

Affordable, accurate & versatile

Simple to operate. Unskilled operators can quickly learn to produce perfect drill points. Set up and grinding is fast and the web can be thinned in a few seconds.

Accurate. Rugged construction and precision components ensure accuracy and repeatability over many years. Heavy duty compound slides and one-piece cast iron base increase rigidity and minimise vibration. The work head incorporates precision needle roller and thrust bearings, while the main chuck spindle utilises a rotalin bearing giving less than 0.005mm deflection. The six-jaw chuck accurately centres the drill to ensure each cutting lip is equally ground for both length and angle to develop a precision point.

Versatile. A wide range of points can be ground: Right-hand and left-hand drills with point angles between 40° and 180°, standard, centre drills, carbide drills, step and sub land drills, taps and reamers. Also a number of NC self-centre points can be ground, including split, four-facet and spiral. Cutting lips can also be corrected.

SPECIFICATION

| MODEL | ZB-50N (DUAL CAM) | ZB80 |
|-------------------------------|--|---|
| Drill Size | (Ø2.5mm-Ø51mm) straight or taper shank (1,2,3,4,5,6 flute) | Ø4mm-Ø80mm(1,2,3,4,5,6 flute) |
| Point Angles | 40°-180° | 40°-180° |
| Clearance angle | 0°-18° | 0°-18° |
| Motor | 0.38kw(0.5hp) single or 3 phase totally enclosed fan cooled | 1.13kw(1.5hp) |
| Grinding Wheels | Main wheel 7" x 1 1/4" x 1 1/4" (180mm x 32mm x 31.75mm) Point thinning dish wheel 6 5/8"x7/8"x1 1/4" (165mm x 21mm x 31.75mm) | Main wheel(180mm x 50mm x 31.75mm) Point thinning dish wheel (165mm x 21mm x 31.75mm) |
| Grinding the End of End Mills | 2,3,4,6,12 flute | 2,3,4,6,12 flute |
| Net Weight | 300kg | 380kg |
| Dimensions | 970mm x 910mm x1370mm | 1090mm x 1120mm x 1370mm |

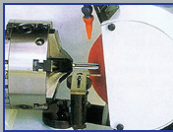
STANDARD ACCESSORIES

- 6 Jaw Self-Centering Chuck.
- Grinding Wheel (recessed one side)
- "Dish" Grinding Wheel for Point Thinning.
- Grinding Wheel Flange and Balancing Weight.
- Two Grinding Wheel Diamond Dressers (one angle dresser and one straight).
- No. 1,2,3,4 Morse Taper Sleeve for ZB-50N
- No. 2,3,4,5,6 M.T Sleeve for ZB-80N
- Cam No.4 for Point Angle (40°-180°)
- Cam No.6 for Step Drill
- Cam No.8 for 4 Flute Taps or Reamers
- A.C. Motor.
- Tools for General use.
- Service/Instruction Manual.
- Work Light (12 Volts)

ALSO AVAILABLE WITH
MOTORISED HEAD

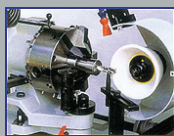
OPTIONAL ACCESSORIES

- Flood Coolant System. (Increases wheel life and prevents burning of drill)
- Silicon Carbide and Diamond Wheels for Carbide Drills.
- Radial Relief Attachment. Relieves Radius of Pilot to Produce Lands. Also for Sharpening End Mills
- Wheel Balancer & Arbor
- Auto Feed Mechanism (pre-setting feeding quantity)
- Powered Work head for Automatic Rotation & Cam Action (Rpm 0-58 step less)
- Extra Grinding Wheel Flange for Cup Wheel
- Cup Grinding Wheel
- Cam for Left Hand Drills
- Cam for Spiral Point Drills
- Cam for Sheet metal Point Drills
- Cam for 1 Flute Grinding
- Cam for 3 Flute Grinding
- Cam for 5 Flute Grinding
- Cam for 6 Flute Grinding



Radial relief attachment. (Optional)

With this device, a flank can be formed over the cylindrical margin of the smaller diameter section of standard twist drill. Also for sharpening end mills.



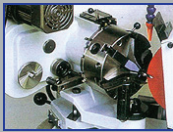
Grinding Counter-Sink drills (1,3,5 flute)



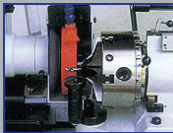
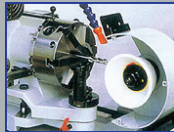
Grinding Conventional point drill



The shoulder of stepped drills may be ground



On these machines; Grinding the end of end mills, cutters is Standard Equipment



SELF-CENTERING POINT Extends drill life improves hole quality reduces thrust

