Converter	YASKAWA
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### Tools Range ( Grindable Tool depends on its Type and Masching Requirement )

Diameter	3-25mm
Length	200mm

Linear Controlled Resolution	0.0001mm
Rotary Resolution	0.0001°

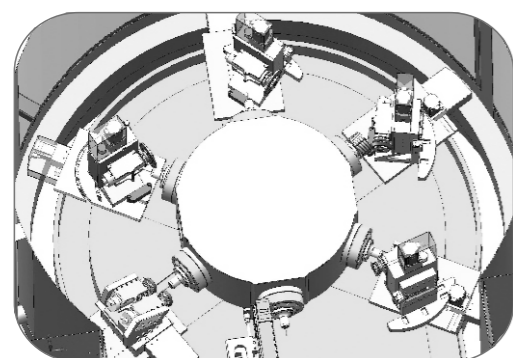
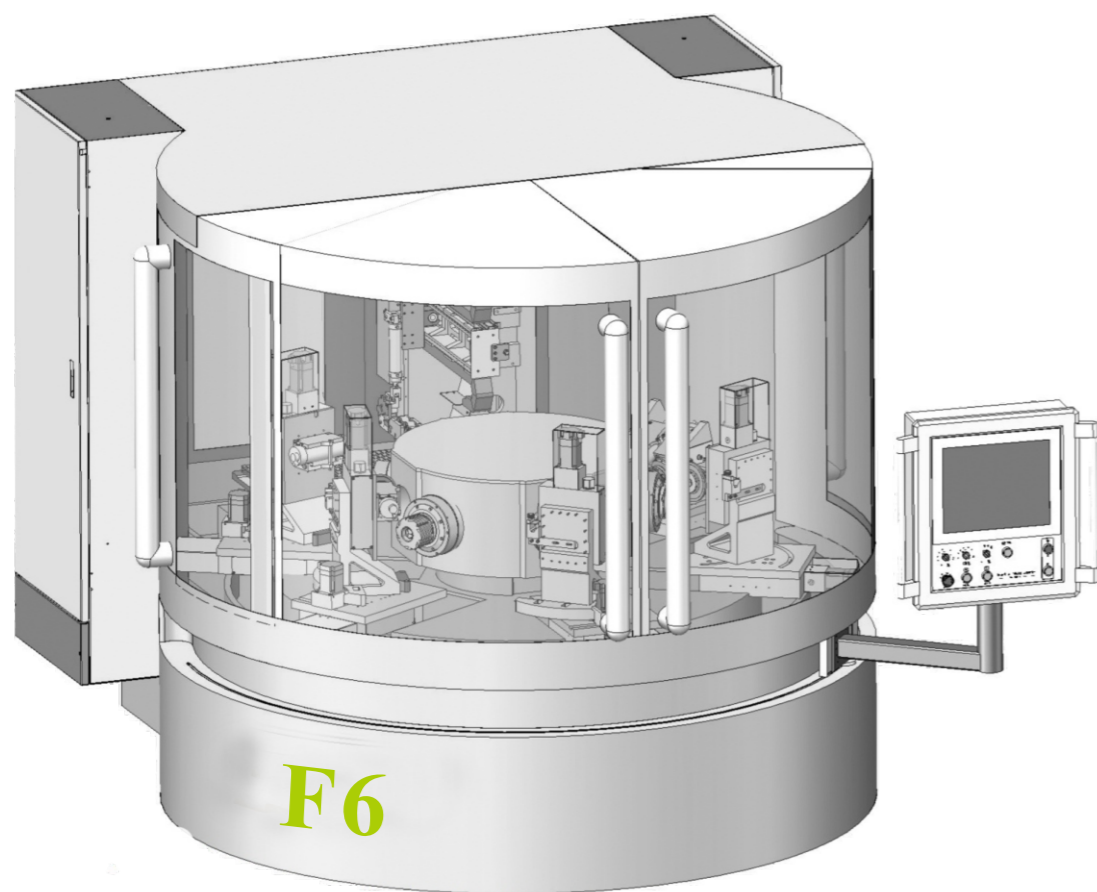
Automatic Loading System	
Diameter of Shank	3-25mm
Max.length of Work Piece	150/250mm

Connected Loading	
At 380V/50Hz	15/30/40kW

Machine Size	
Length x Width	2100x2300mm
Height	2400mm

Machine Weight	
Total Weight	4300kg

# F5/F6 Multiple Station Cutter Grinding Center



Ball Nose



End Face

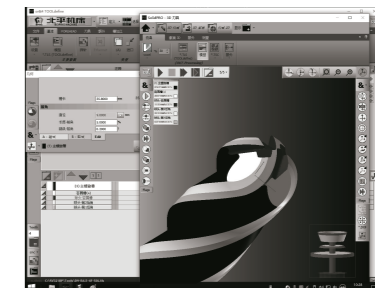


Cutting Tap

BPF6 tool grinding center integrates 6 work station for high precision and high efficiency. Each station can be optimized for the process features of workpiece and tools, thus cycle time would be enhanced more than 3 times faster than conventional single station grinding machines. BPF6 is perfect for automatic mass production of mills, drills, thread taps and customized shape tooling for aviation, automobile, molds, IT and medical industries.

Main features:

- 1, Double bearing guarantee high work table rigidity; Extremely short force feedback loop and very high structure strength.
- 2, Precise temperature control for coolant; measured and corrected by CNC.
- 3, Standard grinding units, easy to setup;
- 4, Multiple types of spindle available for various needs: mills, drills, deburring, threading and etc.
- 5, Fully sealed working units, no chips interruption risk; Precise and reliable drive units.



## Specification F5/F6

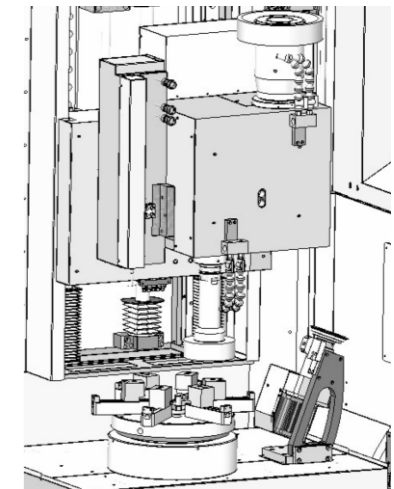
<b>Application</b>		<b>Station 3</b>	
Capability	Mill/Drill/Thread	Flute Grinding	Φ75mm Wheel *2
Grinding Length	30-50mm		6KW Motorized Spindle
Grinding diameter	1-6/10mm		Max.9000RPM
<b>Grinding Scope</b>		<b>Station 4</b>	
Grinding range	0.5-8mm	Retract&Clearance Flute Grinding	Φ100mm Wheel
Helical angle	15-55°		Φ75mm Wheel
Min.cycle time	25s		6KW Motorized Spindle
<b>Station 1</b>			Max.9000RPM
Loader	Max. 1350PCS	<b>Station 6(F6)</b>	
<b>Station 2</b>		Polishing	Φ100mm Wheel
Flute Grinding	Wheel Dia. 100mm		6KW Motorized Spindle
	6KW Motorized Spindle		Max.9000RPM
	Max.9000RPM	<b>System</b>	
<b>Station 5(F6)</b>		BP/SY	4/6 channels
Flute Grinding	Φ75/100mm Wheel	<b>Connected Loading</b>	
	6KW Motorized Spindle	380V/50Hz	10kW
	Max.9000RPM	<b>Machine Weight&amp;Size</b>	
		Weight	4000kg
		Size	2350x2650x2000

# BP850/1250/2500 CNC Vertical Complex Grinding Machine



BP850 high precision vertical complex grinders are perfect for the ID & OD, faces and counter faces. Thanks to double station design, the waiting time is largely shortened. The grinding process is no longer depended on operator's skills to realize perfect perpendicularity and concentricity.

- ⊙ High rigidity OD grinding spindle guarantee stable grinding performance;
- ⊙  $\pm 30^\circ$  ID grinding spindle and  $\pm 45^\circ$  OD grinding spindle with any angle positioning function optional for high efficiency and high precision grinding.
- ⊙ OD grinding spindle accessible for straight wheel and inclined wheel for workpiece with various profile and diameters and higher efficiency for face grinding than cup wheels.
- ⊙ Optional natural granite provides excellent vibration absorption performance and temperature stability.
- ⊙ High precision positioning realized by rotating encoder and servo motor, for straight face and inclined faces grinding without changing wheels.



## Specification BP850/1250/2500

Grinding capacity	
workpiece internal hole grinding rage	40-300/600mm
workpiece internal hole grinding length	220/300mm
workpiece grinding max. hole diameter	500/850mm
max. workpiece grinding length	250/400mm

Travel	
X Axis	850/2000mm
Z axis	500/1200mm

Rotary Axis (C Axis)	
Max. Speed	300RPM

Measurement System	Renishaw/ XF
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Controller	BP/SYNTEC/Fanuc/HNC
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Grinding capacity	
roundness	0.002mm
Coaxiality	0.003mm
Cylindricity	0.003mm
Perpendicularity	0.003mm
Roughness	Ra0.2 $\mu$ m
Positioning accuracy	0.0035mm
Re-positioning accuracy	0.0025mm

Connected Loading	
380V/50Hz	25kW

Size	
Length x Width	2550x2100mm
Height	2500mm

Weight	
Total Weight (Depends on the Configuration)	7500/10000kg

## BP321 CNC OD & ID Machine

BP321 precision CNC grinding machine are suitable for different size workpiece internal diameter, outer diameter, step, taper, inside/outside end face, profiled surface grinding by one-time clamping. Automatic loading and unloading system could be equipped to realize intelligent mass production. The grinding accuracy and efficiency could be improved significantly.

Creative rotated turret type spindle design, max. 2 OD spindle, total 4 ID/OD spindle could be equipped, to realize multiple station complex grinding.

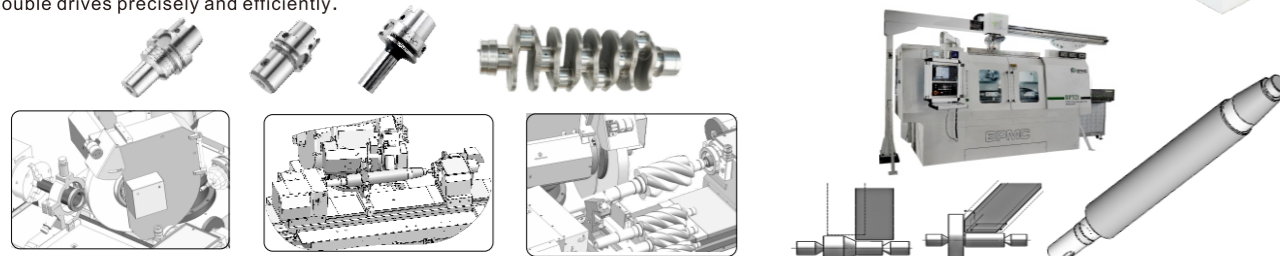
Select BEIPING three points casting/natural stone composite machine base, with good vibration absorption and thermal deformation resistance.

Workpiece headstock spindle equipped C axis, could be used for non-circle and thread grinding. Select direct drive/linear motor, with Heidenhain scales, could control products grinding accuracy effectively.

Adopted BEIPING specific complex grinding software, grinding program could be generated automatically by inputting several parameters, operation is very simple.

Intelligent production system integration, high expanding flexibility, external programming and editing by remote controlling and remote diagnosis are available on the machine.

BP321 grinder could select serve drive center, to realize multiple special grinding skill by double drives precisely and efficiently.



### Specification BP321

Grinding Spindle	
Spindle Layout	Horizontal
Spindle Quantity	3/4
Power of the OD	15KW*2
Power of the ID	8.5KW*2

Travel	
X Axis	1180mm
Y Axis	380mm

Wheel headstock	
Type	rotation turret
Rotation range	-35° ~ 235°
Automatic rotation axis	Direct drive motor
Drive power	300N.M
Rotation speed	24000-60000RPM

Scale(Optional)	Heidenhain/Fagor/YH
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System	BP/SYNTEC/Fanuc/HNC
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Grinding Scope	
Suitable size	Axial type parts
Workpiece diameter	6-350mm
Workpiece length	1100mm
Workpiece clamping collet type	3 jaw chuck/Specific chuck

Linear Axis Controlled Resolution	0.0001mm
Rotary Axis Controlled Resolution	0.0001°

Gross power	25KW
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Machine Size	
LengthxWidth	3250x1800mm
Height	2200mm

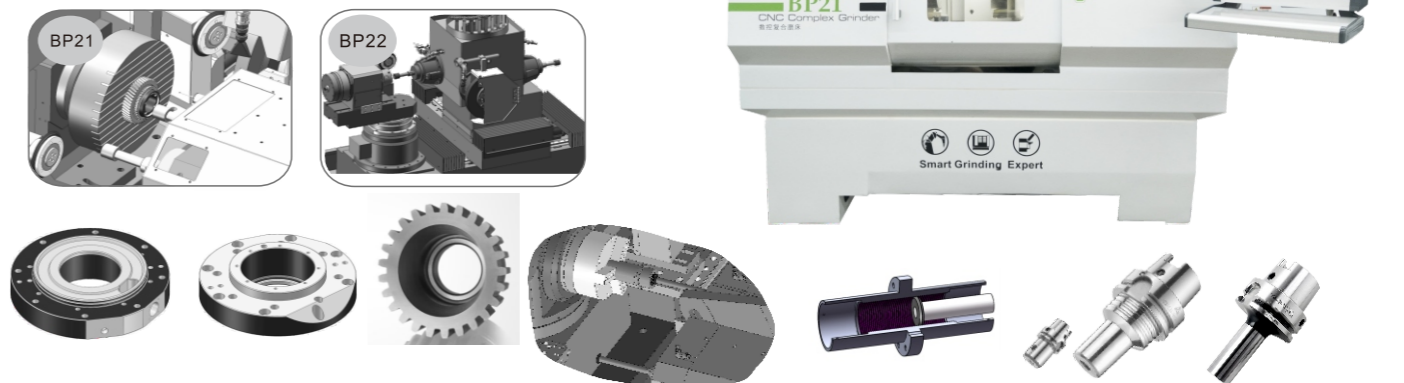
Machine Weight	
Total Weight ( Depends on the Configuration )	>5000kg

## BP21/ BP22 CNC OD & ID Machine

BP21/BP22 CNC composite grinding machine integrates advanced grinding machine manufacturing technology and precision grinding technology research and development and production, which is suitable for meeting the requirements of small and medium-sized shafts and discs and other workpieces with internal and external concentricity and high precision.

⊙ BP21 CNC grinding center adopts a fixed grinding head structure, which can increase the grinding rigidity, save the grinding head adjustment time, and is suitable for the production of large quantities and high-precision parts

⊙ BP22 CNC grinding center workpiece axis (B-axis) can be selected with manual and CNC direct drive axes to improve the accuracy level of different grinding processes.



### Specification BP21/BP22

Grinding Spindle	
Spindle Layout	Horizontal
Spindle Quantity	3/4
Power of the OD	15KW*2
Power of the ID	8.5KW*2

Travel	
X Axis	680mm
Y Axis	280mm

Wheel headstock	
Type	wheel headstock
Rotation range	-35° ~ 235°
Automatic rotation axis	Direct drive motor
Drive power	150N.M
Rotation speed	24000-60000.RPM

Scale(Optional)	Heidenhain/Fagor/YH
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System	BP/SYNTEC/Fanuc/HNC
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Grinding Scope	
Suitable type	sleeve, ring
Workpiece diameter	300mm
Workpiece length	200mm
Workpiece clamping collet type	3 jaw chuck/Specific chuck

Linear Axis Controlled Resolution	0.0001mm
Rotary Axis Controlled Resolution	0.0001°

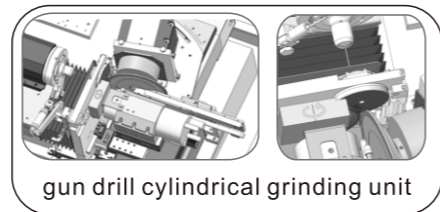
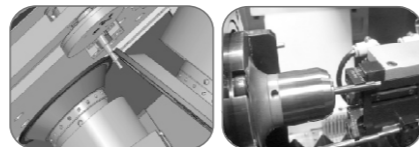
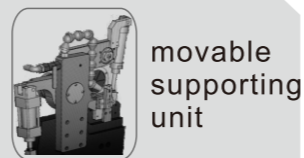
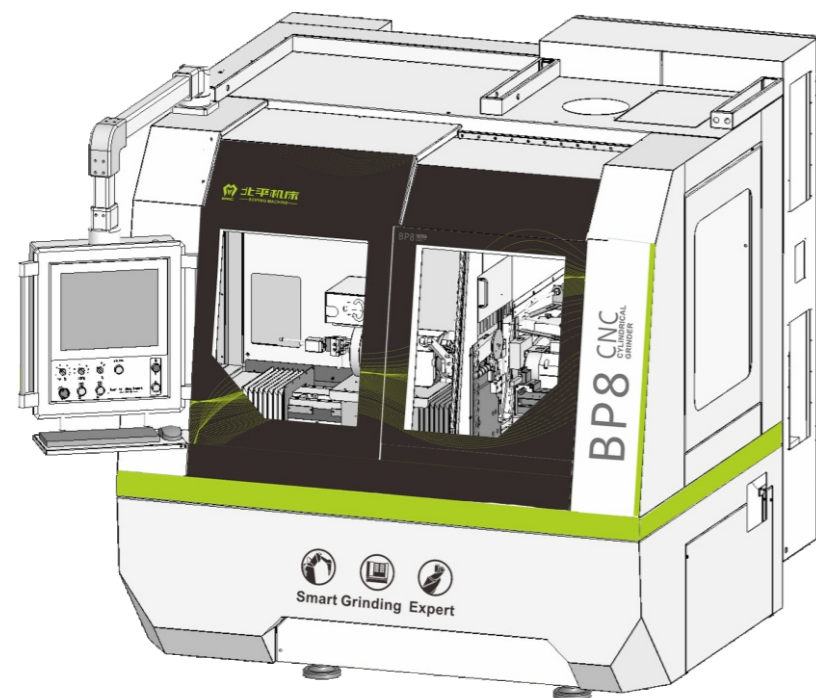
Gross power	30KW
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Machine Size	
LengthxWidth	2300x2200mm
Height	2200mm

Machine Weight	
Total Weight ( Depends on the Configuration )	4000kg

## BP8/BP9 5 axis Precision Cylindrical Pinch/Peel grinder

### 智能高效的极致磨削方案



BP8 5 axis Precision Cylindrical Pinch/Peel grinding machine is specialized in carbide blank grinding with diameter under 25mm, as perfect machine for punch, complicated shape molds and big Length-diameter ration workpieces. Multi-functional robot and optional on-line measuring device guarantee the machine running from small batch production to mass production. Professional grinding wheel balancing technology guarantees the workpiece concentricity. CNC controlled five axis linkage is capable of grinding flat surface, multi-angles, eccentric and noncylindrical cam surface. BP8 CNC software can realize synchronized grinding of roughing and finishing with high speed and high precision. Optional linear scale enhances runin accuracy, guarantees high cone shape, cylindrical accuracy and surface finishing.

### Flexibility from innovative design

- 1, New 20Kw strong grinding function with BP8, more flexible for small batch workpieces grinding with unbelievable results.
- 2, Innovative roughing wheel angle setup device and technology easily realize grinding balance force smooth change.
- 3, High precision ball screws bring high stability and efficiency to the loading device.
- 4, Optional linear motor with Heidenhain scale enhances machine accuracy sharply.
- 5, Optional natural granite provides excellent vibration absorption performance and temperature stability.
- 6, Innovative front and rare position device;
- 7, Synchronized roughing and finishing high speed grinding process enables 3-5 times efficiency as conventional grinding process.
- 8, 3D OD shaping software optional with smart, clear and programmable interface, for unlimited grinding profile possibility.
- 9, CNC C axis capable for faces, angles, eccentric and non cylindrical cam surface grinding.
- 10, Up-down shank support system available for workpiece with head bigger than shank.



### Specification BP8/BP9

#### Grinding Spindle

Single spindle Hole	Φ25mm/HSK50 flange
Max.Speed of Finishing/Rough Grinding	12000/9000r.p.m
Rough Grinding Max.Power	7.5/20kW
Finishing GrindingMax.power	3.3/5KW

#### Travel

Y Axis	300/330mm
X/A Axis	30mm
Z Axis	100mm

#### Work Piece Rotary Axis ( C Axis )

Rotary Speed	0-3000RPM
Clamping Type	W20/W25

#### Tools Range ( Grindable Tool depends on its Type and Machining Requirement )

Diameter	1 - 16/25mm
Length	250mm

Linear Controlled Resolution	0.0001mm
Tolerance of Linear Repositioning	0.002mm
Shank Diameter/Concentricity	0.002mm
Controller	BP/SYNTEC/HNC

#### Automatic Loading System

Diameter of Shank	3-16/25mm
Max.length of Work Piece	150mm

#### Connected Loading

380V/50Hz	23/33kw
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#### Machine Size

Length x Width	2300×2000mm
Height	2100mm

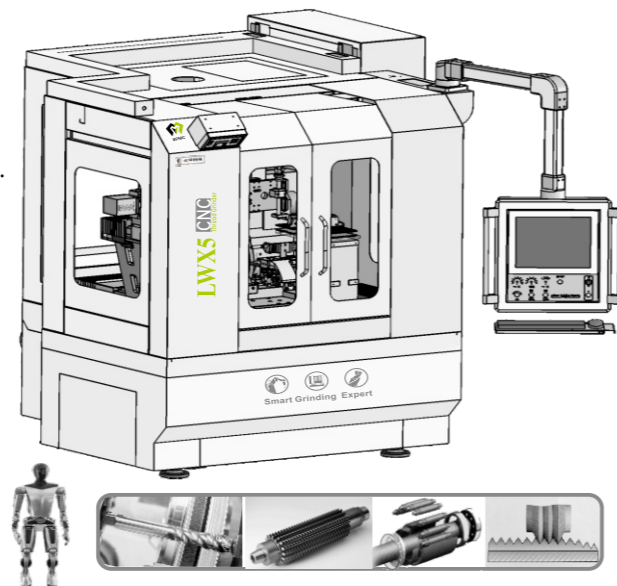
#### Machine Weight

Total Weight ( Depends on the Configuration )	3350kg
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## LWX5 CNC Thread Grinder

- One of the main features of tap manufacturing is high flexibility. Our dedicated mechanical layout and powerful software ensure almost all sizes and types of taper to be manufactured with one-time clamping.
- The granite base guarantees high capacity and stability of the machine.
- High-power spindle and special clamping system are equipped
- All linear axes are available with optional direct drive motors.

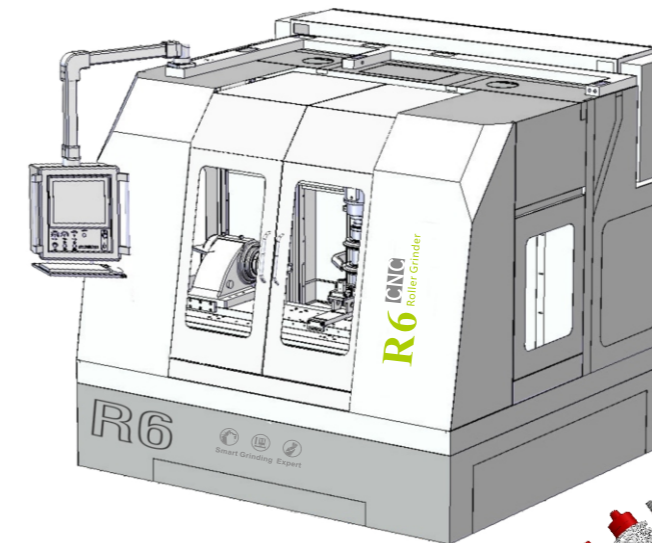
These features ensure the rigidity, precision, functionality and flexibility of our CNC machine. Grinding wheel dressing is the key point of taper thread grinding. With help of our dedicated mechanical design, powerful software, we can dress single- or multi wire grinding wheel with speed 6000RPM, which in reverse leads to accuracy and flexibility of wheel dressing.



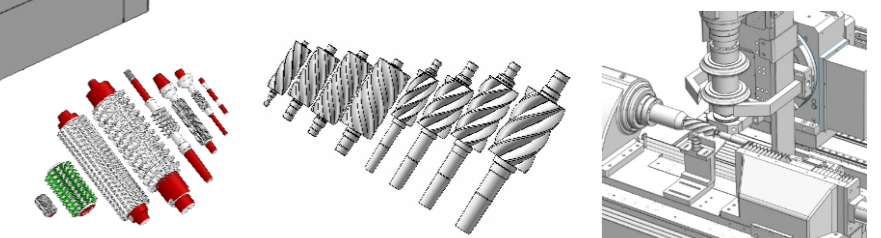
### Specification LWX5

<b>Grinding Spindle</b>		<b>Tools Range</b> ( Grindable Tool depends on its Type and Machining Requirement )	
Single Spindle Taper Hole	1:5 External Cone	Diameter	M3-M20
Power	7.5/20KW	Length	150mm
Linear Speed of Grinding Wheel	65m/s	Linear Axis Controlled Resolution	0.0001mm
Diameter of Grinding Wheel	400mm	Rotary Axis Controlled Resolution	0.0001°
<b>Travel</b>		Controller	BP/SYNTEC/FAGOR/SIEMENS
X Axis	200mm	Automatic Loading System	
Y Axis	200mm	Shank Diameter of Work Piece	3-16mm
Rotary Axis (C Axis)		Max. Length of Work Piece	160mm
Standard Center Height	100mm	Connected Loading	
Swing Limit of Grinding Wheel	±15°	380V/50Hz	ca. 15/30KW
Measurement System	RENISHAW/XF	Size	
		Length x Width	2100x2200mm
		Height	2300mm
		Weight	
		Total Weight ( Depends on the Configuration )	4100kg

## BPR6 Screw Rotor Grinder



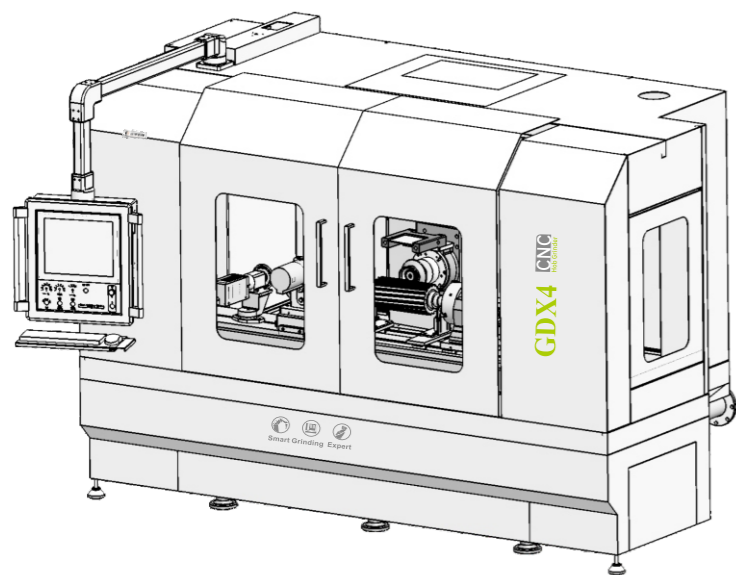
- R6 can make the mass production to grind the flute surface of screw rotor.
- Large extensibility and intelligent operational interface for screw rotor grinding.
- Direct Drive/Linear Motor are optional for linear Axis. The accuracy is also created by the installation of Heidenhain/Renishaw scale.
- The application of shaped electroplating grinding wheels completes rough, and fine grinding in one time, which brings a professional and stable mass production into reality.
- Super-high power synchronous motor with 37/45KW and 8000RPM can easily handle fast and high-efficient grinding.



### Specification BPR6

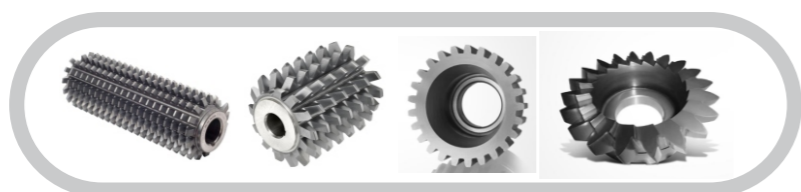
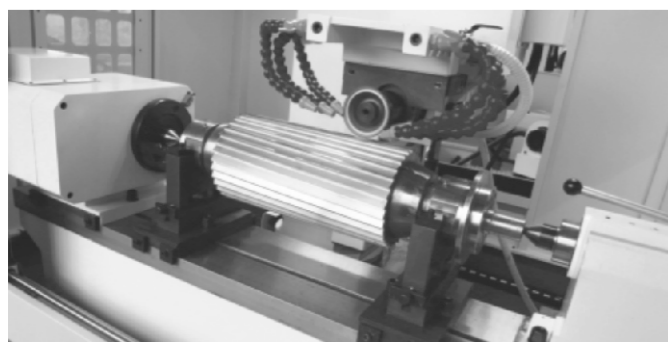
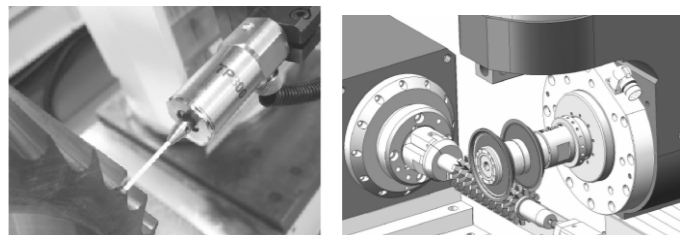
<b>Grinding Spindle</b>		<b>Linear Controlled Resolution</b>	
Power	37/45kw	Rotary Controlled Resolution	0.0001mm
Rotary Speed	8000RPM	Linear Re-positioning Resolution	0.0006-0.0026mm
<b>Travel</b>		Rotary Re-positioning Resolution	1.8-4.5"
X Axis	1000mm	Controller	BP/SYNTEC/SIEMENS
Y Axis	250mm	Connected Loading	
Z Axis	220mm	380V/50Hz	ca. 50/70KW
A Axis	-60° ~ 90°	Size	
Rotary Axis (C Axis)	∞°	Length x Width	2850x2600mm
Measurement System	RENISHAW/XF	Height	3000mm
<b>Tools Range</b> ( Grindable Tool depends on its Type and technical Requirement )		Weight	
Diameter	150mm	Total Weight ( Depends on the Configuration )	10500kg
Length	600mm		

## GDX4/T4G/T5G CNC Hob Grinder



### Specification GDX4/T5G

<b>Grinding Spindle</b>	
Taper Hole of Single Spindle	Φ25mm
Power	20/30KW
Grinding Wheel Linear Speed	35-65m/s
<b>Travel</b>	
X Axis	1200/550mm
Y Axis	250/250mm
Z Axis	250/250mm
<b>Rotary Axis (C Axis)</b>	
Standard Center Height	210/140mm
Max.Speed	20/40RPM
Standard Taper Hole	MT4#/MT5#
<b>Measurement System</b>	RENISHAW/XF
<b>Tools Range</b> ( Grindable Tool depends on its Type and Machining Requirement )	
Max.Diameter	300/200mm
Grinding Length	1100/300mm
Work Piece Length	1600/400mm
Linear Controlled Resolution	0.0001mm
Rotary Controlled Resolution	0.0001°
<b>Controller</b>	SYNTEC/SIEMENS
<b>Connected Loading</b>	
380V/50Hz	ca.25/35KW
<b>Size</b>	
Length x Width	2600x2100mm
Height	2100mm
<b>Machine Weight</b>	
Total Weight ( Depends on the Configuration )	5500kg



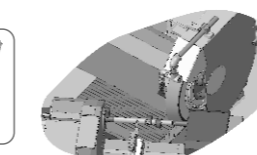
## WMX3/BP3 CNC Cylindrical Grinder

WMX series CNC cylindrical grinding machine is applicable for precise grinding of complex shaft part, stepped part, outer diameter of tools, especially for outer diameter of tap thread and milling tools.

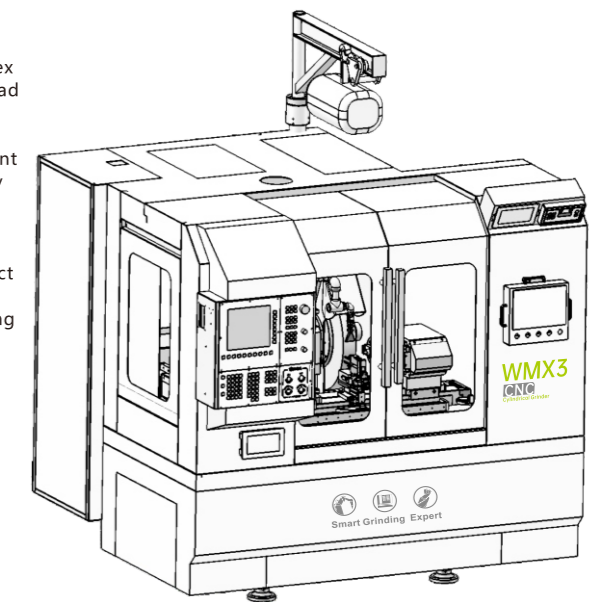
Choosing Beiping machine with automatically changing Feeder, CNC three-axis manipulator, or RB6 six-axis multi-functional robot, then also with our online measurement options, small batch production or long-time unmanned automatic grinding can be easily realized.

Direct Drive / Linear Motors are also optional for work piece Axis (B Axis), and linear axis. An outstanding accuracy is created by the application of Heidenhain / Renishaw scale. Granite table is equipped for anti-collision purpose, which also reduces the negative effect caused by temperature changes.

Our three-Axis coupling machine can grind non-cylindrical cam surfaces, improve grinding interpolation accuracy, and ensure high tap-form, matched roughness on surface, and grinding precision.



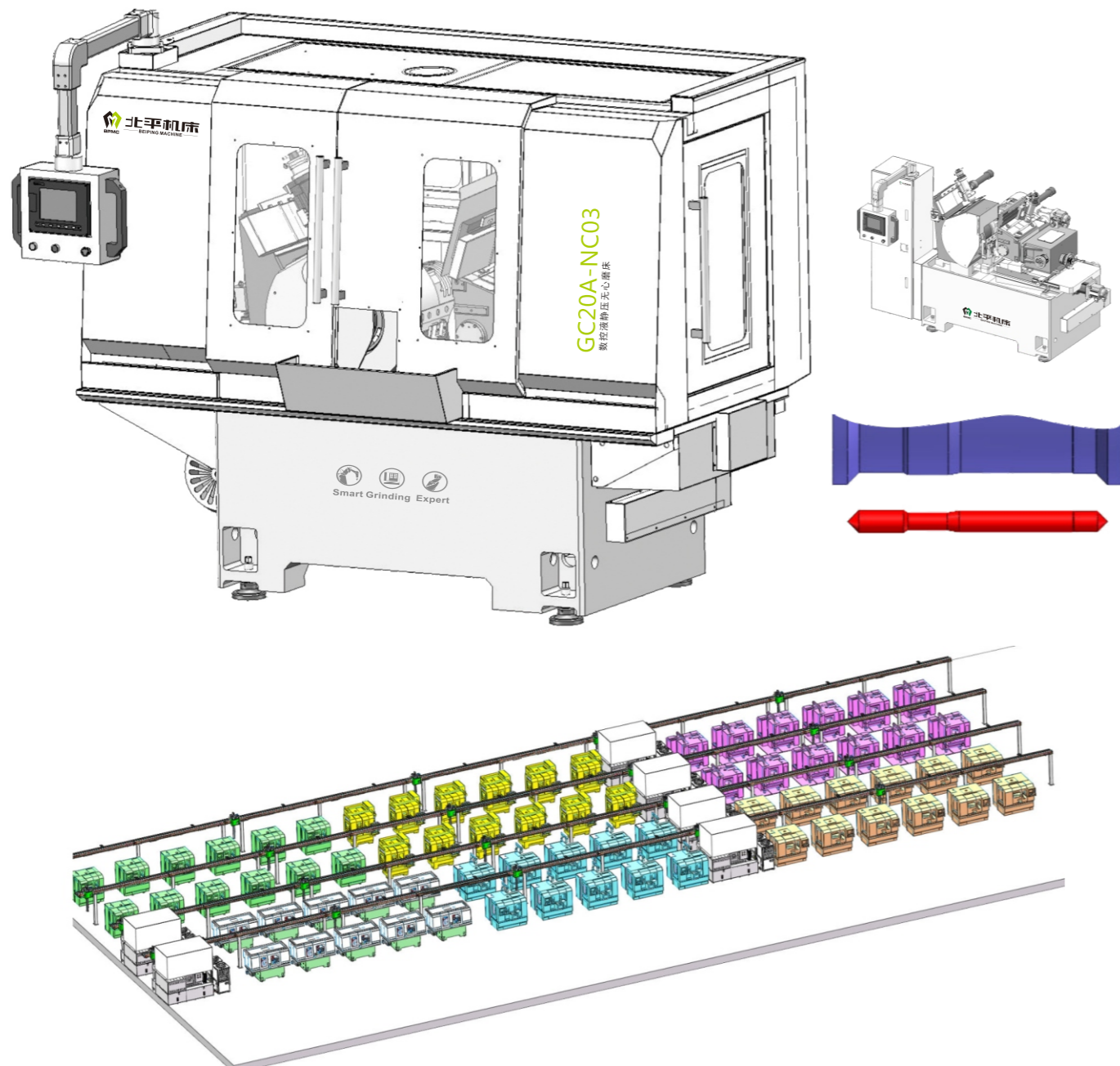
Inclined feeding grinding device



### Specification WMX3/WMS3

<b>Grinding Spindle</b>		<b>Tools Range</b> ( Grindable Tool depends on its Type and Machining Requirement )	
Single spindle taper hole	1 : 5	Taper Thread	M6-M20
Power	7.5 / 13KW	Diameter	200mm
Diameter of grinding wheel	600*305mm	Length	220/500/1000mm
<b>Travel of Linear Axis</b>		Linear Axis Controlled Resolution	0.001/0.0001mm
X Axis	300/550/1050mm	Rotary Axis Controlled Resolution	0.0001°
Y Axis	280mm	Linear Axis Re-Positioning Resolution	0.0006-0.0026mm
<b>Rotary Axis (C Axis)</b>		Rotary Axis Re-Positioning Resolution	1.8-8"
Standard center height	180mm	<b>Automatic Loader</b>	
Max.rotation speed	800RPM	Diameter of Taper Thread	M6-M20
Standard taper hole	MT4#	Max. Length of Work Piece	30-150mm
<b>Measurement System ( Optional )</b>		<b>Connected Loading</b>	
Probe	RENISHAW/MARPOSS/XF	380V/50Hz	ca.15kw
In-process measurement	MARPOSS/ZY	<b>Size</b>	
Scale ( Optional )	HEIDENHAIN/RENISHAW	LengthxWidth	2000x1700mm
Controller	BP/SYNTEC/SIEMENS	Height	1900mm
Drive and Motors	YASKAWA	<b>Machine Weight</b>	
		Total Weight ( Depends on the Configuration )	3500kg

# GC20A-NC01/03 GC18A-NC01/03 Precise CNC Hydrostatic Centerless Grinder

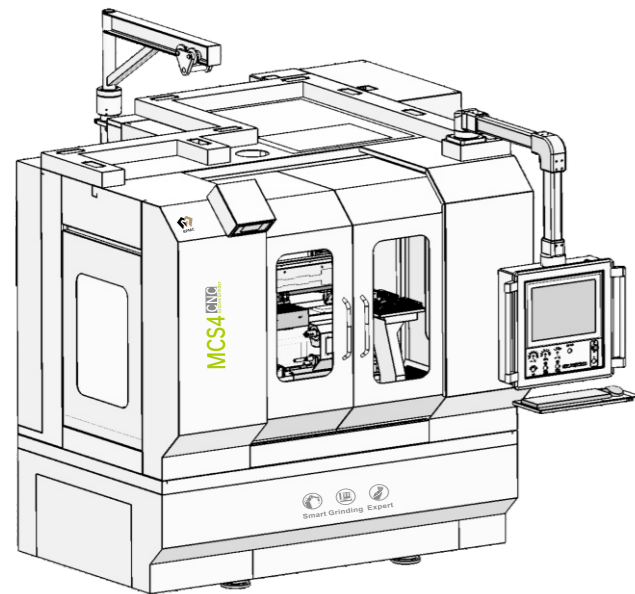


- 1, High precision ground grinding wheel, regulating wheel spindles and bearings, assembled with advanced technology by professional handcraft to guarantee 0.0015mm rotating accuracy , high loading capacity and stability.
- 2, Alloy steel spindle with hardness over 62°HRC and high precision grinding process, guarantee high precision, high rigidity.
- 3, High quality casted machine bed with heat treatment and natural timing process to guarantee stable internal structure. Perfect dynamic design and outstanding material provide excellent rigidity and stability.
- 4, Feeding system driven by high precision ball screw and servo motor of high resolution provides a position accuracy of 0.001mm and repeated accuracy 0.001mm. Online correction function available.
- 5, Semi automatic dressing for grinding wheel and regulating wheel, hydraulic driven on X axis with stable movement, no backlash. Manual feeding on Z axis, resolution of 0.01mm.

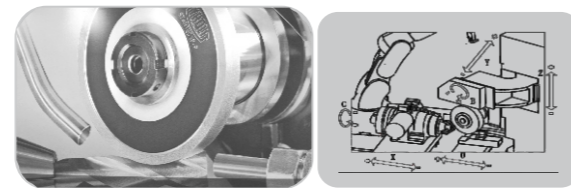


Specification	GC18A-NC01/03	GC20A-NC01/03
Grinding range(diameter)	Φ1-Φ50mm	Φ1-Φ50mm
Grinding wheel size(ODxWxID)	Φ455*255*Φ228.6mm	Φ510*255*Φ228.6mm
Adjustment wheel size	Φ305*255*Φ111.2mm	Φ305*255*Φ111.2mm
Grinding wheel rotation speed	100-1500R.P.M	100-1350R.P.M
Adjustment wheel rotation speed	0-250R.P.M	0-250R.P.M
Grinding wheel drive motor	11kW	15kW
Adjustment wheel drive motor	2.2kW	2.2kW
Oil pressure pump drive motor	1HP	1HP
Cooling pump drive motor	1/4HP	1/4HP
Adjustment wheel feeding graduation	Serve feeding value min.setting value 0.0005mm	
Serve feeding value min.setting value	0.0005mm	0.0005mm
Dressing device feeding graduation	2mm/rotation 0.01mm/graduation	
Adjustment wheel tilting angle	+5°~-3°	+5°~-3°
Adjustment wheel rotation angle	±5°	±5°
Mechanical size	2265*1900*1650mm	2265*1900*1650mm
Machine weight	3900Kgs	4000Kgs

## MCS5/MG20 CNC Tap Flute Grinder



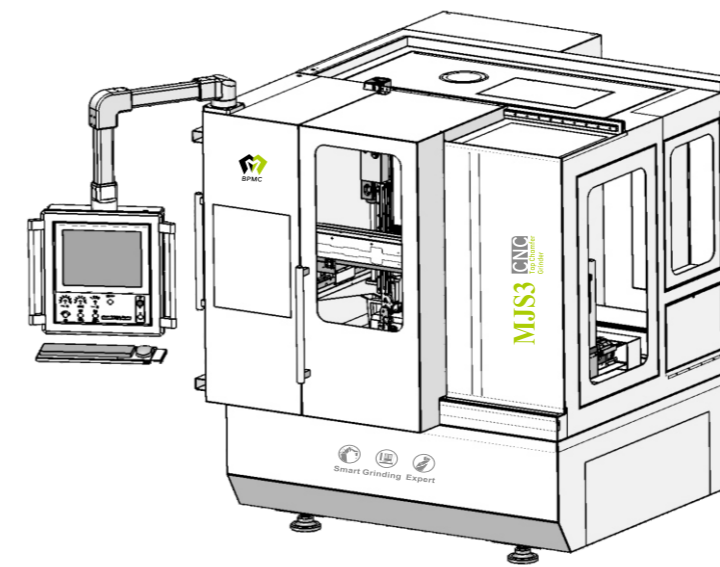
- Our CNC Flute Grinder is applied for grinding the straight Flute, helix flute, flute on taper Thread in Range of M1-M3/M3-M10/M10
  - For Grinding HSS material made products, Beiping Software has professional solution for grinding wheel dressing.
  - Multi-functional manipulator and in-process measurement system make both the small batch production and the long-time unmanned automatic grinding very easily to be realized.
  - Powerful and fast grinding technology is 3-5 times more efficient than the traditional grinder.
  - High quality automatic grinding: our engineer can provide customized grinding solution according to our customers' individual requirements.
- The operator only has to spend little time to input several parameters in our grinding operation system to generate regular programs for standard tools.



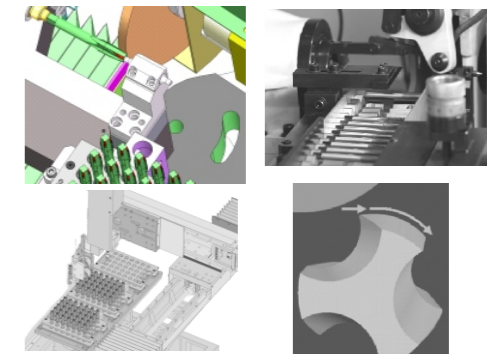
### Specification MCS5

<b>Grinding Wheel</b>		<b>Tools Range</b> ( Grindable Tool depends on its Type and Machining Requirement )	
Single Spindle Tap Hole	1:5 external cone	Taper Thread(MCS Series)	M1-M3/M10/M20
Grinding Head Motor Power		Length	150mm
<b>Travel</b>		Controller	BP/SYNTEC/SIEMENS
X Axis	220/330mm	<b>Automatic Loading System</b>	
Y Axis ( Grinding Wheel Dressing Axis )	150mm	Diameter of shank	3-20mm
Z Axis	110mm	Max. Length of Work Piece	30/50-150mm
C Axis	360°	<b>Connected Loading</b>	
<b>Rotary Axis (C Axis)</b>		380V/50Hz	ca.15/25kw
Standard Center Height	145mm	<b>Size</b>	
Clamping Method	Tap Square+Center	Length x Width	2000x1800mm
Measurement System	RENISHAW/XF	height	2000mm
Linear Controlled Resolution	0.0001mm	<b>Weight</b>	
Rotary Controlled Resolution	0.0001°	Total Weight ( Depends on the Configuration )	4100kg

## MJS3 Full-Automatic CNC Tap Chamfer Grinder



This full automatic CNC tap Chamfer grinder is applied for grinding of M3-M20 tap's edge (shovel) on the top of straight flute, or helix flute. Our patented design for grinding chamfer, and automatically changing loader, make the long-time unmanned automatic grinding very easily to be realized.

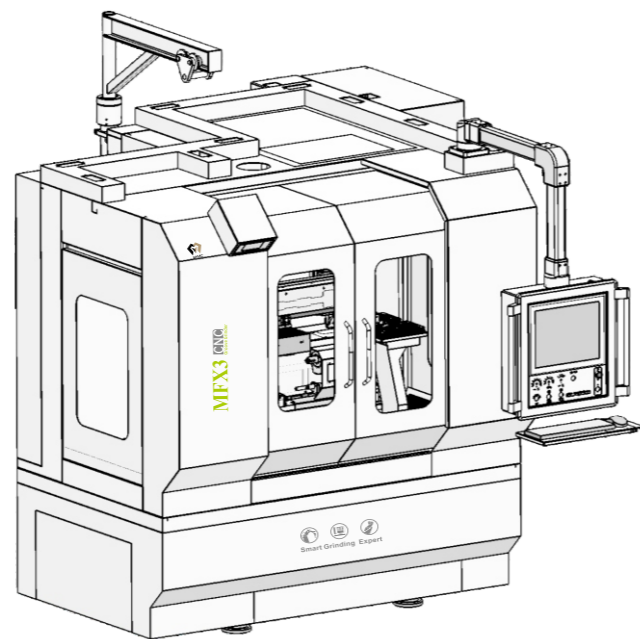


### Specification MJS3

<b>Grinding Elec. Spindle</b>		<b>Linear Controlled Resolution</b>	
Single Spindle Tap Hole	1:5 external cone	Rotary Controlled Resolution	0.0001mm
Spindle Power	3/6KW	Controller	SYNTEC/SIEMENS
Spindle Speed	600/12000RPM	<b>Robot Loader</b>	
<b>Travel</b>		Shank Diameter of Work Piece	3-24mm
X Axis	100mm	Workpiece Max. Length	50-150mm
Y Axis	150mm	<b>Connected Loading</b>	
C Axis	∞	380V/50Hz	ca.8/12KW
<b>Rotary Axis (C Axis)</b>		<b>Size</b>	
Maximum Rotation	200RPM	Length x Width	1800x1600mm
Standard Taper Hole	MT2#	Height	1800mm
<b>Tools Range</b> ( Grindable Tool depends on its Type and Machining Requirement )		<b>Weight</b>	
Diameter	M3-M24	Total Weight ( Depends on the Configuration )	3500kg
Length	150mm		
Clamping Method	Special Tap square Positioning		

## MFX3 CNC Tap Square Grinder

CNC Tap Square grinder is suitable for precisely and efficiently automatic grinding of M1-M20 tap. Our patented flat conveyor-style automatic loader, and RB Series Robot make the long-time unmanned automatic grinding very easily to be realized.

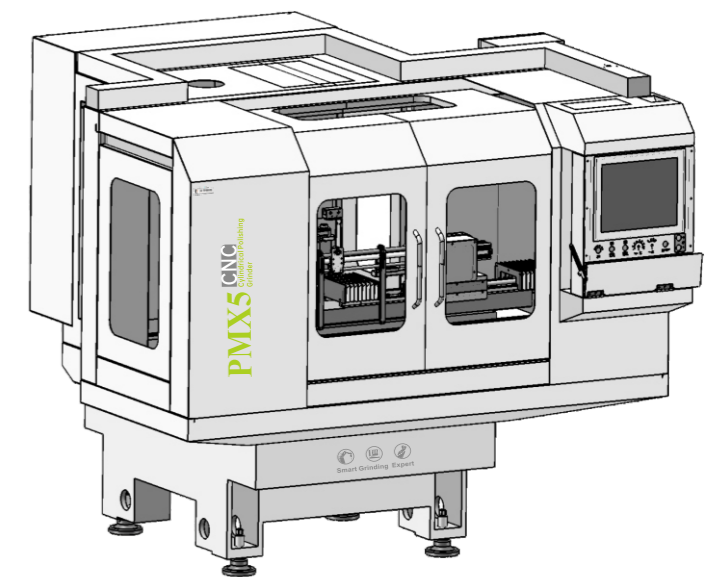
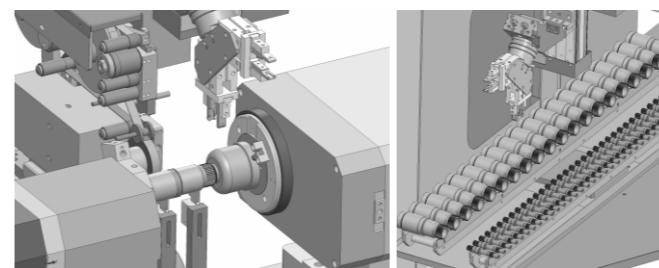


### Specification MFX3

<b>Grinding Spindle</b>		<b>Clamping Method</b> Square Tail Positioning+ Tailstock Pusher	
Single Spindle Taper Hole	1:5 outer Cone	Linear Controlled Resolution	0.0001mm
Power	7.5/13KW	Rotary Controlled Resolution	0.0001°
Grinding Wheel Diameter	760x305mm	<b>Controller</b> BP/SYNTEC/SIEMENS	
<b>Linear Axis Travel</b>		Shank Diameter of Work Piece 3-20mm	
X Axis	250mm	Workpiece Max. Length 30-150mm	
Z Axis	350mm	<b>Connected Loading</b>	
<b>Rotary Axis (C Axis)</b>		380V/50Hz ca.12/20KW	
Standard Center Height 180mm		<b>Size</b>	
<b>Scale ( optional )</b> HEIDENHAIN/FAGOR		Length x Width 1900x1700mm	
<b>Tools Range</b> ( Grindable Tool depends on its Type and Machining Requirement )		Height 1900mm	
Diameter	M3-M20	<b>Weight</b>	
Length	150mm	Total Weight ( Depends on the Configuration ) 3500kg	

## PMX5 CNC Cylindrical Polishing Grinder

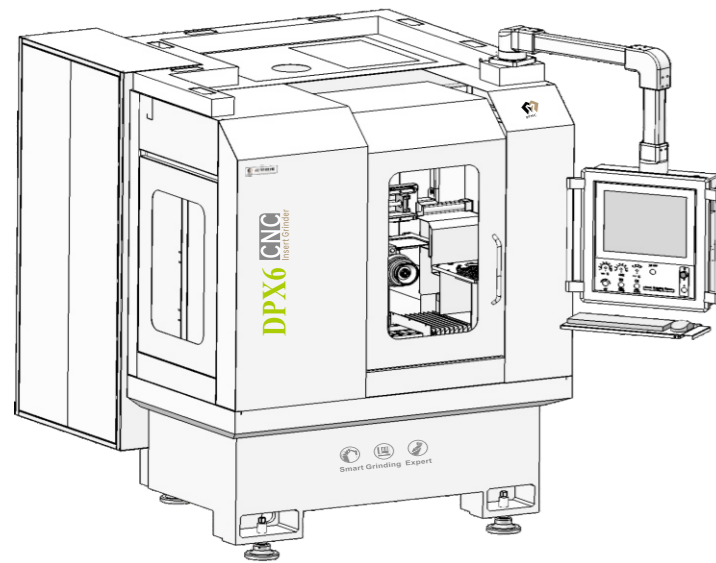
-Our PMX5 CNC cylindrical polishing grinder is designed and produced according to Germany grinding concept and technology. It is used for fine polishing of highly precise products such as shaft parts.  
- Using our intelligent grinding software, it takes a very short time to finish the polishing programing for a variety of standard cylinders.  
-The operator can generate an efficient grinding program very quickly, only has to modify few parameters, with help of our programming guild.



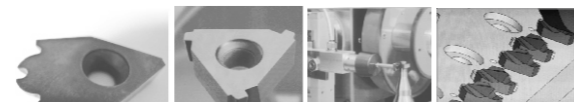
### Specification PMX5

<b>Polishing Grinding unit</b>		<b>Controller</b> BP/SYNTEC	
Servo Controller	FEEDBELT	<b>ROBOT Loader</b>	
Servo Controlled vibration Frequency	0-1500RPPM	Shank Diameter of work Piece 3-45mm	
Movement Distance	30mm	Max.Length of work Piece 150mm	
Belt Breadth	12/25/32mm	<b>Connected Loading</b>	
<b>Travel</b>		380V/50Hz ca.6kw	
X Axis	250mm	<b>Size</b>	
Y Axis	120mm	Length x Width 2100x2000mm	
<b>Rotary Axis(AAxis)</b>		Height 2000mm	
Center	Rotary More 4#	<b>Machine Weight</b>	
Standard center height	180mm	Total Weight ( Depends on the Configuration ) ca.3500kg	
Max.rotation speed	1500RPM		
<b>Tools Range</b> (Grindable Tool depends on its Type and Machining)			
Diameter	3-60mm		

## DPX3/DPX6 CNC Insert Grinder



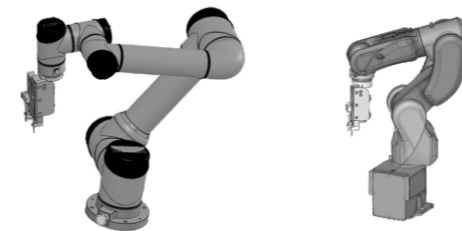
Applied for precise grinding of carbide inserts and Cermet inserts. Our 5-axis CNC controlled machine, 6-axis robot, 3-in-1 design concept, made-in-Germany precise components and newest technology as well, promise high efficiency and accuracy for DPX insertgrinding



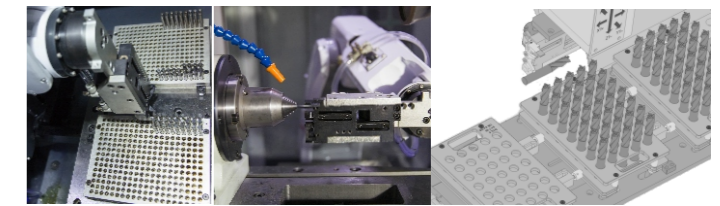
### Specification DPX3/DPX6

<b>Grinding Spindle</b>		<b>Tools Range</b> (Grindable Tool depends on its Type and Machining Requirement)	
Peak Power	10/20KW	Length	300mm
Linear Speed of Grinding Wheel	65m/s	Linear Controlled Resolution	0.0001mm
Grinding Wheel Diameter	400mm	Controller	BP/SYNTEC/SIEMENS
<b>Travel</b>		Connected Loading	380V/50HZ ca.20/30KW
X Axis	300mm	Size	Length x Width 3000x2100mm
Y Axis	500mm	Height	2000mm
Headstock Swing	±120°	Weight	Total Weight ( Depends on the Configuration ) ca.3000kg
<b>Rotary Axis (A Axis)</b>			
Standard Center Height	180mm		
Rotary Speed	300-800RPM		
Measurement System	RENISHAW/XF		

## RBX6 ROBOT



<b>CNC Controlled Axis</b>	
X1 Axis Max. Travel ( Horizontal Travel )	400mm
Y1Axis Max. Travel ( Back and Forth Travel )	400mm
Z1Axis Max. Travel ( Vertical Travel )	160mm
Linear Axis Max. Speed	15m/min
CNC Controlled Axis Resolution	0.001mm
<b>Robot Feeder :</b>	
Shank Diameter of Work Piece	3-20/25mm
Length of Work Piece	150mm
<b>Elec. Component</b>	
Safety	Ip54
Working Voltage	220V/380V-50/60HZ
Controll Voltage	24V
380V/50HZ Connected Loading of Axis	2KVA
Max.Temperature	45°
Max. relative Humidity	90%
Pressure of compressed air	6bar
Air Consumption	0.5bar, ca.3000L/hour
Size and Weight	1000×1500×1780mm
Weight	ca. 1050kg
Main Color	Ironical Grey/WhiteRAL7011
Left Color	White RAL9003

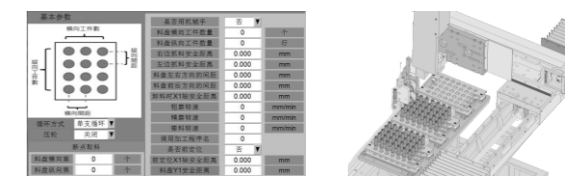


## RB3/4/5

### Industry Used Robot and Manipulator

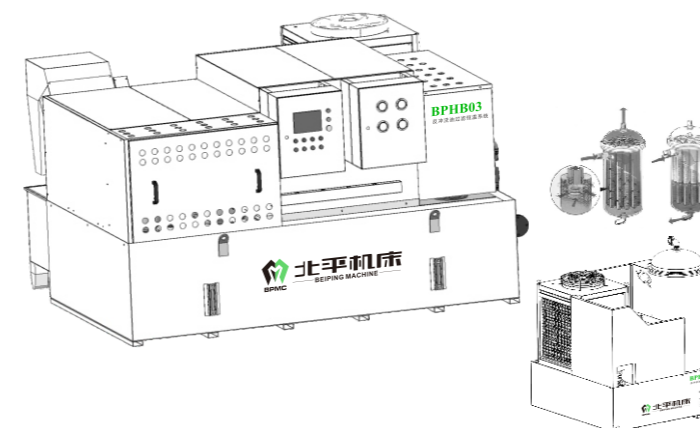
Beiping inner installed, externally combined Robot is designed and manufactured according to German technology. It is suitable for automatic loading and unloading of all CNC machine. The CNC axes are driven by YASKAWA AC Servo motor. The patented anti-collision design and fine adjustment mechanism on manipulator make our robot's application more simple and safe.

With our maneuver robot you can realize batch production or unmanned mass production very easily.



## BPHB01/05

### Back-wash filter constant temperature system



<b>BPHB05</b>	
Filter capacity	320/400L per minute continous filtering capacity
Filter accuracy	1-5 μm (Optional configuration)
Filter medium	Laminated paper filter element (optional: bag filter, magnetic separation, polymer filter element)
Filtering impurities	Carbide (optional: high speed steel/carbon steel)
Compressed air requirement	Dry compressed air, bigger than 6bar, flow bigger than 20CFM
Power supplyment requirement	50Hz, 380V, 16KW
Min.oil volumn requirement:	bigger than 1800L, around 9 barrel, system total volumn 2200/3500L
Reference value,real demanded value need to consider pipe and distance)	
Dimension	3200X2400X1700mm