



# Drill Tap & End Mill Grinder

ORDER NO. VEG-300

CODE NO. 8001-001



## STANDARD ACCESSORIES

1. Prism clamp for 0.5 - 20mm 1pc
2. Grinding wheel 4pcs
3. Halongen work light 1pc
4. Open end wrench 2pcs

## OPTIONAL FOR VEG-300

1. Optical system
2. Tap.End mill grind attachment (for 2-10mm&2,3,4,6,8 fluted)
3. Left - hand grind attachment (for left - hand drills & taps)
4. Diamond or c.b.n.grinding wheel:  
F-0 For small drills for 0.5 - 2mm  
F-1 For tap.drills form 2 - 5mm  
F-2 For tap.drills form 5 -15mm  
F-3 For end mill. drill form 5 - 20mm
5. Shield guard.

## SPECIFICATION

| ORDER NO. | GRINDING CAPACITY        | DIM. (MACHINE) | N.W. | G.W. | MOTOR R.P.M. |
|-----------|--------------------------|----------------|------|------|--------------|
| VEG-300   | 0.5 - 20MM; 0 - 13/16 IN | 360X220X220MM  | 15KG | 16KG | 10000 R.P.M. |



# Universal Cutting Tool Grinder



The main spindle of wheel head is designed three axis. The motor can be rotated 360° in horizontal plane and also can be set the incline angle & escape angle of drills easily. It can increase the grinding function & range of machinery.

ORDER NO.VDG-50 CODE NO.8001-002

## FEATURES

- 1.The machinery can grind drills, step drills, NC drills, taps, end mills, ball radius end mills, lathe tools, ball radius lathe tools, counter sinks, side cutters, roundbars, reamers, hobs, round cutters, etc by changing the attachments.
- 2.Double wheels. It only need to rotate the motor when want to grind the tool of different material. It can increase the safety & repairing the grinding wheel.
- 3.Adopt import & precise roll guide on the table. The table is stable and can be operated smoothly.
- 4.Adopt FC 30 cast iron with high toughness. It can keep the precision of the machine in a long time.

## SPECIFICATION

- 1.Longitudinal travel of table: 230mm
- 2.Cross travel of saddle: 180mm
- 3.Vertical adjustment of wheel head: 120mm
- 4.Rotary angle of wheel headL 360°
- 5.Rotary angle of up-down spindle: 360°
- 6.Working table area: 620mmx190mm
- 7.Size of wheel: 180x25x31.75mm  
120x50x31.75mm
- 8.Speed of wheel: 3600RPM
- 9.Motor:3/4HP, 110V/220V/380V
- 10.N.W./G.W.:280kgs/320kgs
- 11.Size of packing (LxWxH): 1000x850x1540mm



# Attachment For VDG-Cutting Tool Grinder

ORDER NO.VDG-50B CODE NO.8001-003

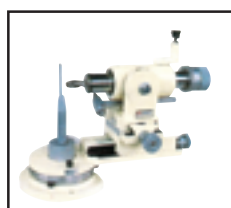
VDG-50B Drills & taps grinding attachment



- 1.Grinding capacity:  $\phi 2-\phi 60$ mm(straight shank & taper shank)
- 2.The kinds of grinding tool include: drills, step drills, NC drills, counter sink, round bars, lips of end mills, etc.
- 3.Double cams: Can grind the drills from one flute to six flutes, including odd number flutes and even number flutes.
- 4.The pointangle of drills: 40°-180°  
The clearance angle of drills: 0°-18°

ORDER NO.VDG-50E CODE NO.8001-004

VDG-50E R Type end mills & cutters grinding attachment



- 1.The attachment can grind end mills, ball radius end mills, ball radius lathe tools, carving cutter, etc.

ORDER NO. VDG-50F CODE NO.8001-005

VDG-50F(60F) Lathe tools grinding attachment



- 1.This attachment is specially used for grinding general lathe tools, CNC lathe tools.

ORDER NO.VDG-50K CODE NO.8001-006

VDG-50K(60K) drills & cutters grinding attachment



- 1.Grinding capacity: $\phi 1.5-\phi 32$ mm (straight shank & taper shank)
- 2.The kinds of grinding tool include: drills, step drills, taps, side cutters, lips of end mills, round bars etc.
- 3.Double cams: The cam of grinding drills & the cam of grinding taps.

ORDER NO.VDG-50D CODE NO.8001-007

VDG-50D(60D) End mills grinding attachment



- 1.Adopts precision 5C collects for the attachment, and uses special tool steel for the main spindle. It is very precise and durable owing to high frequency heat-treatment and chromium plating grinding.
- 2.The kinds of grinding tools include: end mills, side cutters, etc.

ORDER NO.VDG-50H CODE NO.8001-008

VDG-50H(60H) Tools grinding attachment



- 1.This attachment specially grinds end mills, reamers, hobs, side cutters, etc.



# Universal Drill & Cutter Grinder



Double cams: The cam of grinding drills & The cam of grinding taps.

| ORDER NO. | CODE NO. |
|-----------|----------|
| VDG-32N   | 8001-010 |

## FEATURES

1. Grinding capacity:  $\phi$  1.5 ~  $\phi$  32mm (Straight shank & taper shank) double wheels. It only need to rotate the motor when want to grind the tool of different material. It can increase the safety & save the time for changing & repairing the grinding wheel.
2. The kinds of grinding tool include: drills, step drills, taps, lips of end mills, round bars, etc.
3. Adopts precision 4" 6 pawl self-centering chuck, clipping one time.  
It can grind the blade of drills and do the paring of drills abdomen. The angle of drills both sides and the length of the blade are the same after grinding. It can keep the accuracy of the center of drills without off center.



|                              |                       |
|------------------------------|-----------------------|
| Longitudinal travel of table | 120mm                 |
| Cross travel of saddle       | 135mm                 |
| Rotary angle of wheel head   | 360°                  |
| Point angle                  | 90° - 180°            |
| Size of wheel                | 125x50x31.75mm        |
| Speed of wheel               | 3600 RPM              |
| Motor                        | 3/4HP, 110V/220V/380V |
| N.W./G.W.                    | 90kgs / 120kgs        |
| Size of packing (LxWxH)      | 800x550x670mm         |



# Universal Drill & Tap Grinder

| ORDER NO. | CODE NO. |
|-----------|----------|
| VDG-60N   | 8001-011 |

## FEATURES

1. Grinding capacity:  $\phi$  2 - 60 mm (Straight & Taper shank)
2. Grinding tool include: drills, step drills, taps, conter sink, round bars, lips of end mills, etc.
3. Adopt the precise 6" 6 pawl chuck, clipping one time.  
It can grind the blade of drills and do the paring of drills abdomen, the angle of drills and length of the blade are the same after grinding. It can keep the drill center without off center.
4. The main spindle have the grinding wheel 2pcs. The blade and center of drills can be grinded on time. It can save the time for changing the grinding wheel.
5. To clip directly the repairer of grinding wheel in the attachment and it can do the repair of grinding wheel.
6. The motor can be removed 160mm up & down, it can increase the control of the machinery.



## SPECIFICATION

|                                   |                                  |
|-----------------------------------|----------------------------------|
| Longitudinal travel of table      | 180mm                            |
| Cross travel of saddle            | 160mm                            |
| Vertical adjustment of wheel head | 160mm                            |
| Rotary angle of wheel head        | 360°                             |
| Clearance angle                   | 0° -180°                         |
| Point angle                       | 40° -180°                        |
| Size of wheel                     | 180x32x31.75mm<br>180x19x31.75mm |
| Speed of wheel                    | 3600 R.P.M.                      |
| Motor                             | 1/2HP, 220V / 380V               |
| N.W / G.W.                        | 240kgs / 290kgs                  |
| Size of packing (LxWxH)           | 950x1000x1540mm                  |



# Multi-Purpose Milling & Drilling Machine



| ORDER NO. | CODE NO. |
|-----------|----------|
| MD-30N    | 8001-020 |
| MD-30B    | 8001-021 |

## QUALITY FEATURES

1. Milling, drilling, tapping boring, reamming.
2. Head swivels 360°.
3. Zero setting dials.
4. Fine downfeed - calibrated.
5. Heavy-duty tapered roller bearing spindle.
6. 12 speeds.
7. Positive spindle lock.
8. Adjustable gibs on table.
9. Adjustable stops on table.



Face Milling



End Milling



1" Drilling



Tapping

**PLEASE NOTIFY THE VOLTAGE & PHASE, WHEN YOU ORDERING.**

## SPECIFICATION

| ORDER NO.                            | MD-30N(PF)                             | MD-30B(PF)   | OPTIONAL ACCESS.   |
|--------------------------------------|--|--|--|
| Drilling Capacity                    | 32mm(1-1/4")                           | 32mm(1-1/4")   | A. Power down (spindle)feed.<br>B. Power longitudinal (table)feed.<br>C. Tapping switch.<br>D. Forward & reverse switch.<br>E. Magnetic switch.<br>F. Emergency switch.<br>G. Collet chuck.<br>H. Work light.<br>I. Cabinet stand<br>J. 4 speed motor<br>K. Extension column<br>L. Clamping kits 12mm (1/2") |
| Tapping Capacity                     | 3/4"                                   | 3/4"   |  |
| Face mill Capacity                   | 76mm (3")                              | 76mm (3")  |  |
| End mill Capacity                    | 20mm (3/4")                            | 20mm (3/4")  |  |
| Swing                                | 430mm (16-15/16")                      | 405mm (15-7/8")  |  |
| Max. distance spindle nose to table  | 395mm (15-9/16")                       | 480mm (18")  |  |
| Spindle taper                        | MT3,R8                                 | MT3,R8,NT30  |  |
| Spindle stroke                       | 110mm(4-5/16")                         | 130mm (5")   |  |
| Diameter of Spindle sleeve           | 62mm(2-7/16")                          | 75mm (3")  |  |
| Head swivel                          | 360°                                   | 360°   |  |
| Diameter of column                   | 95mm (3-3/4")                          | 115mm (4-1/2")   |  |
| Overall height (w/o stand)           | 980mm (38-9/16")                       | 1100mm (43-1/4")   |  |
| Machine stand height                 | 760mm(30")                             | 760mm (30")  |  |
| Length                               | 950mm(37-3/8")                         | 1080mm (42-1/2")   |  |
| Width                                | 1030mm (40-1/2")                       | 1100mm (43-1/4")   |  |
| Motor                                | 3/4HP-1HP                              | 1-1/2HP-2HP  |  |
| Spindle speed (r.p.m.)               | 12S<br>50Hz<br>60Hz                    | 90-2150<br>110-2580  |  |
|                                      |  | 100-2080 (4pole) (75-1685 6 pole)<br>120-2500 (4pole) (95-2020 6 pole) |  |
| Standard accessories                 | 3" cutter 1/2" chuck 3-1/2" angle vise | 3" cutter 1/2" chuck 3-1/2" angle vise                                 |  |
| Forward and backward travel of table | 165mm                                  | 175mm (7")   |  |
| Right and left travel of table       | 360mm                                  | 500mm(19 - 3/4")   |  |
| Working area of table 盤面尺寸           | 660mmx190mm (26"x7-1/2")               | 730mmx210mm (28-3/4"x8 -1/4")  |  |
| N.W./G.W.                            | 175/205 kgs                            | 270/300kgs   |  |
| Measurement                          | 20.6Cuft                               | 27.2 Cuft  |  |





# Portable Bandsaw

ORDER NO. HBS-90S

CODE NO. 8001-025

## Features:

- **Cutting speed**  
20, 29, 50 MPM (50Hz)  
80, 120, 220 FPM (60Hz)
- **Blade size**  
1/2"x0.02"x51" (12.7x0.64x1300)
- **Cutting capacity**  
90°: ● 3 1/2" (90) ■ 3 1/2"x5" (90x130)  
45°: ● 2 1/2" (65) ■ 3 1/2"x2 1/2" (90x65)
- **Head swivel** 0° ~ 45°
- **Motor** 1/4 hp, 50/60 Hz, 1420/1720 rpm
- **Box measurement**  
3.8 cu.ft. 29 1/2"x12 1/2"x18 1/2" (750x315x470)
- **Weight** N.W. :26 kgs  
G.W. :28 kgs

## Optional accessories

- N.V.R switch
- BIMETAL SAW BLADE



# Metal Cutting Band saw Machine

ORDER NO. HBS-125

CODE NO. 8001-026

## Features:

- **Cutting speed**  
20, 29, 50 MPM (50Hz)  
80, 120, 220 FPM (60Hz)
- **Blade size**  
1/2"x0.025"x68" (12.7x0.64x1730)
- **Cutting capacity**  
90°: ● 5" (125) ■ 5"x8" (125x200)  
45°: ● 5" (125) ■ 5"x5" (125x125)
- **Head swivel** 0° ~ 45°
- **Motor** 1/3 hp, 50/60 Hz, 1420/1720 rpm
- **Box measurement**  
8 cu.ft. 42 1/2"x18"x17" (1080x460x430)
- **Weight** N.W. :65 kgs  
G.W. :70 kgs

## Optional accessories

- Quick grip vise
- N.V.R. swith
- Cylinder lifter 12mm
- Machine stand



Cylinder lifter 12mm



Workpiece stand





# Metal Cutting Band Saw Machine



**ORDER NO. HBS-210A**

**CODE NO. 8001-027**

**Features:**

- **Miter scale** 0° ~ 45°
- **Cutting speed**  
40 MPM, 80 MPM
- **Cutting capacity**  
90°: ● 170 ■ 140x210  
45°: ● 125 ■ 100x125
- **Box measurement**  
21.5 cu.ft. 51<sup>1</sup>/<sub>4</sub>"x22<sup>3</sup>/<sub>4</sub>" x30<sup>3</sup>/<sub>4</sub>"(1300x580x780)
- **Weight** N.W. :157 kgs  
G.W. :171 kgs

**Basic equipment**

- Blade (20x0.9x2080)
- Cooling pump
- Magnetic switch 24V & CE  
(HBS-210A only)
- Machine Stand
- Motor  
(1 hp, 0.75kw, 400V, 50Hz, 3ph)

**Optional accessories**

- Cylinder lifter 14mm
- Blade tension gauge



# Horizontal Band Saws



**ORDER NO. HBS-7**

**CODE NO. 8001-030**

Please notify the voltage & phase when you ordering.

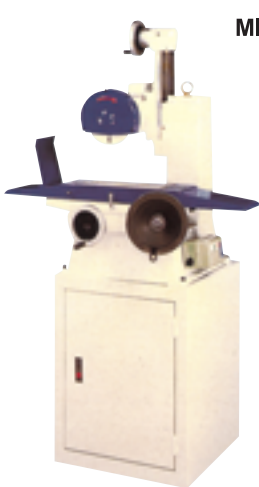
**SPECIFICATION**

- Capacity:●180mm (7") ■180x300mm (7"x12")  
 Blade size :19x0.9x2360mm (3/4"x0.032x7' 9")  
 Motor : 1HP 4pole 50HZ/1430rpm;60HZ/1720rpm.  
 Blade speed :22.33.45.65mpm (86-132-178-260fpm).  
 Machine dim: L1470xW430mm (L58"xW17")  
                   H990mm (39") horizontal position.  
 N.W: 130kgs (286LBS)  
 G.W: 150kgs (341LBS)



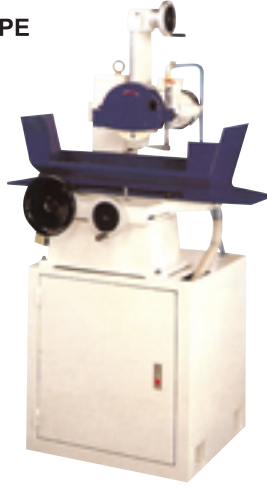
# Bench Surface Grinder (Handfeed)

## MINI TYPE



**ORDER NO. SG-612B**

Picture shown steel floor stand is optional.



**ORDER NO. SG-612BC**

Picture shown are standard.



**ORDER NO. SG-618BC**

Picture shown are standard.



Table slides on 36 precision balls.

## BENCH SURFACE GRINDER (Handfeed)

### Features:

1. Meehanite casting on major parts
2. Precision constructed wheel head producing extremely
3. A high performance, precision surface grinder is ideally suitable for tool room production.
4. Down feed is driven with spiral bevel gear
5. Table slides on 36 precision steel balls
6. Its high precision and economical cost more than fulfill the stringent demands of tool and die shops, or other users of hand feed surface grinder.

### OPTIONAL ACCESSORIES

1. Diamond wheel dresser
2. Permanent magnetic chuck
3. Hand operated lubricator (612BE ONLY)
4. Grinding wheel balancing stand
5. Steel floor stand (612BE ONLY)

### STANDARD ACCESSORIES

1. Splash guard (618BCE, 612BCE, ONLY)
2. Coolant system (618BCE,612BCE ONLY)
3. Steel floor stand (618BCE,612BCE ONLY)
4. Hand operated lubricator (618BCE,612BCE ONLY)
5. Tool box with tools kit
6. Grinding wheel, wheel flange, wheel guard

### MODEL DESIGNATION

"BE" ....Steel ball slideways

"BCE"...."BE" + coolant + steel floor stand + splash guard + hand operated lubricator

### SPECIFICATION

| ORDER NO.   | SG-618BCE   | SG-612BCE   | SG-612BE  |
|---|---|---|---|
| DESCRIPTION                                       |   |   |   |
| Table Surface area                                | 418x152mm<br>(18"x6")   | 305x152mm<br>(12"x6")   | 305x152mm<br>(12"x6")   |
| Max long. travel or table                         | 470mm<br>(18 <sup>1</sup> / <sub>2</sub> "  | 320mm<br>(12 <sup>5</sup> / <sub>8</sub> "  | 320mm<br>(12 <sup>5</sup> / <sub>8</sub> "  |
| Max cross travel of table                         | 200mm<br>(8")   | 200mm<br>(8")   | 170mm<br>(6 <sup>11</sup> / <sub>16</sub> "   |
| T-slot  | 12.7x19.5x610mm<br>( <sup>1</sup> / <sub>2</sub> "x <sup>3</sup> / <sub>4</sub> "x24")  | 12.7x19.5x398mm<br>( <sup>1</sup> / <sub>2</sub> "x <sup>3</sup> / <sub>4</sub> "x15 <sup>1</sup> / <sub>2</sub> ") | 12.7x19.5x398mm<br>( <sup>1</sup> / <sub>2</sub> "x <sup>3</sup> / <sub>4</sub> "x15 <sup>1</sup> / <sub>2</sub> ") |
| Grinding wheel size                               | 178x31.7x12.7mm<br>(7"x1 <sup>1</sup> / <sub>4</sub> "x1 <sup>1</sup> / <sub>2</sub> ") | 178x31.7x12.7mm<br>(7"x1 <sup>1</sup> / <sub>4</sub> "x1 <sup>1</sup> / <sub>2</sub> ")                             | 178x31.7x12.7mm<br>(7"x1 <sup>1</sup> / <sub>4</sub> "x1 <sup>1</sup> / <sub>2</sub> ")                             |
| Max.distance from table surface to spindle center | 320mm<br>(12 <sup>1</sup> / <sub>2</sub> "  | 320mm<br>(12 <sup>1</sup> / <sub>2</sub> "  | 280mm<br>(11")  |
| Min.distance from table surface to spindle center | 89mm<br>(3 <sup>1</sup> / <sub>2</sub> "  | 89mm<br>(3 <sup>1</sup> / <sub>2</sub> "  | 89mm<br>(3 <sup>1</sup> / <sub>2</sub> "  |
| Spindle speed ( 50HZ / 60HZ )                     | 2850/3600RPM  | 2850/3600RPM  | 2850/3600RPM  |
| Vertical feed handwheel per grabuation            | 0.012mm<br>(0.0005")  | 0.012mm<br>(0.0005")  | 0.012mm<br>(0.0005")  |
| Cross feed handwheel per grabuation               | 0.025mm<br>(0.001")   | 0.025mm<br>(0.001")   | 0.025mm<br>(0.001")   |
| Spindle motor                                     | 3/4HP   | 3/4HP   | 3/4HP   |
| Coolant pump motor                                | 1/8HP   | 1/8HP   |   |
| Floor space                                       | 600x550mm<br>(25 <sup>3</sup> / <sub>4</sub> "x21 <sup>1</sup> / <sub>2</sub> ")        | 600x550mm<br>(25 <sup>3</sup> / <sub>4</sub> "x21 <sup>1</sup> / <sub>2</sub> ")                                    | 440x430mm<br>(17 <sup>1</sup> / <sub>2</sub> "x17")   |
| Net weight  | 340Kgs<br>(1012Lbs)   | 310Kgs<br>(682Lbs)  | 205Kgs<br>(451Lbs)  |
| Gross weight                                      | 460Kgs<br>(748Lbs)  | 410Kgs<br>(901Lbs)  | 260Kgs<br>(572Lbs)  |
| Packing dimensions ( LXWXH )                      | 1270x690x1520mm<br>(54"x28"x60")  | 1060x690x1520mm<br>(42"x28"x60")  | 1040x730x950mm<br>(41"x29"x38")   |
| CODE NO.  | 8001-041  | 8001-042  | 8001-043  |



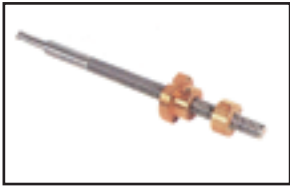
# Precision Surface Grinder



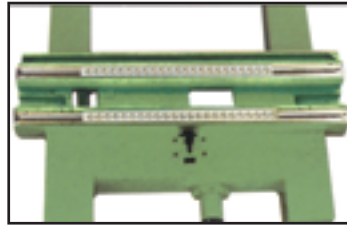
ORDER NO. SG-1A618 /1A820  
SG-2A618 /2A820



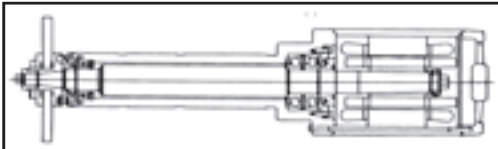
ORDER NO. SG-614  
SG-618/618B  
SG-818B



Adjustable leadscrew's Nut



Steel Ballways



Precision grinding spindle



Double V slideways



ORDER NO. SG-3A618  
SG-3A820

## Machine Features

- The main parts of the machine such as base, column & saddle are made of "MEEHANITE" castings which are stress released by annealing to ensure stable rigidity & high accuracy and to extend machine life.
- **Cross slideways adopts "double Vees"** to ensure the best accuracy.
- Both longitudinal & cross slideways are precisely handcrafted and coated with Turcite -B for smooth movement and ever low wearing .
- The automatic lubrication system is furnished as standard to provide ample lubrication on all sildeways and leadscrews enabling a smooth movement so as to minimize wearing possibility.
- The spindle is directly coupled with V-3 motor which ensures high spindle run out accuracy of 0.002mm.
- Longitudinal/ cross slideways are made by full-support design to offer the high precision during movement.
- Elevating movement is driven on V-type slideways, the backlash can be adjusted to match the precise movement between leadscrew & worm gear .The drive shaft is strongly supported by two bearings for smooth running and noise free.
- The precision cartridge spindle, greased & free of maintenance, is incorporated with 4 pieces of preloaded class 7 (P4) super precision angular contact ball bearing for heavy grinding.





# Specification For Surface Grinder

**B:Ball Slideways**  
**1A:Long. Hydraulic Traverse**  
**2A:1A+Motorized Cross Feed**

## SPECIFICATON

| DESCRIPTION                  |   | ORDER NO. | SG-614                            | SG- 618B<br>618                                 | SG-818B                           | SG- 1A618<br>2A618                 |
|------------------------------|---|-----------|-----------------------------------|---|-----------------------------------|------------------------------------|
| <b>General Capacity</b>      | Table size                                    |           | 150 x 355mm<br>(6x14")            | 150 x 457mm<br>(6x18")                          | 200 x 457mm<br>(8x18")            | 150 x 457mm<br>(6x18")             |
|                              | Max.grinding length                           |           | 375mm<br>(14-3/4")                | 475mm<br>(18-3/4")                              | 475mm<br>(18-3/4")                | 475mm<br>(18-3/4")                 |
|                              | Max.grinding width                            |           | 160mm<br>(6-1/3")                 | 160mm<br>(6-1/3")                               | 200mm<br>(8.6")                   | 160mm<br>(6-1/3")                  |
|                              | Distance from table surface to spindle center |           | 420mm<br>(16.5")                  | 420mm<br>(16.5")                                | 410mm<br>(16")                    | 415mm<br>(16.3")                   |
| <b>Longitudinal Movement</b> | Manual travel                                 |           | 380mm<br>(15")                    | 480mm<br>(18-7/8")                              | 485mm<br>(19")                    | 485mm<br>(19")                     |
|                              | Hydraulic traverse                            |           | —                                 | —   | —                                 | 480mm<br>(18-15/16")               |
|                              | Table speed (infi variable)                   |           | —                                 | —   | —                                 | 1-25M/min                          |
| <b>Cross Movement</b>        | Manual travel                                 |           | 170mm<br>(6.7")                   | 176mm<br>(6-15/16")                             | 230mm<br>(9")                     | 180mm<br>(7")                      |
|                              | Rapid traverse (2A/3A/AD)                     |           | —                                 | —   | —                                 | 1200mm/min                         |
|                              | Auto increment feeds (2A/3A/AD)               |           | —                                 | —   | —                                 | 0.15-7.5mm                         |
|                              | Handwheel per graduation                      |           | 0.02mm<br>(0.001")                | 0.02mm<br>(0.001")                              | 0.02mm<br>(0.001")                | 0.02mm<br>(0.001")                 |
|                              | Handwheel per revolution                      |           | 5mm<br>(0.2")                     | 5mm<br>(0.2")                                   | 5mm<br>(0.2")                     | 5mm<br>(0.2")                      |
| <b>Vertical Downfeed</b>     | Rapid traverse (3A)                           |           | —                                 | —   | —                                 | 220mm/min<br>(9"/min)              |
|                              | Auto downfeed (AD)                            |           | —                                 | —   | —                                 | 0.001-0.099mm<br>(0.00003"-0.004") |
|                              | Handwheel per graduation                      |           | 0.005mm<br>(0.0002")              | 0.005mm<br>(0.0002")                            | 0.005mm<br>(0.0002")              | 0.005mm<br>(0.0002")               |
|                              | Handwheel per revolution                      |           | 1mm<br>(0.05")                    | 1mm<br>(0.05")                                  | 1mm<br>(0.05")                    | 1mm<br>(0.05")                     |
| <b>Grinding Wheel</b>        | Wheel size (dia x width x bore)               |           | 180x16x32mm<br>(7x2/3x1-1/4")     | 205x13x31.75mm<br>(8x1/2x1-1/4")                | 205x13x31.75mm<br>(8x1/2x1-1/4")  | 205x13x31.75mm<br>(8x1/2x1-1/4")   |
|                              | Spindle speed (60HZ/50HZ)                     |           | 3600/3000rpm                      | 3600/3000rpm                                    | 3600/3000rpm                      | 3600/3000rpm                       |
| <b>Motors</b>                | Spindle motor                                 |           | 1HP (1.5/2HP opt)                 | 1.5HP (2HP opt)                                 | 2HP (3HP opt)                     | 1.5HP (2HP opt)                    |
|                              | Cross feed motor (2A/3A/AD)                   |           | —                                 | —   | —                                 | 1/6HP                              |
|                              | Elevating motor (3A/AD)                       |           | —                                 | —   | —                                 | 1/4HP                              |
|                              | Hydraulic motor                               |           | —                                 | —   | —                                 | 1HP                                |
| <b>Weight</b>                |   |           | 560kgs<br>(1232lbs)               | 780kgs<br>(1716lbs)                             | 900kgs<br>(1980lbs)               | 885kgs<br>(1974lbs)                |
| <b>Packing Size</b>          | Length x width x height                       |           | 1300x1150x1980mm<br>(52"x45"x78") | 1400x1040x2000mm<br>(55-1/8"x40-15/16"x78-3/4") | 1600x1250x1980mm<br>(63"x49"x78") | 1600x1150x1980mm<br>(63"x45"x78")  |
| <b>AD Packing</b>            | Length x width x height                       |           | —                                 | —   | —                                 | 1970x1430x2100mm<br>(618AD)        |
| <b>CODE NO.</b>              |   |           | 8001-050                          | 8001-051<br>8001-052                            | 8001-053                          | 8001-054<br>8001-055               |

NOTE:We reserve the right to modify the specs of this brochure without prior notice.

## OPTIONAL ACCESSORIES

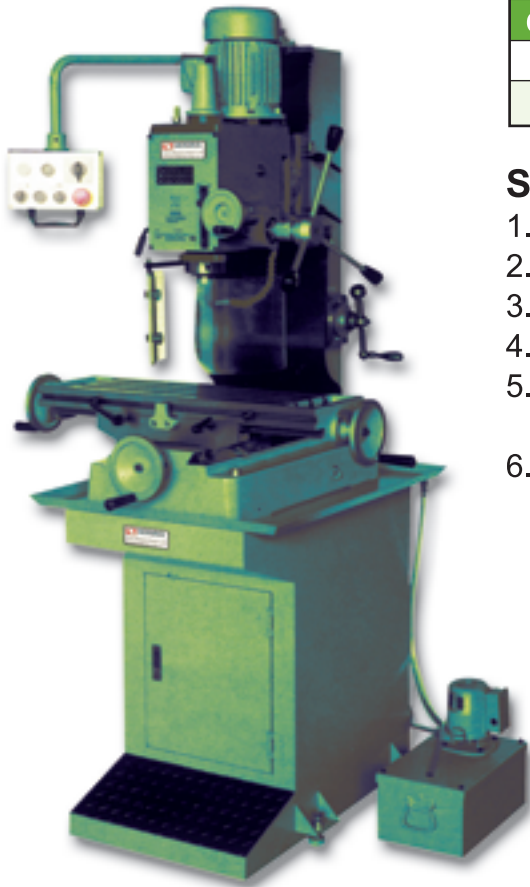
- 1.Electromagnetic chuck
- 2.Permanent mag. chuck
- 3.Inclinable permanent magnetic chuck
- 4.Dust collector
- 5.Coolant system
- 6.Coolant & dust unit
- 7.Diamond dresser
- 8.Splash guard
- 9.Balancing stand
- 10.Chuck control with auto demagnetizer
- 11.Spare wheel flange
- 12.Halogen lamp
- 13.Radius forming attachment
- 14.Precision vise
- 15.Punch former
- 16.Digital read out

## STANDARD ACCESSORIES

- 1.Grinding wheel with flange
- 2.Wheel extractor
- 3.Wheel wrench
- 4.Balancing arbor  
(1A/2A/3A/AD SERIES ONLY)
- 5.Auto lube system
- 6.Tool box with adjusting tools
- 7.Levelling screws with blocks
- 8.Operation manual with parts list



# Geared Head Milling & Boring Machine (Double Dovetail Slidway)



**GEM-450G**

| ORDER NO.  | CODE NO. |
|------------|----------|
| GMB-450G   | 8001-060 |
| GMB-500GII | 8001-061 |

## STANDARD ACCESS.

1. Drawbar
2. Chuck arbor
3. Tool box & tools
4. Levelling base
5. Forward / reverse switch (for GEM-450G 6 steps).
6. HI/LOW switches (two speed motors for GEM-500GII 12steps).

## FEATURES

1. Available for drilling, milling tapping etc.use.
2. Steel plate machine stand & chip tray.
3. Z-axis manual memory feed.
4. Geared head can be titled 90° R & L each.

## OPTIONAL ACCESS.

1. Table power feed
2. 4" machine vise
3. 6" machine vise
4. 52pcs clamping kit
5. 5pcs collet chucks
6. 7pcs collet chucks
7. Drill chucks (13mm)
8. NT30 spindle taper
9. Rapid feed of Z axis
10. CE standard
11. Tapping function
12. Cooling system
13. Hand lubricator
14. Two speed motors for GEM-450G
15. 1-1/2HP (GEM-450G) on request 2HP (GEM-500GII) on request
16. Halogen working lamp

## SPECIFICATIONS

Unit: mm

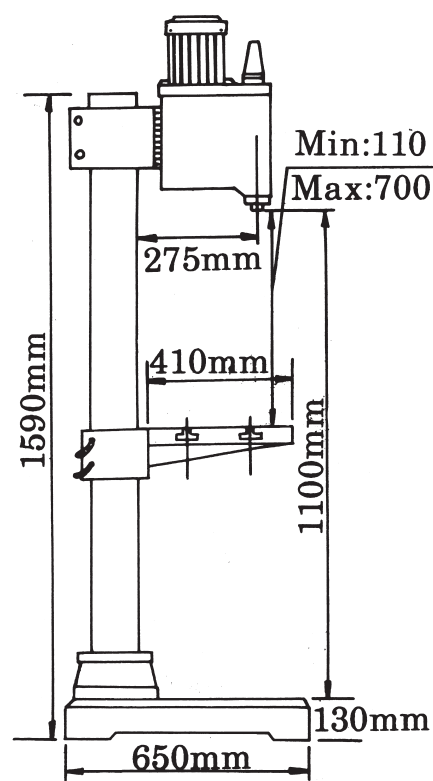
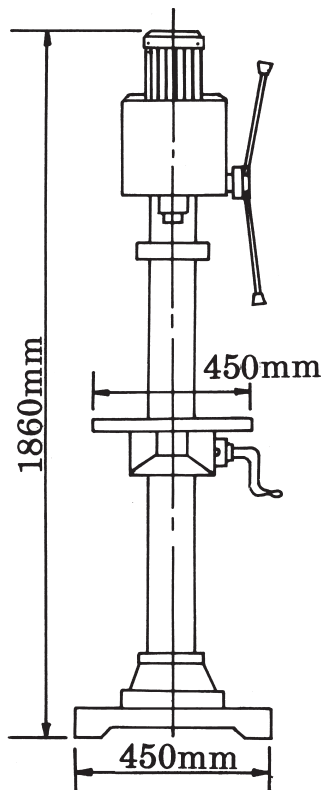
| ORDER NO.                        | GMB-450G                                   | GMB-500GII                                 |
|----------------------------------|--|--|
| 1. Working Table                 |  |  |
| Table surface                    | 210x730                                    | 240x820                                    |
| Movement & range (XxYxZ)         | 430x285x450                                | 530x350x460                                |
| 2. Vertical Spindle              |  |  |
| Spindle taper                    | MT#3 or R-8                                | MT#3 or R-8                                |
| Quill dia                        | ∅75  | ∅75  |
| Spindle speed                    | 50 ~ 1250rpm (50HZ)<br>60 ~ 1500rpm (60HZ) | 50 ~ 2500rpm (50HZ)<br>60 ~ 3000rpm (60HZ) |
| Quill travel                     | 120  | 120  |
| Spindle nose to table            | 450  | 460  |
| Spindle swivelling angle (L & R) | ±90°                                       | ±90°                                       |
| 3. Motors                        |  |  |
| Spindle power                    | 1HP  | 1-1/2HP                                    |
| Rapid feed of Z axis             | 1/4HP Gear motor (OPT.access)              |  |
| Coolant pump motor               | 1/8"HP (OPT.access)                        |  |
| Measurement (w. stand)           | 870x890x1920                               | 1050x980x1875                              |
| N.W./G.W.                        | 400kgs/435kgs                              | 650kgs/ 690kgs                             |



**GEM-500GII**



# All Geared Head Drill Press



## GMB-400GS

| ORDER NO. | CODE NO. |
|-----------|----------|
| GMB-400GS | 8001-063 |

## FEATURES

1. Available for drilling, Tapping etc.
2. Gear head can be tilted 90° R & L each.
3. Gear head can be swivelled 360°.
4. Spindle stroke: 120mm
5. Drill capacity: 32mm (steel).  
40mm (casting iron).
6. Quickly assembled cabinet stand & chip tray, for GEM-400GD (option).
7. Available CE standard as fig. show.  
Electrical control system protecting guard.

## SPECIFICATIONS

| ORDER NO.             |         | GMB-400GS                      | ACCESSORIES   |
|-----------------------|---------|--------------------------------|---|
| DRILL CAPACITY        | CASTING | 40mm(1-9/16")                  | <b>STANDARD ACCESSORIES</b><br>1. CHUCK ARBOR<br>2. TOOL & TOOL BOX<br>3. FORWARD/REVERSE SWITCH<br><br><b>OPTIONAL ACCESSORIES</b><br>1. 4" SWIVEL VISE<br>2. 6" SWIVEL VISE<br>3. 52PCS CLAMPING KITS (M12)<br>4. 13mm CHUCK<br>5. CABINET STAND & CHIP TRAY FOR GEM-400GD<br>6. TWO SPEEDS MOTOR & SWITCH 2P/4P.3PH<br>7. CE STANDARD (REQUIREMENT AS FIG SHOWN)<br>8. TAPPING FUNCTION<br>9. COOLANT SYSTEM<br>10. 1.5HP ON REQUEST |
|                       | STEEL   | 32mm(1-1/4")                   |   |
| SPINDLE TAPER         |         | MT#3 OR R- 8                   |   |
| SPINDLE NOSE TO BASE  |         | 1100mm                         |   |
| SPINDLE NOSE TO TABLE |         | 700mm                          |   |
| COLUMN DIA.           |         | ∅115mm                         |   |
| QUILL DIA.            |         | ∅75mm                          |   |
| QUILL TRAVEL          |         | 120mm                          |   |
| SWING                 |         | 550mm                          |   |
| HEAD TILTING          |         | 90°R& L                        |   |
| HEAD SWIVEL           |         | 360°                           |   |
| MAIN MOTOR            |         | 0.75PS. 1HP                    |   |
| SPINDLE SPEEDS        | 50HZ    | 50,100,170,370,1250RPM(4P)     |   |
|                       | 60HZ    | 60,120,200,450,850,1500RPM(4P) |   |
| TABLE SURFACE         |         | 410x450mm                      |   |
| MACHINE HIGHT         |         | 1860mm                         |   |
| T-SLOT SIZE           |         | 14mm                           |   |
| N.W./G.W.             |         | 290KGS/305KGS                  |   |
| MEASUREMENT           |         | 740x540x1955m/m                |   |
| BASE SIZE             |         | 450x650m/m                     |   |





# Vertical Band Sawing Machine



Y- 310



Y- 360



Y- 400



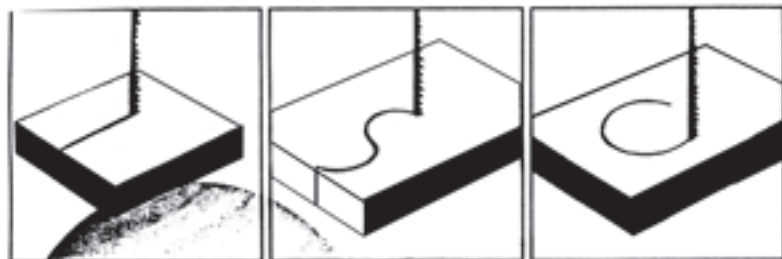
Y- 500

## Machine features

Metal scroll saw is precisely constructed, easy to operate, providing quick and stable sawing. High accuracy performance assures even sawed surfaces, saving much on saw band. With wide processing area and strong sawing power, most of our machine models are suited for iron works and mold - making factories.

| ORDER NO.         | Y-310           | Y-360            | Y-400                        | Y-500                        |
|-------------------|-----------------|------------------|------------------------------|------------------------------|
| Cutting Capacity  | 220mm           | 240mm            | 350mm                        | 320mm                        |
| Throat Depth      | 304mm           | 354mm            | 404mm                        | 504mm                        |
| Saw Blade Width   | 13mm            | 13mm             | 16mm                         | 19mm                         |
| Saw Blade Length  | 2550mm          | 2775mm           | 3410mm                       | 3930mm                       |
| Four- Step Speeds | 33,58,90,140rpm | 33,58,90,140rpm  | 20,36,40,58,72,82,116,164rpm | 20,36,40,58,72,82,116,164rpm |
| Drive Motor       | 4px375W 1HP     | 4Px375W 1HP      | 8Px1HP 4P x2HP               | 8Px1HP 4P x2HP               |
| Emery Wheel Motor | 1/8HP           | 1/8HP            | 1/8HP                        | 1/4HP                        |
| Welding Capacity  | 1.2KVA          | 1.2KVA           | 2.0KVA                       | 5.0KVA                       |
| Table Area        | F.b-10° R.L-15° | F.B -10° R.L-15° | F.B -10° R.L-15°             | F.B -10° R.L-15°             |
| Net Weight        | 200kgs          | 250kgs           | 450kgs                       | 550kgs                       |
| Table Area        | 475x385mm       | 540x420mm        | 560x510mm                    | 620x580mm                    |
| Dimensions        | 900x600x1530    | 970x600x1580     | 1130x800x1900                | 1280x920x1970                |
| CODE NO.          | 8001-070        | 8001-071         | 8001-072                     | 8001-073                     |

## The applications of the band saw

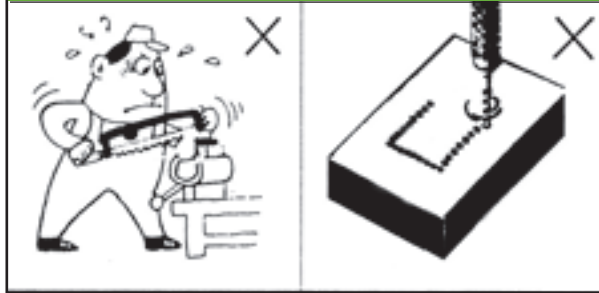


Straight Line Cutting

Wavy Line Cutting

Circular Cutting

## Why use methods like these?



Slow and difficult to operate

Bad sawing effect



# Air Die Grinder

AIR INLET 1/4"  
AIR PRESSURE 90 PSI

**DIY type**      **ORDER NO. VAG-500**  
**Economic type**      **ORDER NO. VAG-601A**

1. Clean The Air For The Grinder.
2. Fixed Type Collet Chuck: Ø3.0mm Is Standard. Ø2.38mm & Ø3.175mm Collet Are Available Upon Your Request. Put Into 10 C.C. From The Air Inlet Hole Twice Daily.
3. It's Warm When It's Working.
4. Reliable Quality And Economic Price.



| ORDER NO. | COLLET SIZE      | SPEED         | WEIGHT | LENGTH | CODE NO. |
|-----------|------------------|---------------|--------|--------|----------|
| VAG-500   | 3mm, 3/32", 1/8" | 54,000 R.P.M. | 130g   | 150mm  | 8001-099 |
| ORDER NO. | COLLET SIZE      | SPEED         | WEIGHT | LENGTH | CODE NO. |
| VAG-601A  | 3mm, 3/32", 1/8" | 54,000 R.P.M. | 130g   | 150mm  | 8001-100 |

## Strong & silent type

1. Replaceable collet chuck: ø3.0mm is standard. ø2.38mm and ø3.175mm collet are available upon your request.
2. High-torque, quite-running and well balance.
3. Ideal for precision grinding and finishing works.



| ORDER NO. | COLLET SIZE      | SPEED         | WEIGHT | LENGTH | CODE NO. |
|-----------|------------------|---------------|--------|--------|----------|
| VAG-701   | 3mm, 3/32", 1/8" | 70,000 R.P.M. | 130g   | 150mm  | 8001-101 |

## Dual-collet type

1. Dual collet chuck: ø3.0mm and ø6.0mm are standard. ø3.175mm and ø6.35mm collet are available upon your request.
2. High torque, heavy-duty, general-purpose applicable on debarring, chamfering, milling and finishing the welded surface etc.



| ORDER NO. | COLLET SIZE | SPEED         | WEIGHT | LENGTH | CODE NO. |
|-----------|-------------|---------------|--------|--------|----------|
| VAG-609   | 3mm, 6mm    | 35,000 R.P.M. | 350g   | 175mm  | 8001-115 |

## Angle 45° type

Angle 45°, suitable for angle debarring and grinding.



| ORDER NO. | WHEEL SIZE | SPEED         | WEIGHT | LENGTH | CODE NO. |
|-----------|------------|---------------|--------|--------|----------|
| VAG-8241  | ø30mm      | 23,000 R.P.M. | 300g   | 160mm  | 8001-116 |



# Air Grinder

## Economic type



1. Fixed type collet chuck:  $\varnothing 6.0\text{mm}$  is standard.  $\varnothing 6.35\text{mm}$  collet is available upon your request.
2. Reliable quality and economic price.

| ORDER NO. | COLLET SIZE | SPEED         | WEIGHT | LENGTH | CODE NO. |
|-----------|-------------|---------------|--------|--------|----------|
| VAG-604   | 1/4", 6mm   | 22,000 R.P.M. | 600g   | 175mm  | 8001-117 |

## Strong & silent type



1. Replaceable collet chuck:  $\varnothing 3\text{mm}$   $\varnothing 6\text{mm}$  are standard.  $\varnothing 6.35\text{mm}$  collet is available upon your request.
2. High-torque, quite-running and well balance.
3. Ideal for precision grinding and finishing works.

| ORDER NO. | COLLET SIZE | SPEED         | WEIGHT | LENGTH | CODE NO. |
|-----------|-------------|---------------|--------|--------|----------|
| VAG-605   | 6mm, 1/4"   | 25,000 R.P.M. | 520g   | 150mm  | 8001-118 |

## Angle 90° type



1.  $\varnothing 1\ 1/2''$  or  $\varnothing 2''$  rubber pad with quick change abrasive are additional options. (extra charge)
2. High torque, heavy-duty, general-purpose applicable on deburring, chamfering, milling and finishing the welded surface.
3. 2" grinding wheel is standard.

| ORDER NO. | PAD SIZE | SPEED         | WEIGHT | LENGTH | CODE NO. |
|-----------|----------|---------------|--------|--------|----------|
| VAG-8242  | 50mm     | 16,000 R.P.M. | 520g   | 175mm  | 8001-119 |

## 4" Angle Grinder



Angle 90°, suitable for angle debarring and grinding.

| ORDER NO. | WHEEL SIZE | SPEED         | WEIGHT | LENGTH | CODE NO. |
|-----------|------------|---------------|--------|--------|----------|
| VAG-932   | 10mm, (4") | 11,000 R.P.M. | 1350g  | 175mm  | 8001-120 |





## Air file



1. Also suitable for shoes, molds, and wooden processes.
2. Can grind metals. Especial suitable for narrow parts or groove bases & sides.

| ORDER NO. | COLLET SIZE | SPEED             | Stroke | WEIGHT | LENGTH | CODE NO. |
|-----------|-------------|-------------------|--------|--------|--------|----------|
| VAG-318   | 6mm         | 3,700 cycle / Min | 9mm    | 1,000g | 175mm  | 8001-121 |

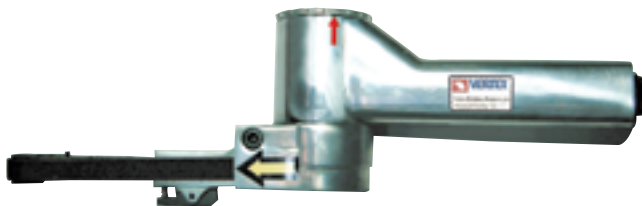
## Finger sander



1. It can make possible the speedy and beautiful finishing, so far deemed impossible, of the corners and complicated curves.
2. Can provide with not only the smooth and high-speed eccentric rotation movement common to all the finger sanders, but also the easy replacement of the attachments without the need of using any specific tools.

| ORDER NO. | SIZE            | SPEED         | WEIGHT | LENGTH | CODE NO. |
|-----------|-----------------|---------------|--------|--------|----------|
| VAG-F30   | Abrasive: W20mm | 13,000 R.P.M. | 830g   | 200mm  | 8001-122 |

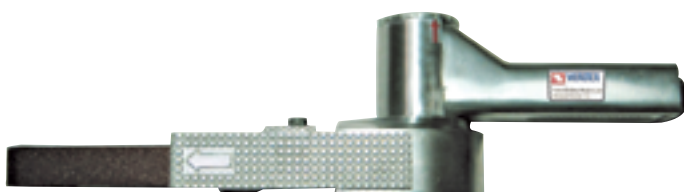
## Belt Sander



1. For sanding curved surfaces, flat surfaces.
2. For removing spot welding, semi & automatic welds, adhesive, paint, and other coating in concave places.

| ORDER NO. | SIZE         | SPEED         | WEIGHT | LENGTH | CODE NO. |
|-----------|--------------|---------------|--------|--------|----------|
| VAG-310   | 10 x 30 (mm) | 16,000 R.P.M. | 800g   | 290mm  | 8001-123 |

## Belt Sander



1. For sanding curved surfaces, flat surfaces.
2. For removing spot welding, semi & automatic welds, adhesive, paint, and other coating in concave places.

| ORDER NO. | BELT SIZE     | SPEED         | WEIGHT | LENGTH | CODE NO. |
|-----------|---------------|---------------|--------|--------|----------|
| VAG-320   | 20 x 520 (mm) | 16,000 R.P.M. | 1100g  | 360mm  | 8001-124 |



# Grinding Tools For Air Grinder

## Emery Wheel

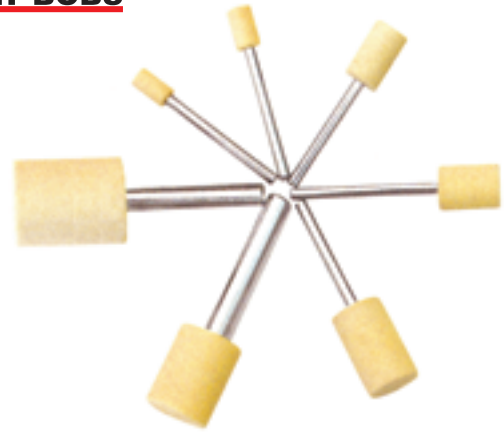
1. The shank size is  $\varnothing 3.0$
2. The wheel size is  $\varnothing D$
3. The minimum quantity is 1000 pcs / each

### ABRASIVE MOUNTED POINTS



|           |          |          |          |
|-----------|----------|----------|----------|
| ORDER NO. | WA-303A  | WA-304A  | WA-305A  |
| ØD        | 3mm      | 4mm      | 5mm      |
| CODE NO.  | 8001-131 | 8001-132 | 8001-133 |
| ORDER NO. | WA-306A  | WA-308A  | WA-310A  |
| ØD        | 6mm      | 8mm      | 10mm     |
| CODE NO.  | 8001-134 | 8001-135 | 8001-136 |

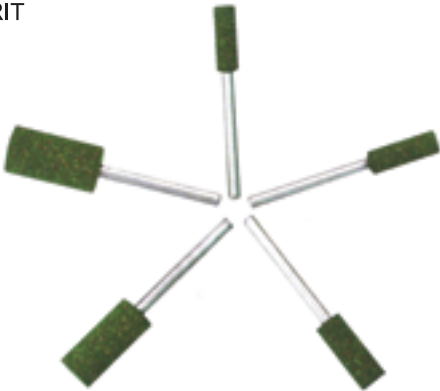
### FELT BOBS



|           |          |          |          |
|-----------|----------|----------|----------|
| ORDER NO. | WF-304   | WF-305   | WF-306   |
| ØD        | 4mm      | 5mm      | 6mm      |
| CODE NO.  | 8001-137 | 8001-138 | 8001-139 |
| ORDER NO. | WF-308   | WF-310   | WF-312   |
| ØD        | 8mm      | 10mm     | 12mm     |
| CODE NO.  | 8001-140 | 8001-141 | 8001-142 |

### RUBBERIZE POINTS

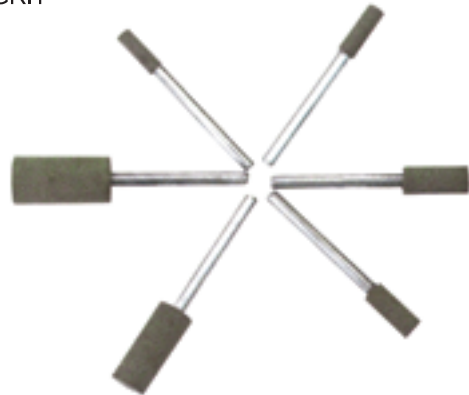
120GRIT



|           |          |          |          |
|-----------|----------|----------|----------|
| ORDER NO. | WR-303   | WR-304   | WR-305   |
| ØD        | 3mm      | 4mm      | 5mm      |
| CODE NO.  | 8001-143 | 8001-144 | 8001-145 |
| ORDER NO. | WR-306   | WR-308   | WR-310   |
| ØD        | 6mm      | 8mm      | 10mm     |
| CODE NO.  | 8001-146 | 8001-147 | 8001-148 |

### RESINOID POINTS

120GRIT



|           |          |          |          |
|-----------|----------|----------|----------|
| ORDER NO. | WE-303   | WE-304   | WE-305   |
| ØD        | 3mm      | 4mm      | 5mm      |
| CODE NO.  | 8001-149 | 8001-150 | 8001-151 |
| ORDER NO. | WE-306   | WE-308   | WE-310   |
| ØD        | 6mm      | 8mm      | 10mm     |
| CODE NO.  | 8001-152 | 8001-153 | 8001-154 |

### PUBBER PAD

Ø30mm



ORDER NO. WF-30P  
CODE NO. 8001-155

### PAPER DISC

Ø30mm  
GRIT100  
150 PCS/BOX



ORDER NO. WF-30S  
CODE NO. 8001-156

### CUP WHEEL

Ø30mm  
GRIT100  
48 PCS/BOX



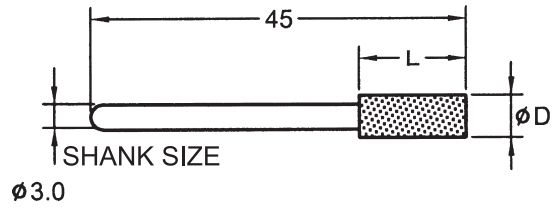
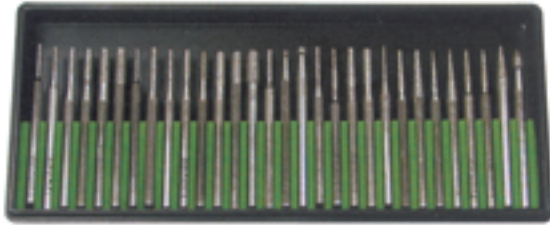
ORDER NO. WF-30C  
CODE NO. 8001-157



# Grinding Tools For Air Grinder

**ORDER NO. WG-30D**  
**CODE NO. 8001-160**

**Diamond mounted points (3.0 shank)**

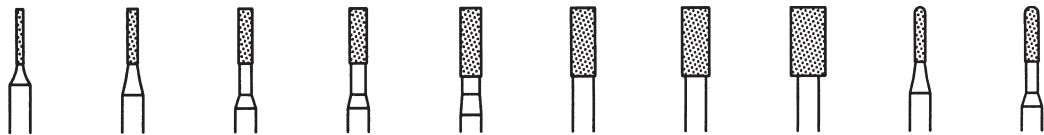


Grit size:  $\phi 2.0$ - $\phi 5.0$  is 120#  $\phi 1.0$ - $\phi 1.5$  is 150#.  
one set including all point each one, total is 30 pcs/set.

WG-30D: 30pcs / set (set in  $\phi 3.0$ mm shank)  
WG-30D-I: 30pcs / set (set in  $\phi 1/8$ " shank)

30 PCS ASSORTMENT SET: CONTAINS ONE EACH OF ABOVE POINTS.

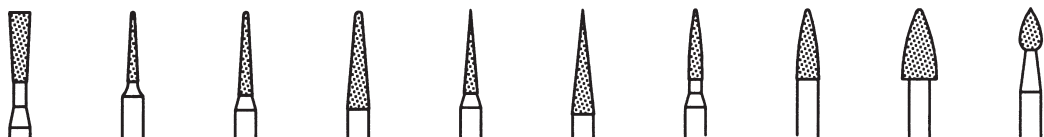
Unit:mm



| ORDER NO. | 10A      | 15A      | 20A      | 25A      | 30A      | 35A      | 40A      | 50A      | 15C      | 20C      |
|-----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| ØD        | Ø1       | Ø1.5     | Ø2       | Ø2.5     | Ø3       | Ø3.5     | Ø4       | Ø5       | Ø1.5     | Ø2       |
| L         | 8        | 8        | 8        | 8        | 10       | 10       | 10       | 10       | 8        | 8        |
| CODE NO.  | 8001-161 | 8001-162 | 8001-163 | 8001-164 | 8001-165 | 8001-166 | 8001-167 | 8001-168 | 8001-169 | 8001-170 |



| ORDER NO. | 25C      | 30C      | 35C      | 40C      | 50C      | 20B      | 30B      | 50B      | 20T      | 30T      |
|-----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| ØD        | Ø2.5     | Ø3       | Ø3.5     | Ø4       | Ø5       | Ø2       | Ø3       | Ø5       | Ø2       | Ø3       |
| L         | 8        | 10       | 10       | 10       | 10       | -        | -        | -        | 10       | 10       |
| CODE NO.  | 8001-171 | 8001-172 | 8001-173 | 8001-174 | 8001-175 | 8001-176 | 8001-177 | 8001-178 | 8001-179 | 8001-180 |



| ORDER NO. | 30V      | 15R      | 20R      | 30R      | 20P      | 30P      | 20F      | 30F      | 50F      | 30S      |
|-----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| ØD        | Ø3       | Ø1.5     | Ø2       | Ø3       | Ø2       | Ø3       | Ø2       | Ø3       | Ø5       | Ø3       |
| L         | 10       | 10       | 12       | 14       | 12       | 15       | 10       | 10       | 10       | 6        |
| CODE NO.  | 8001-181 | 8001-182 | 8001-183 | 8001-184 | 8001-185 | 8001-186 | 8001-187 | 8001-188 | 8001-189 | 8001-190 |



# Magnetic De-Burring & Polishing Machine

## Features:

- It is the special Grinder for de-burr, polish and clean light and precision spare parts of watch, computer, electron, machinery...etc, such as material of steel, stainless steel, brass, copper, aluminum, hard-plastic., and jewelry of gold, k-gold, platinum, silver...etc.
- Fine finish for delicate articles and perfect result. Never hurt the face, change the form, change the accuracy or loss the weight of articles after ground.
- Can be de-burr the hole, crevice of articles. Resolved the problems as you met before.



## Applications:

- Designed for small quantity of parts.
- Table type model, safe and convenient.
- Suitable for deburring and polishing brass, copper, aluminum, gold, silver...etc soft material

## Operation Plate:

- 1.Power
- 2.60 minute timer



| ORDER NO. | DIMENSION                        | TANK SIZE                | POWER   | STANDARD ACCESSORIES  | N.W.  | CODE NO. |
|-----------|----------------------------------|--------------------------|---|---|-------|----------|
| VDB-716   | L x W x H<br>270x225x295<br>(mm) | L x W<br>160x160<br>(mm) | 220/110VAC<br>(50Hz/60Hz)<br>2A<br>single phase | 1.Rotarier.<br>2.Containers.<br>3.Separating container.<br>4.Magnetic sleeve.<br>5.Stainless pins/1kg<br>6.Grinding liquid/1 Liter<br>7.Operation manual. | 16kgs | 8001-201 |



## Applications:

- Designed for medium quantity of parts.
- Fully automatic. One person can run multiple machines.
- Suitable for non-magnetic metal parts.

## Operation Plate:

- 1.Power
- 2.Start
- 3.Stop
- 4.Counterclockwise timer
- 5.Clockwise timer
- 6.Monitor of finished cycle and error direction
- 7.Speed adjustment



| ORDER NO. | DIMENSION                        | TANK SIZE                | POWER                                       | STANDARD ACCESSORIES  | N.W.  | CODE NO. |
|-----------|----------------------------------|--------------------------|---|---|-------|----------|
| VDB-728   | L x W x H<br>490x490x860<br>(mm) | L x W<br>280x280<br>(mm) | 220VAC<br>(50Hz/60Hz)<br>5A<br>single phase | 1.Rotarier.<br>2.Containers.<br>3.Separating container.<br>4.Magnetic sleeve.<br>5.Stainless pins/2kg<br>6.Grinding liquid/2 Liter<br>7.Operation manual. | 65kgs | 8001-202 |



## Applications:

- Designed for large quantity of parts.
- Fully automatic. One person can run multiple machines.
- Suitable for all types of metal parts.

## Operation Plate:

- 1.Power
- 2.Start
- 3.Stop
- 4.Counterclockwise timer
- 5.Clockwise timer
- 6.Monitor of finished cycle and error direction
- 7.Speed adjustment
- 8.Finished cycle alarm
- 9.Finished cycle light



| ORDER NO. | DIMENSION                        | TANK SIZE                | POWER  | STANDARD ACCESSORIES  | N.W.   | CODE NO. |
|-----------|----------------------------------|--------------------------|--|---|--------|----------|
| VDB-735   | L x W x H<br>640x625x865<br>(mm) | L x W<br>420x380<br>(mm) | 220VAC<br>(50Hz/60Hz)<br>10A<br>single phase | 1.Rotarier.<br>2.Containers.<br>3.Separating container.<br>4.Magnetic sleeve.<br>5.Stainless pins/4kg<br>6.Grinding liquid/4 Liter<br>7.Operation manual. | 100kgs | 8001-203 |

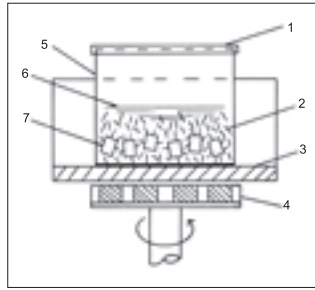




# Magnetic De-Burring & Polishing Machine

## Diagram of principle for Magnetic De-burring & Polishing Machine

- 1.Lid
- 2.Magnetic media (stainless pin)
- 3.Top plate
- 4.Magnetic disc
- 5.Container
- 6.liquid and water level (1/ 100)
- 7.Work-piece



## Function of liquid:

For avert rustiness,  
cool and clean.

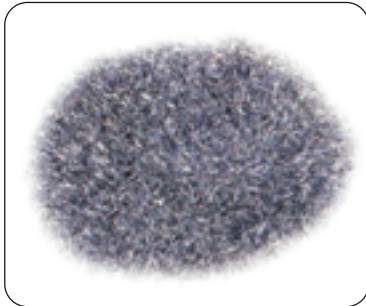
Rate of liquid/water:1/100

| GRINDING LIQUID |   |
|-----------------|---|
| ORDER NO.       | VDB-233A  |
| Material        | Stainless, steel<br>Brass, copper<br>Gold, silver<br>platinum |
| CODE NO.        | 8001-300  |



Grinding liquid/ Magnetic media  
(Stainless pin)

work-piece are tumbled together with the magnetic media through the rotation of the magnets bellow the non-magnetic top plate, which causes violent agitation of the magnetic field.



SS304 STAINLESS PIN

## SPECIFICATION OF MAGNETIC MEDIA (STAINLESS PIN)

| Dmm x Lmm | 0.2x5 | 0.3x5 | 0.5x5 | 0.7x5 | 1.0x5 | 1.2x5 |
|-----------|-------|-------|-------|-------|-------|-------|
|           |       |       |       |       |       |       |

## OPERATIONS

- 1.Put the magnetic media (stainless steel pins) in the container, the quantity of magnetic media is around 0.5cm to 1cm from the bottom of the container.
- 2.Put work-Piece in the container, the principle of quantity as does not put the work-piece overlap.
- 3.Put the liquid with 100 times of water in the container. The liquid with water should be cover the workpiece and over 2--3cm.
- 4.Placed the lid of container and put the container on the top plate of the grinder for begin to grind.
- 5.The grinding time and the quantity of work-piece should be depend on the result which you need after test several times. Please make note for next time when you want to grind same work-piece.
- 6.There are two size of container, so if you want to grind the work-piece just few quantity, the small one will be much better.

## EXAMPLE



### parts



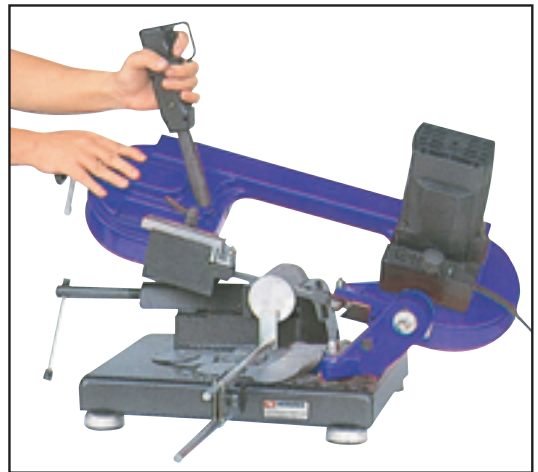
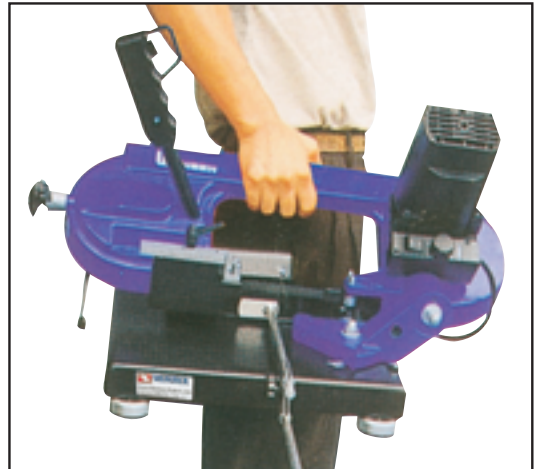
### Jewelry





# Portable Band Saw Machine

FOR METAL AND NON-METAL



It's Only 17.5 kgs weight for easy and practical transport. Solid and stable foundation with vise made of cast iron. Single-phase motor: free of vibration, strong power, silent. Free of lubrication, durable and quick changeable cobalt, blmetal sand blade.

| ORDER NO. | CODE NO.   |
|-----------|------------|
| VBS-1000  | 8001 - 400 |

| ORDER NO. | CODE NO.   |
|-----------|------------|
| VBS-1000A | 8001 - 401 |

Variable speeds: 40 until 88 m/minute.

- With electronic variable speed.

### Features

- From 0 to 45 degree a justable cutting angle

- Motor =5.0A

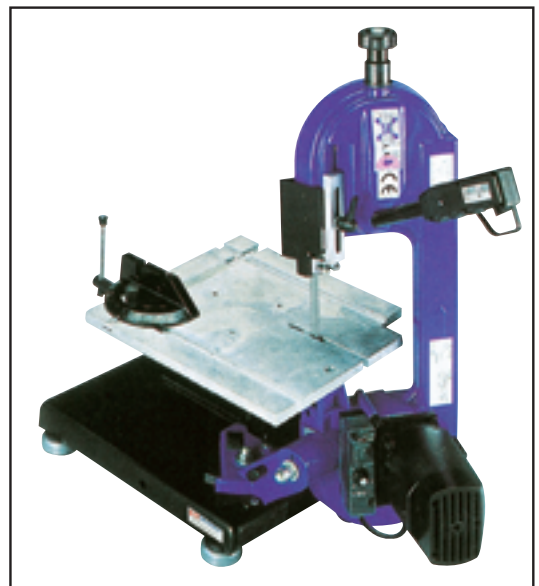
### Technical data:

- Cutting capacity  
90 degree round 85mm  
rectangle 85 × 105mm
- Cutting capacity  
45 degree round 70mm  
rectangle 65 × 75mm
- Blade size  
1325 × 13 × 0.65mm  
1000 watt
- Motor 120V 60Hz  
220V-240V 50-60Hz
- N.W.  
17.5 kgs

One high speed, 88m/minute.

- One high speed.

## OPTION ACCESSORY



## WORK TABLE KIT

| ORDER NO. | CODE NO.   |
|-----------|------------|
| VBS-1000S | 8001 - 402 |



# Precision Drill Grinder

ORDER NO. VDG-13  
 CODE NO. 8001-012  
 ORDER NO. VDG-20  
 CODE NO. 8001-013  
 ORDER NO. VDG-25  
 CODE NO. 8001-014



**HOLDER UNIT**  
 FOR COLLET & DRILL



**INDICATOR**  
 THE NUMBER FOR  
 DRILL DIAMETER



**COLLET SHEATH**

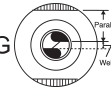
Ⓒ **GRINDER STOCK**  
 FOR DRILL CENTER POINT

**DIAMOND WHEEL COVER**

⒱ **GRINDER STOCK**  
 FOR DRILL WEB

**ANGLE INDICATOR 118°~135°**  
 FOR CENTER POINT ANGLE

**CHECKING STOCK**  
 FOR SET THE DRILL OF LENGTH  
 & THE WEB BLADE PARALLEL  
 WITH THE SLOT OF CLAMPING  
 HOLDER.



## For Drill Reshaping

**Precision, Efficient, Easy Operation, Reasonable Price, Fast**

1. High Efficiency, High Quality Grinding Slip, Good Grinding Results
2. Quality Assurance
3. Easy Operation, For Urgent Need
4. Considerable Design, Invisible Tool Box, Delicate & Friendly Use
5. Peerless, Super Function, Durable

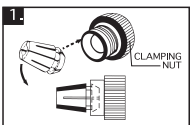
| ORDER NO. | COTTET TYPE | COLLET Q'TY | MAX. DIA |
|-----------|-------------|-------------|----------|
| VDG-13    | ER-20       | 11pcs       | Ø13      |
| VDG-20    | ER-32       | 13pcs       | Ø20      |
| VDG-25    | ER-40       | 14pcs       | Ø25      |

|                           |                   |                             |  |
|---------------------------|-------------------|-----------------------------|--|
| <b>DRILL DIAMETER</b>     | φ 2.0~ φ 13.0     | <b>NET WEIGHT</b>           | AC-110:8.5kgs AC-220:9.5kgs  |
| <b>CENTER POINT ANGLE</b> | 118°~ 135°        | <b>OVERALL DIMENSIONS</b>   | W282 x D185 x H110 m/m   |
| <b>POWER SUPPLY</b>       | AC-110 or 220 1PH | <b>STANDARD ACCESSORIES</b> | ALLOY STEEL COLLET ER-20 COLLET x 11pcs Ø3 ,4 ,5 ,6 ,7 ,8 ,9 ,10 ,11 ,12 ,13, EACH ONE<br>COLLET Holder x 1 unit |
| <b>R.P.M. OF MOTOR</b>    | 5100 R.P.M.       |                             |  |
| <b>GRINDING WHEEL</b>     | CBN #200          |                             | 4mm Hexagon wrench x1 pcs for change wheel   |

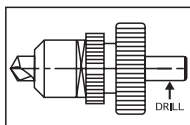
## Optional

Alloy Steel Collet:ER-20, Ø3.5 ,4.5 ,5.5 ,6.5 ,7.5 ,8.5, 9.5 ,10.5 ,11.5, 12.5

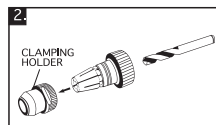
### A. HOW TO USE HOLDER UNIT FOR COLLET & DRILL



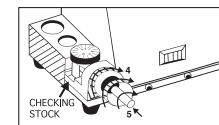
COLLET MUST BE ASSEMBLED INTO THE CLAMPING NUT WITH 45° ANGLE.(BEFORE INSERTING INTO THE CLAMPING HOLDER)



HOLDER UNIT



1.INSERT THE DRILL INTO THE COLLET  
 2.PUT THE CLAMPING NUT INTO THE CLAMPING HOLDER



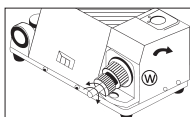
CHECKING STOCK

1. FIND THE DRILL DIAMETER.
2. SET THE INDICATOR OF SCALE NUMBER IS SAME AS DRILL DIAMETER.
3. PUT THE HOLDER UNIT INTO THE CHECKING STOCK. THE SLOT OF CLAMPING UNIT WILL MATCH INTO THE PIN OF CHECKING STOCK.
4. TURN HOLDER UNIT TO RIGHT.
5. PUSH THE DRILL TO TOUCH THE CHECKING STOCK, AND TURN THE DRILL TO RIGHT. THEN THE CLAMPING NUT TIGHTEN TO THE DRILL.

**NOTE:** MAKE SURE THAT THE WEB BLADE OF DRILL IS PARALLEL WITH THE SLOT OF CLAMPING HOLDER .

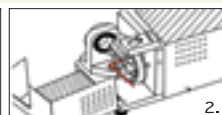
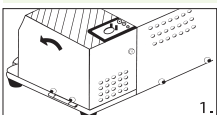
6. AFTER HAVING TAKEN OUT THE HOLDER UNIT.

### C. HOW TO GRIND THE WEB OF DRILL



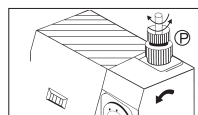
1. TURN ON THE POWER.
2. PUT THE HOLDER UNIT INTO THE GRINDER STOCK. THE SLOT MATCH WITH THE PIN AND LET THE DRILL REACH THE DIAMOND WHEEL CAREFULLY.
3. GRIND THE DRILL BY MOVING LEFT AND RIGHT TO SHARPEN. UNTIL THE GRINDING VOICE IS DISAPPEAR.
4. TAKE THE HOLDER UNIT TO THE OTHER SIDE TO GRIND THE OTHER SIDE WEB, BLADE,GRIND THE DRILL WITH THE SAME AS 3. WAY.

### E. HOW TO CHANGE THE DIAMOND WHEEL



1. TAKE OUT THE DIAMOND WHEEL COVER.
2. TURN OUT THE SCREW ON THE CENTER OF DIAMOND WHEEL.

### D. HOW TO GRIND THE CENTER POINT OF DRILL

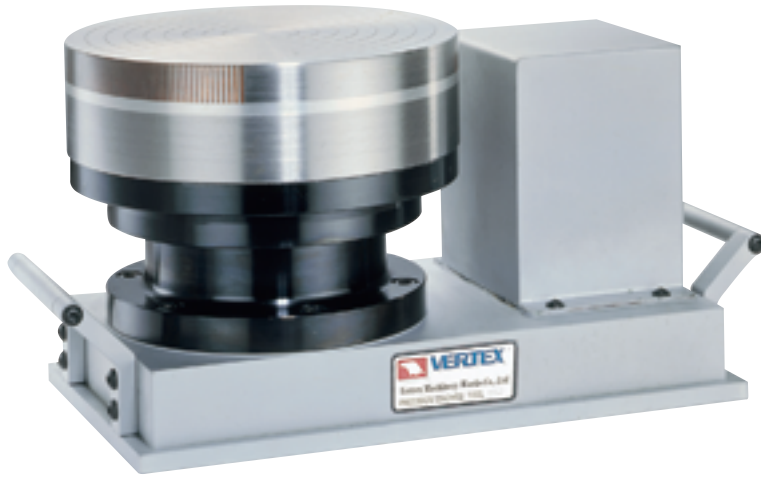


1. TURN ON THE POWER.
  2. PUT THE HOLDER UNIT INTO THE GRINDER STOCK THE SLOT MATCH WITH THE PIN .
  3. MOVE THE LEFT AND RIGHT WAY TO SHARPEN.
  4. TURN 180° OF HOLDER UNIT TO GRINDING THE OTHER SIDES WITH THE SAME WAY.
- NOTE:** UNDER Ø3 DRILL NO NEED TO GRIND THE CENTER POINT.





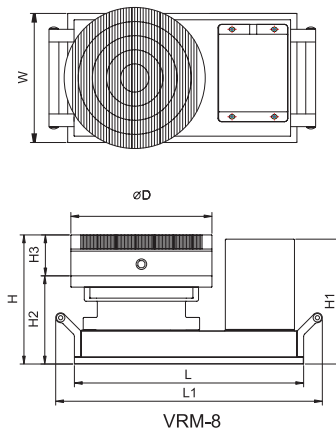
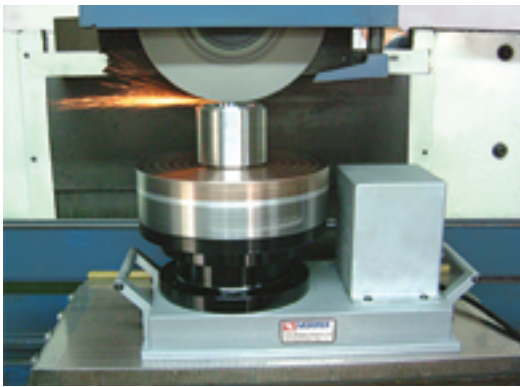
# Variable Speed Rotary Magnetic Chuck



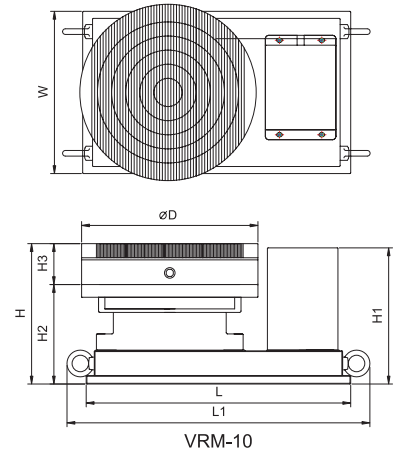
**VOLTS 220V, 50/60HZ  
SINGLE PHASE**

**MAX. LOAD WIGHTS  
VRM-8 IS 18 KGS  
VRM-10 IS 25 KGS**

**ADJ. ROTARY SPEED  
VRM-8 15-150 RPM  
VRM-10 10-100RPM**



VRM-8



VRM-10

| ORDER NO | L   | L1  | W   | H   | H1  | H2  | H3 | ØD  | VOLT | G.W. | CODE NO. |
|----------|-----|-----|-----|-----|-----|-----|----|-----|------|------|----------|
| VRM-8    | 325 | 378 | 183 | 182 | 177 | 124 | 58 | 200 | 220V | 57kg | 8001-047 |
| VRM-10   | 376 | 437 | 230 | 200 | 193 | 141 | 58 | 250 | 220V | 75kg | 8001-048 |

## FEATURE:

1. This rotary magnetic chuck with the motor. The rotary speed can adjustable.
2. It's easy and simple for set up on the surface grinding machine. It's for do rotary grind.
3. The precision is within 0.002 m/m. High precision, High efficient.
4. It provides well prevention for dust, coolant, and lubricants. Spindle end be applied accuracy bearing, can be assured to keep very steady under load grinding.