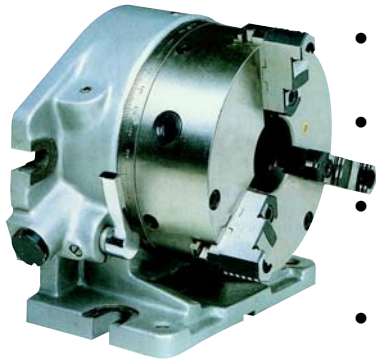


# Machine Accessories

## HORIZONTAL/VERTICAL

### INDEXING FIXTURES



- Designed for milling, drilling, jig boring, and many other shop applications.
- Hardened and ground 24 position index plate ( 15 degree increments).
- 360 degree satin chrome grauated ring with 5 minute adjustable vernier plate in-sures accurate readings.
- Fast and simple indexing of 2, 3, 4, 6, 8, 12 and 24 divisions.

#### Specifications

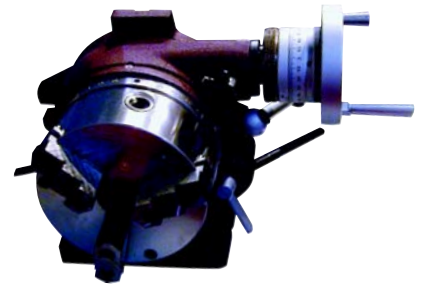
Indexing unit complete with 3 jaw  
Chuck and 6 masking plate.

Squareness (table base to chuck).....0.0008"  
Parallelism (face to face).....0.0006"  
Concentricity(mounting flange).....0.0008"  
Concentricity (chuck).....0.0012"

Size of Thru		
Chuck	Hole Dia.	Model No.
6	1-23/32	200-2006
8	2-15/32	200-2008

## SUPER HORIZONTAL/VERTICAL

### INDEXING FIXTURES

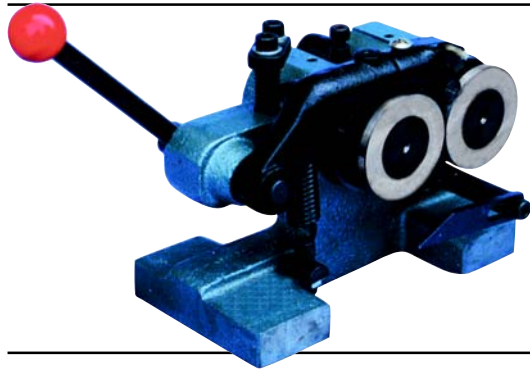


- Designed for milling, drilling, jig boring, and many other shop applications.
- Hardened and ground 24 position index plate ( 15 degree increments).
- 360 degree satin chrome grauated ring with **10 SECOND** adjustable vernierplate in-sures accurate readings.
- Fast and simple indexing of 2,3,4,6,8,12 and 24 divisions.

#### Specifications

Indexing unit complete with 3 jaw  
Chuck and 6 masking plate and face plate  
Vernier Reading.....10 seconds  
Squareness (table base to chuck).....0.0008"  
Parallelism (face to face).....0.0004"  
Concentricity(mounting flange).....0.0008"  
Concentricity (chuck).....0.0012"

Size of Thru		
Chuck	Hole Dia.	Model No.
6	1-23/32	200-2106
8	2-15/32	200-2108



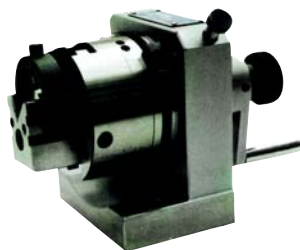
### PUNCH GRINDER

Punch grinder is a precision product which installed on a plane plate, and grind the top surface of round punch simply and accurately. The operation can be stable handled due to use the depressed roller to fix the handle. Heavy grinding can be done also. Ascertain the surface of the turning roller and depressed bearing without scratch and rust to keep its accuracy before using.

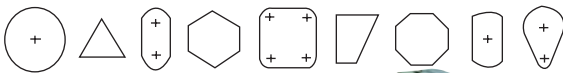
#### Model No. 287-6802

### PUNCH FORMER AND RADIUS DRESSE

A precision Grinding Machine Accessory for dressing grinding wheel, also adaptable to Grinding Machine and Electrical Discharge Machine ( EDM) for precision punch forming.



#### Applications



- Use for concave and convex radius.
- Hardened tool steel construction.
- Radius dresser standard with both models.
- With oscillating Vee Block for tangent dressing.
- Compare to units costing 2 or 3 times as much.
- Complete with fitted case.

#### Specifications

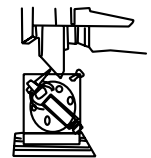
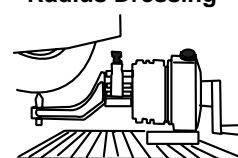
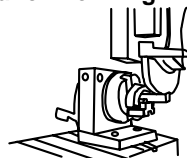
Center Height.....3-1/2(80mm)  
Indexing Div.....24 every 15 degree +/- 10 seconds  
Tangential travel either side of center......25/32(19.8mm)  
Dia. Workpiece of V-block......16-1.18(4-30mm)  
V-block adjusting system......Rack and Pinon  
Max. Size Grinding Wheel......7.87(200mm)  
Max. Outside Radius ( on wheel)......1.89(48mm)  
Max.inside Radius( on wheel)......3.9(100mm)  
Dimension......14.2x4.6x5.7(360x116x145mm)

#### Model No. 287-6801

##### Punch Forming

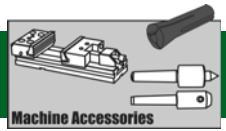
##### Radius Dressing

##### Angle Dressing



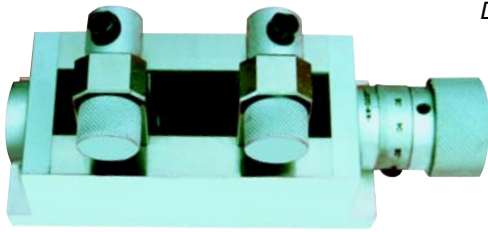
#### Applications





## PRECISION DUPLEX DRESSER

Dress any custom width up to 1-9/16"



Model No. 225-1005

- Designed to simultaneously dress both sides of a grinding wheel, precisely and without deformation.
- useful for thinning grinding wheels or dressing thin wheels.
- Tool steel construction and hardened throughout to HRC 60 for life time use.

### Specifications

Max. Width of Wheel.....1-9/16"  
 Max. Dressing Depth.....1-9/16"  
 Min. Dressing Width.....0.0079"  
 Graduation.....0.0001"  
 Weight.....71 lbs.

## HI-LO WHEEL DRESSER

- Minimum Height.....2"
- Maximum Height.....9"
- Cast iron construction.
- 1/4 Carat and 3/8" shank diamond included.



Model No. 225-1213

## ADJUSTABLE DRESSER

- Use on all grinding machines.
- Dress OD and face of wheels.
- Adjustable to 7" height.
- Dress any width.



Model No. 225-2016

## BRAKE TRUING UNIT

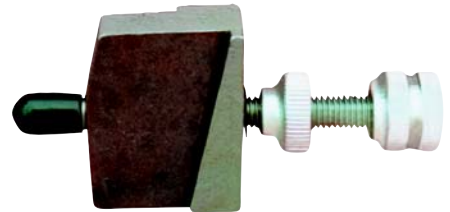
- For dressing diamond and CBN wheels.
- Surface is treated with blaze-dried lacquer.
- Axis part is fixed with shaft bearing and can be rotated at high speed and with great precision.



Model No. 225-3000

## GEIGER WHEEL DRESSER

- Features a shank 3/8" diamond.
- Restores your grinding wheels back to perfection.
- Complete with an extremely hard 1/2 carat industrial diamond tip.
- Accurate and simple to use tool that accommodates most any bench or pedestal type grinder.



Model No. 225-6812

## ANGLE MEASURE & DRESSER EQUIPMENT WITH DIAL.

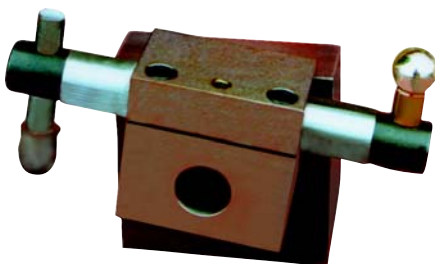
- Angle for -2° 30' to 84° 30'



Model No. 225-7000

## ANGLE DRESSER

- Features a shank 3/8" diamond.
- Heavy precision ground base plate.
- All 6 sides square to 0.0002"
- Side block pivots on shoulder hardened screws.



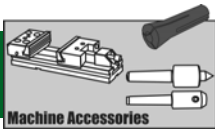
Model No. 225-2017

## GRINDING WHEEL DRESSER AND CUTTERS



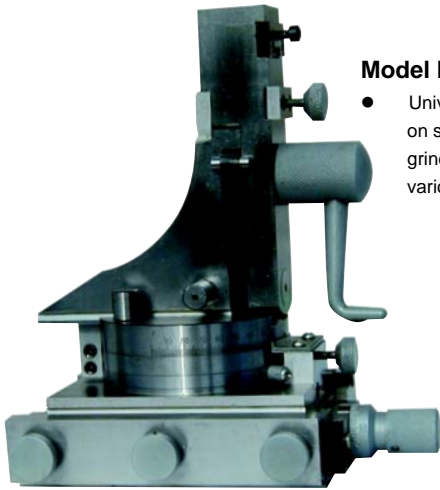
- Hunting on type cutters will quickly remove the load form grinding wheels and present a new and face grinding surface.
- Fulfill most general dressing needs where fast dressing is the primary requirement.

No. size	For (Dia)	Dresser with one cutter Model No.	Replacement Cutters Model No.
#0	UP to 10"	287-6300	287-6350
#1	10" to 16"	287-6301	287-6351
#2	16" to 26"	287-6302	287-6352



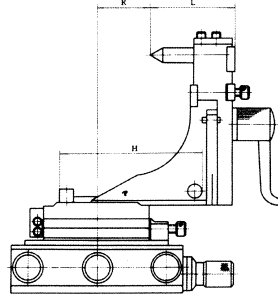
# Machine Accessories

## UNIVERSAL WHEEL DRESSERS



### Model No. 287-6070

- Universal Wheel Dresser Adaptable on surface grinder and universal tool grinder for dressing grinding wheels into various cross sections of flat or curved shapes.

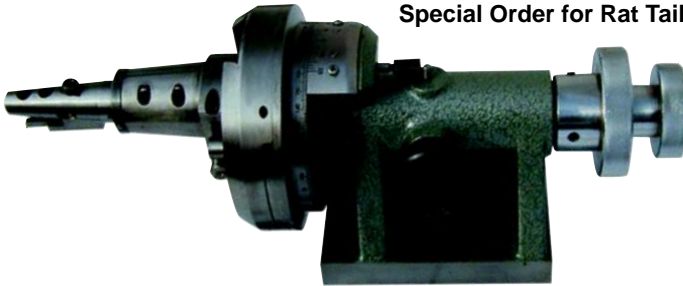


Specifications	Model No.287-6070
Center Height	165mm (6-2/5")
Measuring quasi-pin dia	10mm (0.4")
Max. Swing Distance of diamond cutter	±20mm (±0.8")
Max. Wheel Diameter	200mm (8")
Reading Accuracy or Turret Index	5"
Max. Translation of Feed	20mm (0.8")
Feed per division of handle scale	0.02mm
Weight	5kg

- To dress convex arc surface:  $H = L + R$
- To dress concave arc surface:  $H = L - R$
- H.—Distance between outer generation lines of two location pins.
- R.— Radius of the arc surface to be dressed.
- L. —Distance from tip of diamond cutter to base plate.

## RADIUS AND ANGLE DRESSERS

### Special Order for Rat Tail Adapter



### Model No. 225-1020

An extremely accurate and versatile unit which may be used on all O.D., I.D., and surface operations. Knob "A" controls radius dressing and Knob "B" controls angle dressing. At no time are the hands nears the point contact. All moving parts are lapped and the unit has adjustable gibs for taking up of future wear.

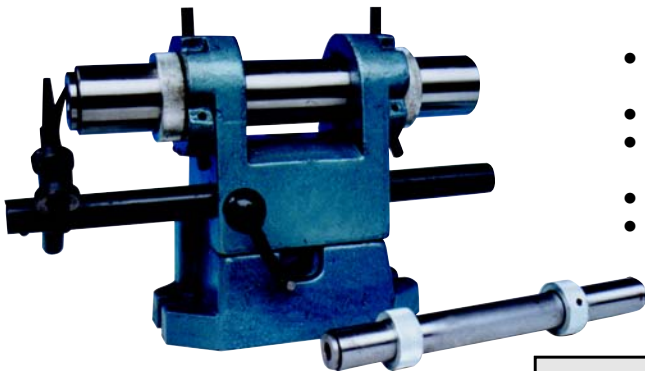
- No height gage or set-up aids required.
- Radius is set on the grinder by measuring over the two pins or by inserting a gage block, for direct reading.
- Inside or outside radius is determined by using either the left hand or right hand pins.
- Uses 3/8" shank diamond.

Specifications	Model No. 225-1020
Maximum Diameter of Wheel	12"
Convex Radii	0-1-5/8"
Concave Radii	0-4"
Tangent Travel Either Side of Center	2"
Center Line of Tool	3.4"
Over Length	16.61"
Weight	30lbs
Rat Tail Adapter	<b>Model No. 225-1030</b>

### Accuracy:

Squareness of Face Plate to Dresser Arm, per 2"	0.0005"
Squareness of Face Plate to Base	0.0006"
Center Run out of Dovetail Groove to Wheel Center	0.0006"

## END-MILL SHARPENERS



### Model No. 287-6530

- Designed to accomplish all sharpening needs. No need to send out tools. Specials as standards can be sharpened.
- Spindles and bushings to cover the full range of 3/16" up to 1-1/4"
- Shank end-mills are supplied. Will accept cutters with diameters up to 12", and even larger with the use of "riser blocks".
- Quickly sharpens cutters and end-mills right on your tool or surface grinder.
- Two spindles and four bushings cover the full range of 3/16", 3/8", 1/2", 5/8", 3/4", 7/8", 1" and 1-1/4" shank end-mills. Accept double end, end-mills

Specifications	Maximum Variation
Spindle center line to base parallelism (per 12")	0.0024"
Body to stand concentricity	0.0012"
Repeat accuracy	0.0012"