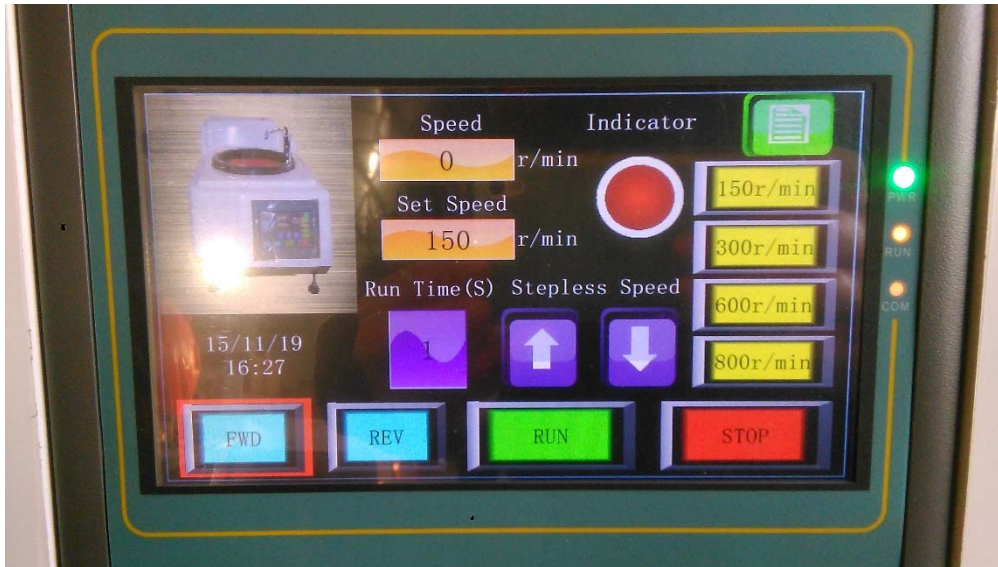


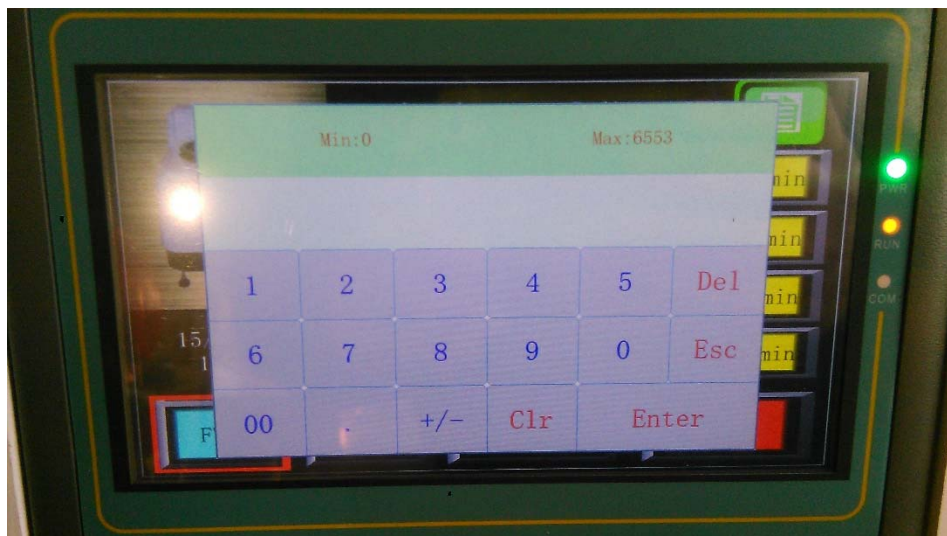
OPERATION INSTRUCTION
FOR
METALLOGRAPHIC SPECIMEN
GRINDING & POLISHING MACHINE
MODEL XGRIND-312

Touch screen use:

1、 Plug in the power, turn on, run for about 10 seconds, touch screen will appear the following interface, as shown below:



Select run time (1-1000 seconds), select speed (touch screen default speed 150r/min, 300r/min, 600r/min, 800r/min), also can choose stepless (press the down arrow) according to user needs, when selecting stepless shall be at standstill, and then select reversible press run key to operate. As follows (time setting)



The top right corner of the display  is in English toggle key, press it will appear the following figure (selecting the desired input method):



After use, press the stop button to stop the operation.

Important notes and safety important

When use this grinding machine, must comply with these safety matters, so as to avoid the fire, electric shock and injury.

- 1、 Read and understand all the rules.
- 2、 Keep in mind the use of electric appliances.
- 3、 Comply with all warnings and regulations in the documents provided by the product.
- 4、 If the use of rules and safety information has been contradictory, subject to safety information. If you can't solve the contradiction, ask the seller or service organization for help.
- 5、 In the cleaning machine appearance, please unplug the power plug ,do not use cleaning fluid or keroosene, using only the wet cleaning machine.

- 6、 Do not put the equipment on the unstable table, otherwise, the equipment falls, easy to cause serious damage.
- 7、 Do not allow any items on the power, grinding and polishing machine.
- 8、 Not to overload power socket plate on the wall, so as not to cause a fire or electrical shock.
- 9、 In order to avoid the risk of electric shock, do not break down the polish-grinding machine. If need to be repaired, should ask the maintenance technician to repair. Opening or removing the cover will expose you to dangerous voltage or other dangerous. In correct reassembly, will occur in the future use of electric shocks.
- 10、 In the following situations ,pull off the plug from the wall,and please the qualified maintenance technician to repair.

Power cord,plug or cable damage or wear.

Grinding and polishing machine according to rules, but the machine is not working.

The grinding and polishing machine is down or case is damaged.

The performance of the grinding machine suddenly changed obviously.

Only to allow adjustment of the use of the manual mentioned in the manual.

- 11、 Save the manual.

The purpose and characteristics of the polish-grinding machine.

This grinding and polishing machine is a double disc machine ,it's suitable for pregrinding and polishing of metallographic sample.It's a necessary equipment for the user to produce metallographic sample. The machine with a cooling device, the sample can be cooled by the pre grinding, in order to prevent the damage caused by

overheating of the sample. The machine is convenient, safe and reliable, it is the ideal equipment for the factory, scientific research units, as well as laboratories of college and universities.

Main technical index

- 1 Working voltage:220V 50HZ**
- 2 Disc diameter: Φ 250mm/ Φ 200mm(optional) speed150/300/600/800 rpm**
stepless speed regulation and constant speed four
- 3 Motor:YSS7124、 550W**
- 4 Dimensions:800*640*360**
- 5 Weight:65Kg**

Outline of structural characteristics

1、 The polish-grinding machine is composed of a base, a polishing disc and a plastic pressing cover. The machine adopts the glass steel casing, which makes the machine more beautiful and generous in appearance.

2、 The motor is fixed on the base, the shaft through the triangle belt drive, the disc set on the shaft, driven by the key and rotation, the switch is fixed directly on the body, the flow of the water spray pipe can be adjusted by the panel knob.

Installation method

- 1、 With the machine outside the packing box to open.
 - 2、 Remove the machine side of the packaging, remove the equipment.
 - 3、 Place the machine on the flat without the debris and solid.
 - 4、 To plug in the back of the machine into the inlet and drain pipe.
 - 5、 Earthing wire.
- 1、 The polishing pad is packed in cartons and placed on the base of device. When the initial installation of the polishing disc removed, mounted on the grinding machine spindle. With a rubber hammer mill selling in axial down beat to grinding selling loose so far.
 - 2、 Plug the power plug in the socket of the 220Vvotage,turn on the power switch start the macine according to the operation method ,check the operation is normal.
 - 3、 Inspecton is completed, you can use the operation.

Using method: polishing

- 1、 With the pressure sensitive adhesive polishing fabric paste on the right side of the disc. If is a s elf polishing fabric, it should be laid on the right in the polishing disk.
- 2、 Putthe external pressure ring on the outer circle of the disc, thereby fixing the non pressure sensitive adhesive.
- 3、 Put the good polishing agent coated on the fabric.
- 4Open the power switch, the polishing disc rotation, the grinding specimen forced to live and gently close to selling first will sample according to throw the disc's center position, side edge polishing out ward translation sample.
- 5、 The operation of the feeling of fabric is very large, should be the polishing agent and then dilute some of the.
- 6、 polishing fabric damage, should be replaced in time, so as to avoid damage to the specimen.

Using method:grinding

- 7、 Put the water sand paper soaked, flat on the left lap, pressing buckle ring.
- 8、 Open the left switch and adjust the flow of water.
- 9、 Open the power switch, so that the grinding wheel counterclockwise rotation.
- 10、 Hold the cut well sample hard and gently close to sandpaper, good contact does not beat with specimen and sandpaper to be can be forced to suppress the sample grinding.
- 11、 The intensity of the friction is not so that the surface of the heat caused by the friction of the organization is good (about 2kgf).

When use this machine for the first time

Due to the machine grinding selling and the transmission shaft is a conical surface connected, is used for the first time, using a rubber hammer will double disc according to the axial direction of down beat to work closely with better. Otherwise, it will affect the performance of the machine.

Matters need attention

- 1、 The machine must be well grounded, and grounding device reliability.
- 2、 Inlet and drain pipe required to open, the connecting part can not leak.
- 3、 Every time after the operation, should do a good job of cleaning and maintenance of equipment.
- /4、 When the machine has abnormal sound, should immediately stop for inspection.

Product qualification certificate

Product name:

Serial number:

Model: XGRIND-312

Date of production:

Inspection record:

- 1、 Manufacturing and assembly quality to meet the requirements of the drawings,electrical appliances comply with technical requirements.
- 2、 Smooth rotation,low noise.
- 3、 Appearance quality.
- 4、 There is no lack of other components.

After examination that qualified,it's final quality okeyed for sales.

Inspector: : _____

Check date:

Packing list

Product number:

Name	Specifications	Units	Number	Remarks
XGRIND-312			1	
Product instruction			1	
Product qualification certificate			1	
Packing list			1	
No viscose flannelette	Φ250		2	Velvet
Sandpaper	Φ250		2	
	Φ250		2	
Polishing disc	Φ250		2	
Inlet pipe			1	
Drain pipe			1	