

Drill Bit Grinder

GS-21

GS-34

OPERATION

1. Determine the drill material, then choose the proper grinding wheel, CBN grinding wheel is the standard accessory. (CBN for HSS material drills) (SDC for carbide material drills)

2. Reset the scales of Web Adjustment Shelf to zero: turn it by clockwise to the bottom and then counterclockwise to zero.

3.A. Choose the right size of collet. Put collet into collet chuck.

*Insert collet into collet chuck by 45° angle.

B. The order of setting operation: Put the collet into collet chuck and screw in a little bit by clamping nut, then insert the drill through the collet chuck and push in until the drill is out of the clamping nut about 5mm.

*Do not fully fasten the clamping nut with collet chuck, keep the drill able to be adjusted.

4.A. Adjust the scale of Web Adjustment Shelf according to the drill diameter.

Example: 12mm adjust the scale to 12

12.2mm adjust the scale to 12.5

12.6mm adjust the scale to 13

B. Insert the chuck set into the Web Adjustment Shelf. Then connect it tightly. Turn it right to the end.

C. Plug the drill to the end and turn it right to the end.

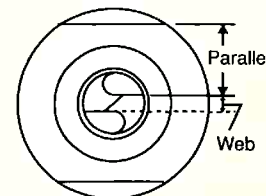
D. Turn the chuck set right to the end and tightens it.

E. Turn the chuck set a little to the left and taking it out gently.

*Make sure that the cutting lip of drill is parallel with the slot of clamping nut before grinding job started.

If it is not parallel, adjust it again.

Attention! If the cutting lip is downward, must increase the scale of Web Adjustment Shelf. If it is upward, please decrease the scale of the Web Adjustment Shelf.



*When the flute length of a drill becomes shorter, the thickness of a drill web would become thicker. So, for the same diameter of drills, the shorter length of a drill, the higher scale of Web Adjustment Shelf need to be increased.

5. Turn the power switch on and wait until the motor rotation is stable (about 10 seconds), put the chuck set into Shelf I. The slot of clamping nut must fit with the two pins on the grinding shelf. Insert the drill gently into Shelf I until reach the grinding slip. Grind the drill by moving left and right until the noise stops. And then turn to the other side. Grind the drill with the same way.

*GS-21: The grinding size of drill is 12mm~26mm.

*GS-34: The grinding size of drill is 12mm~34mm.

*Adjustable point angle as follows: 90° for NC spotting only.

12mm~26mm - 90° to 140°

26.1mm~32mm - 118° to 140°

32.1mm~34mm - 125° to 140°

*While grinding, don't hold the stem of the drill, it will affect the accuracy.

6. For grinding the center of drill and the web of drill, insert the chuck set into Shelf II and move left and right until the noise stops. After that turn the chuck set to the other side and grinds it by the same way until noise stops.

*The insertion and ejection of the clamping nut set from Web Thinning Shelf, must make sure that the center part of the slot in clamping nut is fitted with the pin of Shelf II.

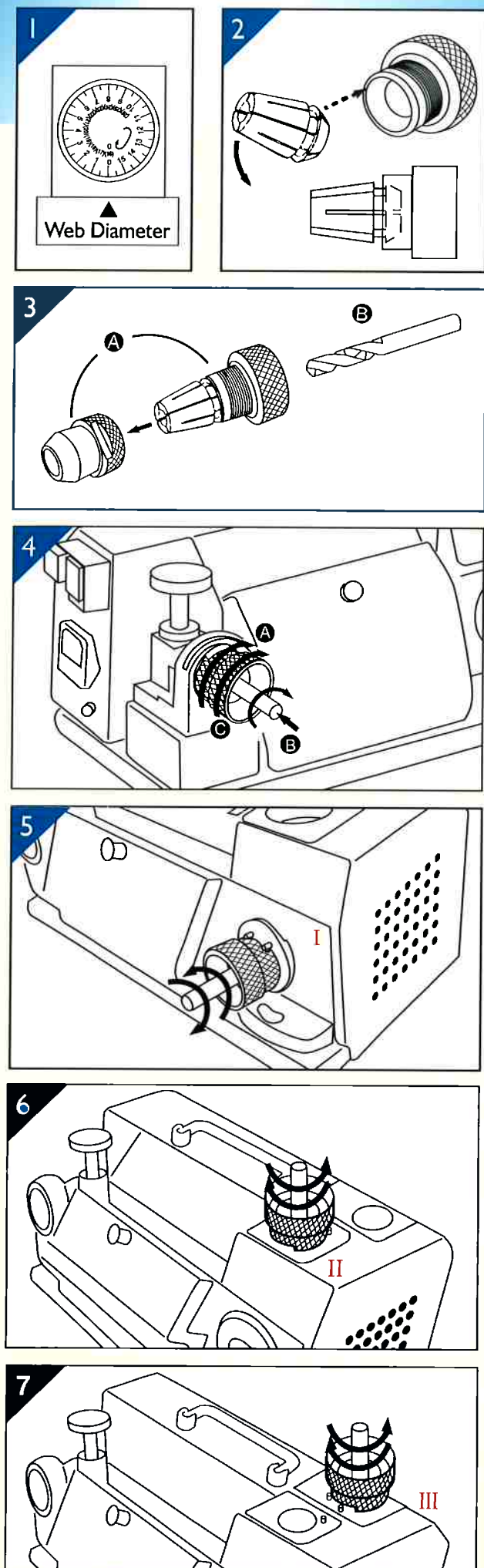
7. For grinding the Secondary relief of the drill, please insert the holder set to Shelf III, grind until noise stops, then turn to the other side and grind with the same way.

*The sharpening drill angle must be 125~140 degree.

8. Please clean the ash on each grinding shelf after finishing the grinding job.

Remark: 1. For grinding the (long drill) deep hole drill, increase the scale of Web Adjustment Shelf.

2. The high spiral drill bit: Based on the size and specification, increase the adjustments on the scale (Diameterx2).



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