

Member IMC Group



**THE  
FOCUS  
IS THE  
FINISH.**

**BURS  
ROUTERS  
DIE TRIMMERS**

**Time-tested tools to cut  
time on the job.**



**Great finishes begin with great tools.**

And great tools like these begin with IMCO's advanced technology. We put decades of cutting tool know-how into all IMCO burs and routers. Which is why you get so much more out of them.



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# BURS

## A half-century of know-how from our hands to yours.

Any machinist worth his salt will tell you: there's no substitute for the deep knowledge that comes with decades of making tools that do the job right.

Sure, we use the same advanced technologies and CNC precision to make all our cutting tools. But it's that know-how that makes IMCO burs work harder and *many times longer* than burs made by anyone else.

Some call it craftsmanship. We call it knowing what we're doing.

### Bur Product Features

Sectional fluting enables burs to cut on the radius as well as the body of the tool.

Three bur styles – double cut, standard cut and aluma cut – in a full range of shapes and sizes. Special grinds – fine cut, coarse cut and diamond cut – available upon request.

CNC precision-ground flutes for repeatability, chatter-free operation and longer life.

100% inspection of high-temperature brazing to ensure structural integrity.

Shanks are made from high-quality alloy steel hardened to HRC 45-49 to ensure maximum strength and durability.

Long and extra-long shanks available standard for many burs with a wide array of shank modifications available for all styles.



## Bur Shapes

IMCO carbide burs are offered in an array of shapes, fluting patterns and lengths suitable for all types of deburring applications. Choose the shape that conforms to your work piece using the diagram below as a guide.

## Bur starting parameters

Bur Diameter		Starting RPMs	
Inch	Metric	Common Materials	Stainless Steel
1/16	1,5	70,000	105,000
1/8	3	50,000	75,000
3/16	4,7	40,000	60,000
1/4	6,3	30,000	45,000
5/16	8	27,000	41,500
3/8	9,5	22,000	33,000
7/16	11	20,000	30,000
1/2	12,7	18,000	27,500
5/8	16	16,000	24,000
3/4	19	14,000	21,000
1	25,4	12,000	18,000

Long shank burs should be run at lower RPM



# TOOL TIP

## Having a Hard Time Deburring?

Sometimes the basic fluting options don't hold up in very hard materials. **IMCO can provide styles available by special order when standard tooling will not work for an application.** For example, a fine cut flute style features an increased number of flutes in combination with the shallow flute depth of the fine cut design to improve edge strength. This stronger tool design extends tool life by reducing edge chipping and tool chatter while also leaving a better part finish.

In aerospace materials such as titanium and nickel-based alloys, try IMCO's coarse cut burs. This "open" fluting style allows for better chip evacuation while retaining cutting edge strength. Try this when working in materials with low machinability ratings.

Material packing can be an issue in ferrous materials. Special order burs with negative rake in standard, double or fine cut fluting styles may help. The negative rake keeps material from being pulled into the flute, eliminating evacuation issues. Please note: The negative rake does reduce the shearing action of the bur and should only be considered for applications in which chip packing is an issue.



# BURS

## Bur Cut Styles

Select the cut style for the finish you need from the choices below. Precision flute grinding ensures chatterless operations and a long tool life.



### Double cut

Right- and left-hand flutes combine to produce a chisel-type cutting edge. You get faster penetration and stock removal, and better control and less operator fatigue due to reduced pull.



### Standard cut

This style has only right-hand spiral flutes, producing good stock removal and excellent surface finishes. Use this cut for general deburring in cast iron, steel, copper alloys, brass alloys and other ferrous materials.



### Aluma Cut

Wide flutes make the aluma cut ideal for easy chip clearance. That means fast stock removal in aluminum, brass, zinc alloys, most plastics and soft, non-ferrous materials. IMCO's advanced relief design gives it greater strength, so it lasts a lot longer.

IMCO burs are for general purpose deburring operations in these materials:

		Standard	Double	Aluma
<b>P</b>	Carbon & tool steels ≤ 48 HRC	●	●●	
<b>H</b>	Carbon & tool steels > 48 HRC	●	●●	
<b>M</b>	Stainless steels	●	●●	
<b>S</b>	Super alloys, Inconel®, titanium	●	●●	
<b>K</b>	Cast irons	●	●●	
<b>A</b>	Aluminum & non-ferrous			●●

● Suitable ●● Recommended

## Special Bur Cuts

Other styles of cuts are available upon request:

### Fine Cut Style



Recommended when a better surface finish is a priority. Use in materials with HRC 55-60.

### Coarse Cut Style



Offers rapid stock removal in copper, brass, plastics, rubber and other easily machined materials.

### Diamond Cut Style

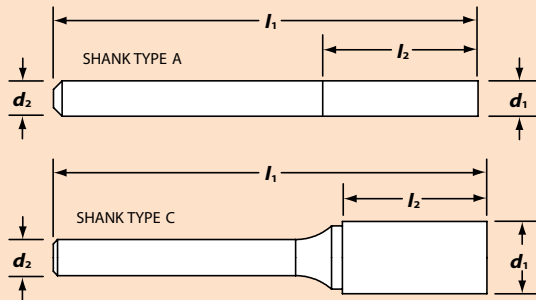


For use on heat-treated and tough alloy steels. Balanced cutting action provides better operator control. Stock removal is increased; finish is sacrificed. Especially recommended for welding applications.

## SPECIAL GRINDS

Need a custom bur that's "outside the box?" We can do that. That kind of versatility is one more BIG benefit of serious tool-making know-how. Visit [www.imcousa.com](http://www.imcousa.com) and click on Contact Us.

## SA Cylindrical-Shape Burs



## SA - Metric

Tool Code	Cutter Dia d1	Shank Dia d2	Length of Cut l2	Overall Length l1	Shank Type	Standard Cut	Double Cut	Aluma Cut
SA-41M	1,5	3	6	38	A	0854413	0854438	
SA-42M	2,5	3	11	38	A	0854414	0854442	
SA-43M	3	3	14	38	A	0854416	0854444	
SA-43ML2	3	3	14	50	A	0852879	0852886	
SA-43ML3	3	3	14	76	A	0852885	0852889	
SA-11M	3	6	12	50	A	0854422	0854446	
SA-52M	4	3	12,7	38	A	0854428	0854449	
SA-53M	4,7	3	12,7	38	A	0854431	0854450	
SA-14M	4,7	6	16	50	A	0854435	0854451	
SA-1M	6	6	16	50	A	0855287	0855307	
SA-1M	6	6	19	50	A			0852834
SA-1ML4	6	6	12,7	114	C	0853032	0853039	
SA-1ML6	6	6	12,7	163	C	0853035	0853042	
SA-51M	6,3	3	12,7	50	C	0854437	0854452	
SA-2M	8	6	20	63	C	0855289	0855309	
SA-3M	9,5	6	19	63	C	0855293	0855310	0852837
SA-3ML4	9,5	6	19	120	C	0853033	0853040	
SA-3ML6	9,5	6	19	171	C	0853036	0853043	
SA-4M	11	6	25	68	C	0855302	0855311	
SA-5M	12,7	6	25	68	C	0855303	0855312	0852838
SA-5ML4	12,7	6	25	127	C	0853034	0853041	
SA-5ML6	12,7	6	25	177	C	0853037	0853044	
SA-6M	16	6	25	68	C	0855304	0855313	0852839
SA-7M	19	6	25	68	C	0855305	0855314	0852841
SA-9M	25,4	6	25	68	C	0855306	0855320	

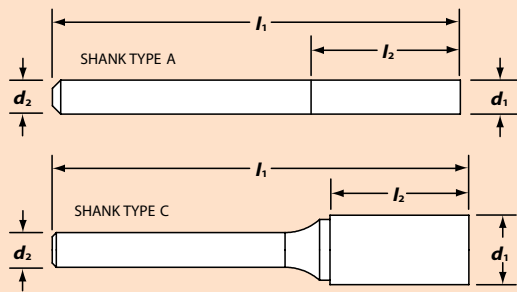
## SA - Inch

Tool Code	Cutter Dia d1	Shank Dia d2	Length of Cut l2	Overall Length l1	Shank Type	Standard Cut	Double Cut	Aluma Cut
SA-41	1/16	1/8	1/4	1-1/2	A	0854897	0854898	
SA-42	3/32	1/8	7/16	1-1/2	A	0854899	0854900	
SA-43	1/8	1/8	9/16	1-1/2	A	0854901	0854902	
SA-43L2	1/8	1/8	9/16	2	A	0852994	0852995	
SA-43L3	1/8	1/8	9/16	3	A	0852996	0854383	
SA-11	1/8	1/4	1/2	2	A	0854883	0854885	
SA-52	5/32	1/8	1/2	1-1/2	A	0854910	0854911	
SA-53	3/16	1/8	1/2	1-1/2	A	0854912	0854914	
SA-14	3/16	1/4	5/8	2	A	0854886	0854888	
SA-50	1/4	1/8	3/16	1-11/16	C	0854904	0854906	
SA-51	1/4	1/8	1/2	2	C	0854908	0854909	
SA-1	1/4	1/4	5/8	2	A	0856048	0856049	
SA-1	1/4	1/4	3/4	2	A			0854232
SA-1A	1/4	1/4	1	2	A	0854881	0854882	
SA-1L4	1/4	1/4	1/2	4-1/2	C	0854082	0854087	
SA-1L6	1/4	1/4	1/2	6-1/2	C	0853983	0854411	
SA-2	5/16	1/4	3/4	2-3/4	C	0856050	0856051	
SA-3	3/8	1/4	3/4	2-3/4	C	0856052	0856053	0854233
SA-3A	3/8	1/4	1	3	C	0854892	0854896	
SA-3L4	3/8	1/4	3/4	4-3/4	C	0854088	0854089	
SA-3L6	3/8	1/4	3/4	6-3/4	C	0853992	0854000	
SA-4	7/16	1/4	1	3	C	0856054	0856055	
SA-5	1/2	1/4	1	3	C	0856056	0856057	0854236
SA-5L4	1/2	1/4	1	5	C	0854097	0854099	
SA-5L6	1/2	1/4	1	7	C	0854004	0854412	
SA-6	5/8	1/4	1	3	C	0856058	0856059	0854240
SA-7	3/4	1/4	1	3	C	0856060	0856061	0854246
SA-9	1	1/4	1	3	C	0856062	0856063	





## SB Cylindrical-Shape End-Cut Burs



## SB - Metric

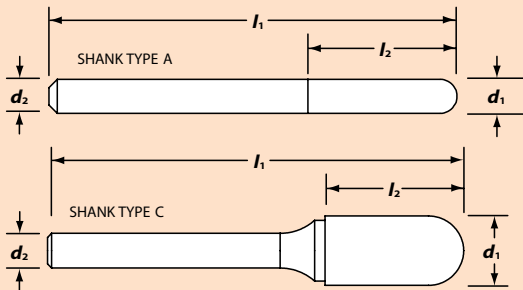
Tool Code	Cutter Dia d1	Shank Dia d2	Length of Cut l2	Overall Length l1	Shank Type	Standard Cut	Double Cut	Aluma Cut
SB-41M	1,5	3	6	38	A	0854455	0854495	
SB-42M	2,5	3	11	38	A	0854462	0854496	
SB-43M	3	3	14	38	A	0854465	0854499	
SB-43ML2	3	3	14	50	A	0852954	0852955	
SB-43ML3	3	3	14	76	A	0852956	0852957	
SB-11M	3	6	12	50	A	0854466	0854501	
SB-52M	4	3	12,7	38	A	0854467	0854502	
SB-53M	4,7	3	12,7	38	A	0854468	0854504	
SB-14M	4,7	6	16	50	A	0854473	0854505	
SB-1M	6	6	16	50	A	0855321	0855359	
SB-1M	6	6	19	50	A			0852842
SB-1ML4	6	6	12,7	114	C	0853310	0853313	
SB-1ML6	6	6	12,7	163	C	0853325	0853333	
SB-50M	6,3	3	5	43	C	0854477	0854506	
SB-51M	6,3	3	12,7	50	C	0854492	0854512	
SB-2M	8	6	20	63	C	0855331	0855360	
SB-3M	9,5	6	19	63	C	0855338	0855363	0852843
SB-3ML4	9,5	6	19	120	C	0853316	0853317	
SB-3ML6	9,5	6	19	171	C	0853334	0853335	
SB-4M	11	6	25	68	C	0855341	0855365	
SB-5M	12,7	6	25	68	C	0855344	0855367	0852846
SB-5ML4	12,7	6	25	127	C	0853321	0853322	
SB-5ML6	12,7	6	25	177	C	0853337	0853338	
SB-6M	16	6	25	68	C	0855345	0855371	0852848
SB-7M	19	6	25	68	C	0855350	0855373	0852849

## SB - Inch

Tool Code	Cutter Dia d1	Shank Dia d2	Length of Cut l2	Overall Length l1	Shank Type	Standard Cut	Double Cut	Aluma Cut
SB-41	1/16	1/8	1/4	1-1/2	A	0854939	0854941	
SB-42	3/32	1/8	7/16	1-1/2	A	0854942	0854943	
SB-43	1/8	1/8	9/16	1-1/2	A	0854952	0854954	
SB-43L2	1/8	1/8	9/16	2	A	0853025	0853029	
SB-43L3	1/8	1/8	9/16	3	A	0853030	0853031	
SB-11	1/8	1/4	1/2	2	A	0854920	0854923	
SB-52	5/32	1/8	1/2	1-1/2	A	0854964	0854965	
SB-53	3/16	1/8	1/2	1-1/2	A	0854969	0854978	
SB-14	3/16	1/4	5/8	2	A	0854924	0854925	
SB-50	1/4	1/8	3/16	1-11/16	C	0854957	0854958	
SB-51	1/4	1/8	1/2	2	C	0854960	0854962	
SB-1	1/4	1/4	5/8	2	A	0856064	0856065	
SB-1	1/4	1/4	3/4	2	A			0854350
SB-1A	1/4	1/4	1	2	A	0854917	0854919	
SB-1L4	1/4	1/4	1/2	4-1/2	C	0854213	0854207	
SB-1L6	1/4	1/4	1/2	6-1/2	C	0854219	0854210	
SB-2	5/16	1/4	3/4	2-3/4	C	0856066	0856067	
SB-3	3/8	1/4	3/4	2-3/4	C	0856068	0856069	0854354
SB-3A	3/8	1/4	1	3	C	0854931	0854934	
SB-3L4	3/8	1/4	3/4	4-3/4	C	0854214	0854208	
SB-3L6	3/8	1/4	3/4	6-3/4	C	0854216	0854211	
SB-4	7/16	1/4	1	3	C	0856070	0856071	
SB-5	1/2	1/4	1	3	C	0856072	0856073	0854356
SB-5L4	1/2	1/4	1	5	C	0854215	0854209	
SB-5L6	1/2	1/4	1	7	C	0854218	0854212	
SB-6	5/8	1/4	1	3	C	0856074	0856075	0854357
SB-7	3/4	1/4	1	3	C	0856076	0856077	0854365



## SC Radius-End Cylindrical-Shape Burs



## SC - Metric

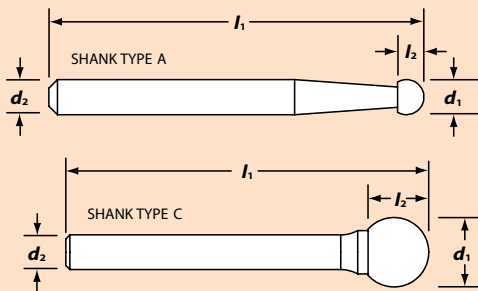
Tool Code	Cutter Dia d1	Shank Dia d2	Length of Cut l2	Overall Length l1	Shank Type	Standard Cut	Double Cut	Aluma Cut
SC-41M	2,5	3	11	38	A	0854517	0854533	
SC-42M	3	3	14	38	A	0854519	0854534	
SC-42ML2	3	3	14	50	A	0852893	0852896	
SC-42ML3	3	3	14	76	A	0852895	0852897	
SC-11M	3	6	12	50	A	0854521	0854535	
SC-52M	4	3	12,7	38	A	0854522	0854536	
SC-53M	4,7	3	12,7	38	A	0854525	0854548	
SC-14M	4,7	6	16	50	A	0854526	0854550	
SC-1M	6	6	16	50	A	0855375	0855390	
SC-1M	6	6	19	50	A			0852850
SC-1ML4	6	6	12,7	114	C	0853045	0853051	
SC-1ML6	6	6	12,7	163	C	0853048	0853054	
SC-51M	6,3	3	12,7	50	C	0854527	0854551	
SC-2M	8	6	20	63	C	0855382	0855393	
SC-3M	9,5	6	19	63	C	0855385	0855397	0852851
SC-3ML4	9,5	6	19	120	C	0853046	0853052	
SC-3ML6	9,5	6	19	171	C	0853049	0853055	
SC-4M	11	6	25	68	C	0855386	0855399	
SC-5M	12,7	6	25	68	C	0855387	0855400	0852852
SC-5ML4	12,7	6	25	127	C	0853047	0853053	
SC-5ML6	12,7	6	25	177	C	0853050	0853056	
SC-6M	16	6	25	68	C	0855388	0855401	0852853
SC-7M	19	6	25	68	C	0855389	0855402	0852854

## SC - Inch

Tool Code	Cutter Dia d1	Shank Dia d2	Length of Cut l2	Overall Length l1	Shank Type	Standard Cut	Double Cut	Aluma Cut
SC-41	3/32	1/8	7/16	1-1/2	A	0855023	0855024	
SC-42	1/8	1/8	9/16	1-1/2	A	0855028	0855030	
SC-42L2	1/8	1/8	9/16	2	A	0852997	0852998	
SC-42L3	1/8	1/8	9/16	3	A	0852999	0853000	
SC-11	1/8	1/4	1/2	2	A	0854994	0854998	
SC-52	5/32	1/8	1/2	1-1/2	A	0855036	0855044	
SC-53	3/16	1/8	1/2	1-1/2	A	0855052	0855059	
SC-14	3/16	1/4	5/8	2	A	0855012	0855013	
SC-51	1/4	1/8	1/2	2	C	0855032	0855033	
SC-1	1/4	1/4	5/8	2	A	0856078	0856079	
SC-1	1/4	1/4	3/4	2	A			0854247
SC-1A	1/4	1/4	1	2	A	0854987	0854993	
SC-1L4	1/4	1/4	1/2	4-1/2	C	0854106	0854116	
SC-1L6	1/4	1/4	1/2	6-1/2	C	0854005	0854010	
SC-2	5/16	1/4	3/4	2-3/4	C	0856080	0856081	
SC-3	3/8	1/4	3/4	2-3/4	C	0856082	0856083	0854252
SC-3A	3/8	1/4	1	3	C	0855016	0855021	
SC-3L4	3/8	1/4	3/4	4-3/4	C	0854120	0854121	
SC-3L6	3/8	1/4	3/4	6-3/4	C	0854018	0334917	
SC-4	7/16	1/4	1	3	C	0856084	0856085	
SC-5	1/2	1/4	1	3	C	0856086	0856087	0854255
SC-5L4	1/2	1/4	1	5	C	0854122	0854127	
SC-5L6	1/2	1/4	1	7	C	0854020	0854021	
SC-6	5/8	1/4	1	3	C	0856088	0856089	0854258
SC-7	3/4	1/4	1	3	C	0856090	0856091	0854260



## SD Ball-Shape Burs



## SD - Metric

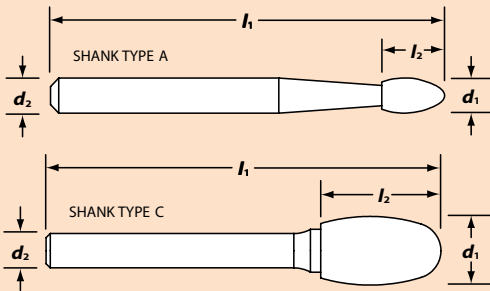
Tool Code	Cutter Dia d1	Shank Dia d2	Length of Cut l2	Overall Length l1	Shank Type	Standard Cut	Double Cut	Aluma Cut
SD-41M	2,3	3	2	38	A	0854557	0854581	
SD-42M	3	3	2	38	A	0854558	0854583	
SD-42ML2	3	3	2	50	A	0852898	0852901	
SD-42ML3	3	3	2	76	A	0852899	0852902	
SD-11M	3	6	2	50	A	0854559	0854585	
SD-53M	4,7	3	4,5	38	A	0854560	0854588	
SD-14M	4,7	6	4,5	50	A	0854574	0854608	
SD-1M	6	6	5	50	A	0855404	0855421	0852855
SD-51M	6,3	3	5	43	C	0854580	0854639	
SD-1ML4	6,3	6	5	107	C	0853057	0853063	
SD-1ML6	6,3	6	5	157	C	0853060	0853067	
SD-2M	8	6	7	50	C	0855406	0855422	
SD-3M	9,5	6	8	52	C	0855409	0855425	0852856
SD-3ML4	9,5	6	8	108	C	0853058	0853065	
SD-3ML6	9,5	6	8	161	C	0853061	0853068	
SD-4M	11	6	9,5	52	C	0855412	0855427	
SD-5M	12,7	6	11	54	C	0855414	0855429	0852857
SD-5ML4	12,7	6	11	111	C	0853059	0853066	
SD-5ML6	12,7	6	11	164	C	0853062	0853069	
SD-6M	16	6	14	58	C	0855416	0855430	0852858
SD-7M	19	6	16	60	C	0855419	0855431	0852859
SD-9M	25,4	6	24	68	C	0855420	0855435	

## SD - Inch

Tool Code	Cutter Dia d1	Shank Dia d2	Length of Cut l2	Overall Length l1	Shank Type	Standard Cut	Double Cut	Aluma Cut
SD-41	3/32	1/8	1/16	1-1/2	A	0855067	0855069	
SD-42	1/8	1/8	3/32	1-1/2	A	0855071	0855072	
SD-42L2	1/8	1/8	3/32	2	A	0853001	0853002	
SD-42L3	1/8	1/8	3/32	3	A	0853003	0853004	
SD-11	1/8	1/4	3/32	2	A	0855060	0855063	
SD-53	3/16	1/8	1/8	1-1/2	A	0855087	0855089	
SD-14	3/16	1/4	5/32	2	A	0855065	0855066	
SD-51	1/4	1/8	7/32	1-11/16	C	0855076	0855086	
SD-1	1/4	1/4	7/32	2	A	0856092	0856093	0854262
SD-1L4	1/4	1/4	7/32	4-1/8	C	0854128	0854130	
SD-1L6	1/4	1/4	7/32	6-1/8	C	0854022	0854023	
SD-2	5/16	1/4	1/4	2-1/4	C	0856094	0856095	
SD-3	3/8	1/4	5/16	2-5/16	C	0856096	0856097	0854264
SD-3L4	3/8	1/4	5/16	4-1/4	C	0854131	0854137	
SD-3L6	3/8	1/4	5/16	6-1/4	C	0854024	0854026	
SD-4	7/16	1/4	3/8	2-3/8	C	0856098	0856099	
SD-5	1/2	1/4	7/16	2-7/16	C	0856100	0856101	0854267
SD-5L4	1/2	1/4	7/16	4-3/8	C	0331953	0854140	
SD-5L6	1/2	1/4	7/16	6-3/8	C	0854027	0854028	
SD-6	5/8	1/4	9/16	2-9/16	C	0856102	0856103	0854268
SD-7	3/4	1/4	11/16	2-11/16	C	0856105	0856106	0854269
SD-9	1	1/4	15/16	2-15/16	C	0856107	0856108	

# SE

## SE Oval-Shape Burs



## SE - Metric

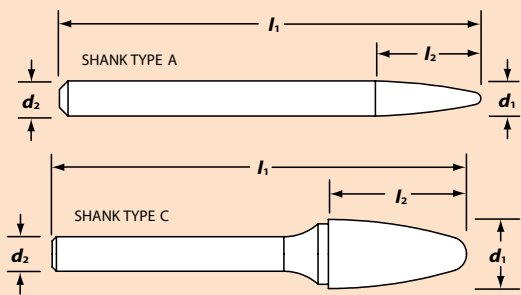
Tool Code	Cutter Dia d1	Shank Dia d2	Length of Cut l2	Overall Length l1	Shank Type	Standard Cut	Double Cut	Aluma Cut
SE-41M	3	3	5	38	A	0854709	0854714	
SE-41ML2	3	3	5	50	A	0852903	0852908	
SE-41ML3	3	3	5	76	A	0852905	0852910	
SE-53M	4,7	3	7,1	38	A	0854710	0854715	
SE-1M	6	6	10	50	A	0855436	0855441	0852860
SE-51M	6,3	3	9,5	47	C	0854713	0854716	
SE-1ML4	6,3	6	10	111	C	0853070	0853079	
SE-1ML6	6,3	6	10	163	C	0853073	0853082	
SE-3M	9,5	6	16	60	C	0855437	0855442	0852861
SE-3ML4	9,5	6	16	117	C	0853071	0853080	
SE-3ML6	9,5	6	16	168	C	0853076	0853083	
SE-5M	12,7	6	22	66	C	0855438	0855443	0852862
SE-5ML4	12,7	6	22	123	C	0853072	0853081	
SE-5ML6	12,7	6	22	177	C	0853077	0853084	
SE-6M	16	6	25	68	C	0855439	0855444	0852863
SE-7M	19	6	25	68	C	0855440	0855445	0852864

## SE - Inch

Tool Code	Cutter Dia d1	Shank Dia d2	Length of Cut l2	Overall Length l1	Shank Type	Standard Cut	Double Cut	Aluma Cut
SE-41	1/8	1/8	7/32	1-1/2	A	0855091	0855092	
SE-41L2	1/8	1/8	7/32	2	A	0853005	0853007	
SE-41L3	1/8	1/8	7/32	3	A	0853026	0853008	
SE-53	3/16	1/8	9/32	1-1/2	A	0855102	0855103	
SE-51	1/4	1/8	3/8	1-7/8	C	0855093	0855098	
SE-1	1/4	1/4	3/8	2	A	0856109	0856110	0854271
SE-1L4	1/4	1/4	3/8	4-3/8	C	0854144	0854147	
SE-1L6	1/4	1/4	3/8	6-3/8	C	0854029	0854032	
SE-3	3/8	1/4	5/8	2-5/8	C	0856111	0856112	0854272
SE-3L4	3/8	1/4	5/8	4-5/8	C	0854152	0854164	
SE-3L6	3/8	1/4	5/8	6-5/8	C	0854035	0854049	
SE-5	1/2	1/4	7/8	2-7/8	C	0856113	0856114	0854287
SE-5L4	1/2	1/4	7/8	4-7/8	C	0854165	0854166	
SE-5L6	1/2	1/4	7/8	6-7/8	C	0854394	0853892	
SE-6	5/8	1/4	1	3	C	0856115	0856116	0854290
SE-7	3/4	1/4	1	3	C	0856117	0856118	0854291

# SF

## SF Tree-Shape Radius-End Burs



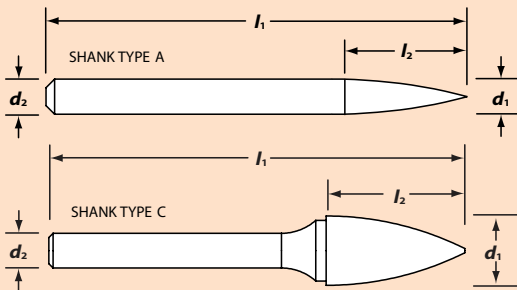
## SF - Metric

Tool Code	Cutter Dia d1	Shank Dia d2	Length of Cut l2	Overall Length l1	Shank Type	Standard Cut	Double Cut	Aluma Cut
SF-41M	3	3	6,3	38	A	0854717	0854725	
SF-42M	3	3	13	38	A	0854718	0854726	
SF-42ML2	3	3	13	50	A	0852911	0852915	
SF-42ML3	3	3	13	76	A	0852914	0852919	
SF-11M	3	6	13	50	A	0854719	0854727	
SF-53M	4,7	3	13	38	A	0854720	0854728	
SF-1M	6	6	19	50	A	0855446	0855423	0852865
SF-1ML4	6	6	13	114	C	0853086	0853092	
SF-1ML6	6	6	13	163	C	0853089	0853095	
SF-51M	6,3	3	13	50	C	0854721	0854729	
SF-3M	9,5	6	19	63	C	0855447	0855454	0852866
SF-3ML4	9,5	6	19	120	C	0853087	0853093	
SF-3ML6	9,5	6	19	171	C	0853090	0853096	
SF-4M	11	6	25	68	C	0855448	0855455	
SF-13M	12,7	6	19	63	C	0854722	0854730	
SF-5M	12,7	6	25	68	C	0855449	0855457	0852867
SF-5ML4	12,7	6	25	127	C	0853088	0853094	
SF-5ML6	12,7	6	25	177	C	0853091	0853097	
SF-6M	16	6	25	68	C	0855450	0855705	0852868
SF-7M	19	6	25	68	C	0855451	0855729	
SF-14M	19	6	32	76	C	0854723	0854731	0852833
SF-15M	19	6	38	82	C	0854724	0854732	

## SF - Inch

Tool Code	Cutter Dia d1	Shank Dia d2	Length of Cut l2	Overall Length l1	Shank Type	Standard Cut	Double Cut	Aluma Cut
SF-41	1/8	1/8	1/4	1-1/2	A	0855119	0855122	
SF-42	1/8	1/8	1/2	1-1/2	A	0855126	0855135	
SF-42L2	1/8	1/8	1/2	2	A	0853010	0853011	
SF-42L3	1/8	1/8	1/2	3	A	0853027	0852981	
SF-11	1/8	1/4	1/2	2	A	0855104	0855107	
SF-53	3/16	1/8	1/2	1-1/2	A	0855149	0855153	
SF-51	1/4	1/8	1/2	2	C	0855142	0855148	
SF-1	1/4	1/4	3/4	2	A	0856119	0856120	0854294
SF-1L4	1/4	1/4	1/2	4-1/2	C	0854167	0854170	
SF-1L6	1/4	1/4	1/2	6-1/2	C	0854050	0854051	
SF-3	3/8	1/4	3/4	2-3/4	C	0856121	0856122	0854296
SF-3L4	3/8	1/4	3/4	4-3/4	C	0854172	0854173	
SF-3L6	3/8	1/4	3/4	6-3/4	C	0854052	0854053	
SF-4	7/16	1/4	1	3	C	0856123	0856124	
SF-13	1/2	1/4	3/4	2-3/4	C	0855109	0855111	
SF-5	1/2	1/4	1	3	C	0856125	0856126	0854297
SF-5L4	1/2	1/4	1	5	C	0854174	0854178	
SF-5L6	1/2	1/4	1	7	C	0854056	0854058	
SF-6	5/8	1/4	1	3	C	0856127	0856128	0854300
SF-7	3/4	1/4	1	3	C	0856129	0856130	
SF-14	3/4	1/4	1-1/4	3-1/4	C	0855112	0855113	0854309
SF-15	3/4	1/4	1-1/2	3-1/2	C	0855114	0855115	

## SG Pointed-End Tree-Shape Burs



## SG - Metric

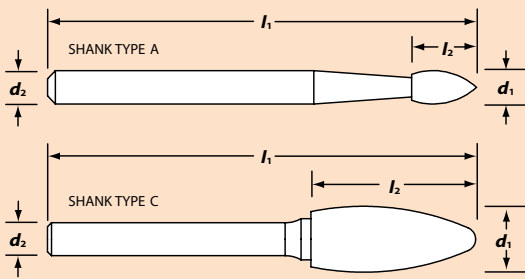
Tool Code	Cutter Dia d1	Shank Dia d2	Length of Cut l2	Overall Length l1	Shank Type	Standard Cut	Double Cut
SG-41M	3	3	6,3	38	A	0854733	0854744
SG-43M	3	3	9,5	38	A	0854738	0854745
SG-44M	3	3	13	38	A	0854739	0854746
SG-44ML2	3	3	13	50	A	0852920	0852923
SG-44ML3	3	3	13	76	A	0852922	0852924
SG-53M	4,7	3	13	38	A	0854740	0854747
SG-1M	6	6	19	50	A	0855741	0855829
SG-1ML4	6	6	13	114	C	0853098	0853104
SG-1ML6	6	6	13	163	C	0853101	0853107
SG-51M	6,3	3	13	50	C	0854741	0854748
SG-2M	8	6	19	63	C	0855748	0855730
SG-3M	9,5	6	19	63	C	0855758	0855833
SG-3ML4	9,5	6	19	120	C	0853099	0853105
SG-3ML6	9,5	6	19	171	C	0853102	0853108
SG-13M	12,7	6	19	63	C	0854742	0854749
SG-5M	12,7	6	25	68	C	0855794	0855834
SG-5ML4	12,7	6	25	127	C	0853100	0853106
SG-5ML6	12,7	6	25	177	C	0853103	0853109
SG-6M	16	6	25	68	C	0855826	0855835
SG-7M	19	6	25	68	C	0855827	0855837
SG-15M	19	6	38	82	C	0854743	0854750

## SG - Inch

Tool Code	Cutter Dia d1	Shank Dia d2	Length of Cut l2	Overall Length l1	Shank Type	Standard Cut	Double Cut
SG-41	1/8	1/8	1/4	1-1/2	A	0855161	0855162
SG-42	1/8	1/8	5/16	1-1/2	A	0855163	0855164
SG-43	1/8	1/8	3/8	1-1/2	A	0855165	0855166
SG-44	1/8	1/8	1/2	1-1/2	A	0855279	0855284
SG-44L2	1/8	1/8	1/2	2	A	0853012	0853013
SG-44L3	1/8	1/8	1/2	3	A	0853014	0853015
SG-53	3/16	1/8	1/2	1-1/2	A	0854878	0854879
SG-51	1/4	1/8	1/2	2	C	0855170	0855179
SG-1	1/4	1/4	3/4	2	A	0856131	0856132
SG-1L4	1/4	1/4	1/2	4-1/2	C	0854188	0854190
SG-1L6	1/4	1/4	1/2	6-1/2	C	0854070	0854072
SG-2	5/16	1/4	3/4	2-3/4	C	0856133	0856134
SG-3	3/8	1/4	3/4	2-3/4	C	0856135	0856136
SG-3L4	3/8	1/4	3/4	4-3/4	C	0854183	0854191
SG-3L6	3/8	1/4	3/4	6-3/4	C	0854073	0854074
SG-13	1/2	1/4	3/4	2-3/4	C	0855157	0855158
SG-5	1/2	1/4	1	3	C	0856137	0856138
SG-5L4	1/2	1/4	1	5	C	0854185	0854192
SG-5L6	1/2	1/4	1	7	C	0854410	0854395
SG-6	5/8	1/4	1	3	C	0856139	0856140
SG-7	3/4	1/4	1	3	C	0856141	0856142
SG-15	3/4	1/4	1-1/2	3-1/2	C	0855159	0855160

# SH

## SH Flame-Shape Burs



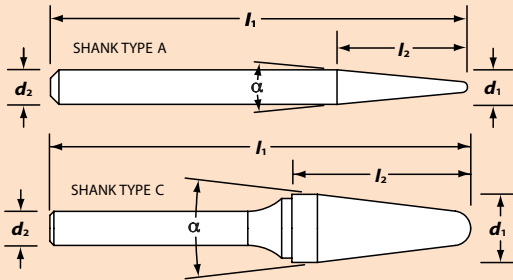
## SH - Metric

Tool Code	Cutter Dia d1	Shank Dia d2	Length of Cut l2	Overall Length l1	Shank Type	Standard Cut	Double Cut
SH-41M	3	3	6	38	A	0854751	0854753
SH-41ML2	3	3	6	50	A	0852929	0852941
SH-41ML3	3	3	6	76	A	0852930	0852945
SH-53M	4,7	3	9,5	38	A	0854752	0854754
SH-1M	6	6	16	50	A	0855838	0855843
SH-2M	8	6	19	63	C	0855839	0855844
SH-2ML4	8	6	19	120	C	0853110	0853276
SH-2ML6	8	6	19	171	C	0853121	0853278
SH-5M	12,7	6	31	75	C	0855840	0855845
SH-5ML4	12,7	6	31	132	C	0853115	0853277
SH-5ML6	12,7	6	31	183	C	0853275	0853279
SH-6M	16	6	36	79	C	0855841	0855846
SH-7M	19	6	41	84	C	0855842	0855849

## SH - Inch

Tool Code	Cutter Dia d1	Shank Dia d2	Length of Cut l2	Overall Length l1	Shank Type	Standard Cut	Double Cut
SH-41	1/8	1/8	1/4	1-1/2	A	0855184	0855192
SH-41L2	1/8	1/8	1/4	2	A	0853016	0853021
SH-41L3	1/8	1/8	1/4	3	A	0853022	0853023
SH-53	3/16	1/8	3/8	1-1/2	A	0855203	0855205
SH-1	1/4	1/4	5/8	2	A	0856143	0856144
SH-2	5/16	1/4	3/4	2-3/4	C	0856145	0856146
SH-2L4	5/16	1/4	3/4	4-3/4	C	0854206	0854199
SH-2L6	5/16	1/4	3/4	6-3/4	C	0854075	0854076
SH-5	1/2	1/4	1-1/4	3-1/4	C	0856147	0856148
SH-5L4	1/2	1/4	1-1/4	5-1/4	C	0854220	0854205
SH-5L6	1/2	1/4	1-1/4	7-1/4	C	0854077	0854080
SH-6	5/8	1/4	1-7/16	3-7/16	C	0856149	0856150
SH-7	3/4	1/4	1-5/8	3-5/8	C	0856151	0856152

## SL Taper-Shape Burs



## SL - Metric

Tool Code	Cutter Dia $d_1$	Shank Dia $d_2$	Length of Cut $l_2$	Overall Length $l_1$	Incl. Angle	Shank Type	Standard Cut	Double Cut	Aluma Cut
SL-41M	3	3	9,5	38	10°	A	0854755	0854758	
SL-42M	3	3	12	38	8°	A	0854756	0854768	
SL-42ML2	3	3	12	50	8°	A	0852947	0852951	
SL-42ML3	3	3	12	76	8°	A	0852950	0852953	
SL-53M	4,7	3	12	38	14°	A	0854757	0854769	
SL-1M	6	6	16	50	14°	A	0855853	0855861	0852869
SL-1ML4	6	6	16	117	14°	C	0853282	0853301	
SL-1ML6	6	6	16	168	14°	C	0853290	0853306	
SL-2M	8	6	22	66	14°	C	0855855	0855863	
SL-3M	9,5	6	27	71	14°	C	0855857	0855864	0852873
SL-3ML4	9,5	6	27	127	14°	C	0853284	0853302	
SL-3ML6	9,5	6	27	179	14°	C	0853299	0853307	
SL-4M	12,7	6	28	72	14°	C	0855858	0855867	0852876
SL-4ML4	12,7	6	28	129	14°	C	0853286	0853304	
SL-4ML6	12,7	6	28	180	14°	C	0853300	0853309	
SL-6M	16	6	30	76	14°	C	0855859	0855870	0852877
SL-7M	19	6	38	82	14°	C	0855860	0855874	0852878

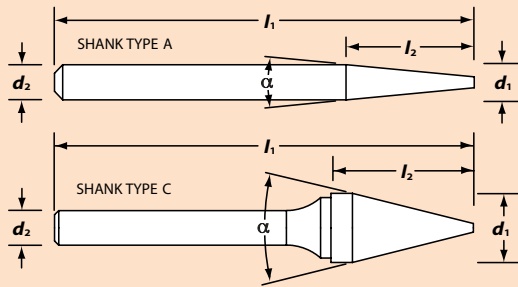
## SL - Inch

Tool Code	Cutter Dia $d_1$	Shank Dia $d_2$	Length of Cut $l_2$	Overall Length $l_1$	Incl. Angle	Shank Type	Standard Cut	Double Cut	Aluma Cut
SL-41	1/8	1/8	3/8	1-1/2	10°	A	0855212	0855214	
SL-42	1/8	1/8	1/2	1-1/2	8°	A	0855215	0855218	
SL-42L2	1/8	1/8	1/2	2	8°	A	0854211	0856157	
SL-42L3	1/8	1/8	1/2	3	8°	A	0852986	0852990	
SL-53	3/16	1/8	1/2	1-1/2	14°	A	0855223	0855227	
SL-1	1/4	1/4	5/8	2	14°	A	0856177	0856178	0854311
SL-1L4	1/4	1/4	5/8	4-5/8	14°	C	0854221	0854222	
SL-1L6	1/4	1/4	5/8	6-5/8	14°	C	0853909	0853914	
SL-2	5/16	1/4	7/8	2-7/8	14°	C	0856179	0856180	
SL-3	3/8	1/4	1-1/16	3-1/16	14°	C	0856181	0856182	0854312
SL-3L4	3/8	1/4	1-1/16	5	14°	C	0854223	0854224	
SL-3L6	3/8	1/4	1-1/16	7	14°	C	0853947	0853948	
SL-4	1/2	1/4	1-1/8	3-1/8	14°	C	0856183	0856184	0854316
SL-4L4	1/2	1/4	1-1/8	5-1/8	14°	C	0854225	0854231	
SL-4L6	1/2	1/4	1-1/8	7-1/8	14°	C	0854404	0853974	
SL-6	5/8	1/4	1-5/16	3-5/16	14°	C	0856185	0856186	0854340
SL-7	3/4	1/4	1-1/2	3-1/2	14°	C	0856187	0856188	0854346



# SM

## SM Cone-Shape Burs



## SM - Metric

Tool Code	Cutter Dia d1	Shank Dia d2	Length of Cut l2	Overall Length l1	Incl. Angle	Shank Type	Standard Cut	Double Cut
SM-41M	3	3	8,7	38	12°	A	0854774	0854790
SM-42M	3	3	11	38	14°	A	0854775	0854793
SM-43M	3	3	16	38	7°	A	0854781	0854797
SM-53M	4,7	3	12,7	38	16°	A	0854782	0854800
SM-1M	6	6	12,7	50	22°	A	0855876	0855888
SM-2M	6	6	18	50	14°	A	0855878	0855889
SM-3M	6	6	25	50	10°	A	0855879	0855890
SM-51M	6,3	3	12,7	50	22°	C	0854786	0854801
SM-4M	9,5	6	16	60	28°	C	0855880	0855891
SM-5M	12,7	6	22	66	28°	C	0855881	0855892
SM-6M	16	6	25	68	31°	C	0855882	0855893

## SM - Inch

Tool Code	Cutter Dia d1	Shank Dia d2	Length of Cut l2	Overall Length l1	Incl. Angle	Shank Type	Standard Cut	Double Cut
SM-41	1/8	1/8	11/32	1-1/2	12°	A	0855229	0855230
SM-42	1/8	1/8	7/16	1-1/2	14°	A	0855231	0855235
SM-43	1/8	1/8	5/8	1-1/2	7°	A	0855239	0855240
SM-53	3/16	1/8	1/2	1-1/2	16°	A	0855250	0855253
SM-51	1/4	1/8	1/2	2	22°	C	0855241	0855243
SM-1	1/4	1/4	1/2	2	22°	A	0856189	0856190
SM-2	1/4	1/4	3/4	2	14°	A	0856191	0856192
SM-3	1/4	1/4	1	2	10°	A	0856193	0856194
SM-4	3/8	1/4	5/8	2-5/8	28°	C	0856195	0856196
SM-5	1/2	1/4	7/8	2-7/8	28°	C	0856197	0856198
SM-6	5/8	1/4	1	3	31°	C	0856199	0856200

## SJ Cone-Shape Countersink Burs

### 60°

Often called multi-flute countersinks, use these tools for improved finishes and closer tolerance countersinking in general-purpose operations. May be used in high-production equipment.



SJ Standard Cut



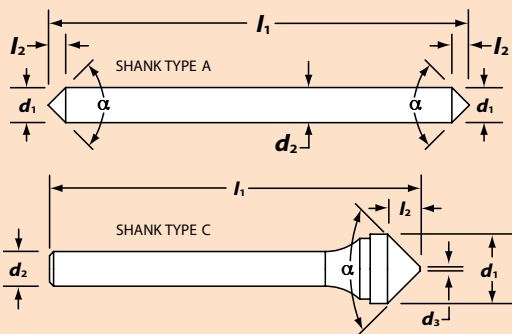
SJ Double Cut

### SJ 60° - Metric

Tool Code	Cutter Dia d1	Shank Dia d2	Length of Cut l2	Overall Length l1	Max Tip d3	Shank Type	Standard Cut	Double Cut
SJ-42M	3	3	2	38	To Point	A	0854802	0854806
SJ-1M	6	6	5	50	To Point	A	0855894	0855907
SJ-3M	9,5	6	8	55	1	C	0855895	0855908
SJ-5M	12,7	6	11	58	1	C	0855896	0855909
SJ-6M	16	6	14	60	1,5	C	0855897	0855910
SJ-7M	19	6	16	64	1,5	C	0855898	0855911
SJ-9M	25,4	6	23	68	3	C	0855899	0855912

### SJ 60° - Inch

Tool Code	Cutter Dia d1	Shank Dia d2	Length of Cut l2	Overall Length l1	Max Tip d3	Shank Type	Standard Cut	Double Cut
SJ-42	1/8	1/8	3/32	1-1/2	To Point	A	0855207	0855208
SJ-1	1/4	1/4	3/16	2	To Point	A	0856153	0856154
SJ-3	3/8	1/4	5/16	2-7/16	1/32	C	0856155	0856156
SJ-5	1/2	1/4	7/16	2-9/16	1/32	C	0856157	0856158
SJ-6	5/8	1/4	9/16	2-11/16	1/16	C	0856159	0856160
SJ-7	3/4	1/4	11/16	2-13/16	1/16	C	0856161	0856162
SJ-9	1	1/4	15/16	2-15/16	1/8	C	0856163	0856164



# ST/SK

## ST/SK Cone-Shape Countersink Burs

### ST-82° SK-90°

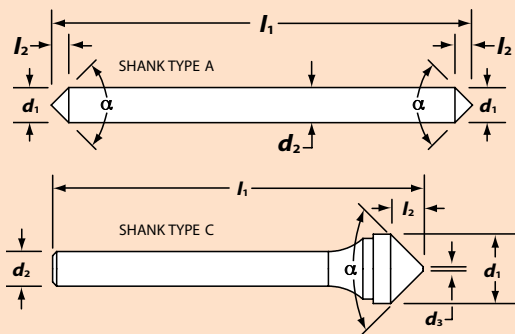
Often called multi-flute countersinks, use these tools for improved finishes and closer tolerance countersinking in general-purpose operations. May be used in high-production equipment.



ST/SK Standard Cut



ST/SK Double Cut



## SK 90° - Metric

Tool Code	Cutter Dia d1	Shank Dia d2	Length of Cut l2	Overall Length l1	Max Tip d3	Shank Type	Standard Cut	Double Cut
SK-42M	3	3	1,5	38	To Point	A	0854805	0854807
SK-1M	6	6	3	50	To Point	A	0855900	0855913
SK-3M	9,5	6	4,7	52	1	C	0855901	0855914
SK-5M	12,7	6	6,3	52	1	C	0855903	0855915
SK-6M	16	6	8	56	1,5	C	0855904	0855916
SK-7M	19	6	9	58	1,5	C	0855905	0855917
SK-9M	25,4	6	12,7	60	3	C	0855906	0855918

## SK 90° - Inch

Tool Code	Cutter Dia d1	Shank Dia d2	Length of Cut l2	Overall Length l1	Max Tip d3	Shank Type	Standard Cut	Double Cut
SK-42	1/8	1/8	1/16	1-1/2	To Point	A	0855209	0855210
SK-1	1/4	1/4	1/8	2	To Point	A	0856165	0856166
SK-3	3/8	1/4	3/16	2-5/16	1/32	C	0856167	0856168
SK-5	1/2	1/4	1/4	2-3/8	1/32	C	0856169	0856170
SK-6	5/8	1/4	5/16	2-1/2	1/16	C	0856171	0856172
SK-7	3/4	1/4	3/8	2-9/16	1/16	C	0856173	0856174
SK-9	1	1/4	1/2	2-11/16	1/8	C	0856175	0856175

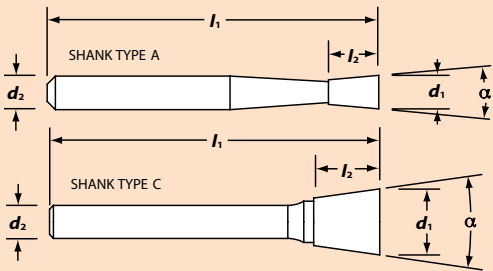
## RESTORING BURS SAVES MONEY.

We will sharpen or recondition any carbide bur that still shows some tool life. Reconditioning is needed when burs require more than simple sharpening. Send us your burs for an evaluation today.

## ST 82° - Inch

Tool Code	Cutter Dia d1	Shank Dia d2	Length of Cut l2	Overall Length l1	Max Tip d3	Shank Type	Standard Cut	Double Cut
ST-42	1/8	1/8	1/16	1-1/2	To Point	A	0855281	0855283
ST-1	1/4	1/4	1/8	2	To Point	A	0856216	0856217
ST-3	3/8	1/4	3/16	2-5/16	1/32	C	0856218	0856219
ST-5	1/2	1/4	1/4	2-3/8	1/32	C	0856220	0856221
ST-6	5/8	1/4	5/16	2-1/2	1/16	C	0856222	0856223
ST-7	3/4	1/4	3/8	2-9/16	1/16	C	0856224	0856225
ST-9	1	1/4	1/2	2-11/16	1/8	C	0856226	0856227

## SN Inverted Cone-Shape Burs



## SN - Metric

Tool Code	Cutter Dia d1	Shank Dia d2	Length of Cut l2	Overall Length l1	Incl. Angle	Shank Type	Standard Cut	Double Cut
SN-41M	2,3	3	3	38	10°	A	0854808	0854838
SN-42M	3	3	5	38	10°	A	0854809	0854840
SN-53M	4,7	3	6,3	38	10°	A	0854811	0854844
SN-1M	6	6	8	50	10°	A	0855919	0855925
SN-51M	6,3	3	6,3	44	10°	C	0854814	0854846
SN-2M	9,5	6	9,5	52	13°	C	0855920	0855926
SN-3M	12,7	6	12,7	56	16°	C	0855921	0855927
SN-4M	12,7	6	12,7	56	28°	C	0855922	0855928
SN-5M	16	6	16	60	19°	C	0855923	0855929
SN-6M	16	6	19	63	18°	C	0855932	0855930
SN-8M	19	6	19	63	21°	C	0855924	0855931

## SN - Inch

Tool Code	Cutter Dia d1	Shank Dia d2	Length of Cut l2	Overall Length l1	Incl. Angle	Shank Type	Standard Cut	Double Cut
SN-41	3/32	1/8	1/8	1-1/2	10°	A	0855254	0855255
SN-42	1/8	1/8	3/16	1-1/2	10°	A	0855271	0855273
SN-53	3/16	1/8	1/4	1-1/2	10°	A	0855277	0855278
SN-51	1/4	1/8	1/4	1-3/4	10°	C	0855275	0855276
SN-1	1/4	1/4	5/16	2	10°	A	0856201	0856202
SN-2	3/8	1/4	3/8	2-3/8	13°	C	0856203	0856204
SN-3	1/2	1/4	1/2	2-1/2	16°	C	0856205	0856208
SN-4	1/2	1/4	1/2	2-1/2	28°	C	0856208	0856207
SN-5	5/8	1/4	5/8	2-5/8	19°	C	0856211	0856212
SN-6	5/8	1/4	3/4	2-3/4	18°	C	0856209	0856210
SN-8	3/4	1/4	3/4	2-3/4	21°	C	0856213	0856214

## Sectional Fluting

IMCO burs are CNC manufactured to exacting standards using a technique called sectional fluting. This method allows the burs to cut on the radius as well as the body of the tool. IMCO carbide burs last many times longer than their HSS counterparts at a comparable cost.

Select the shape which conforms to your workpiece. Maximize the area of contact between the tool and material. Having more of the cutting edge engaged in the material will improve the part finish.



# BUR SETS

## Bur Sets

Convenient sets with varying assortments of our most popular burs. Double Cut and Standard Cut sets available.



Set #2



Set #1



Set #6

## Bur Sets - Metric

Tool Code	Shank Dia d2	No. of Pieces	Bur Set Contents	Standard Cut	Double Cut
Set #1M	3	12	SA-42M,SA-43M,SC-41M,SC-42M,SD-42M,SE-41M,SF-42M,SG-44M,SH-41M,SL-42M,SM-42M,SN-42M	0853346	0853348
Set #2M	3	9	SA-51M,SB-50M,SC-51M,SD-51M,SE-51M,SF-51M,SG-51M,SM-51M,SN-51M	0853350	0853354
Set #4M	6	12	SA-1M,SA-14M,SC-14M,SC-1M,SD-14M,SD-1M,SE-1M,SF-1M,SG-1M,SM-2M,SN-1M	0853362	0853365
Set #5M	6	8	SA-1M,SC-1M,SD-1M,SE-1M,SF-1M,SG-1M,SL-1M,SM-2M	0853356	0853367
Set #6M	6	8	SA-5M,SC-3M,SC-5M,SD-5M,SF-3M,SF-5M,SG-3M,SL-4M	0853355	0853361
Set #7M	6	9	SA-1M,SA-3M,SA-5M,SC-1M,SC-3M,SC-5M,SF-1M,SF-3M,SF-5M	0853370	0853371
Set #9M	3	9	SA-43M,SC-42M,SD-42M,SE-41M,SF-42M,SH-41M,SL-42M,SM-43M,SN-42M	0853372	0853373

## Bur Sets - Inch

Tool Code	Shank Dia d2	No. of Pieces	Bur Set Contents	Standard Cut	Double Cut
Set #1	1/8	12	SA-42, SA-43, SC-41, SC-42, SD-42, SE-41, SF-42, SG-44, SH-41, SL-42, SM-43, SN-42	0855940	0855941
Set #2	1/8	9	SA-51, SA-50, SC-51, SD-51, SE-51, SF-51, SG-51, SM-51, SN-51	0855942	0855943
Set #4	1/4	12	SA-1, SA-14, SC-14, SC-1, SD-14, SD-1, SE-1, SF-1, SG-1, SM-2, SN-1	0855944	0855945
Set #5	1/4	8	SA-1, SC-1, SD-1, SE-1, SF-1, SG-1, SL-1, SM-2	0855950	0855951
Set #6	1/4	8	SA-5, SC-3, SC-5, SD-5, SF-3, SF-5, SG-3, SL-4	0855954	0855956
Set #7	1/4	9	SA-1, SA-3, SA-5, SC-1, SC-3, SC-5, SF-1, SF-3, SF-5	0855946	0855947
Set #9	1/8	9	SA-43, SC-42, SD-42, SE-41, SF-42, SH-41, SL-42, SM-43, SN-42	0855948	0855949

# PDT10

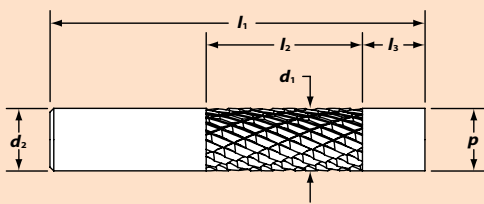
## Piloted Die Trimmer

For die repair using hand-held grinders. Double Cut style only.

- Smooths out and blends the weld or filler metal used when repairing dies.
- The Double Cut style offers a great combination of high material removal and a good finish.
- The pilot on the die trimmer stabilizes the router and the die grinder, allowing for more accurate shaping and finishing of repair spots.
- The pilot keeps the tool from scoring the surface of the die during use. It prevents the tool's cutting edges from making contact with the die surface – cutting only the filler material.
- Double Cut available from stock. Other cut styles available upon request.



PDT10



in  $d_1 + 0 / -.005$   $d_2 + 0 / -.0005$   $p + 0 / -.0005$

## PDT10 - Inch

Cutter Dia d1	Pilot Dia p	Shank Dia d2	Length of Cut l2	Pilot Length l1	Overall Length l1	EDP Number
1/8	1/8	1/8	1	1/2	2-1/2	0332011
3/16	3/16	3/16	1	1/2	2-1/2	0852721
1/4	1/4	1/4	1	1/2	2-1/2	0332010
3/8	3/8	3/8	1	1/2	2-1/2	0332011
1/2	1/2	1/2	1	1/2	2-1/2	0332012

## DIE TRIMMER VARIATIONS

IMCO recognizes that all dies and their applications are unique – so they require unique tools to repair them and extend their life.

Many variations of the die trimmer are possible. Custom lengths, tool diameters, cut styles, and pilot dimensions are readily available. Contact IMCO for quotations or advice for tooling for your specific application.

# ROUTERS

## FR10 Fiberglass Router Features

Diamond Cut pattern allows for more aggressive material removal than Double Cut routers.

The up-cut geometry of the FR10 router pulls the work piece tightly against the template for clean, smooth cuts. *Allows for the routing of stacked parts.*

## DID YOU KNOW?

IMCO routers are often used by companies in these industries:

- Aerospace
- Recreational vehicles
- Trucking
- Pickup cabs manufacturing
- Watercraft manufacturing and repair
- Snowcraft manufacturing and repair



The FR10 is available with a variety of **end-cut options:**



### Plain End

**Plain end** – Also called “safe end” tools. Use for edge routing or when the end of the router will not come in contact with the work piece.



### Bur End Cut

**Bur end cut** – Use for bottom cutting to leave a smooth, even surface with a square corner.



### End Mill End

**End mill end cut** – Use for bottom cutting for a smooth bottom surface with a square corner.



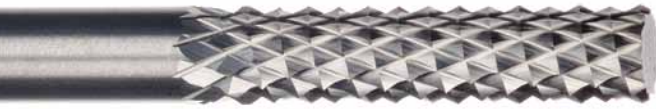
### Drill Point End Cut

**135° drill point end** – Use before the routing operation to plunge through the work piece. **NOTE:** Take special care while plunging that the router end does not come in contact with the work-holding apparatus.

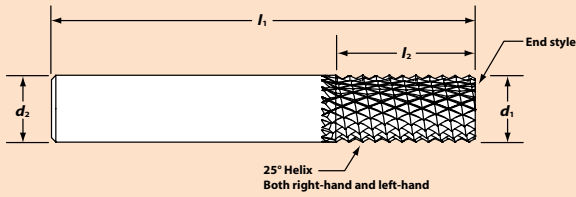


# FR10


## FR10 Fiberglass Routers




FR10



Plain End 

End Mill End Cut 

Bur End Cut 

135° Drill Point End 

in  $d_1 +0/-0.005$   $d_2 +0/-0.0005$

mm  $d_1 +0/-0.127$   $d_2 +0/-0.0127$

### FR10 - Metric

Tool Code	Cutter Dia d1	Shank Dia d2	Length of Cut I2	Overall Length I1	Plain End	Bur End	End Mill End	Drill Point End
MFR-2	3	3	12	38	0852700	0852703	0852710	0852711
MFR-3	4	4	16	50	0852712	0852679	0852713	0852714
MFR-6	6	6	25	63	0852715	0852686	0852716	0852717
MFR-6-1	6	6	25	76	0852617	0852616	0852618	0852619
MFR-7	8	8	25	63	0852718	0852824	0852719	0852720
MFR-8	10	10	25	70	0852620	0852697	0852621	0852622
MFR-9	12	12	25	76	0852623	0852624	0852625	0852626

### FR10 - Inch

Tool Code	Cutter Dia d1	Shank Dia d2	Length of Cut I2	Overall Length I1	Plain End	Bur End	End Mill End	Drill Point End
FR-2	1/8	1/8	1/2	1-1/2	0852795	0852797	0852806	0852807
FR-3	3/16	3/16	5/8	2	0852680	0852681	0852682	0852685
FR-5	1/4	1/4	3/4	2	0852808	0852809	0852810	0852813
FR-6	1/4	1/4	1	2-1/2	0852814	0852816	0852817	0852819
FR-6-1	1/4	1/4	1	3	0852612	0852613	0852614	0852615
FR-7	5/16	5/16	1	2-1/2	0852691	0852692	0852694	0852695
FR-8	3/8	3/8	1	2-1/2	0852820	0852821	0852822	0852823
FR-9	1/2	1/2	1	3	0852825	0852826	0852827	0852828

### Router Application Guide • Speed & Feed

Tool Dia. Metric	Speed (MPM)		Feed Rate IPR
	Min.	Max	
2	183	274	.051
3	183	274	.051
4	183	274	.051
6	183	274	.051
8	183	274	.051
10	183	274	.051
12	183	274	.051

**Cut time on the job with time-tested tools from IMCO.**

See a video of these IMCO tools in action at:

**[www.imcousa.com/tools/burs](http://www.imcousa.com/tools/burs)**

Test them for yourself with a free tool test. To order, or for more information:

In USA call **1-800-765-4626**

International **419-661-6313**

Fax **419-661-6314**



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