

Specification

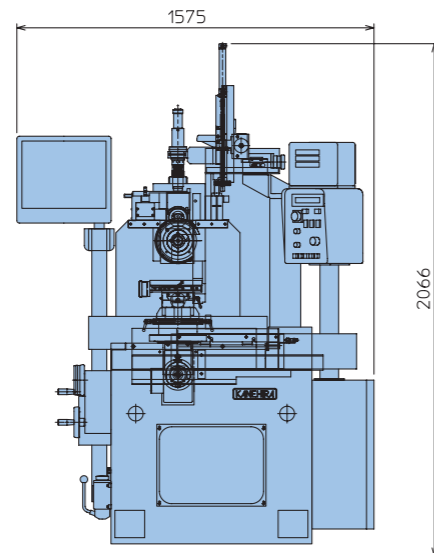
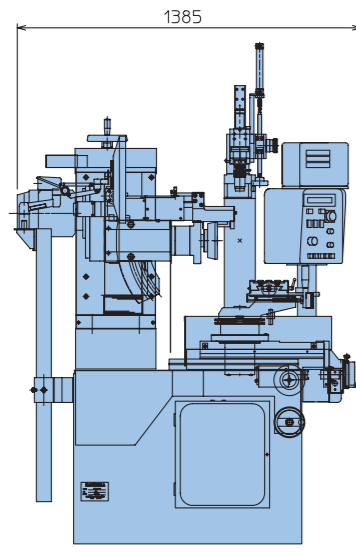
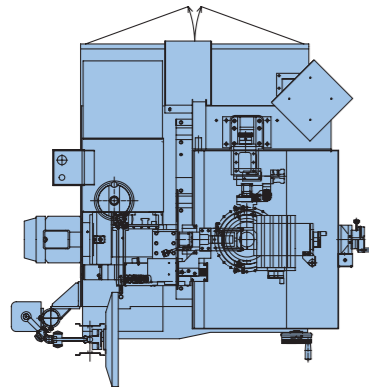
Wheel spindle	Motor power	4P 1.5KW
	Number of revolution	1800rpm
	Rake	-10°~+25°
	Vertical travel	120mm
Wheel head	Oscillation stroke	30mm
	Oscillation speed	30 times/min
	Travel	150mm
Work table	Cross table travel	60mm(X-Y axis)
	Swivel angle of work table	-120°~0°~+120°
	Digital display of swivel angle	Min. 5'
	Amount of cross slide	50mm
Wheel	Wheel size	Taper cup type φ150×40 t ×40H
	Others	Front operating handle
Weight	2000Kg	

Option

Mount type dresser	Control function	Continuous or intermittent
	Diameter of dresser wheel	φ75mm
Coolant unit	Wheel size	Cup type
	60L Tank capacity	60W Pump
Digital display of grinding depth	Min. 0.001mm	
Variable of wheel spindle speed	1000~3000min-1	
Variable of speed of oscillation	10~60 times/min	
Digital swivel goniometer	1'	
Powering up of wheel spindle motor	2P 2.2KW	
Projector	Screen	φ150mm
	Magnification	20×
Swiss-made	Special concentric circle screen included	
	Transmitted light source	Halogen lamp 12V, 50W
Digital camera	CCD camera	2 megapixel color 3CCD
	Frame rate	30fps
	High precision zoom microscope	1~5x
	Monitor	17 inch color LCD
	Monitor magnification	30~120× (40~300×) (zoom lens)
	Measurement function	Scale, between two points, radius, angle, calibration
	Display soft	cross scale, concentric circle, semicircle
	PC	OS-WIN-XP, HDD60G, DVD±R/RW, Keyboard, Mouse, USB2.0x2, LAN
	Transmitted light	50W halogen lamp (illumination adjustment function)
	Reinforced-camera mount system	Standard zoom lens or super high-resolution zoom lens
Splash guard		
Index device	Min. angle index	1° 12 divisions Standard plate included
	Max. size of index device	φ42 (high precision Mizoguchi spring collet type)
Cylindrical grinding attachment	Scroll type	
	Collet type	
Cylindrical grinding index attachment	Collet type	
3D vise	Large type / Small type	
Quick change vise		
Wiper R grinding jig		
RTG2000M CNC-1	1 axis NC machine	
Super precision swivel base		

Tool Grinding Machine RTG2000M

Suitable for processing the PCD·CBN tools



Machine dimension

Digital CCD camera type



KANEHIRA CORPORATION

- Diamond wheel automatic forming machine
- Tool grinding machine
- Design & production of special purpose machine
- Design & production of precision measuring device

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● The specification of this machine is subject to change without notice.
 Please contact us for more information.2012.10

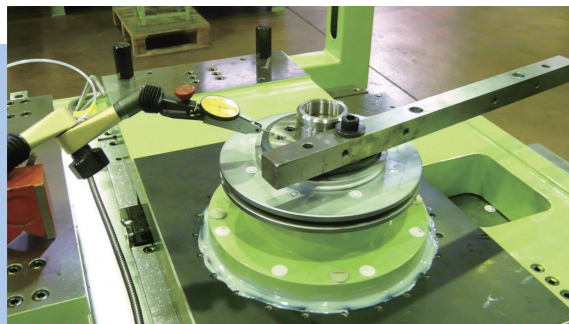
KANEHIRA

The best PCD tool grinding machine of the manual operation machines

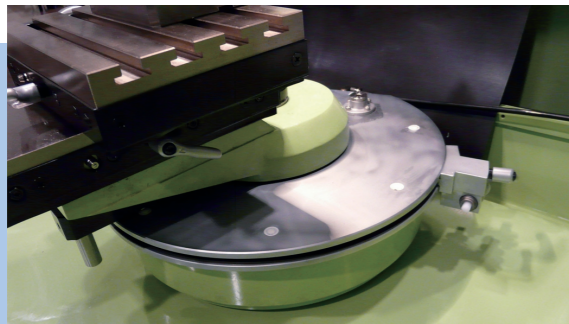
KANEHIRA

We've been made PCD grinding machines for 30 years;
and we develop the best machines that all performance improve.

Adopt a high rigidity-antivibration prop for a support part of the measuring instrument on the machines
Enable to observe the grinding in real time by high magnificant image (CCD camera type)
While processing, you can confirm work-approach and the state speedily, and processing efficiency improves.



The scene of checking rigidity of the swivel section.



Super precision swivel base

High accuracy, high rigidity.

Use a bed filled up with concrete (high rigidity, low oscillation).
In addition, the accuracy of swivel and rigidity of the XY table swivel spindle are increase twice on our current machines.
Use a protection against dust by air purge, and the bearing for swivel stands long use.

High efficiency processing.

High efficiency processing is possible by high capacity motor (option 2.2kw).

Super precision nose R grinding

Super precision & super high rigidity swivel part (option) guarantees 1mm or less circular precision (actual value 0.2 μ m), and it enables to work super precision grinding of **PCD · single crystal diamond**.

Reduction in processing time.

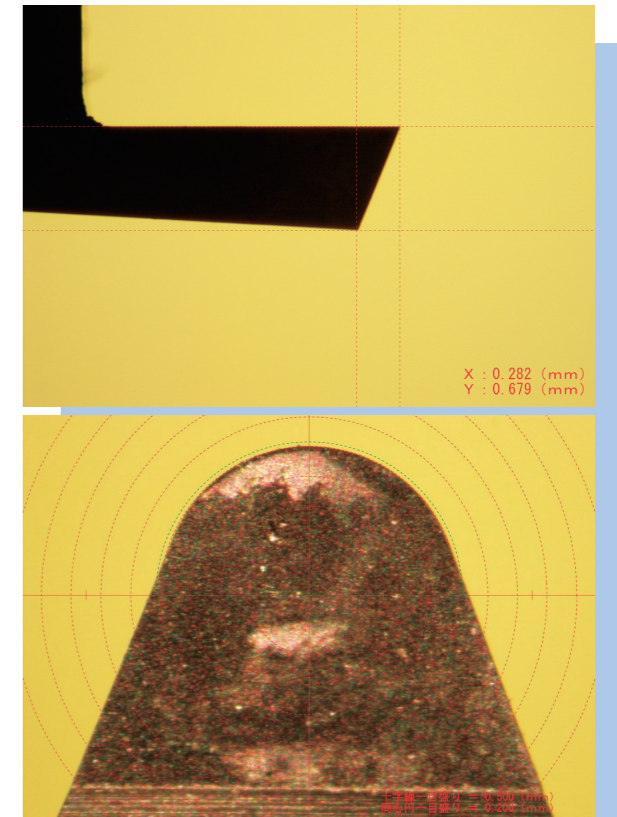
Use a quick slide equipment, it is possible to grind and confirm the cutting tooth of work material in a few seconds continuously, and the whole work can do in the shortest time without unnecessary operations.
It is possible to do the qualified measurement in the state that installed work piece, and it makes possible to be time shortening and improve processing accuracy.
Also, with the dresser on machine (option), the wheels can dress with one touch while processing.

CCD camera

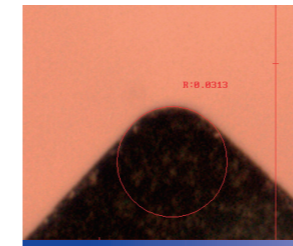
By using of high-performance digital CCD camera;

- It is possible to process such as grinding tools exactly an arc (corner radii).
- Drawing a concentric circle in arbitrary size.
- Drawing a setting of nose radius intersection range.
- Real-time observation / measurement of high accurate recessing bite and grinding to a width.
- Drawing arbitrary cross scale.
- Save the various measurement and measurement screen in PC.

The camera can move 100mm above. The camera can move 100mm above.



The image of work piece by digital CCD camera.



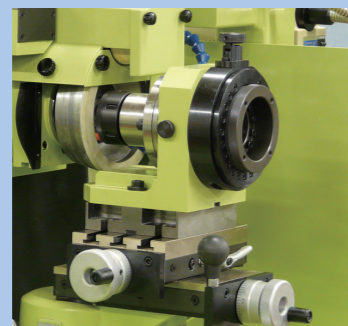
PCD tip R0.03mm grinding work (Tip : Element Six, CTM-302, Diamond grain diameter 2~30 μ m)
Forming machine : Super precision swivel base, 1-axis infeed CNC type)

Please have a perfect command of this machine with the great variety of the options.

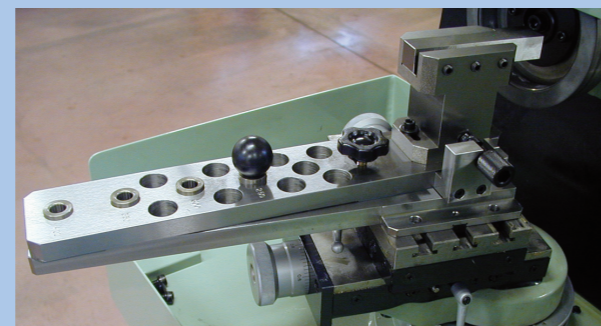
Installing various equipments (separate paragraph), it is possible to process the index, roll, and spherical grinding, it is designed for a wide use.



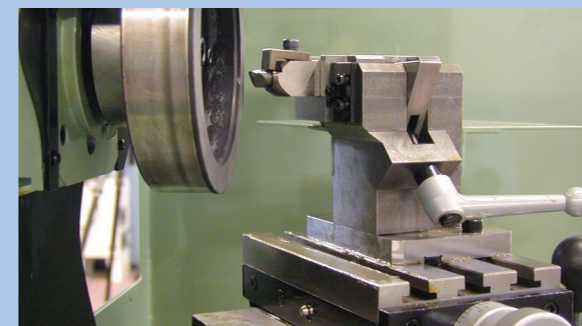
Cylindrical grinding index attachment



Index device (Scroll chuck included)



Wiper R grinding jig



Quick change vice



3-D quick change vice (3CV)



RTG2000M CNC-1 1 axis NC machine