
The new edge

Free automatic
molding lens
edger
EC-3200



Before using the instrument, please read this manual.

This manual contains important information about the use of milling machine operation.

This manual provides operating procedures, safety precautions, specifications, and maintenance. Read the manual facilitate the proper use of milling machine. Especially before using the milling machine, we must understand the safety precautions and procedures.

To ensure that this manual in a place readily accessible, ready to search with.

If you have any questions or doubts manual before using this, please contact the manufacturer or an authorized reseller.

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I. Overview

1.1 【product description】

EC-3200 Free milling machine is a fully automatic template milling machine, the automatic grinding of the lens, so that the lens can be processed directly into the mirror frame.

This milling machine on the front side of the central processing unit, the front right of the display unit. The display unit will show a lens layout and scan profile, as well as processing parameters, mode.

In the processing unit, it provides several working grindstone, therefore, must select the most appropriate lens material of the grinding wheel and the processing sequence is complete processing.

1.2 [] Symbol information



This symbol indicates: it should be noted. Please review "operating instructions" before using the instrument.



This symbol indicates: Beware of electric shock. Inside the instrument



comprises a high pressure circuit, not open the cabinet. The symbols on the power switch, indicates that power is on.



The symbols on the power switch, indicates that power is off.



This symbol indicates:



brightness adjustment. This

symbol means: fuse.



This symbol indicates: You must provide universal AC power to this instrument.

Second, security

In the manual, mark or character used to indicate the level of standard safety warnings. Are each defined as follows:



WARNING: Indicates a potentially hazardous situation which, if not avoided, may produce death or serious injury.



Note: Indicates a potentially hazardous situation which, if not avoided, may produce minor injury or property damage accident. Some items are described in the "note" in, may have a serious accident, therefore, must pay attention to the below mentioned says Ming matters.


2.1 Usage Warnings



and Precautions


- 1, when machining the wheel turning, do not touch, or you will get hurt.
- 2, when the processing of the lens, to ensure that remains closed processing compartment lid, comprising processing waste water splashing, possible damage your eyes.
- 3, when the abnormal situation occurs, for example: when cracks appear on working grindstone, or the bare substrate, immediately stop using the instrument, and contact the manufacturer or authorized dealer.

If you continue to use the instrument, the wheel will be broken and scattered out, causing injury.

- 4, after the wheel has been completely stopped, before  Button, release the sucker.

If the wheel is not completely stopped before turning chuck release, when the lens is dropped, it may hit the rotating wheel, causing sputtering of injury.

- 5, the instrument can only be processed using a predetermined spectacle lens material.

And selects the correct mode of processing the lens material, so that  button.

If using any other materials processing equipment, or improper selection of the processing mode, the processing will be damaged wheel,

The normal processing can not be performed, even working grindstone might break into pieces injury to personnel.



note

- 1, the instrument must not touch the inner member does not open.
Electric shock or accident may occur.
- 2, not forcibly pull on the cord, the plug is disconnected from the socket.
This will damage the power cord, fire, electric shock or short circuit may occur.
- 3, when the inner wire exposed power lines, or power lines, become very hot when the

power plug, the required power plug, and contact the manufacturer or authorized dealer.

Line overheating, may lead to electric shock or fire.

- 4, the heavy compression or not the power cord, for example, the instrument itself. This will damage the power cord, fire, electric shock or short circuit may occur.

5, at intervals, the power required clean towel dry metal plug pins.

If the accumulated dust is too thick, it becomes easy to wet and a high resistance value, may cause an electric shock or fire.

6, the power cord plug fully inserted within the power outlet.

If the instrument is used in such an unstable connection state, a fire could occur.


7, during operation of the instrument, the operator Do not leave, found abnormal operation turn off the power immediately to avoid damage to the lens and processing equipment.

8, the instrument occurs when the smoke or abnormal odor, off and unplug the power cord, so that the instrument no longer smoke emitting, and contact the manufacturer or authorized dealer.

If this equipment fires, use dry chemical fire extinguisher.

9, if the system is used during any abnormal condition occurs, an error code will be displayed on the display screen, and the system is stopped.

Validation checks the error code, power off, and contact the manufacturer or authorized dealer.

10 To ensure that the correct choice of lens material, and processing mode, the  button.

If the lens material error mode is selected, the lens may be damaged, and reduce the life of working grindstone, and even the machining wheel damage.

11. After processing of the lens to ensure that, before it, the chamfered edge security. The sharp burr may scratch people's skin.

12, please do not give scanning unit scanning needle too much pressure. Scan pin will bend and damage.

13, note when clamping (fixed) lens, not to pinch your fingers.

14, when the chuck is removed using the handle, soft cloth around the lens. If empty-handed catch lens, the lens edge may scratch your hand.

2.2 [In the



warehouse]

note

1, do not store the instrument in places likely to rain or toxic gases or liquids.

2, during transportation or storage, the storage apparatus under the following conditions:

Temperature: -25 °C --70 °C

Humidity: 10% - 100%

Pressure: 700hPa - 1060 hPa

2.3 【transporti



ng】 note

- 1, when moving the instrument, the need to seek the help of others.
If you move alone could hurt your body or may cast off the instrument.
- 2, the instrument is moved, should seize around both sides of the metal section below, can not only hold the case. Just hold the case, you may cast off the instrument, and the occurrence of damage and failure.
- 3, when the instrument down, be careful not to pinch your fingers.
You might pinch your fingers between the table and the instrument may hurt your fingers.

4, when transporting the instrument, using special packaging to avoid damage to, for example: drop, bump. Excessive vibration or impact, the instrument may malfunction.

2.4 【installation】

1, using the following instrument conditions:

- a, dust-free air flow environment.
- b, tilt-free work surface.
- c, the work surface without shaking.

2, is mounted in the instrument as temperature and humidity conditions:

Temperature: 5 °C --40 °C

Humidity: at the maximum temperature 40 °C, relative humidity should not exceed 50%

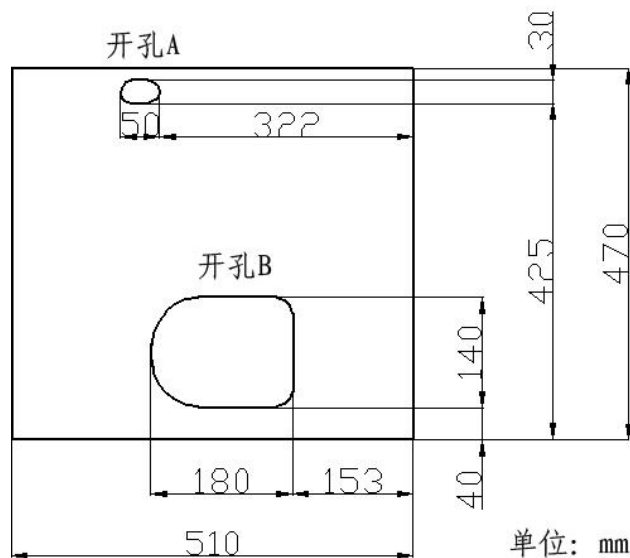
Pressure: 700hPa - 1060 hPa

3, when the instrument is mounted, in front of it a sufficient operating space required.

4, the instrument is mounted in a custom table (optional), or the instrument can withstand the weight (42kg) is the internet. If resonance or noise generation, the instrument may not work properly.

5, the table size greater than the predetermined size labeling illustrated, also in the apparatus foot can be placed adjustable table, in order to adjust the inclination and the position of the table.

The mesa need openings, through pipes and power cables.



Work table size

openings schematic A: power supply line through the pump.

Opening B: through to the water and drain. 6, the instrument is mounted to avoid direct sunlight, temperature and humidity or excessive heat.

7, the instrument is mounted in place to avoid contamination of, for example: acidic and alkaline etching gas. Corrosion may cause

equipment to malfunction.

8, paired with at least 10cm space behind the instrument so that the fan is not blocked. If the fan is blocked, the internal temperature of the instrument will rise malfunction.

9, carefully preserved the screws removed from the instrument to prevent falling into the internal instrument.

2.5 [Power supply]



note

- 1, not to apply an excessive load on a power socket.
Excessive load will cause abnormal heat generation at the power socket.
- 2, ensure that the power supply using the voltage matches.
If the line voltage is too high or too low, the instrument will not work, failure, or even cause a fire.
- 3, to ensure access security instrument ground.
Failure or leakage may cause electric shock or fire.

2.6 After using



note

- 1, if not in use for a long time, remove the power plug.
If there are dust deposited on the power plug pins, may cause short circuits or fire.
- 2, to ensure that every day after you are finished using the instrument, the need to clean up the processing unit.
If not done for a long time to clean up, processing waste will become solid and difficult to remove.
- 3, when not in use, turn the power switch, and holding the scanning unit and processing unit cover lid closed. If dust adheres to or falls may affect the dimensional accuracy, or even failure.
- 4, please keep the tank clean and wash the replacement water to avoid debris in the water caused by excessive waterway blockage.
If poor Sheung Shui, will affect the processing results, even the lens grinding dust too much, the instrument malfunction.

2.7 [Maintenance



and

inspection]not

e

- 1, prior to use and after use, check the integrity of the device. Do an inspection and maintenance recommended every after a certain number of processing.
Inspection and maintenance carried out by qualified service personnel, please contact the manufacturer or an authorized reseller.
- 2, to ensure adequate maintenance of reserved space.
Work in a small space, damage may occur.
- 3, to ensure that the replacement fuse to specification.

Otherwise, a fire may occur.

4, when the grinding wheel, ensuring that adequate bar sand.

Otherwise, processing wheel may be damaged or can not complete the normal process.

5, when the sand bar less than 5cm, please replace new sand bars.

Too short strip of sand is difficult to grasp, it might hurt your hand.

6, to ensure that when the wheel rotates goggles.

Splash water contains processing waste, it may hurt your eyes.

7, prohibit the use of materials other than a predetermined lens grinding wheel.

Otherwise, the wheel will be damaged.

8, in the process, the processing unit opens a lid sensor will be released, but keeps rotating grindstone, so please open the cover carefully.

9, to ensure a dedicated filter.

Otherwise, the filter will be blocked or water supply.

10, if damaged screen, please change.

Filter will not damage the complete filtering, water supply will be blocked.

11, prohibit the use of organic solvents to clean the instrument. For example: a paint thinner to clean the instrument housing. Organic solvents will damage the instrument.

2.8 [Recycling]

1, according to local government regulations on recycling, disposal or recycling components of the instrument.

2, dealing with packaging materials, according to local government regulations on recycling, classified by material processing.

3, dealing with the waste lenses, please according to local government ordinance on non-combustible material.


2.9 【label】

Safety tips throughout the body affixed label, please attention.

2.10 【security function】

For safe use, the instrument provides a variety of security features.

[Before beginning processing, the processing unit checking the lid is closed the lid does not close}

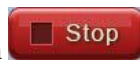
 process unit, the lens processing can not be started.

note

If the lid is opened during processing, processing will not stop, do not open the lid during processing to avoid danger.

Open the lid after a complete stop working grindstone.

[Stop button



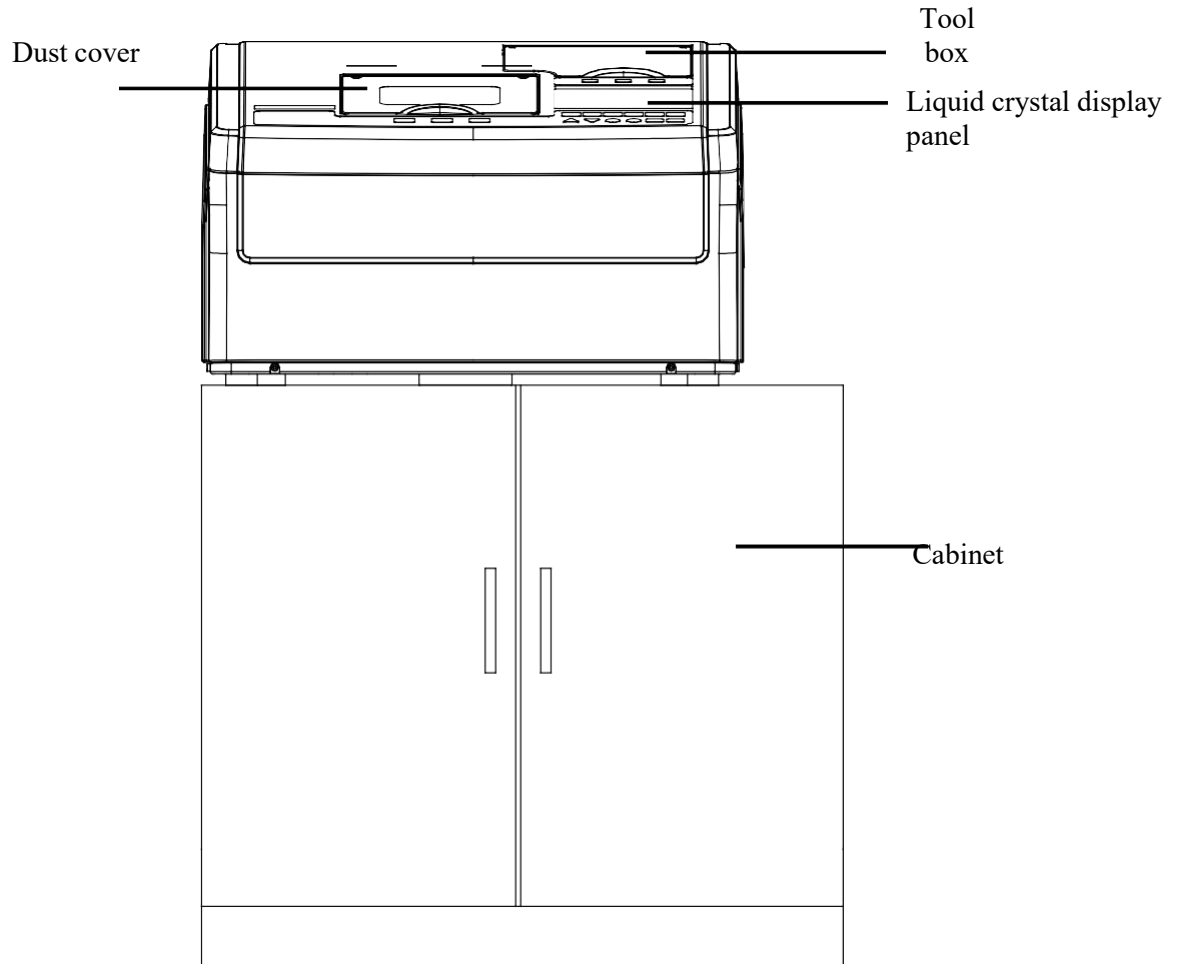
This is a key stop working, use this button, the processing will be an emergency stop. When an exception occurs, if necessary, should be shut off switch.

[Self-test function]

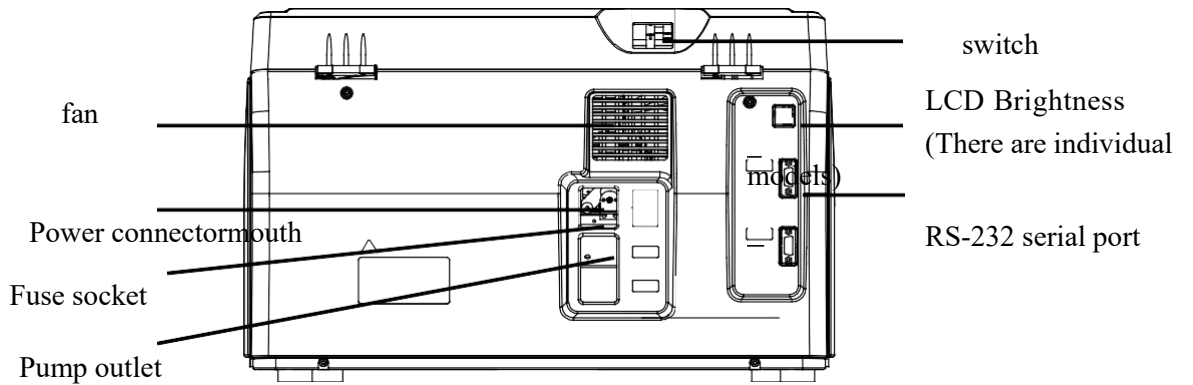
If an exception occurs, the system will immediately stop running, and shows the contents of an error on the display.

Third, the structure

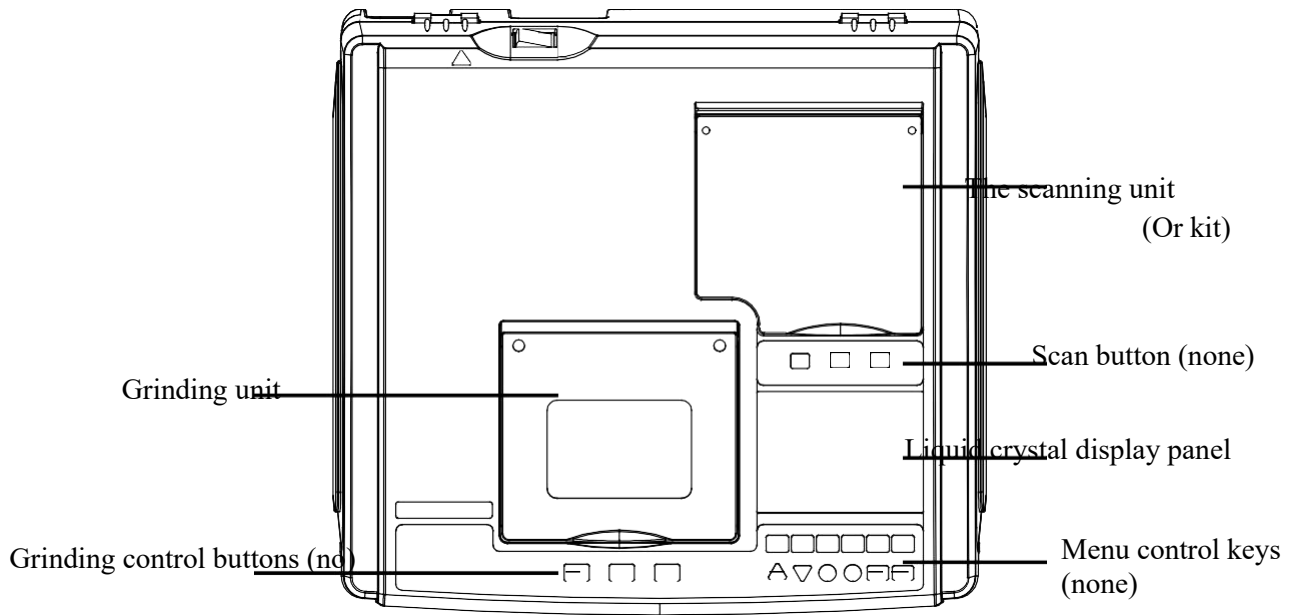
3.1 [Map] instrument as a whole



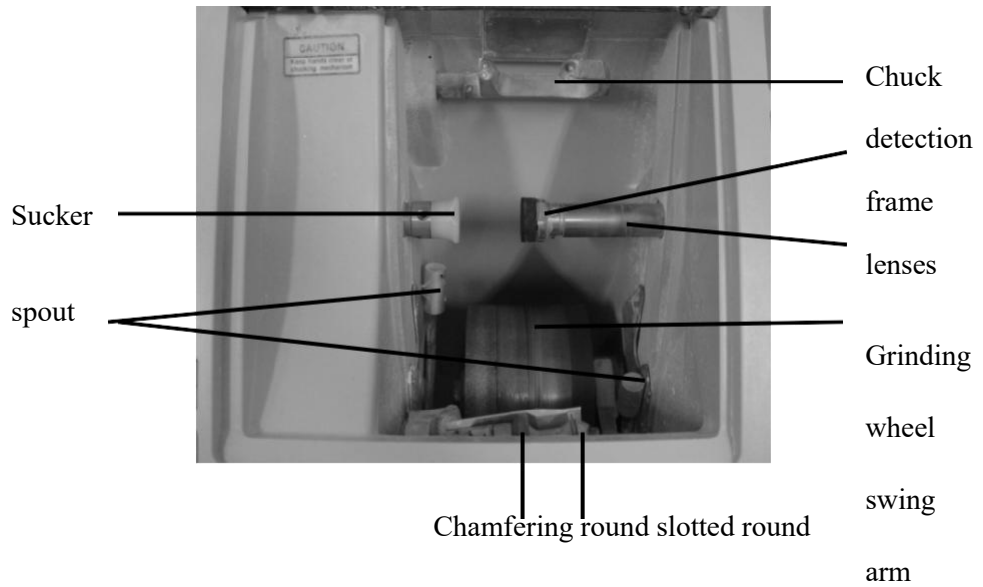
3.2 【Rear view】



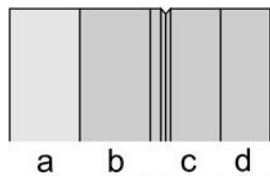
3.3 【Front view】



3.4 Polishing unit []



3.5 [Main] grinding wheel



- a: resin lenses coarse grinding wheel
- b: glass lenses coarse grindstone
- c: (V-groove with a) grinding wheel
- d: polishing wheel

3.6 【Main interface】



Main interface

Lens material, comprising "treefat", "glass", "PC".

Frame Type, Packageinclude "Full Frame" "Half-box"

"Frameless." Polishing lenses, optional "polishing"

"Unpolished." Lens chamfering, optional "No chamfer" "Chamfering."

Selecting the direction of the lens, "Right" or "left".

Press this button to display the current scanned graphics.

Sharp edges/ Slotting position selection.

Automatic ratio;

Sharp edges/ Convex lens from the

position of the slot; Edit sharp edge/ Slot ratio.

Box center distance, the distance between the left and right eye frame geometric center.

The distance between the IPD, the left and right lens optical center.

High pupil, the frame from the geometric center of the lens optical center in the vertical direction.


Correction value, when the actual size of the lens after polishing the lens the size of a deviation in

the display interface may be used to repair

Positive correction.



Mode, including "Auto", "guidance", "coarse", "grinding" and "sharp

edge" and other models.  Input box in the back you want to save the file name, 004 ~ 099.



Save the file, Storage range: 004 ~ 099, a total of 100 graphic file.



Settings, enter the menu.



Start processing of the

lens.  Stop the current process.









Clamping, release the lens.

3.7 【main menu】



main

-  Grinding Count
  Grinding wheel
-  parameter settings
-  System
-  Calibration
-  language selection

3.7.1 [Grinding counts] Milling machine has lens processing number. Record the total number of grinding a variety of lenses.



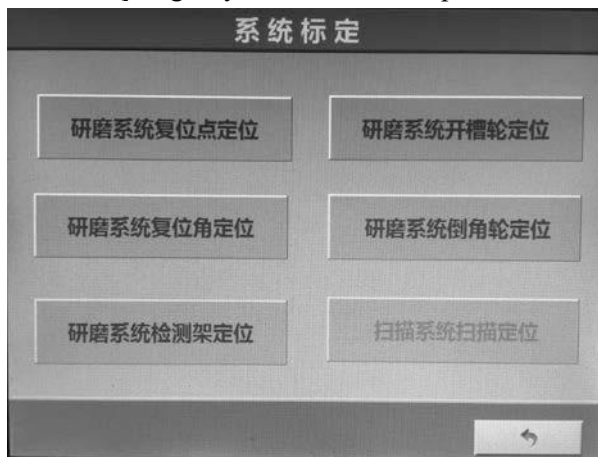
Grinding Count

3.7.2 [language selection] Chinese / English interface options.



language selection

3.7.3 [System Calibration] Edger system calibration options.



System Calibration

3.7.4 [Grinding wheel] Selection operation means performs



individual independent operation.

Grinding wheel

[Grinding wheel rotational main] Control of the main wheel start / stop.

[Grinding wheel rotational secondary] Auxiliary wheel control start / stop.

[Pump] Control of pump start / stop.

[Scan System Reset] Start scanning the system reset operation.

[Polishing System Reset] Polishing boot the system reset operation.

[Horizontal movement] Input data, performs the appropriate action to start.

[Swing arm movement] Input data, performs the appropriate action to start.

[Rotation movement] Input data, performs the appropriate action to start.

[Auxiliary wheel arm] Input data, performs the appropriate action to start.

[Grinding voltage detection] Grinding starting voltage detecting operation.

[Chamfered voltage detection] Voltage detecting operation starting chamfer.

3.7.5 [Guide Mode] Sharp edges may for manually grooving parameters.



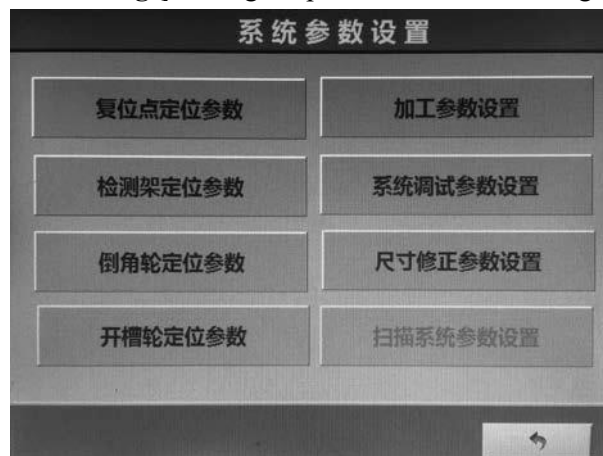
Guide Mode [protruding

sharp edge margins] provided sharp edges from the horizontal position of the width of the outer surface of the lens. [Sharp edge tip Aspect Ratio] NUMERICAL position of sharp edges.

[Grooved convex Margin] Slot width is provided from the horizontal position of the outer surface of the lens.

[Slotted groove width ratio] Set the value of the slot position.

3.7.6 [parameter settings] Setting the parameters of the milling machine.



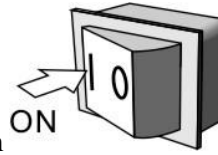
parameter settings

Use the touch pen to select the parameter to modify options, click to enter.

Fourth, the rules

4.1 【ready】

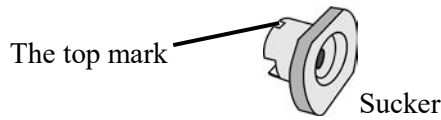
4.1.1 【Boot】



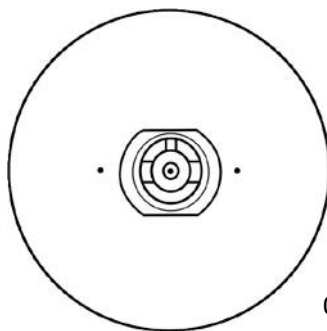
The instrument power, turn the power switch

note:Instrument self-test procedure to be completed, no "error" prompt information to boot, before using the instrument.

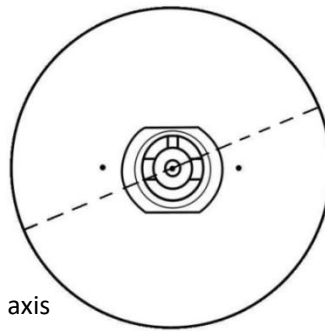
4.1.2 【Paste sucker】



- 1, using the power of the instrument and the axis of the lens optical center mark.
- 2, centering device using suction cup attached to the lens optical center. You need to use a double-sided stickers (optional).
- 3, a progressive lens chuck attached to the glasses "cross" flag, the chuck up to the top mark.

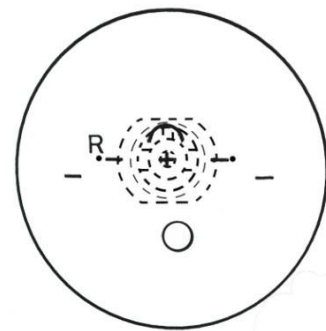


No astigmatism lens



0° axis

Have astigmatism lens




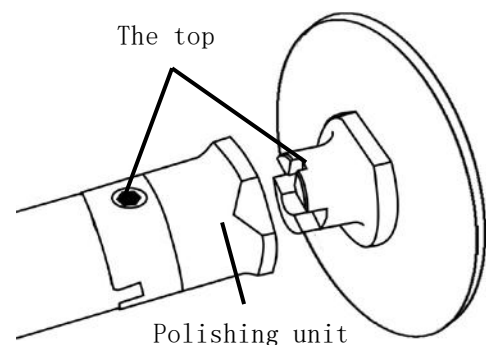
gradually Into the lens

note: 1, the sucker must be attached securely, it may cause the lens moves during processing, the lenses are worn. 2, double-sided processing of the lens to be attached should be less than the size, double-sided stickers affect the processing of too great. Need to use scissors to cut off the excess portion.

4.1.3 【Sandwiched sucker】

- 1, the sucker suction into the grinding unit.

- 2,  Clamping the lens button, preventing cover Dust cover.



4.2 [Processing] lens

4.2.1 [Full Frame]


1, the parameter setting processing



: Click the option to use the touch pen, corresponding modification box from the heart, IPD, high pupil correction value and other options, set the appropriate parameters.



2, the start processing of the lens




press  Button to start, the detection lens, coarse grinding, fine grinding sharp end edge.

3, processing is completed, the lens is removed


Open the dust cover, press  Button, release the lens.

4, if the lens is slightly larger, grinding can be processed

And the lenses were intensified, cover the dust cover, to reduce the

amount , will  Change: "sharp edge", according to  Button to start the grinding process.

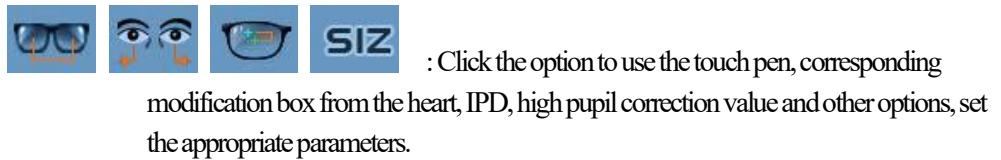
note:1, this mode can only grinding lenses currently being processed, can not repair a former mill has been the finished lens.

2, Grinding is completed, the  Change: "Automatic" in order to lower a lens processing.


prompt:When working full-framed glasses, to be based on the frame material, lens material, increase or decrease reasonable "correction value" in order to achieveProcessing the perfect

4.2.2 [Half frame]

1, the parameter setting processing



2, the start processing of the lens

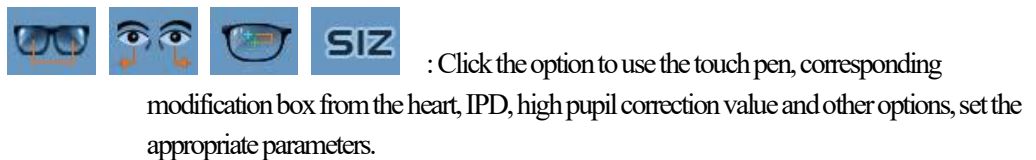
press  Button to start, the detection lens, coarse grinding, fine grinding, polishing (optional), a chamfer (optional), Slotted end.

3, processing is completed, the lens is removed


Open the dust cover, press  Button, release the lens.

4.2.3 [Frameless]

1, the parameter setting processing



2, the start processing of the lens




press  Button to start, the detection lens, coarse grinding, fine grinding, polishing (optional), a chamfer (optional) End.

3, processing is completed, the lens is removed

Open the dust cover, press  Button, release the lens.

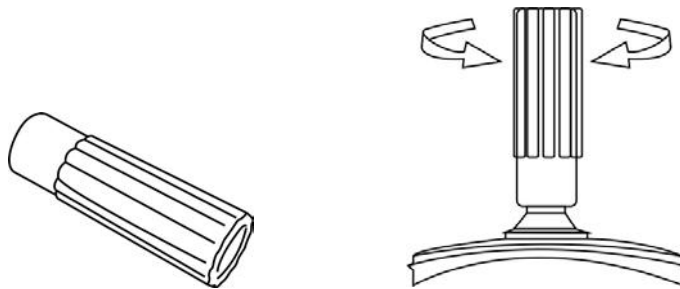
4, using the drilling machine (optional), lens machining operation punctured.

4.3 [] Processing in the other direction of the lens

- 1,  Left / right switch button, switch to the other side to be processed.
- 2, the lens to be processed into the grinding unit interposed sucker,  Clamping the lens button.
- 3, the same processing manner,  Button to start processing.

4.4 [Removed] sucker

The chuck buckle into the top of the handle, gently twist, the suction cup is removed from the lens.



note:When the handle is removed using a suction cup, a soft cloth around the lens. If empty-handed catch lens, the lens edge may scratch your hand.

4.5 [After the processing of daily use]

- 1, a brush cleaning process units, water tanks, waste processing in the filter. And replace the water in the tank. Note: Do not use water to flow inside the instrument, the instrument will malfunction.
- 2, the power switch off.
- 3, the instrument daily inspection. Around a, check the instrument for damage. b, check processing wheel for damage. C, the water tank is appropriate to check, it generally takes up to 70% of full scale. d, check the filter for damage. 4, closed polishing unit, kit dust cover to prevent dust from falling into the interior of the instrument.
- 5, accessories, tools put into place to fix, easy access next time.

Fifth, storage

If the instrument is not used for a long time, please keep the following instrument requirements.

- 1, if the instrument is not used for a long time, need to unplug.
- 2, the instrument should be stored in a dry, dust-free, avoid direct sunlight.
- 3, drain the water in the tank and clean the water tank and pump.
- 4, closed polishing unit, kit dust cover to prevent dust from falling into the interior of the instrument.
- 5, accessories, tools and other stored together in a fixed place, to prevent loss or damage.

Sixth, equipment maintenance

6.1 [Cleaning water tanks, water pipes]

Whenever the instrument be a certain number of processing ophthalmic lenses, wash tank, the filter and replace the water.

When processing of the lens apparatus, when the water spray nozzle becomes smaller, or about the size of the water spray nozzle asymmetry, may be blocked Sheung processing waste er. Please clear the Sheung Shui waterways.



note:

a, periodically clean the tank, the filter and replace the water tank. Mixed with processing waste too much water will cause filter clogging and Sheung line, affecting the normal use of the instrument.

B, cleaning the tank, do not wet the upper half of the pump, the pump may cause damage, or cause electrical shock.

6.2 Clean the exterior []

When the instrument cover plate, panel or the like becomes dirty, using a soft cloth. For stubborn stains, use a cloth soaked in neutral detergent, and finally with a dry cloth.



NOTE: Do not use organic solvents to clean the instrument.

6.3 [Clean up the dust inside the instrument]

After a certain period of use of the instrument, dust generated during the grinding of the lens, dust in the environment air can accumulate inside the instrument, affect the performance of the instrument. It is therefore recommended based on how much processing capacity, regular cleaning of dust inside the instrument.

note:

a, clean up the dust inside the instrument, you need to open the case, this operation be carried out under the guidance of professionals. b, do not touch the

interior of the instrument and the wire member. c, using the dust removal device for the instrument.

6.4 [Replace the fuse]

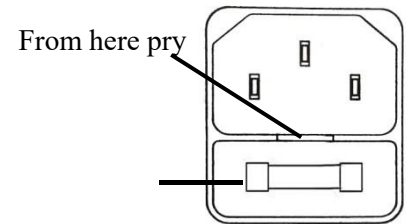
If the power switch is not turned on the instrument, so that the fuse may be burned, to



be replaced with new fuses. note:

a, before replacing the fuse, turn off the power switch, unplug. b, you must use the prescribed specifications of the fuse. Other specifications fuse may damage the equipment or cause a fire. AC115V area: Use 10A250V fuse. AC220V area: Use 4A250V fuse.

- 1, turn off the power switch, unplug the power cord from the power outlet.
- 2, the power supply within the instrument unplug the power outlet.
- 3, the fuse removed from the stationary base fuse socket.
- 4, replace the fuse.
- 5, the fuse holder fixing base again pushed into the fuse socket.



Fuse fixed base

Power Interface

6.5 [Grinding wheel]

After working grindstone used for some time, the wheel becomes old, it will increase the processing time, and even affect machining accuracy. Therefore, we must regularly grinding wheel.

If necessary grinding wheel, please contact the manufacturer or an authorized reseller, operated by




professionals.

note:

- a, grinding wheel, to be operated by the manufacturer or authorized dealer assigned professionals.
- B, when the grinding wheel, ensuring that adequate bar sand. See wheel Combinations [3.5] Otherwise the main grinding wheel, the grinding wheel may be damaged or processed by normal processing can not be completed.
 - Rough-grinding wheel Glass - (orange) WA80K finish grinding
 - (White) WA320K
 - Buff - (light blue) WA4000RH-20
 - wheel chamfering - (White) WA320K
- c, to ensure that both hands sand bar.
- d, when the sand bar less than 5cm, please replace new sand bars.
 - Too short strip of sand is difficult to grasp, it might hurt your hand.
- e, to ensure that when the wheel rotates goggles.
 - Splash water contains processing waste, it may hurt your eyes.
- f, the grooving wheel need not be polished.


[Grinding wheel to enter the menu]

1, the upper right corner of the main screen  Button, enter the main menu.

2. Click into  "Grinding wheel" option.

3, the processing unit cover open

[Glass rough-grinding wheel grinding, fine-grinding wheel]

1, click to select the "main wheel rotation" option,  Button, the main wheel starts to rotate.

2, click and choose "pump" option,  Buttons, water pump began to work.


3, the sand bar fully immersed in water.

4, Click and choose "pump" option,  Button, the pump stops working.

5, the sand gently press the article to the rotating wheel. 5 seconds.

6, Click and choose "pump" option,  Buttons, water pump began to work. Wash wheel.

7. Repeat 3-6 times.

8, respectively, select the "master wheel spin" and "pump" option,  Button, the main wheel stops rotating, the pump is stopped.

[Polishing buff]

1, click to select the "main wheel rotation" option,  Button, the main wheel starts to rotate.

2, Click and choose "pump" option,  Buttons, water pump began to work.


3, the sand bar fully immersed in water.

4, click and choose "pump" option,  Button, the pump stops working.

5, the soft sand bar against the rotation of the wheel. Keeping a few seconds.

6, click and choose "pump" option,  Buttons, water pump began to work. Wash wheel.

7. Repeat 3-6 times.


8, respectively, select the "master wheel spin" and "pump" option,  Button, the main wheel stops rotating, the pump is stopped.

note: Buff the surface must be smooth, gentle grinding wheel surface does not form scratches. Tip: Before grinding wheel, pre-soaked sand bar in the water for 10 minutes.

[Chamfering grinding wheel]


1, click to select "auxiliary wheel rotation" option,  Button, starts to rotate the secondary wheel.


2, click and choose "pump" option,  Buttons, water pump began to work.

3, click to select "chamfer voltage detection" option  Button, chamfering round down.

4, the strip sufficiently wetted sand water.

5, the soft sand bar against the chamfer two wheels. Keeping a few seconds.

6,  Button, the auxiliary wheel raised.

7, respectively, select the "auxiliary wheel spin" and "pump" option,  Button, the auxiliary wheel stops rotating, the pump is stopped.

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press  Button twice.

Seven, technical parameters

Lens processing system:

Sharp edges, frameless, grooving, polishing, chamfering: automatic mode and a guiding mode

Lens Material:

Glass, resin, PC

Lens Processing:

Max: lens diameter: 90mm

Minimum (without safety chamfered): flat edge machining lens diameter: 28mm

Processing sharp edges lens diameter: 30 mm

Minimum (safety chamfered): flat edge machining lens diameter: 34mm

Processing sharp edges lens diameter: 36 mm

* Specific range of processing with different processing modes may vary.

Grinding wheel:

Roughing grindstone (Glass): Diameter:100mm

Width: 17mm coarse grinding wheel (resin):

Diameter: 100mm Width: 17mmGrinding wheel:

Diameter:100mm Width: 23mm

Polishing wheel: diameter: 100mm Width: 12mm

Lens clamping:

Clamping: Electric

Clamping pressure: 40-50kgf

water supply system:

Pump: AC 100 ~ 230V

Lens machining accuracy:

Lens dimensions: \pm

0.05mm axial Lens: \pm

1 °

The scanning unit:

Scanning accuracy: \pm

0.05mm Scan Time:

20 second

Machine:

Appearance: 520 (W) * 485 (D) * 330

(H) weight: 45 Kg

Power Supply: 230V 50 / 60Hz or 110V 50 / 60Hz

Power: 1.2 KW