

## Chatter-Free™ Stop-Countersinks Cutters continued....

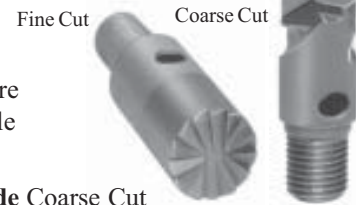


### Carbide

Head Dia.	Pilot Dia.	Thread Dia.	Overall Length	Centerline Angle		30°	41°	45°	50°	60°
				Included Angle		60°	82°	90°	100°	120°
				Severance Name	Order Number	Order Number	Order Number	Order Number	Order Number	
5/8"	7/32 (.2187)	1/4"-28	1-5/32"	SC-10-W	13879	14023	14168	14313	14458	
5/8"	1/4 (.2500)	1/4"-28	1-5/32"	SC-10-W	13880	14024	14169	14314	14459	
5/8"	5/16 (.3125)	1/4"-28	1-5/32"	SC-10-W	13881	14025	14170	14315	14460	
5/8"	3/8 (.3750)	1/4"-28	1-5/32"	SC-10-W	13882	14026	14171	14316	14461	
3/4"	5/32 (.1562)	3/8"-24	1-3/16"	S3-12-W	13895	14039	14184	14329	14474	
3/4"	#21 (.1590)	3/8"-24	1-3/16"	S3-12-W	13896	14040	14185	14330	14475	
3/4"	3/16 (.1875)	3/8"-24	1-3/16"	S3-12-W	13897	14041	14186	14331	14476	
3/4"	#10 (.1935)	3/8"-24	1-3/16"	S3-12-W	13898	14042	14187	14332	14477	
3/4"	7/32 (.2187)	3/8"-24	1-3/16"	S3-12-W	13900	14044	14189	14334	14479	
3/4"	1/4 (.2500)	3/8"-24	1-3/16"	S3-12-W	13901	14045	14190	14335	14480	
3/4"	"F" (.2570)	3/8"-24	1-3/16"	S3-12-W	13902	14046	14191	14336	14481	
3/4"	5/16 (.3125)	3/8"-24	1-3/16"	S3-12-W	13903	14047	14192	14337	14482	
3/4"	3/8 (.3750)	3/8"-24	1-3/16"	S3-12-W	13904	14048	14193	14338	14483	

## Aircraft Style Rivet Shavers

Severance Rivet Shavers are used with Micro-Stop units. These end-cutting tools are designed to cut rivet heads, etc., flush to the surrounding surface. They are available in two series, multi-flute for fine finishing and two-flute for fast material removal.



### Carbide Fine Cut

Tool Dia.	Overall Length	Thread Size
5/16"	27/32"	1/4"-28
3/8"	27/32"	1/4"-28
7/16"	27/32"	1/4"-28
1/2"	27/32"	1/4"-28
9/16"	27/32"	1/4"-28
5/8"	27/32"	1/4"-28
3/4"	31/32"	3/8"-24
7/8"	31/32"	3/8"-24
1"	31/32"	3/8"-24

Number of Flutes	Severance Tool Name	EDP Order Number
14	RS-11	28480
14	RS-12	28481
14	RS-13	28482
14	RS-14	28483
16	RS-15	28484
16	RS-16	28485
18	RS-37	28486
24	RS-38	28487
24	RS-39	28488

### Carbide Coarse Cut

Number of Flutes	Severance Tool Name	EDP Order Number
2	RS-21	28490
2	RS-22	28491
2	RS-23	28492
2	RS-24	28493
2	RS-25	28494
2	RS-26	28495
2	RS-47	28496
2	RS-48	28497
2	RS-49	28498

## Special Stop-Countersinks and Units

Special diameters, pilots, flutes, and threads available on the stop countersinks. Special Units can be made like this vacuum unit pictured here.

See pages 41 and 80 for handles



REF. # 55370



## Drill-Reamers

Severance Drill-Reamers are designed to drill and ream in one pass. The maximum length of holes recommended for standard drill-reamers is twice their respective diameters. Drill-Reamers of special design can be made for holes of greater length. For best results, drilling should be completed before starting to ream.

Severance Drill-Reamers are well suited for use with jigs and require only one size jig bushing.

### High Speed Steel

Drill Reamer Size	Suggested Ream Length	Overall Length	Approx. Drill Length	Drill Dia. -.001 +.000	Severance Tool Name	EDP Order Number
3/16"	0.560	3-1/2"	0.20	.182	DR-3/16	26480
1/4"	0.750	4"	0.30	.242	DR-1/4	26503
5/16"	0.940	4-1/2"	0.40	.302	DR-5/16	26519
3/8"	1.130	5"	0.40	.368	DR-3/8	26534
1/2"	1.500	6"	0.60	.492	DR-1/2	26548



## Ball Seat Reamers

### Six-Flute Chatterless™ Design

Sizes – Tolerances – Radius size (1/2 tool diameter) is held to a plus or minus .0005". Variations from this tolerance, and other sizes at a nominal extra charge.

Uses – Severance Chatterless™ Ball Seat and Cavity Reamers are being used with outstanding success on steering gear, ball pin sockets, fuel injector plungers, valve push rod caps, gear shift lever seats, molds, etc.

### High Speed Steel

Cutting Dia.	Ball Seat Radius	Overall Length	Shank Dia.	Shank Length	Severance Tool Name	EDP Order Number
1/4"	.1247/.1253	1-7/16"	3/16"	3/4"	BS-1/4	26030
3/8"	.1872/.1877	1-11/16"	1/4"	7/8"	BS-3/8	26031
1/2"	.2497/.2503	1-15/16"	3/8"	1-1/8"	BS-1/2	26032
5/8"	.3122/.3127	2-3/16"	3/8"	1-1/8"	BS-5/8	26033
3/4"	.3747/.3753	2-1/2"	1/2"	1-5/16"	BS-3/4	26034
7/8"	.4372/.4377	2-5/8"	1/2"	1-5/16"	BS-7/8	26035
1"	.4997/.5003	2-5/8"	1/2"	1-5/16"	BS-1	26036
1-1/4"	.6247/.6253	3"	3/4"	1-5/8"	BS-1-1/4	26037
1-1/2"	.7497/.7503	3-1/4"	3/4"	1-5/8"	BS-1-1/2	26038

## Special Ball Seat Reamer

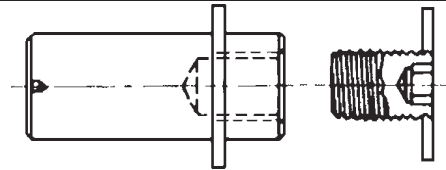
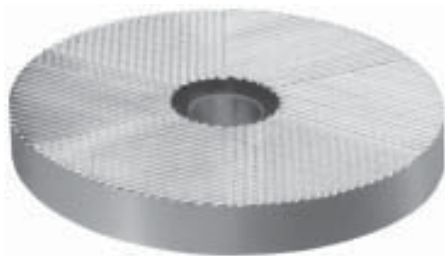
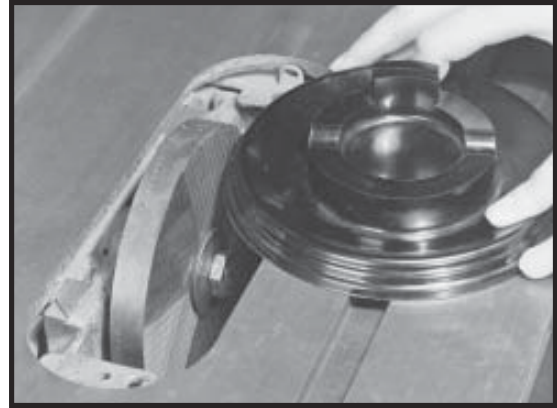
Special ball seat reamer for use on valve seats for a automotive valve lifter application.



REF. # 55350

## Disc Cutters

Severance Disc Cutters are used to replace sanding discs, snagging wheels and milling cutters on deburring applications. Unless otherwise specified, all double-face disc cutters are furnished with reversible faces. That is, only one side rotates in the cutting direction. Other disc sizes, pitches or mounting designs can be made up as specials. Severance applications engineers can recommend disc designs suitable for your type of power tool, speeds available and mounting requirements.



For shanks and arbors, see pages 78-80.

### High Speed Steel

Dia.	Thickness	Use Arbor (See page 79)	Center Bore Dia.	Cut Number
3"	3/8"	SH-3, SH-4	3/4"	7
4"	1/2"	SH-3, SH-4	3/4"	7
5"	5/8"	SH-5	1-1/8"	8
6"	3/4"	SH-6	1-5/8"	10
8"	7/8"	SH-8	1-7/8"	12

### High Speed Steel Single Face

Severance Tool Name	EDP Order Number
DISC-3-SF	17360
DISC-4-SF	17361
DISC-5-SF	17362
DISC-6-SF	17363
DISC-8-SF	17364

### High Speed Steel Double Face

Severance Tool Name	EDP Order Number
DISC-3-DF	17370
DISC-4-DF	17371
DISC-5-DF	17372
DISC-6-DF	17373
DISC-8-DF	17374

## Edge Deburring Cutters

Replaces laborious hand filing, scraping, grinding, etc. Severance Edging Cutters are made to deburr one face of an edge or both faces simultaneously. They are furnished with two cutting members having cutting teeth opposed and set for right hand rotation. Opposite ends of each member have faces ground to the same 75° angle with C/L without cutting teeth. By reversing one member, the safe face will act as a guide opposing the cutting member, and may be positioned to give more or less depth of cut as required.



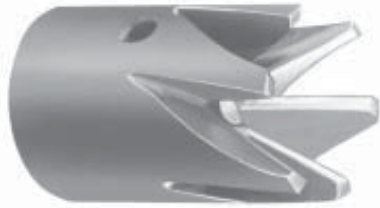
### High Speed Steel

1/4" shank w/ 3/8 mounting diameter.

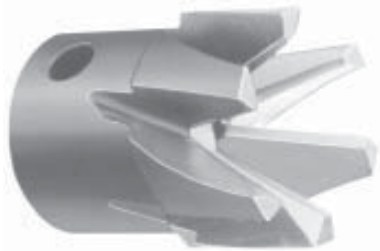
Description	Cutter Dia.	Cutter Centerline Angle	Hole Dia.	Arbor Dia.	Overall Length	Severance Tool Name	EDP Order Number
Complete tool	3/4"	75°	3/8"	3/8"	4"	EG-750	17420
Complete tool	1"	75°	3/8"	3/8"	4"	EG-1000	17425

### Extra or Replacement Parts

Arbor, fits both sizes				3/8"	4"	EG-750-A	17430
750F - Front cutter	3/4"	75°	3/8"		3/4"	EG-750-LC	17431
750B - Back cutter	3/4"	75°	3/8"		3/4"	EG-750-RC	17432
1000F - Front cutter	1"	75°	3/8"		7/8"	EG-1000-LC	17433
1000B - Back cutter	1"	75°	3/8"		7/8"	EG-1000-RC	17434
Socket head set screws (2 required for each cutter)					3/16"	6-32 X 1/4"	17435



ED-1



EDE-2



ED-T2

## Electrode Forming Cutters For "Spot Weld" Electrodes

Reconditioning Electrode tips is an economical solution that minimizes downtime. Replacing worn tips with new electrode tips can be costly and time consuming. But reconditioning the worn tip will extend the life of your electrodes, and cuts down wasted production time.

**Electrode Forming Cutters** are available in threaded, extended, and flush styles.

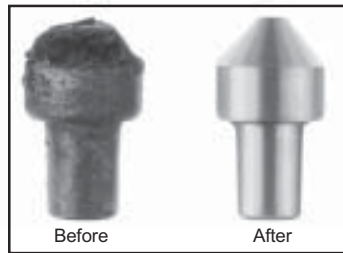
- **Threaded (ED-1)** cutters are ideal where the center-to-center distance between electrodes is less than 1", as is the case in many multiple-point and short-stroke stationary welders. Comes with an adjustable nose flat.

- **Extended (EDE-2)** cutters are ideal where the center-to-center distance between electrodes is less than 1", as is the case in many multiple-point and short-stroke stationary welders.

- **Flush (ED-T2)** cutters allow access in confined areas, requiring a minimum clearance of only 3/4" between welding faces.

Severance can make up cutters to fit any electrode dresser holder, and to produce any desired tip shape. Severance makes high-quality double end type dressers to be used on robotics and automated machinery. Combinations of

See Special Forms Page 65-66



Air tools not included with cutters



### High Speed Steel

Threaded Style Electrode Forming Cutter

Shape Centerline Angle	Dia. of Flat Nose Cutting Insert And Comb. Stop	Severance Tool Name	EDP Order Number
30°	3/16"	ED-1	17470
30°	1/8"	ED-2	17471

### High Speed Steel

Extended Style Electrode Forming Cutter

Shape Centerline Angle	Dia. of Flat Nose Cutting Insert And Comb. Stop	Severance Tool Name	EDP Order Number
30°	1/8"	EDE-1	17490
30°	3/16"	EDE-2	17491
30°	1/4"	EDE-3	17492
5/16 Radius	1/4"	EDE-6	17493

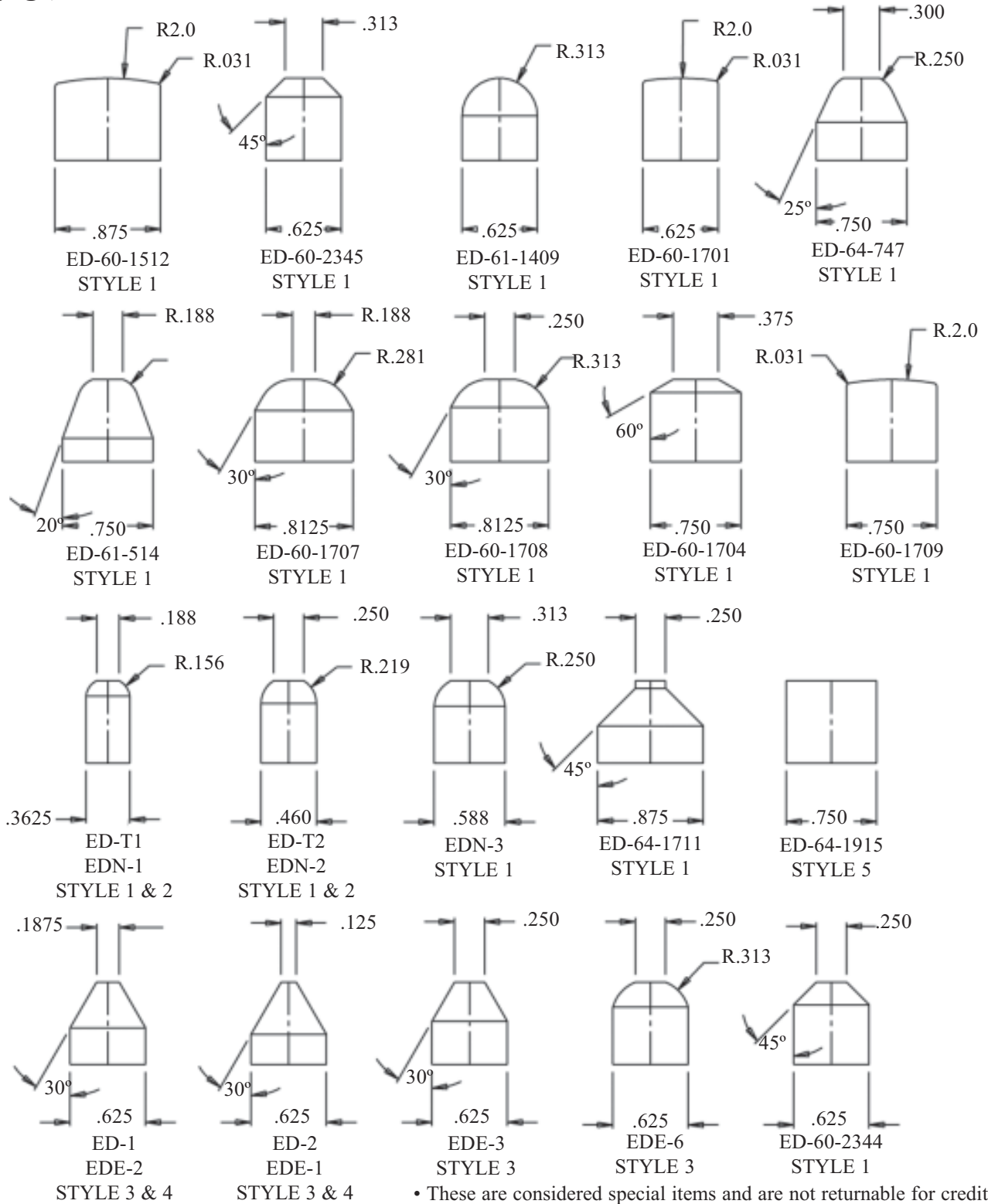
### High Speed Steel

Flush Style Electrode Forming Cutter

Shape Centerline Angle	Dia. of Flat Nose Cutting Insert And Comb. Stop	Severance Tool Name	EDP Order Number
Reform No. 1 Pointed Tips	3/16"	ED-T1	17530
Reform No. 2 Pointed Tips	1/4"	ED-T2	17531

## Specialty Electrode Cutter Forms

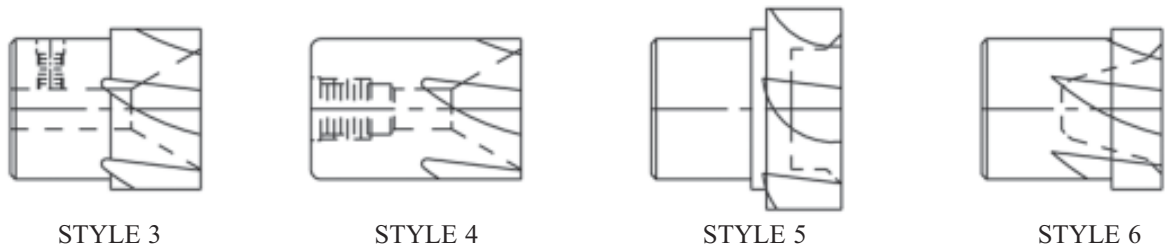
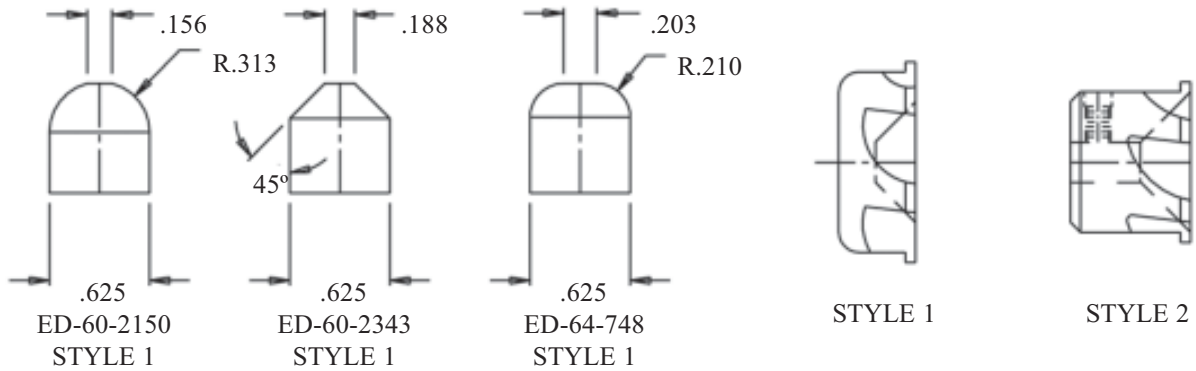
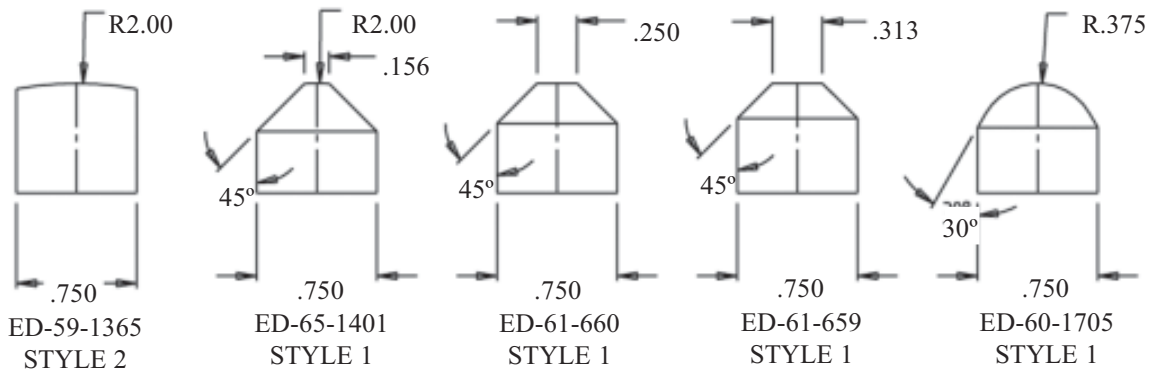
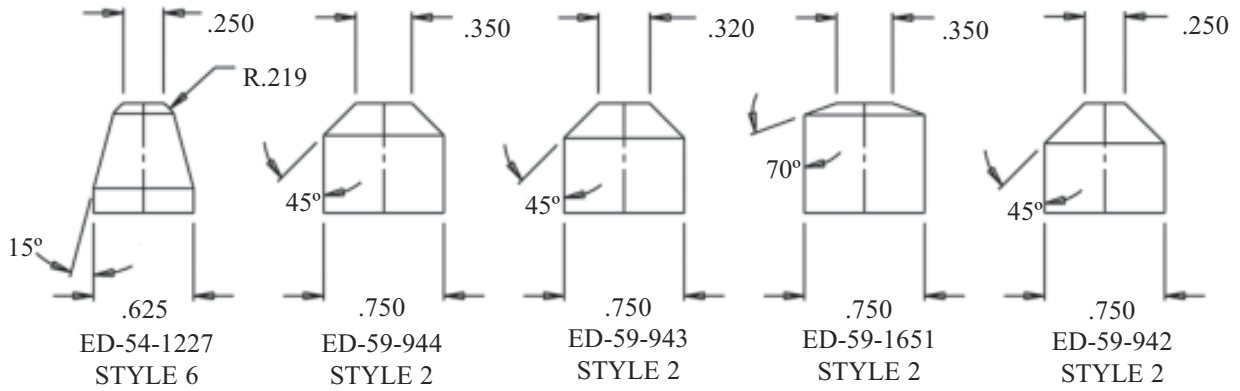
For "Spot Weld" Electrodes (For styles/shapes of actual cutters, see bottom of next page).



• These are considered special items and are not returnable for credit.

## Specialty Electrode Cutter Forms (Continued..)

For "Spot Weld" Electrodes (For styles/shapes of actual cutters, see bottom of page).



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## Carbide End Mills

Severance solid micro grain carbide end mills are stocked in four-flute design, and are available in two and three-flute designs to order. Indicate the number of flutes desired at the end of the Tool Number' EM-250-W-3, for example. Experiment within the speed ranges listed at the right to produce the best chip on a given machine, workpiece, depth of cut, etc.

MATERIAL	S.F.P.M.
Cast Iron	75-200
Malleable Iron	75-200
Nickel Chrome	75-250
Stainless Steel	75-250
Carbon Steel	100-250
Nickel	100-250
Monel Metal	100-250
Free Cutting Steel	125-300
Brass Bronze	125-300
Aluminum and Aluminum Alloys	125-375
Copper	125-375
Hard Rubber	150-450
Zinc Alloys	200-400
Fibre	200-400
Plastics	200-500

NOTE: S.F.P.M. = Surface Feet Per Minute

### Standard Spiral

Head Dia.	Cutting Length	Overall Length	Severance Tool Name	EDP Order Number
1/8"	1/2"	1-1/2"	EM-125-W	36180
3/16"	5/8"	2"	EM-1875-W	36181
1/4"	3/4"	2"	EM-250-W	36182
5/16"	3/4"	2-1/2"	EM-3125-W	36183
3/8"	7/8"	2-1/2"	EM-375-W	36184
1/2"	1"	3"	EM-500-W	36185
5/8"	1-1/4"	3-1/2"	EM-625-W	36186
3/4"	1-1/2"	4"	EM-750-W	36187

### Slow Spiral

Head Dia.	Cutting Length	Overall Length	Severance Tool Name	EDP Order Number
1/8"	3/8"	1-1/2"	EMS-2-W	36188
3/16"	1/2"	1-1/2"	EMS-3-W	36189
1/4"	5/8"	2"	EMS-4-W	36190
5/16"	11/16"	2"	EMS-5-W	36191
3/8"	3/4"	2"	EMS-6-W	36192
1/2"	15/16"	2"	EMS-8-W	36193
5/8"	1-1/8"	2-1/2"	EMS10-W	36194
3/4"	1-1/4"	2-5/8"	EMS-12-W	36195



## Carbide Carbo-Routs™

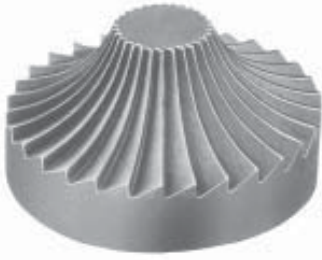
These solid carbide, multi-tooth routing mills will produce good finishes over a wide range of speeds. Fluting and tooth arrangements are designed to provide fast stock removal on many different materials.

### Plain End

Cutting Dia.	Flute Length	Shank Dia.	Overall Length	Severance Tool Name	EDP Order Number
1/8"	1/2"	1/8"	1-1/2"	R-1	28685
3/16"	5/8"	1/4"	2"	R-2	28687
1/4"	1-1/4"	1/4"	3"	R-3	28691
3/8"	1-3/8"	3/8"	2-1/2"	R-4	28694
1/2"	1-1/2"	1/2"	3"	R-5	28696

### Drill Style, End Cut

Cutting Dia.	Flute Length	Shank Dia.	Overall Length	Severance Tool Name	EDP Order Number
1/8"	1/2"	1/8"	1-1/2"	R-1-DP	28745
3/16"	1"	1/4"	2"	R-2-DP	28747
1/4"	1-1/4"	1/4"	3"	R-3-DP	28751
3/8"	1-3/8"	3/8"	2-1/2"	R-4-DP	28754
1/2"	1-1/2"	1/2"	3"	R-5-DP	28756

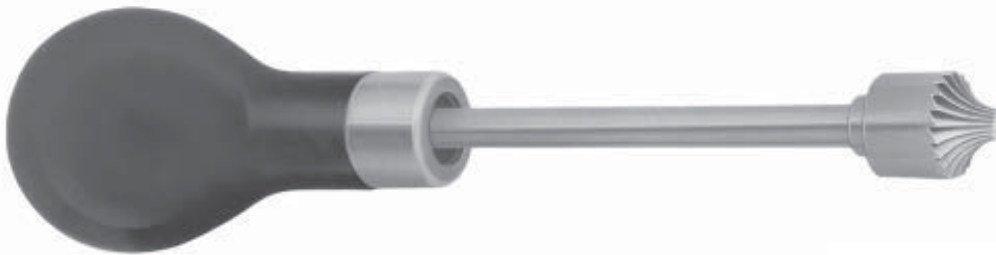


## Hole Radius Deburring Cutters

Rounds hole edges often an improvement over the chamfer. The multi-flute design keeps cutter centered in hole. May be used manually, mounted on a handle (see comfy grip handles below), just a twist of the wrist easily removes burrs safely from holes already sized. Also, can be shank-mounted and chucked in a machine (see shanks on pages 78-80). Safer than ordinary deburring tools. May be reground many times. Shanks and handles sold separately

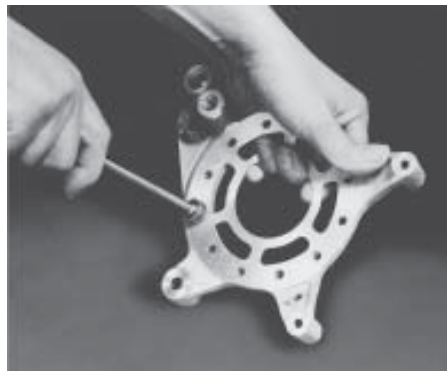
### High Speed Steel

Use For Nominal Hole Size	Cutting Dia.	Cutting Length	Radius	Nose Dia.	Overall Length	Internal Thread	Severance Tool Name	EDP Order Number
3/32"	3/16"	1/16"	3/32"	0.046	7/8"	1/4"-28	HR-1	25140
1/8"	9/32"	3/32"	1/8"	0.063	7/8"	1/4"-28	HR-2	25141
3/16"	3/8"	1/8"	3/16"	0.093	7/8"	1/4"-28	HR-3	25142
1/4"	9/16"	3/16"	1/4"	1/8"	3/4"	1/4"-28	HR-5	25143
5/16"	5/8"	1/4"	5/16"	3/16"	3/4"	1/4"-28	HR-10	25144
3/8"	3/4"	1/4"	3/8"	1/4"	3/4"	1/4"-28	HR-15	25145
7/16"-1/2"	1"	3/8"	3/8"	5/16"	3/4"	5/16"-24	HR-20	25146
9/16"-5/8"	1-1/8"	1/4"	1/2"	3/8"	5/8"	5/16"-24	HR-25	25147
3/4"	1-3/8"	3/8"	9/16"	7/16"	3/4"	3/8"-24	HR-30	25148
7/8"-1"	1-1/2"	3/8"	5/8"	9/16"	11/16"	3/8"-24	HR-35	25149
1-3/8"	2"	1/2"	1"	1"	3/4"	3/8"-24	HR-40	25150
1-5/8"-1-3/4"	2-1/2"	5/8"	1-1/4"	1-1/8"	1"	1/2"-20	HR-45	25151
2"	2-3/4"	3/4"	1-3/8"	1-1/2"	1-1/8"	1/2"-20	HR-50	25152

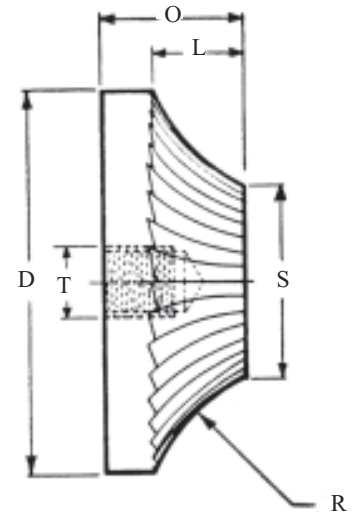


## Threaded Handles

Fits This Rad. Dbr. Ctr	Severance Tool Name	EDP Order Number
HR-1	H-100	34260
HR-2	H-100	34260
HR-3	H-100	34260
HR-5	H-100	34260
HR-10	H-100	34260
HR-15	H-100	34260
HR-20	H-110	34261
HR-25	H-110	34261
HR-30	H-121	34262
HR-35	H-121	34262
HR-40	H-121	34262
HR-45	H-131	34263
HR-50	H-131	34263



Handles generally used with radius deburr tools. For other shanks, see pages 78-80.





## Micro Reamers™

Designed for smooth, chatter-free™ action, Micro-Reamers™ perform well in cast and malleable iron and in many nonferrous materials such as plastics, aluminum, etc. These tools feature solid carbide head with a steel body. The chatter-free tooth design and unique wiping flute geometry. A rigid setup, perfect alignment between the hole to be reamed, and the Micro-Reamer™, and the guide bushing, will produce accurate, finely finished holes. The drilled hole, to be reamed, should be approximately .006 to .016 undersize in holes from 3/8 to 1 inch in diameter. Standard tool tolerance is +.0002/-.0000. Other sizes and tolerance specifications on request.

### Carbide

Cutting Dia.	Shank Dia.	Overall Length	Shank Length	Severance Tool Name	EDP Order Number
1/8"	7/64"	2-3/4"	1-3/4"	RW-.1250	26170
3/16"	11/64"	3-1/2"	2-3/8"	RW-.1875	26171
3/8"	5/16"	5"	3-1/4"	RW-.3750	26172
1/2"	7/16"	6"	4"	RW-.5000	26173
9/16"	7/16"	6"	4"	RW-.5625	26174



REF.#53260

Other style Reamers are available as a special. Here is an example of a large taper reamer.



## Micro-Center Reamers™

These tools are used to clean center holes in parts after heat treat or other processes. Micro-Center Reamers™ are particularly well suited in center lapping operations where speed is a factor and close tolerances must be maintained. They can be used in shifting centers to correct misalignment. Replace grinding wheels for: Dressing centers in hardened steel materials (will not chip out like center laps).

They will do an outstanding job on a wide variety of materials such as hardened tool steels; heat-treated forgings; and cast steels; Melanite and chilled iron, pitch and cut can be readily made to suit unusual conditions not responsive to the standard tool.

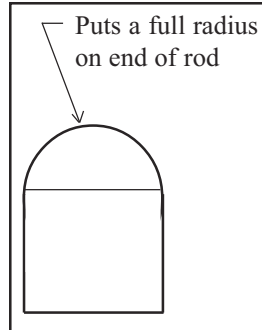
### Carbide

Cutting Dia.	Nose Dia.	Shank Dia.	Overall Length	Shank Length	C/L Angle	Severance Tool Name	EDP Order Number
1/4"	.015	3/16"	1-1/2"	1-3/16"	30°	MCR-4-W	26130
3/8"	.020	1/4"	1-3/4"	1-3/4"	30°	MCR-6-W	26131
1/2"	.040	1/4"	2-1/4"	1-3/4"	30°	MCR-8-W	26132
5/8"	.050	3/8"	2-3/8"	1-1/2"	30°	MCR-10-W	26133
3/4"	.060	1/2"	2-11/16"	1-5/16"	30°	MCR-12-W	26134
1"	.090	1/2"	2-13/16"	1-5/16"	30°	MCR-16-W	26135

**Note: All Micro-Center Reamers™ are TiN Coated at no extra charge!**

## Rod End Forming Cutters

These cutters are used to form rounded ends on rods, wire, parts, etc. They perform well on many "Space Age" materials, as well as on the more common metals, plastics, etc. SPECIALS – Rod-End Forming Cutters may be obtained to produce various radii, straight chamfers, etc. Send sketch of desired form and sample of part, if feasible.



### High Speed Steel

For Rod Diameter	Radius Formed	Body Dia.	Shank Dia.	Overall Length	Severance Tool Name	EDP Order Number
1/32"	1/64"	1/4"	1/4"	1-1/2"	RFC-0	28630
1/16"	1/32"	5/16"	1/4"	1-3/4"	RFC-1	28631
3/32"	3/64"	3/8"	1/4"	1-3/4"	RFC-1-1/2	28632
1/8"	1/16"	1/2"	3/8"	2-1/8"	RFC-2	28633
3/16"	3/32"	1/2"	3/8"	2-1/8"	RFC-3	28634
1/4"	1/8"	3/4"	1/2"	2-11/16"	RFC-4	28635
5/16"	5/32"	3/4"	1/2"	2-11/16"	RFC-5	28636
3/8"	3/16"	3/4"	1/2"	2-11/16"	RFC-6	28637
7/16"	7/32"	1"	1/2"	2-13/16"	RFC-7	28638
1/2"	1/4"	1"	1/2"	2-13/16"	RFC-8	28639
9/16"	9/32"	1"	1/2"	2-13/16"	RFC-9	28640
5/8"	5/16"	1-1/4"	3/4"	3-3/8"	RFC-10	28641
3/4"	3/8"	1-1/2"	3/4"	3-1/2"	RFC-12	28642
7/8"	7/16"	1-3/4"	1"	4-1/4"	RFC-14	28643
1"	1/2"	2"	1"	4-3/8"	RFC-16	28644

See Page36 for Outside Chamfer Mills to put an angle on the end of a rod

## Special Rod End Forming Cutters

Special diameters, Radii, flutes, and angles available.



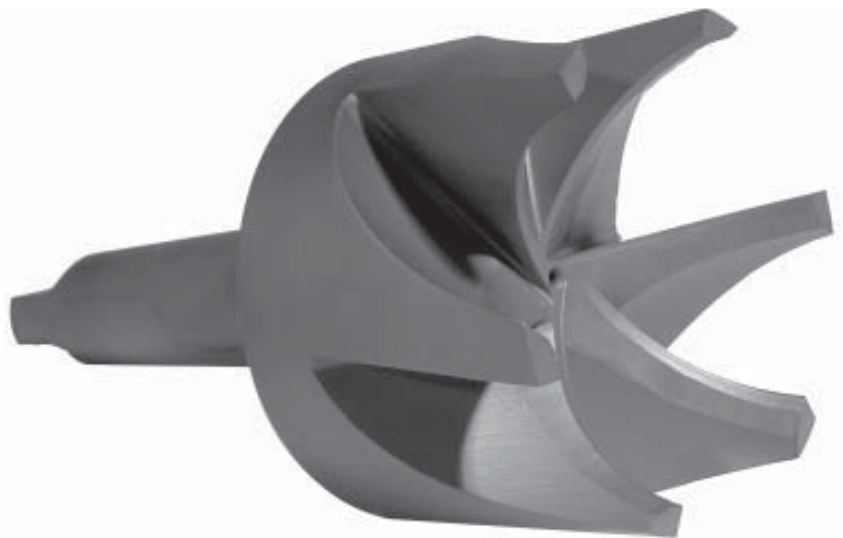
REF.#55362

Here is an example of a special carbide insert rod end forming cutter made by Severance Tool to fill a customers needs.



REF.#55361

Severance can make special hollow mills to fit customer applications.



REF.#53690

Here is an example of a large Rod End Forming Cutting.

## Specialty Tools

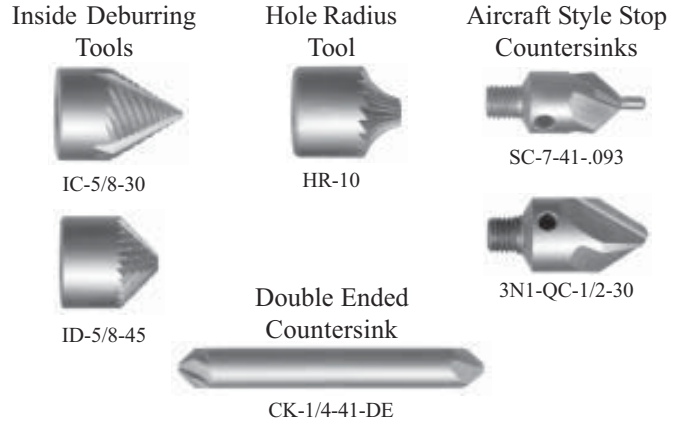
### Whirly-Gig® Handle

The Severance Whirly-Gig® Handle is designed for fast efficient part deburring. A wide range of standard Severance deburring tools can be quickly interchanged for performing and finishing a variety of hand deburring operations.

*How does the Severance Whirly-Gig® Handle work?*

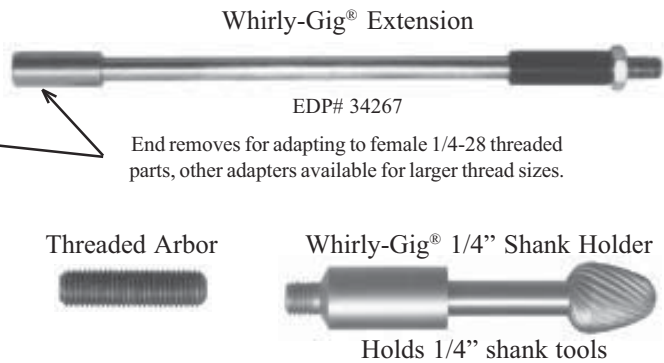


*Severance has a wide variety of deburring tools to fit the Whirly-Gig® Handle*



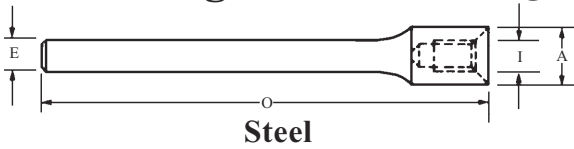
### Whirly-Gig® Handle Accessories

Tools	EDP#
Whirly-Gig® Handle	34266
Whirly-Gig® Extension	
Whirly-Gig® Holder-1/4	34273
Whirly-Gig® Set #344	34268
Whirly-Gig® Set #345	34271
Whirly-Gig® Set #346	34272



Whirly-Gig® Sets		
<p><b>Whirly-Gig® Set #344</b> EDP# 34268</p> <p>1 Whirly-Gig® Handle 1 Whirly-Gig® Extension 1 ID-5/8-30 1 ID-5/8-45 1 SC-7-41-.093 1 SC-7-45-.093 1 HR-10 1 Threaded Arbor</p>	<p><b>Whirly-Gig® Set #345</b> EDP# 34271</p> <p>1 Whirly-Gig® Handle 1 Whirly-Gig® Holder-1/4 1 CK-1/4-45-DE 1 3N1-QC-1/2-45 1 Hex Wrench</p>	<p><b>Whirly-Gig® Set #346</b> EDP# 34272</p> <p>1 Whirly-Gig® Handle 1 Whirly-Gig® Holder-1/4 1 CK-1/4-45-DE 1 CK-1/4-41-DE 1 3N1-QC-1/2-45 1 3N1-QC-3/8-45 1 IC-5/8-30 1 HR-10 1 Hex Wrench 1 Threaded Arbor</p>

## Straight Shanks for QC and Piloted Aircraft Countersinks

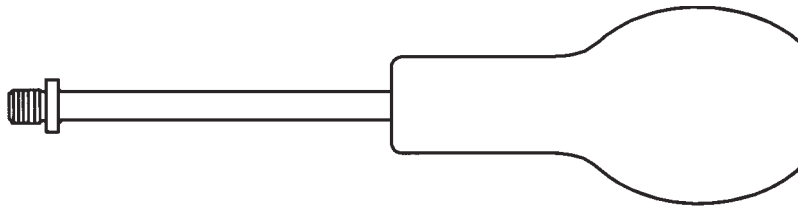


To be used with Severance Quick Change Countersinks 3N1-QC™ on page 59 and Severance Chatter Free™ Aircraft and Piloted countersinks on pages 65-67.

Thread Size	Shank Dia.		Overall Length	Shoulder Dia.	Severance Shank Name	EDP Order Number
	Frac.	Dec.				
1/4"-28	1/4"	.250	4"	7/16"	FM-2 Shank	34235
1/4"-28	1/2"	.500	6"	1/2"	FM-2x6 Shank	34239
1/4"-28	1/2"	.500	8"	1/2"	FM-2x8 Shank	34240
3/8"-24	1/4"	.250	4"	9/16"	FM-3 Shank	34236
3/8"-24	5/8"	.625	6"	5/8"	FM-3x6 Shank	34241
3/8"-24	5/8"	.625	8"	5/8"	FM-3x8 Shank	34242

## Threaded Handles

Steel Shank with a Comfortable Wood Handle. Can be used with HR tools on page 43, and Deburring Tools on pages 32 & 35.

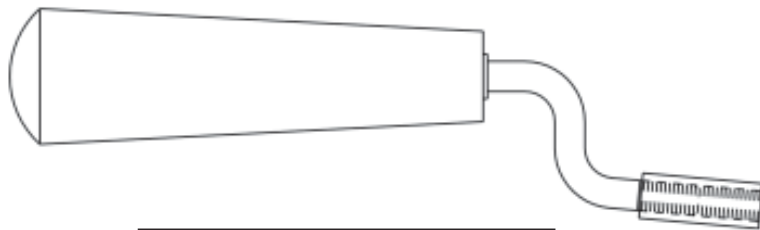


(O.A. length approx. 7")

Fits this Rad. Dbr. Ctr	Severance Tool Name	EDP Order Number
HR-1	H-100	34260
HR-2	H-100	34260
HR-3	H-100	34260
HR-5	H-100	34260
HR-10	H-100	34260
HR-15	H-100	34260
HR-20	H-110	34261
HR-25	H-110	34261
HR-30	H-121	34262
HR-35	H-121	34262
HR-40	H-121	34262
HR-45	H-131	34263
HR-50	H-131	34263

## Whirly-Gig® Handle

The Severance Whirly-Gig® is designed for a variety of hand deburring operations. The handle holds any 1/4"-28 threaded tool. See page 41 for more details.



See Pages 41-42 for more details and options for Handles

Whirly-Gig® Handle

Aprox. Overall Length	Thread Size	Severance Tool Name	EDP Order Number
6-1/2"	1/4"-28	Whirly-Gig®	34266

## Speedy Handle™

The Severance Speedy Handle™ is designed for a variety of hand deburring operations. The handle holds any 1/4" diameter shank tool and has a ratchet like effect inside the handle. See page 42 for more details.



Speedy Handle™

Aprox. Overall Length	Arbor Hole Size	Severance Tool Name	EDP Order Number
4-1/4"	1/4"	Speedy Handle™	34269