

CARBIDE BURRS



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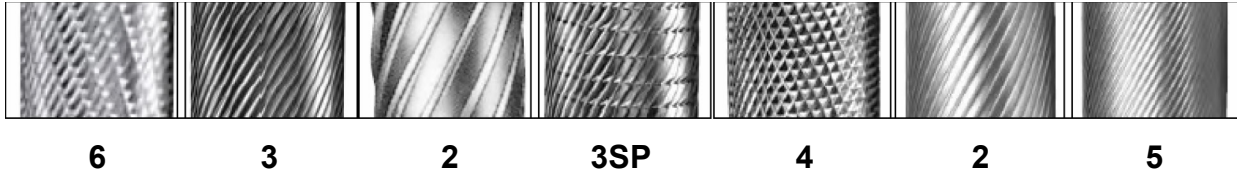
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www.sabretools.com

SABRE AIRCRAFT TOOLS

Carbide Burrs

Cut type selection guide and application



Basic Fluting Styles for Carbide Burrs

6 – Double Cut: Very efficient stock removal. Creates a small chip. Good finish. Excellent operator control.

3 – Single Cut: General purpose materials. Produces long chips.

1 – Nonferrous: For nonferrous materials. Aggressive stock removal.

3SP – Chip Breaker: Provides breakdown in chips. Better control.

4 – Diamond Cut: For heat treated and tough alloy steels where control is important. Creates a powder-like chip. Excellent finish.

2 – Coarse Cut: Provides large flute area for softer ferrous materials. Fast stock removal.

5 – Fine Cut: For general use on hard materials requiring a fine finish.

Material	6	3	1	3SP	4	2	5
Aluminum			✓				
Brass, Bronze Copper	✓			✓		✓	
Carbon Fiber		✓				✓	
Fiberglass					✓		
Cast Iron	✓	✓		✓			
Plastics			✓			✓	
Hard Rubber						✓	
Steel, 40-55 Rc	✓	✓		✓	✓		✓
Steel, 55-60 Rc	✓	✓		✓	✓		✓
Steel, Carbon	✓	✓		✓			
Steel, Nickel Chrome	✓	✓		✓	✓		
Steel, Stainless	✓	✓		✓			✓
Steel, Weldments	✓	✓		✓			
Titanium	✓	✓		✓			
Zinc			✓				

Safety Precaution: Read and follow all safety and operating instructions.

WARNING: Face and eye protections must be worn while operating power tools, per ANSI B186.1

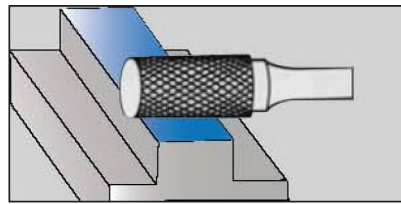
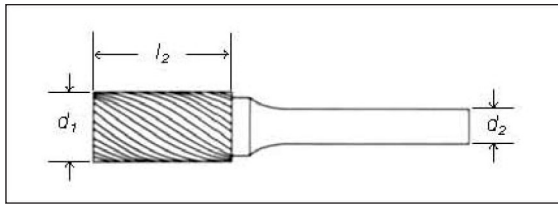
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SA Series – Cylinder Shape Burrs (No End Cut)



Tool Number	Cut Diameter	Cut Length	Shank Diameter	Overall Length	Single Cut Part Number	Double Cut Part Number	Diamond Cut Part Number
SA-11	1/8	1/2	1/4	2	SA44001	SA44002	SA44003
SA-14	3/16	5/8	1/4	2	SA44021	SA44022	SA44023
SA-1	1/4	5/8	1/4	2	SA44031	SA44032	SA44033
SA-2	5/16	3/4	1/4	2 1/2	SA44041	SA44042	SA44033
SA-3	3/8	3/4	1/4	2 1/2	SA44061	SA44062	SA44063
SA-4	7/16	1	1/4	2 3/4	SA44091	SA44092	SA44093
SA-5	1/2	1	1/4	2 3/4	SA44101	SA44102	SA44103
SA-6	5/8	1	1/4	2 3/4	SA44111	SA44112	SA44113
SA-15	3/4	1/2	1/4	2 1/4	SA44131	SA44132	SA44133
SA-16	3/4	3/4	1/4	2 1/2	SA44141	SA44142	SA44143
SA-7	3/4	1	1/4	2 3/4	SA44121	SA44122	SA44123
SA-9	1	1	1/4	2 3/4	SA44161	SA44162	SA44163



Double Cut



Single Cut

All cuts and styles available upon request.

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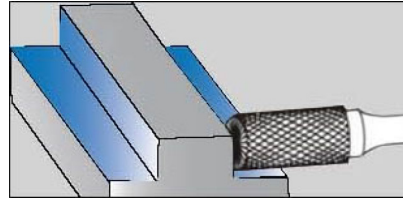
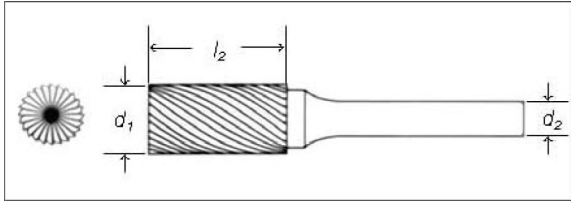
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SB Series – Cylinder Shape Burrs (With End Cut)



Tool Number	Cut Diameter	Cut Length	Shank Diameter	Overall Length	Single Cut Part Number	Double Cut Part Number	Diamond Cut Part Number
SB-11	1/8	1/2	1/4	2	SA44171	SA44172	SA44173
SB-14	3/16	5/8	1/4	2	SA44201	SA44202	SA44203
SB-1	1/4	5/8	1/4	2	SA44211	SA44212	SA44213
SB-2	5/16	3/4	1/4	2 1/2	SA44231	SA44232	SA44233
SB-3	3/8	3/4	1/4	2 1/2	SA44241	SA44242	SA44243
SB-4	7/16	1	1/4	2 3/4	SA44271	SA44272	SA44273
SB-5	1/2	1	1/4	2 3/4	SA44281	SA44282	SA44283
SB-6	5/8	1	1/4	2 3/4	SA44291	SA44292	SA44293
SB-15	3/4	1/2	1/4	2 1/4	SA44311	SA44312	SA44313
SB-16	3/4	3/4	1/4	2 1/2	SA44321	SA44322	SA44323
SB-7	3/4	1	1/4	2 3/4	SA44301	SA44302	SA44303
SB-9	1	1	1/4	2 3/4	SA44341	SA44342	SA44343



Double Cut



Single Cut

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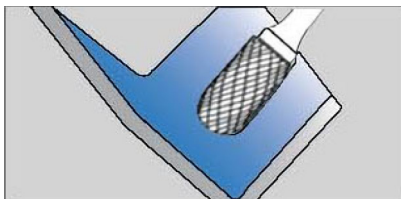
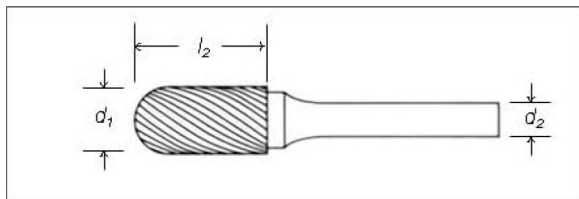
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SC Series – Cylinder Shape Burrs (With Radius End)



Tool Number	Cut Diameter	Cut Length	Shank Diameter	Overall Length	Single Cut Part Number	Double Cut Part Number	Diamond Cut Part Number
SC-11	1/8	1/2	1/4	2	SA44351	SA44352	SA44353
SC-12	1/8	5/8	1/4	2	SA44361	SA44362	SA44363
SC-14	3/16	5/8	1/4	2	SA44381	SA44382	SA44383
SC-1	1/4	5/8	1/4	2	SA44391	SA44392	SA44393
SC-2	5/16	3/4	1/4	2 1/2	SA44411	SA44412	SA44413
SC-3	3/8	3/4	1/4	2 1/2	SA44421	SA44422	SA44423
SC-4	7/16	1	1/4	2 3/4	SA44451	SA44452	SA44453
SC-5	1/2	1	1/4	2 3/4	SA44461	SA44462	SA44463
SC-6	5/8	1	1/4	2 3/4	SA44471	SA44472	SA44473
SC-7	3/4	1	1/4	2 3/4	SA44481	SA44482	SA44483
SC-9	1	1	1/4	2 3/4	SA44511	SA44512	SA44513



Double Cut



Single Cut

Safety Precaution: Read and follow all safety and operating instructions.

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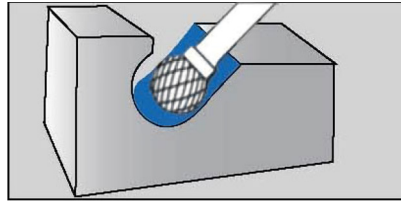
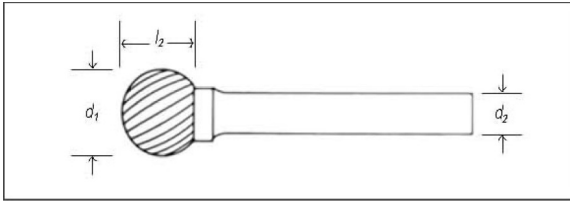
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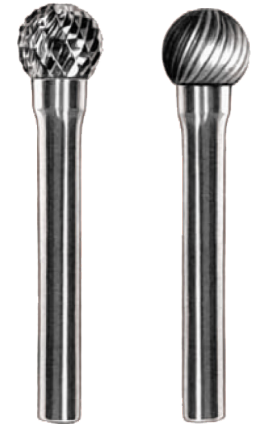


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SD Series – Ball Shape Burrs

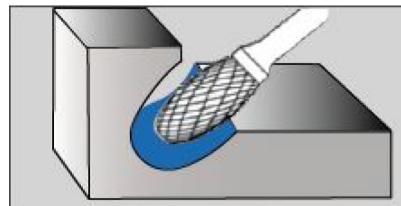
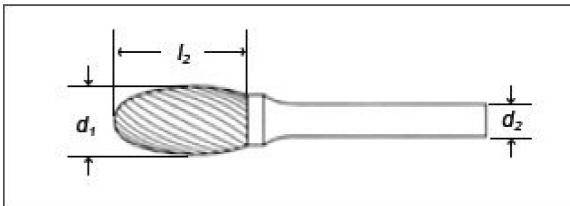


Tool Number	Cut Diameter	Cut Length	Shank Diameter	Overall Length	Single Cut Part Number	Double Cut Part Number	Diamond Cut Part Number
SD-11	1/8	3/32	1/4	2	SA44521	SA44522	SA44523
SD-14	3/16	1/8	1/4	2	SA44531	SA44532	SA44533
SD-1	1/4	7/32	1/4	2	SA44541	SA44542	SA44543
SD-2	5/16	1/4	1/4	2 1/16	SA44551	SA44552	SA44553
SD-3	3/8	5/16	1/4	2 11/16	SA44561	SA44562	SA44563
SD-4	7/16	3/8	1/4	2 1/8	SA44571	SA44572	SA44573
SD-5	1/2	7/16	1/4	2 3/16	SA44581	SA44582	SA44583
SD-6	5/8	9/16	1/4	2 5/16	SA44591	SA44592	SA44593
SD-7	3/4	11/16	1/4	2 7/16	SA44601	SA44602	SA44603
SD-9	1	15/16	1/4	2 11/16	SA44611	SA44612	SA44613



Double Cut Single Cut

SE Series – Oval Shape Burs



Tool Number	Cut Diameter	Cut Length	Shank Diameter	Overall Length	Single Cut Part Number	Double Cut Part Number	Diamond Cut Part Number
SE-1	1/4	3/8	1/4	2	SA44631	SA44632	SA44633
SE-3	3/8	5/8	1/4	2 11/32	SA44641	SA44642	SA44643
SE-5	1/2	7/8	1/4	2 5/8	SA44651	SA44652	SA44653
SE-6	5/8	1	1/4	2 3/4	SA44661	SA44662	SA44663



Double Cut Single Cut

Safety Precaution: Read and follow all safety and operating instructions.

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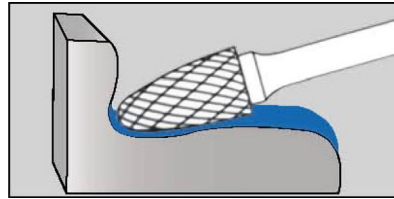
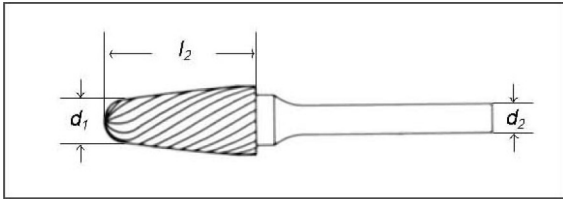
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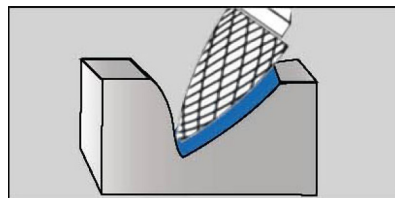
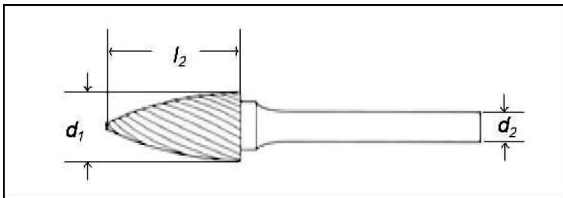
SF Series – Tree Shape Burrs



Double Cut Single Cut

Tool Number	Cut Diameter	Cut Length	Shank Diameter	Overall Length	Single Cut Part Number	Double Cut Part Number	Diamond Cut Part Number
SF-1	1/4	3/4	1/4	2	SA44691	SA44692	SA44693
SF-3	3/8	3/4	1/4	2 1/2	SA44701	SA44702	SA44703
SF-4	7/16	1	1/4	2 3/4	SA44711	SA44712	SA44713
SF-13	1/2	3/4	1/4	2 1/2	SA44731	SA44732	SA44733
SF-5	1/2	1	1/4	2 3/4	SA44721	SA44722	SA44723
SF-6	5/8	1	1/4	2 3/4	SA44741	SA44742	SA44743
SF-7	3/4	1	3/8	2 3/4	SA44751	SA44752	SA44753
SF-14	3/4	1 1/4	1/4	3	SA44761	SA44762	SA44763
SF-15	3/4	1 1/2	1/4	3 1/4	SA44771	SA44772	SA44773

SG Series - Tree Shape Pointed End Burs



Double Cut Single Cut

Tool Number	Cut Diameter	Cut Length	Shank Diameter	Overall Length	Single Cut Part Number	Double Cut Part Number	Diamond Cut Part Number
SG-1	1/4	5/8	1/4	1 15/16	SA44781	SA44782	SA44783
SG-2	5/16	3/4	1/4	2 1/2	SA44791	SA44792	SA44793
SG-3	3/8	3/4	1/4	2 1/2	SA44801	SA44802	SA44803
SG-13	1/2	3/4	1/4	2 1/2	SA44821	SA44822	SA44823
SG-5	1/2	1	1/4	2 3/4	SA44811	SA44812	SA44813
SG-6	5/8	1	1/4	2 3/4	SA44831	SA44832	SA44833

Safety Precaution: Read and follow all safety and operating instructions.

WARNING: Face and eye protections must be worn while operating power tools, per ANSI B186.1

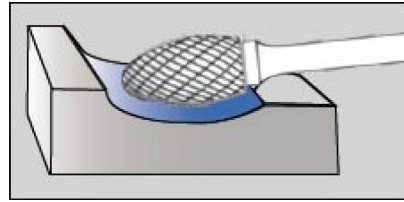
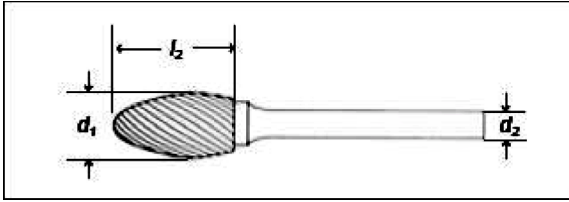
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SH Series – Flame Shape Burrs

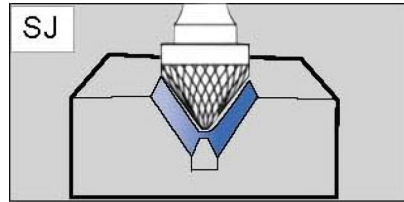
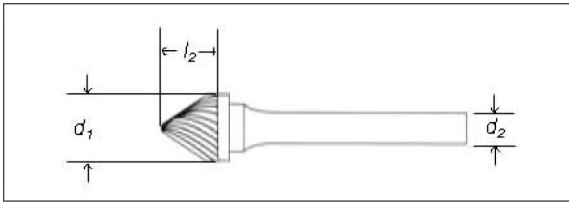


Tool Number	Cut Diameter	Cut Length	Shank Diameter	Overall Length	Single Cut Part Number	Double Cut Part Number	Diamond Cut Part Number
SH-1	1/4	5/8	1/4	2	SA44861	SA44862	SA44863
SH-2	5/16	3/4	1/4	2 1/2	SA44871	SA44872	SA44873
SH-5	1/2	1 1/4	1/4	3	SA44881	SA44882	SA44883
SH-6	5/8	1 7/16	1/4	3 3/16	SA44891	SA44892	SA44893
SH-7	3/4	1 5/8	1/4	3 3/8	SA45001	SA45002	SA45003



Double Cut Single Cut

SJ Series - 60° Cone Shape Burrs



Tool Number	Cut Diameter	Cut Length	Shank Diameter	Overall Length	Single Cut Part Number	Double Cut Part Number	Diamond Cut Part Number
SJ-1	1/4	3/16	1/4	2	SA45011	SA45012	SA45013
SJ-3	3/8	5/16	1/4	2 1/16	SA45021	SA45022	SA45023
SJ-5	1/2	7/16	1/4	2 3/16	SA45031	SA45032	SA45033
SJ-6	5/8	9/16	1/4	2 5/16	SA45041	SA45042	SA45043



Double Cut Single Cut

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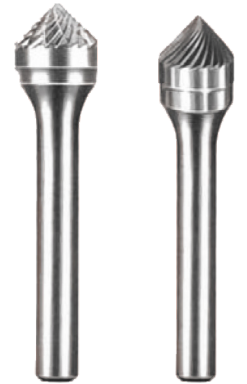
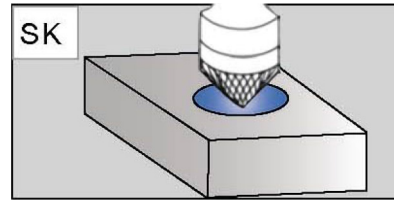
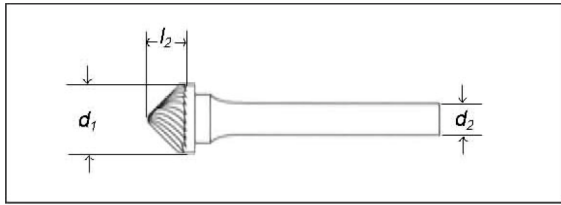
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SK Series – 90° Cone Shape Burrs

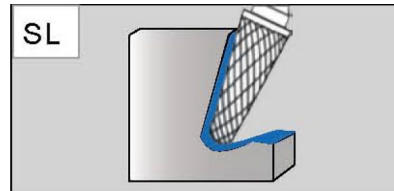
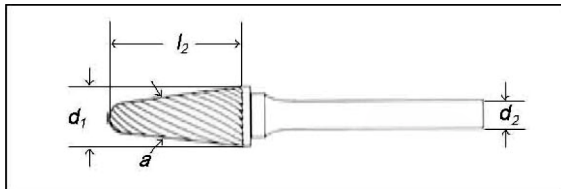


Double Cut

Single Cut

Tool Number	Cut Diameter	Cut Length	Shank Diameter	Overall Length	Single Cut Part Number	Double Cut Part Number	Diamond Cut Part Number
SK-1	1/4	1/8	1/4	2	SA45071	SA45072	SA45073
SK-3	3/8	3/16	1/4	1 15/16	SA45081	SA45082	SA45083
SK-5	1/2	1/4	1/4	2	SA45091	SA45092	SA45093
SK-6	5/8	5/16	1/4	2 1/16	SA45101	SA45102	SA45103
SK-9	1	1/2	3/8	2 1/4	SA45121	SA45122	SA45123

SL Series - Taper Shape Burrs



Double Cut

Single Cut

SA45181	Cut Diameter	Cut Length	Shank Diameter	Overall Length	Single Cut Part Number	Double Cut Part Number	Diamond Cut Part Number
SL-1	1/4	5/8	1/4	2	SA45131	SA45132	SA45133
SL-2	5/16	7/8	1/4	2 5/8	SA45141	SA45142	SA45143
SL-3	3/8	1 1/16	1/4	2 13/16	SA45151	SA45152	SA45153
SL-4	1/2	1 1/8	1/4	2 7/8	SA45161	SA45162	SA45163
SL-6	5/8	1 5/16	1/4	3 1/16	SA45181	SA45182	SA45183
SL-7	3/4	1 1/2	1/4	3 1/4	SA45191	SA45192	SA45193

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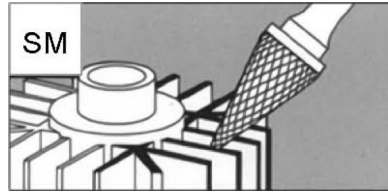
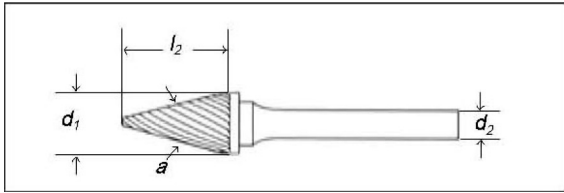
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SM Series – Cone Shape Burrs



Tool Number	Cut Diameter	Cut Length	Shank Diameter	Overall Length	Single Cut Part Number	Double Cut Part Number	Diamond Cut Part Number
SM-1	1/4	1/2	1/4	2	SA45201	SA45202	SA45203
SM-2	1/4	3/4	1/4	2	SA45211	SA45212	SA45213
SM-3	1/4	1	1/4	2	SA45221	SA45222	SA45223
SM-4	3/8	5/8	1/4	2 1/2	SA45231	SA45232	SA45233
SM-5	1/2	7/8	1/4	2 3/4	SA45241	SA45242	SA45243
SM-6	5/8	1	1/4	2 7/8	SA45251	SA45252	SA45253



Double Cut

Single Cut

SN Series - Inverted Cone Shape Burs

Tool Number	Cut Diameter	Cut Length	Shank Diameter	Overall Length	Single Cut Part Number	Double Cut Part Number	Diamond Cut Part Number
SN-1	1/4	5/16	1/4	2	SA45261	SA45262	SA45263
SN-4	1/2	1/2	1/4	2 1/2	SA45281	SA45282	SA45283
SN-7	3/4	5/8	1/4	2 5/8	SA45301	SA45302	SA45303



Double Cut

Single Cut

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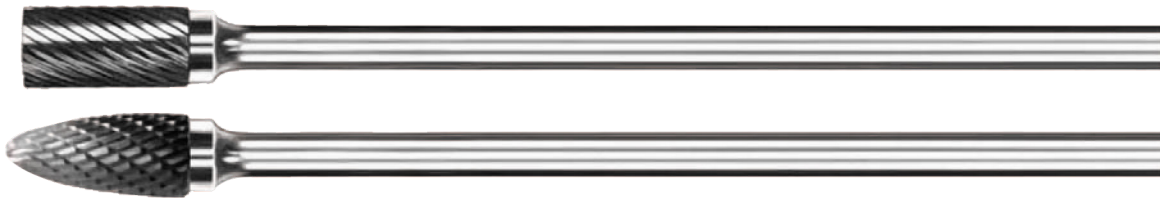
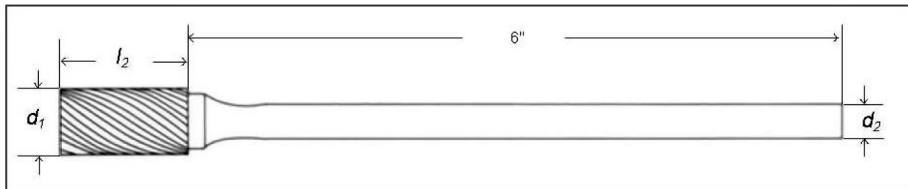
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Nonferrous Cut Burrs



Nonferrous Cut (Aluminum Cut) Available Upon Request

Long Shank Burs



Long Shank (6") Available Upon Request

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Miniature Burrs 40-44 Series

Tool Number	Cut Diameter	Cut Length	Shank Diameter	Overall Length	Fine Cut Part Number	Single Cut Part Number	Double Cut Part Number
SA-41	1/6	1/4	1/8	1 1/2	SA45600	SA45601	SA45602
SA-41L2	1/6	1/4	1/8	2	SA45610	SA45611	SA45612
SA-41L3	1/6	1/4	1/8	3	SA45620	SA45621	SA45622
SA-42	3/32	7/16	1/8	1 1/2	SA45630	SA45631	SA45632
SA-42L2	3/32	7/16	1/8	2	SA45640	SA45641	SA45642
SA-42L3	3/32	7/16	1/8	3	SA45650	SA45651	SA45652
SA-43	1/8	9/16	1/8	1 1/2	SA45660	SA45661	SA45662
SA-43L2	1/8	9/16	1/8	2	SA45670	SA45671	SA45672
SA-43L3	1/8	9/16	1/8	3	SA45680	SA45681	SA45682
SB-41	1/6	1/4	1/8	1 1/2	SA45700	SA45701	SA45702
SB-41L2	1/6	1/4	1/8	2	SA45710	SA45711	SA45712
SB-41L3	1/6	1/4	1/8	3	SA45720	SA45721	SA45722
SB-42	3/32	7/16	1/8	1 1/2	SA45730	SA45731	SA45732
SB-42L2	3/32	7/16	1/8	2	SA45740	SA45741	SA45742
SB-42L3	3/32	7/16	1/8	3	SA45750	SA45751	SA45752
SB-43	1/8	9/16	1/8	1 1/2	SA45760	SA45761	SA45762
SB-43L2	1/8	9/16	1/8	2	SA45770	SA45771	SA45772
SB-43L3	1/8	9/16	1/8	3	SA45780	SA45781	SA45782
SC-41	3/32	7/16	1/8	1 1/2	SA45800	SA45801	SA45802
SC-42	1/8	9/16	1/8	1 1/2	SA45810	SA45811	SA45812
SC-42L2	1/8	9/16	1/8	2	SA45820	SA45821	SA45822
SC-42L3	1/8	9/16	1/8	3	SA45830	SA45831	SA45832
SD-41	3/32	3/32	1/8	1 1/2	SA45840	SA45841	SA45842
SD-42	1/8	9/16	1/8	1 1/2	SA45850	SA45851	SA45852
SD-42L2	1/8	9/16	1/8	2	SA45860	SA45861	SA45862
SD-42L3	1/8	9/16	1/8	3	SA45870	SA45871	SA45872
SE-41	1/8	7/32	1/8	1 1/2	SA45880	SA45881	SA45882
SE-41L2	1/8	7/32	1/8	2	SA45890	SA45891	SA45892
SE-41L3	1/8	7/32	1/8	3	SA45900	SA45901	SA45902
SF-41	1/8	1/4	1/8	1 1/2	SA45910	SA45911	SA45912
SF-42	1/8	1/2	1/8	1 1/2	SA45920	SA45921	SA45922
SF-42L2	1/8	1/2	1/8	2	SA45930	SA45931	SA45932
SF-42L3	1/8	1/2	1/8	3	SA45940	SA45941	SA45942

Safety Precaution: Read and follow all safety and operating instructions.

WARNING: Face and eye protections must be worn while operating power tools, per ANSI B186.1

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SABRE AIRCRAFT TOOLS

Miniature Burrs 40-44 Series

Tool Number	Cut Diameter	Cut Length	Shank Diameter	Overall Length	Fine Cut Part Number	Single Cut Part Number	Double Cut Part Number
SG-41	1/8	1/4	1/8	1 1/2	SA45950	SA45951	SA45952
SG-42	1/8	5/16	1/8	1 1/2	SA45960	SA45961	SA45962
SG-43	1/8	3/8	1/8	1 1/2	SA45970	SA45971	SA45972
SG-44	1/8	1/2	1/8	1 1/2	SA45980	SA45981	SA45982
SG-44L2	1/8	1/2	1/8	2	SA45990	SA45991	SA45992
SG-44L3	1/8	1/2	1/8	3	SA45995	SA45996	SA45997
SH-41	1/8	1/4	1/8	1 1/2	SA46000	SA46001	SA46002
SH-41L2	1/8	1/4	1/8	2	SA46010	SA46011	SA46012
SH-41L3	1/8	1/4	1/8	3	SA46020	SA46021	SA46022
SJ-42	1/8	3/32	1/8	1 1/2	SA46030	SA46031	SA46032
SK-42	1/8	1/10	1/8	1 1/2	SA46040	SA46041	SA46042
SL-41	1/8	3/8	1/8	1 1/2	SA46050	SA46051	SA46052
SL-42	1/8	1/2	1/8	1 1/2	SA46060	SA46061	SA46062
SL-42L2	1/8	1/4	1/8	2	SA46070	SA46071	SA46072
SL-42L3	1/8	1/4	1/8	3	SA46080	SA46081	SA46082
SM-41	1/8	1/32	1/8	1 1/2	SA46090	SA46091	SA46092
SM-42	1/8	7/16	1/8	1 1/2	SA46100	SA46101	SA46102
SM-42L2	1/8	1/4	1/8	2	SA46110	SA46111	SA46112
SM-42L3	1/8	1/4	1/8	3	SA46120	SA46121	SA46122
SM-43	1/8	5/8	1/8	1 1/2	SA46130	SA46131	SA46132
SN-41	3/32	1/8	1/8	1 1/2	SA46140	SA46141	SA46142



Safety Precaution: Read and follow all safety and operating instructions.

WARNING: Face and eye protections must be worn while operating power tools, per ANSI B186.1

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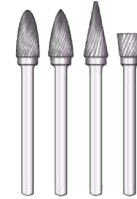
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SABRE AIRCRAFT TOOLS

Miniature Burrs 51 Series

Tool Number	Cut Diameter	Cut Length	Shank Diameter	Overall Length	Fine Cut Part Number	Single Cut Part Number	Double Cut Part Number
SA-51	1/4	1/2	1/8	1 11/16	SA46300	SA46301	SA46302
SB-51	1/4	3/16	1/8	1 11/16	SA46310	SA46311	SA46312
SC-51	1/4	1/2	1/8	1 11/16	SA46320	SA46321	SA46322
SD-51	1/4	7/32	1/8	1 3/8	SA46330	SA46331	SA46332
SE-51	1/4	3/8	1/8	1 9/16	SA46340	SA46341	SA46342
SF-51	1/4	1/2	1/8	1 11/16	SA46350	SA46351	SA46352
SG-51	1/4	1/2	1/8	1 11/16	SA46360	SA46361	SA46362
SM-51	1/4	1/2	1/8	1 13/16	SA46370	SA46371	SA46372
SN-51	1/4	1/4	1/8	1 7/16	SA46380	SA46381	SA46382



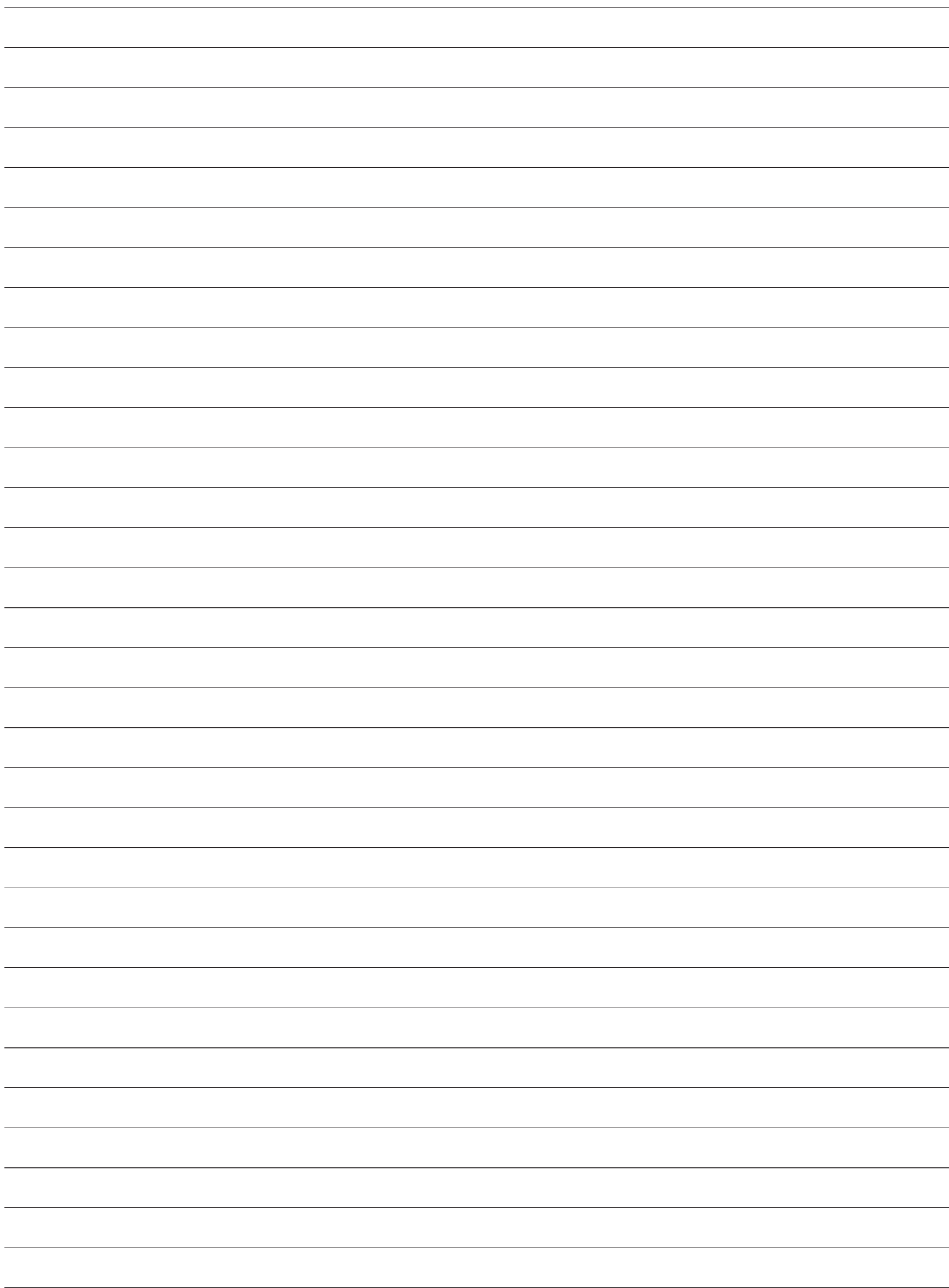
Safety Precaution: Read and follow all safety and operating instructions.

WARNING: Face and eye protections must be worn while operating power tools, per ANSI B186.1

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