

2017 Master Catalog

WIDIA 

WIDIA™ Metal Removal Carbide Burs

Carbide Burs

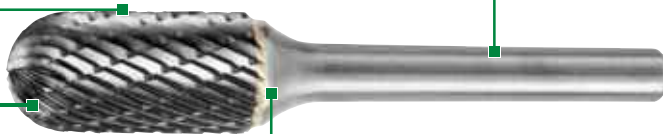


WIDIA™ carbide burs are manufactured in compliance with USCTI standards and are the highest quality in the industry, delivering excellent performance and safety. Our unique manufacturing process ensures exceptional tool life with the reliability to operate safely at high speeds. WIDIA burs offer a comprehensive portfolio of sizes and shapes for all applications and workpiece materials.

- Complete selection of shapes and cut styles for all materials and applications.
- Solid shank and brazed-on steel styles.
- Highest quality materials and construction deliver exceptional tool life.
- Wide array of sizes and shank lengths.
- Available in multiple size and style kits.
- Use of industry-standard USCTI codes for easy identification.

Micrograin carbide
Consistent performance
and tool life.

USCTI Standards
Industry-standard
shapes and sizes.



High-quality brazing and testing
Ensures safety at high RPMs.

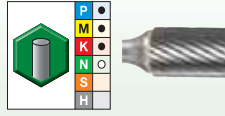
High-quality steel shanks
Multiple lengths and styles.

Standard Cut Styles

Standard Cut (Right-Hand Spiral)

The WIDIA™ **standard (right-hand spiral) cut** produces a smooth finish for general-purpose use on steel, cast iron, and other ferrous and non-ferrous materials.

Most WIDIA carbide burs are available in the right-hand spiral design.



Special Cut Styles

Coarse Cut

Coarse cut burs are favored for applications in softer materials such as brass, lead, annealed low-carbon steels, and some aluminum alloys. The combination of fewer flutes with greater depths provides the chip clearance necessary for these materials.

Available as specials.

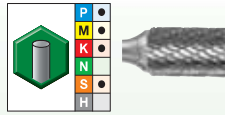


Master Cut (Double Cut)

The WIDIA exclusive **master cut**, with its chisel-type cutting edge, is a machine-ground tool built to exacting tolerances of concentricity, size, and shape. This accuracy, when combined with precision grinders, results in smooth-running, fast metal removal, and fine finishes. The right- and left-hand helical flutes combine to produce a chisel-type cutting tooth. This results in faster penetration and stock removal with minimal bounce or chatter.

The master cut design also produces an easy-to-handle granular-type chip in most metals, as opposed to the conventional sliver-type chips.

Throughout its life, the master cut gives faster stock removal and less operator fatigue, and maintains a good finish on the widest possible variety of workpiece materials.



Fine Cut RHS

The WIDIA **fine cut right-hand spiral** is used in applications where stock removal is light and workpiece finish is critical. A greater number of flutes reduces chip load and provides excellent control in deburring small, intricate areas.

Available as specials.



Aluminum Cut

The WIDIA **aluminum cut** burs are outstanding on soft or non-ferrous type materials. Use the aluminum cut design on aluminum, magnesium, brass, lead, and most plastics.

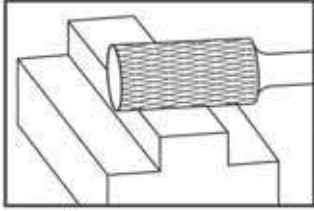


How to select a Bur

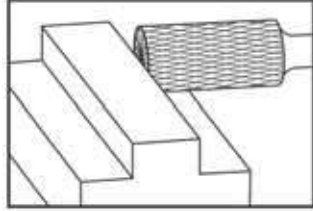
Applications	Material	Cut	
Efficient stock removal — deburring, finishing, and cleaning.	Ferrous metals Non-ferrous metals	Double Master Cut	
Heavy stock removal — deburring, milling, cleaning, and machining.	Non-ferrous metal: aluminum alloys Plastics	Aluminum Cut	
Medium stock removal — deburring, milling, cleaning, and finishing.	Non-ferrous metal: aluminum alloys Plastics Hard rubber	Coarse Cut Special Cut Style	
Medium stock removal — deburring, milling, cleaning, and finishing.	Non-Hardened steel >45 HRC Hardened steel >45 HRC: stainless steel High-temperature resistant metals: nickel, cobalt, titanium Non-ferrous light metals: brass, copper, and zinc	Single Cut	
Light stock removal — fine deburring and fine finishing.	Hardened steel >45 HRC	Fine Cut Special Cut Style	

Bur Shapes

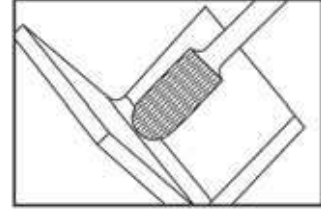
A Shape



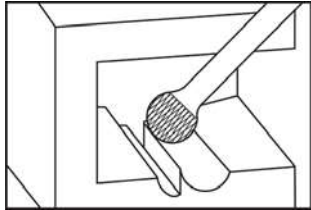
B Shape



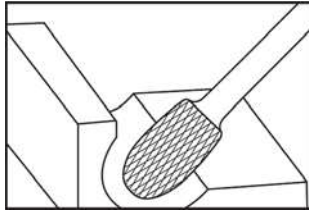
C Shape



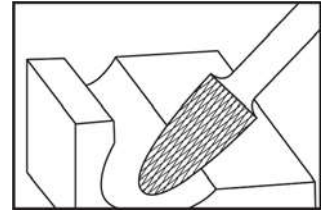
D Shape



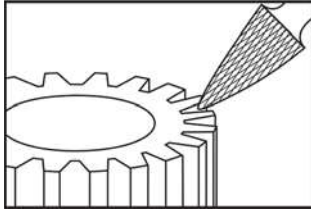
E Shape



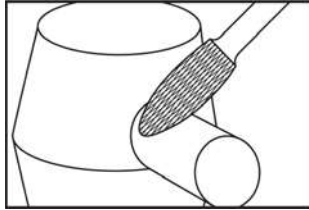
F Shape



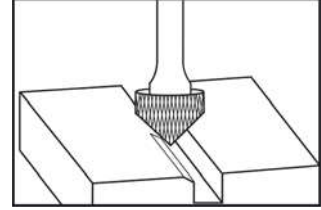
G Shape



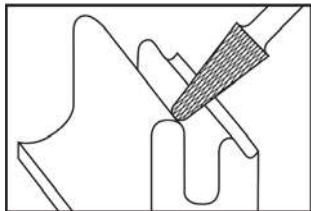
H Shape



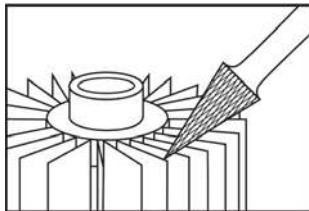
K Shape



L Shape



M Shape



Shank Styles

A Shank

1/8" solid carbide shank



B Shank

1/8" hardened steel shank



C Shank

1/4" hardened steel shank



D Shank

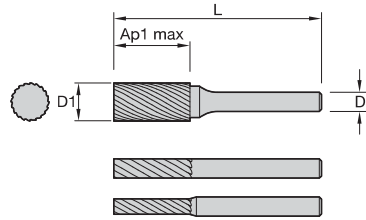
1/8" solid carbide shank



Bur Cutting Speeds

Bur Diameter Inch	Recommended Cutting Speed (RPM)	Maximum Cutting Speed (RPM)
1/16	60,000–90,000	100,000
1/8	40,000–70,000	90,000
3/16	35,000–60,000	80,000
1/4	30,000–50,000	70,000
5/16	20,000–40,000	68,000
3/8	20,000–40,000	66,000
7/16	15,000–40,000	58,000
1/2	15,000–40,000	50,000
5/8	12,000–25,000	40,000
3/4	10,000–20,000	33,000
1	7,500–20,000	25,000
1-1/8	7,000–13,000	20,000
1-1/2	5,000–10,000	17,000
1-3/4	4,500–9,000	14,000
2	4,000–8,000	12,500

- Cylindrical shape.
- No end cut.
- Shank styles A, B, and C — see page P5 for shank style definitions.



Single Cut



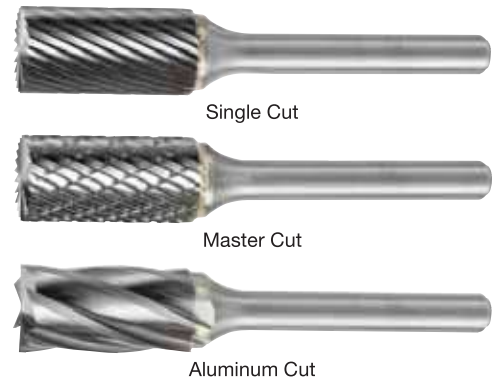
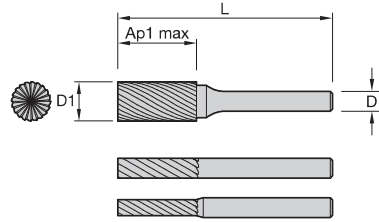
Master Cut

■ Series SA Cylindrical

USCTI Number	Single Cut		Master Cut		D1	D	Ap1 max	length L	shank style
	order #	catalog #	order #	catalog #					
SA-41	2736627	M40200	2735826	M41200	1/16	1/8	1/4	1 1/2	A
SA-42	2736622	M40201	2735821	M41201	3/32	1/8	7/16	1 1/2	A
SA-43	2736616	M40202	2735816	M41202	1/8	1/8	9/16	1 1/2	A
SA-43L2	2736613	M40203	2735811	M41203	1/8	1/8	9/16	2	A
SA-43L3	2736608	M40204	2735806	M41204	1/8	1/8	9/16	3	A
SA-11	2736603	M40205	2735801	M41205	1/8	1/4	1/2	2	C
SA-52	2736598	M40206	2735796	M41206	5/32	1/8	1/2	1 1/2	A
SA-53	-		2735792	M41207	3/16	1/8	1/2	1 1/2	A
SA-14	2736589	M40208	2735787	M41208	3/16	1/4	5/8	2	C
SA-51	2736583	M40209	2735782	M41209	1/4	1/8	3/16	1 7/16	B
SA-51-2	2736578	M40210	2735777	M41210	1/4	1/8	1/2	1 3/4	B
SA-1L6	2736569	M40212	2735767	M41212	1/4	1/4	5/8	6 5/8	C
SA-1	2736574	M40211	2735772	M41211	1/4	1/4	5/8	2	C
SA-2	2736564	M40213	2735763	M41213	5/16	1/4	3/4	2 1/2	C
SA-3	1293725	M40214	3063092	M41214	3/8	1/4	3/4	2 1/2	C
SA-3L6	-		2735752	M41215	3/8	1/4	3/4	6 3/4	C
SA-4	2736549	M40216	2735747	M41216	7/16	1/4	1	2 3/4	C
SA-5	2736544	M40217	2735742	M41217	1/2	1/4	1	2 3/4	C
SA-5L6	-		2735737	M41218	1/2	1/4	1	7	C
SA-6	2736534	M40219	2735732	M41219	5/8	1/4	1	2 3/4	C
SA-7	3046342	M40220	2735727	M41220	3/4	1/4	1	2 3/4	C
SA-9	2736525	M40221	2735722	M41221	1	1/4	1	2 3/4	C

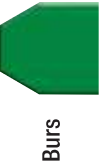
Burs

- Cylindrical shape.
- With end cut.
- Shank styles A and C — see page P5 for shank style definitions.

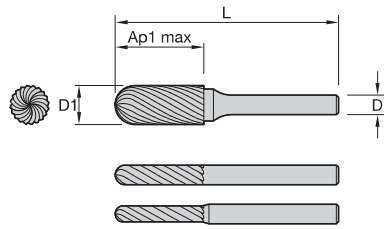


■ Series SB Cylindrical with End Cut

USCTI Number	Single Cut		Master Cut		Aluminum Cut		D1	D	Ap1 max	length L	shank style
	order #	catalog #	order #	catalog #	order #	catalog #					
SB-41	2736483	M40247	-	-	-	-	1/16	1/8	1/4	1 1/2	A
SB-42	2736480	M40248	-	-	-	-	3/32	1/8	7/16	1 1/2	A
SB-43	1750953	M40249	-	-	-	-	1/8	1/8	9/16	1 1/2	A
SB-11	-	-	2735677	M41250	-	-	1/8	1/4	1/2	2	C
SB-14	2736465	M40251	2735672	M41251	-	-	3/16	1/4	5/8	2	C
SB-51	2736459	M40252	2735666	M41252	-	-	1/4	1/8	3/16	1 7/16	A
SB-51-2	-	-	2735662	M41253	-	-	1/4	1/8	1/2	1 3/4	A
SB-1	2736449	M40254	2735657	M41254	2736311	M40527	1/4	1/4	5/8	2	C
SB-2	2736446	M40255	3055771	M41255	-	-	5/16	1/4	3/4	2 1/2	C
SB-3	2736441	M40256	2735646	M41256	2736307	M40528	3/8	1/4	3/4	2 1/2	C
SB-4	-	-	3050640	M41257	-	-	7/16	1/4	1	2 3/4	C
SB-5	2736436	M40258	2735636	M41258	2736300	M40529	1/2	1/4	1	2 3/4	C
SB-6	-	-	2735631	M41259	2736296	M40530	5/8	1/4	1	2 3/4	C
SB-7	-	-	2735626	M41260	2736291	M40531	3/4	1/4	1	2 3/4	C



- Cylindrical shape.
- Ball nose end cut.
- Shank styles A, B, and C — see page P5 for shank style definitions.



Single Cut



Master Cut



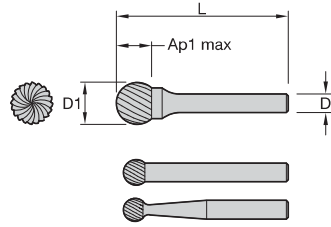
Aluminum Cut

■ Series SC Cylindrical Ball Nose

USCTI Number	Single Cut		Master Cut		Aluminum Cut		D1	D	Ap1 max	length L	shank style
	order #	catalog #	order #	catalog #	order #	catalog #					
SC-41	3046343	M40284	2735611	M41284	-	-	3/32	1/8	7/16	1 1/2	A
SC-42	2736406	M40285	2735606	M41285	-	-	1/8	1/8	9/16	1 1/2	A
SC-42L2	2736401	M40286	2735600	M41286	-	-	1/8	1/8	9/16	2	A
SC-42L3	2736397	M40287	2735596	M41287	-	-	1/8	1/8	9/16	3	A
SC-11	2736392	M40288	2735591	M41288	-	-	1/8	1/4	1/2	2	A
SC-52	2736387	M40289	1568786	M41289	-	-	5/32	1/8	1/2	1 1/2	A
SC-53	3050059	M40290	2735581	M41290	-	-	3/16	1/8	1/2	1 1/2	A
SC14	2736379	M40291	2735576	M41291	-	-	3/16	1/4	5/8	2	A
SC-51	3056826	M40292	2735571	M41292	-	-	1/4	1/8	1/2	1 3/4	B
SC-1	2736369	M40293	2735566	M41293	2736287	M40532	1/4	1/4	5/8	2	A
SC-1L6	3043496	M40294	2735561	M41294	-	-	1/4	1/4	5/8	6 5/8	C
SC-2	2736358	M40295	2735556	M41295	-	-	5/16	1/4	3/4	2 1/2	A
SC-3	2736353	M40296	2735551	M41296	2736281	M40533	3/8	1/4	3/4	2 1/2	A
SC-3L6	2736349	M40297	2735546	M41297	-	-	3/8	1/4	3/4	6 3/4	C
SC-4	-	-	3050641	M41298	-	-	7/16	1/4	1	2 3/4	A
SC-5L6	2736334	M40300	2735526	M41300	-	-	1/2	1/4	1	7	C
SC-5	2736339	M40299	2735531	M41299	2736276	M40534	1/2	1/4	1	2 3/4	A
SC-6	2736329	M40301	2735521	M41301	2736272	M40535	5/8	1/4	1	2 3/4	A
SC-7	2736324	M40302	2735516	M41302	2736265	M40536	3/4	1/4	1	2 3/4	C

Burs

- Ball shape.
- Shank styles A, B, and C — see page P5 for shank style definitions.



Single Cut



Master Cut



Aluminum Cut

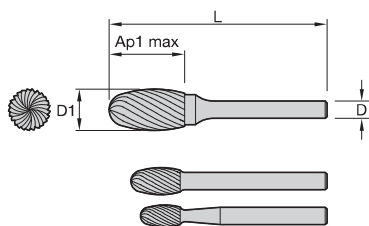
■ Series SD BALL

USCTI Number	Single Cut		Master Cut		Aluminum Cut		D1	D	Ap1 max	length L	shank style
	order #	catalog #	order #	catalog #	order #	catalog #					
—	2730676	M40322	—	—	—	—	1/16	1/8	1/16	1 1/2	A
SD-41	2730671	M40323	2729967	M41323	—	—	3/32	1/8	3/32	1 1/2	A
SD-42L2	3044078	M40325	—	—	—	—	1/8	1/8	1/8	2	A
SD-42L3	2730659	M40326	2729951	M41326	—	—	1/8	1/8	1/8	3	A
SD-42	—	—	2729963	M41324	—	—	1/8	1/8	1/8	1 1/2	A
SD-11	3043497	M40327	2729946	M41327	—	—	1/8	1/4	1/8	2	C
SD-53	2730649	M40328	2729942	M41328	—	—	3/16	1/8	3/16	1 1/2	A
SD-14	2730644	M40329	2729936	M41329	—	—	3/16	1/4	3/16	2	C
SD-42L2	—	—	1752141	M41325	—	—	1/8	1/8	1/8	2	A
SD-51	2730639	M40330	2729930	M41330	—	—	1/4	1/8	1/4	1 3/4	B
SD-1L6	2730629	M40332	2729920	M41332	—	—	1/4	1/4	1/4	6 1/4	C
SD-1	2730634	M40331	2729926	M41331	2730077	M40537	1/4	1/4	1/4	2	C
SD-2	2730624	M40333	2729914	M41333	—	—	5/16	1/4	5/16	2 1/32	C
SD-3L6	2730614	M40335	2729906	M41335	—	—	3/8	1/4	3/8	6 3/8	C
SD-3	2730619	M40334	2729910	M41334	2730072	M40538	3/8	1/4	3/8	2 5/64	C
SD-4	2730609	M40336	2729901	M41336	—	—	7/16	1/4	7/16	2 9/64	C
SD-5	—	—	2729895	M41337	2730067	M40539	1/2	1/4	1/2	2 13/16	C
SD-5L6	2730598	M40338	3046344	M41338	—	—	1/2	1/4	1/2	6 1/2	C
SD-5	2730603	M40337	—	—	—	—	1/2	1/4	1/2	2 13/64	C
SD-6	2730593	M40339	2729885	M41339	2730063	M40540	5/8	1/4	5/8	2 5/16	C
SD-7	2730588	M40340	—	—	—	—	3/4	1/4	3/4	4 7/16	C
SD-7	—	—	2729880	M41340	—	—	3/4	1/4	3/4	2 7/16	C
SD-9	2730583	M40341	2729873	M41341	—	—	1	1/4	1	2 11/16	C



Burs

- Egg shape.
- Shank styles A, B, and C — see page P5 for shank style definitions.



Single Cut



Master Cut



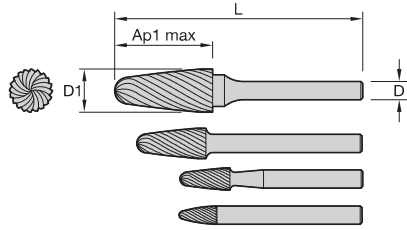
Aluminum Cut

■ Series SE EGG

USCTI Number	Single Cut		Master Cut		Aluminum Cut		D1	D	Ap1 max	length L	shank style
	order #	catalog #	order #	catalog #	order #	catalog #					
SE-41	2730561	M40360	2729835	M41360	-	-	1/8	1/8	7/32	1 1/2	A
SE-53	-	-	2729830	M41361	-	-	3/16	1/8	9/32	1 1/2	A
SE-51	2730551	M40362	2729825	M41362	-	-	1/4	1/8	3/8	1 5/8	B
SE-1	2730544	M40363	2729820	M41363	-	-	1/4	1/4	3/8	2	C
SE-3	-	-	-	-	2730058	M40541	3/8	1/4	5/8	2 3/4	C
SE-3	2730542	M40364	2729814	M41364	-	-	3/8	1/4	5/8	2 3/8	C
SE-5	2730536	M40365	2729808	M41365	2730053	M40542	1/2	1/4	7/8	2 5/8	C
SE-6	-	-	2729803	M41366	2730048	M40543	5/8	1/4	1	2 3/4	C
SE-7	-	-	2729797	M41367	-	-	3/4	1/4	1	2 3/4	C

Burs

- Round nose tree shape.
- Shank styles A, B, and C — see page P5 for shank style definitions.



Single Cut



Master Cut



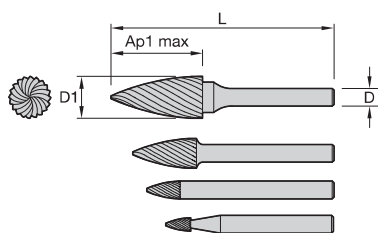
Aluminum Cut

■ Series SF Round Nose Tree

USCTI Number	Single Cut		Master Cut		Aluminum Cut		D1	D	Ap1 max	length L	shank style
	order #	catalog #	order #	catalog #	order #	catalog #					
SF-41	2730511	M40379	2729782	M41379	-	-	1/8	1/8	1/4	1 1/2	A
SF-42	2730506	M40380	2729778	M41380	-	-	1/8	1/8	1/2	1 1/2	A
SF-53	2730501	M40381	3051757	M41381	-	-	3/16	1/8	1/2	1 1/2	A
SF-51	2730495	M40382	2729768	M41382	-	-	1/4	1/8	1/2	1 3/4	B
SF-1	2730491	M40383	1750297	M41383	2730042	M40544	1/4	1/4	5/8	2	C
SF-1L6	2730486	M40384	2729756	M41384	-	-	1/4	1/4	5/8	6	C
SF-3	2730481	M40385	2729751	M41385	2730037	M40545	3/8	1/4	3/4	2 1/2	C
SF-3L6	2730477	M40386	2729746	M41386	-	-	3/8	1/4	3/4	6 3/4	C
SF-4	2730472	M40387	2729741	M41387	-	-	7/16	1/4	1	2 3/4	C
SF-13	2730467	M40388	2729736	M41388	-	-	1/2	1/4	3/4	2 1/2	C
SF-5	2730461	M40389	2729731	M41389	2730032	M40546	1/2	1/4	1	2 3/4	C
SF-5L6	2730456	M40390	2729726	M41390	-	-	1/2	1/4	1	7	C
SF-6	2730451	M40391	2729721	M41391	2730027	M40547	5/8	1/4	1	2 3/4	C
SF-7	-	-	2729716	M41392	-	-	3/4	1/4	1	2 3/4	C
SF-15	-	-	2729711	M41393	-	-	3/4	1/4	1 1/2	3 1/4	C
SF-14	-	-	2729706	M41394	-	-	3/4	1/4	1 1/4	3	C

Burs

- Pointed tree shape.
- Shank styles A, B, and C — see page P5 for shank style definitions.



Single Cut



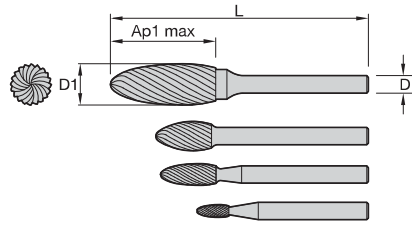
Master Cut

■ Series SG Pointed Tree

USCTI Number	Single Cut		Master Cut		D1	D	Ap1 max	length L	shank style
	order #	catalog #	order #	catalog #					
SG-41	2730399	19M40414-SAV	2729675	M41414	1/8	1/8	1/4	1 1/2	A
SG-42	2730395	M40415	2729669	M41415	1/8	1/8	5/16	1 1/2	A
SG-43	3054754	M40416	2729664	M41416	1/8	1/8	3/8	1 1/2	A
SG-44	2730385	M40417	2729660	M41417	1/8	1/8	1/2	1 1/2	A
SG-53	2730380	M40418	2729656	M41418	3/16	1/8	1/2	1 1/2	A
SG-51	2730375	M40419	2729651	M41419	1/4	1/8	1/2	1 3/4	B
SG-1	2730371	M40420	2729646	M41420	1/4	1/4	5/8	2	C
SG-2	-		2729641	M41421	5/16	1/4	3/4	2 1/2	C
SG-3	2730360	M40422	2729636	M41422	3/8	1/4	3/4	2 1/2	C
SG-13	2730355	M40423	2729631	M41423	1/2	1/4	3/4	2 1/2	C
SG-5	2730350	M40424	2729626	M41424	1/2	1/4	1	2 3/4	C
SG-6	2730345	M40425	2729621	M41425	5/8	1/4	1	2 3/4	C

Burs

- Flame shape.
- Shank styles A and C — see page P5 for shank style definitions.



Single Cut

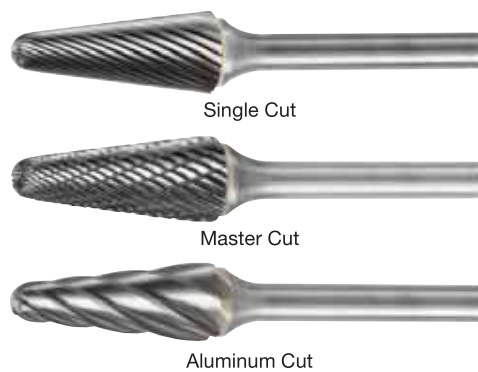
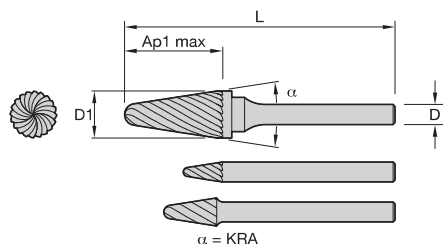


Master Cut

■ Series SH Flame

USCTI Number	Single Cut		Master Cut		D1	D	Ap1 max	length L	shank style
	order #	catalog #	order #	catalog #					
SH-41	2730325	M40446	2729586	M41446	1/8	1/8	1/4	1 1/2	A
SH-53	2730320	M40447	2729581	M41447	3/16	1/8	3/8	1 1/2	A
SH-2	2730315	M40448	2729575	M41448	5/16	1/4	3/4	2 1/2	C
SH-5	2730310	M40449	2729570	M41449	1/2	1/4	1 1/4	3	C
SH-6	2730305	M40450	2729566	M41450	5/8	1/4	1 7/16	3 3/16	C
SH-7	-	-	2729559	M41451	3/4	1/4	1 5/8	3 3/8	C

- Included angle shape.
- Shank styles A and C — see page P5 for shank style definitions.

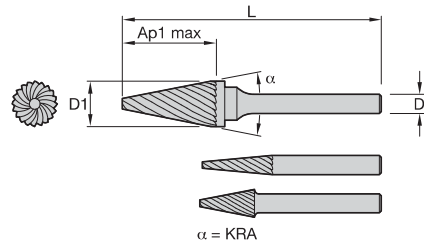


■ Series SL Included Angle

USCTI Number	Single Cut		Master Cut		Aluminum Cut		D1	D	Ap1 max	length L	shank style	KRA
	order #	catalog #	order #	catalog #	order #	catalog #						
SL-41	2730295	M40461	3046345	M41461	-	-	1/8	1/8	3/8	1 1/2	A	8
SL-42	2730290	M40462	2729539	M41462	-	-	1/8	1/8	1/2	1 1/2	A	8
SL-53	2730285	M40463	3052817	M41463	-	-	3/16	1/8	1/2	1 1/2	A	14
SL-1	2730280	M40464	2729529	M41464	-	-	1/4	1/4	5/8	2	C	14
SL-1L6	3046916	M40465	2729523	M41465	-	-	1/4	1/4	5/8	6 5/8	C	14
SL-2	2730270	M40466	1752788	M41466	-	-	5/16	1/4	7/8	2 3/4	C	14
SL-3	2730264	M40467	2729513	M41467	2730022	M40548	3/8	1/4	1 1/16	2 15/16	C	14
SL-3L6	2730259	M40468	2729508	M41468	-	-	3/8	1/4	1 1/16	7 3/16	C	14
SL-4	2730254	M40469	2729503	M41469	2730017	M40549	1/2	1/4	1 1/8	3	C	14
SL-4L6	2730249	M40470	2729498	M41470	-	-	1/2	1/4	1 1/8	7 1/4	C	14
SL-6	2730244	M40471	2729493	M41471	2730012	M40550	5/8	1/4	1 5/16	3 3/16	C	14
SL-7	2730239	M40472	2729488	M41472	-	-	3/4	1/4	1 1/2	3 3/8	C	14

Burs

- Pointed cone shape.
- Shank styles A, B, and C — see page P5 for shank style definitions.



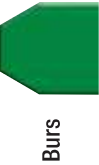
Single Cut



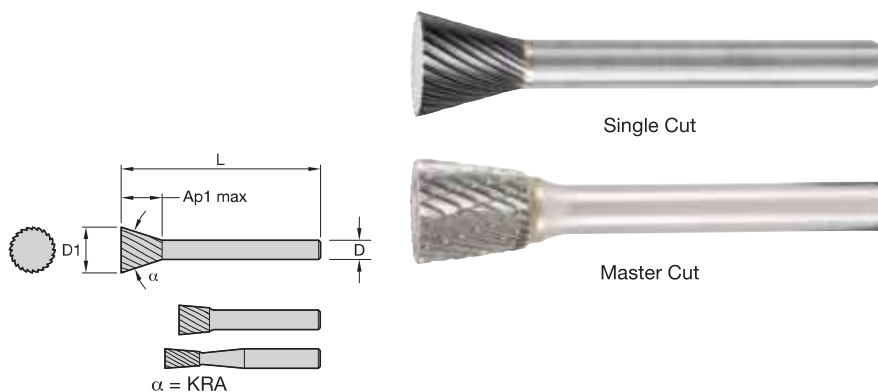
Master Cut

■ Series SM Pointed Cone

USCTI Number	Single Cut		Master Cut		D1	D	Ap1 max	length L	shank style	KRA
	order #	catalog #	order #	catalog #						
SM-41	2730206	M40485	2729447	M41485	1/8	1/8	3/8	1 1/2	A	12
SM-42	2730202	M40486	2729443	M41486	1/8	1/8	7/16	1 1/2	A	14
SM-43	2730196	M40487	2729438	M41487	1/8	1/8	5/8	1 1/2	A	7
SM-53	2730191	M40488	2729433	M41488	3/16	1/8	1/2	1 1/2	A	16
SM-51	2730185	M40489	3050060	M41489	1/4	1/8	1/2	1 7/8	B	22
SM-1	2730179	M40490	2729423	M41490	1/4	1/4	1/2	2	C	22
SM-2	2730174	M40491	2729418	M41491	1/4	1/4	3/4	2	C	14
SM-3	2730169	M40492	2729413	M41492	1/4	1/4	1	2	C	10
SM-4	2730164	M40493	2729407	M41493	3/8	1/4	5/8	2 1/2	C	28
SM-5	2730159	M40494	2729402	M41494	1/2	1/4	7/8	2 3/4	C	28
SM-6	2730154	M40495	2729397	M41495	5/8	1/4	1	2 7/8	C	31



- Inverted taper shape.
- Shank styles A and C — see page P5 for shank style definitions.



■ Series SN Inverted Taper

USCTI Number	Single Cut		Master Cut		D1	D	Ap1 max	length L	shank style	KRA
	order #	catalog #	order #	catalog #						
SN-41	2730119	M40509	-	-	3/32	1/8	3/16	1 1/2	A	10
SN-42	-	-	2729371	M41510	1/8	1/8	3/16	1 1/2	A	10
SN-51	-	-	3051758	M41512	1/4	1/8	1/4	1 1/2	A	10
SN-1	2730100	M40513	2729356	M41513	1/4	1/4	5/16	2	C	10
SN-4	2730095	M40515	-	-	1/2	1/4	1/2	2 1/4	C	28
SN-3	-	-	2729351	M41514	1/2	1/4	1/2	2 1/4	C	16

- Fine master-cut style.
- Cylindrical shape.
- Series IGT has no end cut.
- Series IGT-EC has end cut.
- Solid carbide construction.



Master Cut

Series IGT Internal Grinding Tool

Master Cut		D1	D	Ap1 max	length L
order #	catalog #				
2735469	M42006	1/16	1/8	1/8	1 1/2
2735464	M42007	5/64	1/8	5/32	1 1/2
2735459	M42008	3/32	1/8	5/32	1 1/2
2735454	M42009	7/64	1/8	3/16	1 1/2
2735449	M42010	1/8	1/8	3/16	1 1/2
2735411	M42019	9/64	3/16	7/32	2
2735406	M42020	5/32	3/16	7/32	2
2735401	M42021	11/64	3/16	1/4	2
2735396	M42022	3/16	3/16	1/4	2
2735443	M42012	7/32	1/4	9/32	2
2735439	M42013	15/64	1/4	5/16	2
2735432	M42014	1/4	1/4	5/16	2
2735427	M42015	9/32	1/4	11/32	2 1/2
2735423	M42016	5/16	1/4	11/32	2 1/2
2735417	M42018	3/8	1/4	3/8	2 1/2

Series IGT-EC Internal Grinding Tool


Master Cut

Series IGT-EC Internal Grinding Tool

Master Cut		D1	D	Ap1 max	length L
order #	catalog #				
2735391	M42023	1/16	1/8	1/8	1 1/2
2735386	M42024	5/64	1/8	5/32	1 1/2
2735381	M42025	3/32	1/8	5/32	1 1/2
2735376	M42026	7/64	1/8	3/16	1 1/2
2735371	M42027	1/8	1/8	3/16	1 1/2
2735326	M42036	9/64	3/16	7/32	2
2735320	M42037	5/32	3/16	7/32	2
2735316	M42038	11/64	3/16	1/4	2
2735310	M42039	3/16	3/16	1/4	2
2735366	M42028	13/64	1/4	9/32	2
2735361	M42029	7/32	1/4	9/32	2
2735357	M42030	15/64	1/4	5/16	2
2735352	M42031	1/4	1/4	5/16	2
2735346	M42032	9/32	1/4	11/32	2 1/2
2735341	M42033	5/16	1/4	11/32	2 1/2
2735336	M42034	11/32	1/4	3/8	2 1/2
2735331	M42035	3/8	1/4	3/8	2 1/2

- Shank styles A, B, and C — see page P5 for shank style definitions.
- Assortment of bur styles for multiple applications.
- Most popular inch sizes.



■ Series Bur Sets

order number	catalog number	D1	D	quantity	shank style	cut style	includes
2736246	M40588	1/8	1/8	9	A	Master	SA-42, SA-43, SC-41, SC-42, SD-42, SE-41, SF-42, SG-42, SM-43
2736236	M40591	1/4	1/8	9	B	Master	SA-51, SB-51, SC-51, SD-51, SE-51, SF-51, SG-51, SM-51, SN-51
2736227	M40593	1/4	1/4	8	C	Master	SA-1, SC-1, SD-1, SE-1, SF-1, SG-1, SL-1, SM-2
2736221	M40594	1/2	1/4	8	C	Master	SA-5, SC-5, SD-5, SE-5, SF-5, SG-5, SL-4, SM-5

Burs

- Solid carbide construction.
- Multiple flute, 30° left-hand spiral, right-hand cut with diamond cut flutes.
- Straight shank.
- Four end cut styles
 - Series CRTF-N E – no end cut
 - Series CRTF-B E – bur end cut
 - Series CRTF-CC – end mill end cut
 - Series CRTF-DP – drill-point end cut



Master Cut

■ Series CRTF-BE

Master Cut		D1	D	Ap1 max	length L
order #	catalog #				
2737550	M34820	1/16	1/8	3/16	1 1/2
2737545	M34821	1/8	1/8	1/2	1 1/2
2894631	M34822	3/16	3/16	5/8	2
2737540	M34830	3/16	1/4	5/8	2
2737535	M34831	1/4	1/4	3/4	2
2737530	M34832	1/4	1/4	3/4	2 1/2
2737521	M34841	3/8	3/8	1	2 1/2
3045679	M34842	1/2	1/2	1	3

Series CRTF-CC

- Solid carbide construction.
- Multiple flute, 30° left-hand spiral, right-hand cut with diamond cut flutes.
- Straight shank.



Master Cut

■ Series CRTF-CC

Master Cut		D1	D	Ap1 max	length L
order #	catalog #				
2737593	M34792	1/16	1/8	3/16	1 1/2
2737583	M34800	1/8	1/8	1/2	1 1/2
2737573	M34802	1/4	1/4	3/4	2
2737564	M34810	5/16	5/16	1	2 1/2
2737558	M34811	3/8	3/8	1	2 1/2
2737555	M34812	1/2	1/2	1	3

- Solid carbide construction.
- Multiple flute, 30° left-hand spiral, right-hand cut with diamond cut flutes.
- Straight shank.



Master Cut

■ Series CRTF-DP

Master Cut		D1	D	Ap1 max	length L
order #	catalog #				
2737511	M34850	1/16	1/8	3/16	1 1/2
2737506	M34851	1/8	1/8	1/2	1 1/2
2737497	M34860	1/4	1/4	3/4	2
2737492	M34861	1/4	1/4	1	3
2737482	M34870	3/8	3/8	1	2 1/2
2737478	M34871	1/2	1/2	1	3

Series CRTF-NE

- Solid carbide construction.
- Multiple flute, 30° left-hand spiral, right-hand cut with diamond cut flutes.
- Straight shank.



Master Cut

■ Series CRTF-NE

Master Cut		D1	D	Ap1 max	length L
order #	catalog #				
2737455	M34882	1/4	1/4	3/4	2
2737449	M34890	1/4	1/4	1	3
2978031	M34892	3/8	3/8	1	2 1/2
2737438	M34900	1/2	1/2	1	3