



Carbide Burr Solutions
FULL LINE CATALOG





Company

For over 30 years, we have been manufacturing superbly designed high performance cutting tools products for the aerospace, automotive, mold & die, casting & foundry and power generation industries. While we understand our customers want products that have great design, we concentrate on creating a more enjoyable cutting tool experience through products that infuse sophisticated style with substance, optimize wear resistant and provide consistent, exceptional performance. Our pursuit of excellence pushes us beyond industry standards and drives us to maintain our reputation as one of the most outstanding manufacturers in the United States.



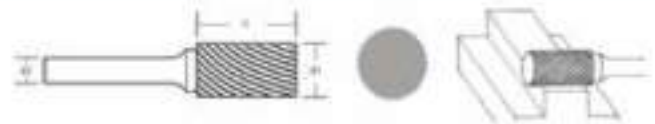
Table of Content

SA Series Cylinder Shape - No End Cut	4	Miniature	18
SB Series Cylinder Shape - With End Cut	5	Flexiburr	20
SC Series Cylinder Shape - Radius End	6	Fiberglass Routers	21
SD Series Ball Shape	7	Countersinks	22
SE Series Oval / Egg Shape	8	Pilot Die	24
SF Series Tree Shape With Radius	9	Multi-Mill	25
SG Series Tree Shape Pointed Style	10	Speed Recommendations	26
SH Series Flame Shape	11	Cut Selection	27
SJ Series 60° Cone Shape	12		
SK Series 90° Cone Shape	13		
SL Series Taper Shape With Radius	14		
SM Series Pointed Cone Shape	15		
SN Series Inverted Cone Shape	16		

SA

**Cylinder Shape
No End Cut**
Carbide Burr

Application Materials:
- Deburring



Tool	DIA(D1)	LOC(L1)	Shank(D2)	Single Cut	Double Cut	Diamond Cut	N/F Cut
SA-41	1/16	1/4	1/8	10104	20104	30104	
SA-41L2	1/16	1/4	1/8	10106	20106	30106	
SA-41L3	1/16	1/4	1/8	10108	20108	30108	
SA-63	3/32	3/8	3/32	10110	20110	30110	
SA-42	3/32	7/16	1/8	10112	20112	30112	
SA-42L2	3/32	7/16	1/8	10114	20114	30114	
SA-42L3	3/32	7/16	1/8	10116	20116	30116	
SA-11	1/8	1/2	1/4	10118	20118	30118	
SA-43	1/8	9/16	1/8	10120	20120	30120	
SA-43L2	1/8	9/16	1/8	10122	20122	30122	
SA-43L3	1/8	9/16	1/8	10124	20124	30124	
SA-12	1/8	5/8	1/4	10126	20126	30126	
SA-52	5/32	1/2	1/8	10128	20128	30128	
SA-13	5/32	5/8	1/4	10130	20130	30130	
SA-53	3/16	1/2	1/8	10132	20132	30132	
SA-81	3/16	5/8	3/16	10134	20134	30134	
SA-14	3/16	5/8	1/4	10136	20136	30136	
SA-50	1/4	3/16	1/8	10138	20138	30138	
SA-51	1/4	1/2	1/8	10140	20140	30140	
SA-1	1/4	5/8	1/4	10142	20142	30142	
SA-1L6	1/4	1/2	1/4	10144	20144	30144	
SA-1NF	1/4	5/8	1/4				40146
SA-1L	1/4	1	1/4	10148	20148	30148	
SA-2	5/16	3/4	1/4	10150	20150	30150	
SA-3	3/8	3/4	1/4	10152	20152	30152	
SA-3L6	3/8	3/4	1/4	10154	20154	30154	
SA-3NF	3/8	3/4	1/4				40156
SA-3L	3/8	1	1/4	10158	20158	30158	
SA-3X	3/8	1-1/2	1/4	10160	20160	30160	
SA-4	7/16	1	1/4	10162	20162	30162	
SA-5	1/2	1	1/4	10164	20164	30164	
SA-5L6	1/2	1	1/4	10166	20166	30166	
SA-5NF	1/2	1	1/4				40168
SA-6	5/8	1	1/4	10170	20170	30170	
SA-6NF	5/8	1	1/4				40172
SA-15	3/4	1/2	1/4	10174	20174	30174	
SA-16	3/4	3/4	1/4	10176	20176	30176	
SA-7	3/4	1	1/4	10178	20178	30178	
SA-7NF	3/4	1	1/4				40180
SA-8	7/8	1	1/4	10182	20182	30182	
SA-9	1	1	1/4	10184	20184	30184	

SB

**Cylinder Shape
With End Cut**
Carbide Burr

Application Materials:

- Peripheral
- Face Milling



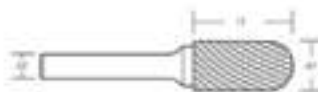
Tool	DIA(D1)	LOC(L1)	Shank(D2)	Single Cut	Double Cut	Diamond Cut	N/F Cut
SB-41	1/16	1/4	1/8	10186	20186	30186	
SB-41L2	1/16	1/4	1/8	10188	20188	30188	
SB-41L3	1/16	1/4	1/8	10190	20190	30190	
SB-42	3/32	3/8	3/32	10192	20192	30192	
SB-42L2	3/32	7/16	1/8	10194	20194	30194	
SB-42L3	3/32	7/16	1/8	10196	20196	30196	
SB-42-ECO D.E.	3/32	7/16	1/8	10198	20198	30198	
SB-11	1/8	1/2	1/4	10200	20200	30200	
SB-43	1/8	9/16	1/8	10202	20202	30202	
SB-43L2	1/8	9/16	1/8	10204	20204	30204	
SB-43L3	1/8	9/16	1/8	10206	20206	30206	
SB-12	1/8	5/8	1/4	10208	20208	30208	
SB-13	3/16	1/2	1/8	10210	20210	30210	
SB-14	3/16	5/8	3/16	10212	20212	30212	
SB-51	3/16	5/8	1/4	10214	20214	30214	
SB-51A	1/4	3/16	1/8	10216	20216	30216	
SB-1	1/4	1/2	1/8	10218	20218	30218	
SB-1L6	1/4	5/8	1/4	10220	20220	30220	
SB-1NF	1/4	1/2	1/4				40222
SB-1L	1/4	5/8	1/4	10224	20224	30224	
SB-1-ECO D.E.	1/4	1	1/4	10226	20226	30226	
SB-2	5/16	3/4	1/4	10228	20228	30228	
SB-3	3/8	3/4	1/4	10230	20230	30230	
SB-3L6	3/8	3/4	1/4	10232	20232	30232	
SB-3NF	3/8	3/4	1/4				40234
SB-3L	3/8	1	1/4	10236	20236	30236	
SB-3X	3/8	1-1/2	1/4	10238	20238	30238	
SB-4	7/16	1	1/4	10240	20240	30240	
SB-5	1/2	1	1/4	10242	20242	30242	
SB-5L6	1/2	1	1/4	10244	20244	30244	
SB-5NF	1/2	1	1/4				40246
SB-6	5/8	1	1/4	10248	20248	30248	
SB-6NF	5/8	1	1/4				40250
SB-15	3/4	1/2	1/4	10252	20252	30252	
SB-16	3/4	3/4	1/4	10254	20254	30254	
SB-7	3/4	1	1/4	10256	20256	30256	
SB-7NF	3/4	1	1/4				40258
SB-8	7/8	1	1/4	10260	20260	30260	
SB-9	1	1	1/4	10262	20262	30262	

Sc

**Cylinder Shape
End Radius Cutting**
Carbide Burr

Application Materials:

- Surface Milling
- Contouring



Tool	DIA(d1)	LOC(l1)	Shank(d2)	Single Cut	Double Cut	Diamond Cut	N/F Cut
SC-61	3/32	3/8	3/32	10264	20264	30264	
SC-41	3/32	7/16	1/8	10266	20266	30266	
SC-42	1/8	9/16	1/8	10268	20268	30268	
SC-42L2	1/8	9/16	1/8	10270	20270	30270	
SC-42L3	1/8	9/16	1/8	10272	20272	30272	
SC-11	1/8	1/2	1/4	10274	20274	30274	
SC-12	1/8	5/8	1/4	10276	20276	30276	
SC-52	5/32	1/2	1/8	10278	20278	30278	
SC-13	5/32	5/8	1/4	10280	20280	30280	
SC-53	3/16	1/2	1/8	10282	20282	30282	
SC-81	3/16	5/8	3/16	10284	20284	30284	
SC-14	3/16	5/8	1/4	10286	20286	30286	
SC-51	1/4	1/2	1/8	10288	20288	30288	
SC-1	1/4	5/8	1/4	10290	20290	30290	
SC-1L	1/4	1	1/4	10292	20292	30292	
SC-1L6	1/4	1/2	1/4	10294	20294	30294	
SC-1NF	1/4	5/8	1/4				40296
SC-2	5/16	3/4	1/4	10298	20298	30298	
SC-3	3/8	3/4	1/4	10300	20300	30300	
SC-3L	3/8	1	1/4	10302	20302	30302	
SC-3L6	3/8	3/4	1/4	10304	20304	30304	
SC-3X	3/8	1-1/2	1/4	10306	20306	30306	
SC-3NF	3/8	3/4	1/4				40308
SC-4	7/16	1	1/4	10310	20310	30310	
SC-5	1/2	1	1/4	10312	20312	30312	
SC-5L6	1/2	1	1/4	10314	20314	30314	
SC-5NF	1/2	1	1/4				40316
SC-6	5/8	1	1/4	10318	20318	30318	
SC-6NF	5/8	1	1/4				40320
SC-15	3/4	1/2	1/4	10322	20322	30322	
SC-16	3/4	3/4	1/4	10324	20324	30324	
SC-7	3/4	1	1/4	10326	20326	30326	
SC-7NF	3/4	1	1/4				40328
SC-9	1	1	1/4	10330	20330	30330	

SD**Ball Shape
Carbide Burr****Application Materials:**

- Contouring
- Hole Deburring
- Build-up Welding Preparation

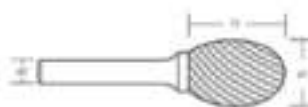


Tool	DIA(D1)	LOC(L1)	Shank(D2)	Single Cut	Double Cut	Diamond Cut	N/F Cut
SD-40	1/16	1/16	1/8	10332	20332	30332	
SD-61	3/32	3/32	3/32	10334	20334	30334	
SD-41	3/32	3/32	1/8	10336	20336	30336	
SD-42	1/8	1/8	1/8	10338	20338	30338	
SD-42L2	1/8	1/8	1/8	10340	20340	30340	
SD-42L3	1/8	1/8	1/8	10342	20342	30342	
SD-11	1/8	3/32	1/4	10344	20344	30344	
SD-52	5/32	5/32	1/8	10346	20346	30346	
SD-53	3/16	5/32	1/8	10348	20348	30348	
SD-81	3/16	5/32	3/16	10350	20350	30350	
SD-14	3/16	1/8	1/4	10352	20352	30352	
SD-51	1/4	7/32	1/8	10354	20354	30354	
SD-1	1/4	7/32	1/4	10356	20356	30356	
SD-1L6	1/4	7/32	1/4	10358	20358	30358	
SD-1NF	1/4	7/32	1/4				40360
SD-2	5/16	1/4	1/4	10362	20362	30362	
SD-3	3/8	5/16	1/4	10364	20364	30364	
SD-3L6	3/8	5/16	1/4	10366	20366	30366	
SD-3NF	3/8	5/16	1/4				40368
SD-4	7/16	3/8	1/4	10370	20370	30370	
SD-5	1/2	7/16	1/4	10372	20372	30372	
SD-5L6	1/2	7/16	1/4	10374	20374	30374	
SD-5NF	1/2	7/16	1/4				40376
SD-6	5/8	9/16	1/4	10378	20378	30378	
SD-6NF	5/8	9/16	1/4				40380
SD-7	3/4	11/16	1/4	10382	20382	30382	
SD-7NF	3/4	11/16	1/4				40384
SD-9	1	15/16	1/4	10386	20386	30386	

SE

Oval / Egg Shape
Carbide Burr

Application Materials:
- Contouring

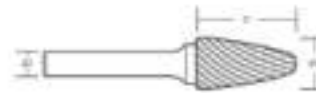


Tool	DIA(D1)	LOC(L1)	Shank(D2)	Single Cut	Double Cut	Diamond Cut	N/F Cut
SE-61	3/32	1/8	3/32	10388	20388	30388	
SE-41	1/8	7/32	1/8	10390	20390	30390	
SE-41L2	1/8	7/32	1/8	10392	20392	30392	
SE-41L3	1/8	7/32	1/8	10394	20394	30394	
SE-53	3/16	9/32	1/8	10396	20396	30396	
SE-81	3/16	9/32	3/16	10398	20398	30398	
SE-11	3/16	5/16	1/4	10400	20400	30400	
SE-61	1/4	3/8	1/8	10402	20402	30402	
SE-1	1/4	3/8	1/4	10406	20406	30406	
SE-1L6	1/4	3/8	1/4	10408	20408	30408	
SE-3	3/8	5/8	1/4	10410	20410	30410	
SE-3L6	3/8	5/8	1/4	10412	20412	30412	
SE-3NF	3/8	5/8	1/4				40414
SE-5	1/2	7/8	1/4	10416	20416	30416	
SE-5L6	1/2	7/8	1/4	10418	20418	30418	
SE-5NF	1/2	7/8	1/4				40420
SE-6	5/8	1	1/4	10422	20422	30422	
SE-6NF	5/8	1	1/4				40424
SE-7	3/4	1	1/4	10426	20426	30426	
SE-7NF	3/4	1	1/4				40428

SF

**Tree Shape
With Radius**
Carbide Burr

Application Materials:
- Narrow Contours



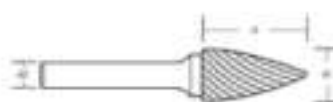
Tool	DIA(D1)	LOC(L1)	Shank(D2)	Single Cut	Double Cut	Diamond Cut	N/F Cut
SF-61	3/32	1/4	3/32	10430	20430	30430	
SF-41	1/8	1/4	1/8	10432	20432	30432	
SF-42	1/8	1/2	1/8	10434	20434	30434	
SF-42L2	1/8	1/2	1/8	10436	20436	30436	
SF-42L3	1/8	1/2	1/8	10438	20438	30438	
SF-11	1/8	1/2	1/4	10440	20440	30440	
SF-53	3/16	1/2	1/8	10442	20442	30442	
SF-81	3/16	1/2	3/16	10444	20444	30444	
SF-51	1/4	1/2	1/8	10446	20446	30446	
SF-1	1/4	5/8	1/4	10448	20448	30448	
SF-1L6	1/4	1/2	1/4	10450	20450	30450	
SF-1NF	1/4	5/8	1/4				40452
SF-3	3/8	3/4	1/4	10454	20454	30454	
SF-3L6	3/8	3/4	1/4	10456	20456	30456	
SF-3NF	3/8	3/4	1/4				40458
SF-4	7/16	1	1/4	10460	20460	30460	
SF-13	1/2	3/4	1/4	10462	20462	30462	
SF-5	1/2	1	1/4	10464	20464	30464	
SF-5L6	1/2	1	1/4	10466	20466	30466	
SF-5NF	1/2	1	1/4				40468
SF-6	5/8	1	1/4	10470	20470	30470	
SF-6NF	5/8	1	1/4				40472
SF-7	3/4	1	1/4	10474	20474	30474	
SF-7NF	3/4	1	1/4				40476
SF-14	3/4	1-1/4	1/4	10478	20478	30478	
SF-14NF	3/4	1-1/4	1/4				40480
SF-15	3/4	1-1/2	1/4	10482	20482	30482	

SG

**Tree Shape
Pointed Style**
Carbide Burr

Application Materials:

- Acute Angle Milling
- Narrow Contouring



Tool	DIA(D1)	LOC(L1)	Shank(D2)	Single Cut	Double Cut	Diamond Cut
SG-61	3/32	1/4	3/32	10484	20484	30484
SG-41	1/8	1/4	1/8	10486	20486	30486
SG-42	1/8	5/16	1/8	10488	20488	30488
SG-43	1/8	3/8	1/8	10490	20490	30490
SG-44	1/8	1/2	1/8	10492	20492	30492
SG-44L2	1/8	1/2	1/8	10494	20494	30494
SG-44L3	1/8	1/2	1/8	10496	20496	30496
SG-53	3/16	1/2	1/8	10498	20498	30498
SG-81	3/16	1/2	3/16	10500	20500	30500
SG-51	1/4	1/2	1/8	10502	20502	30502
SG-1	1/4	5/8	1/4	10504	20504	30504
SG-1L6	1/4	1/2	1/4	10506	20506	30506
SG-2	5/16	3/4	1/4	10508	20508	30508
SG-3	3/8	3/4	1/4	10510	20510	30510
SG-3L6	3/8	3/4	1/4	10512	20512	30512
SG-13	1/2	3/4	1/4	10514	20514	30514
SG-5	1/2	1	1/4	10516	20516	30516
SG-5L6	1/2	1	1/4	10518	20518	30518
SG-6	5/8	1	1/4	10520	20520	30520
SG-7	3/4	1	1/4	10522	20522	30522
SG-15	3/4	1-1/2	1/4	10524	20524	30524

SH

Flame Shape
Carbide Burr

Application Materials:

- Contouring
- Milling



Tool	DIA(D1)	LOC(L1)	Shank(D2)	Single Cut	Double Cut	Diamond Cut
SH-41	1/8	1/4	1/8	10526	20526	30526
SH-41L2	1/8	1/4	1/8	10528	20528	30528
SH-41L3	1/8	1/4	1/8	10530	20530	30530
SH-53	3/16	3/8	1/8	10532	20532	30532
SH-1	1/4	5/8	1/4	10534	20534	30534
SH-2	5/16	3/4	1/4	10536	20536	30536
SH-2L6	5/16	3/4	1/4	10538	20538	30538
SH-5	1/2	1-1/4	1/4	10540	20540	30540
SH-5L6	1/2	1-1/4	1/4	10542	20542	30542
SH-6	5/8	1-7/16	1/4	10544	20544	30544
SH-7	3/4	1-5/8	1/4	10546	20546	30546

SJ

60° Cone Shape
Carbide Burr

Application Materials:

- Acute Angle Machining
- Chamfering
- Countersinking



Tool	DIA.(D1)	LOC.(L1)	Shank.(D2)	Single Cut	Double Cut	Diamond Cut
SJ-42	1/8	1/16	1/8	10548	20548	30548
SJ-42 D.E.	1/8	1/16	1/8	10550	20550	30550
SJ-81	3/16	3/32	3/16	10552	20552	30552
SJ-81 D.E.	3/16	3/32	3/16	10554	20554	30554
SJ-1	1/4	1/8	1/4	10556	20556	30556
SJ-1 D.E.	1/4	3/16	1/4	10558	20558	30558
SJ-3	3/8	3/16	1/4	10560	20560	30560
SJ-5	1/2	1/4	1/4	10562	20562	30562
SJ-6	5/8	5/16	1/4	10564	20564	30564
SJ-7	3/4	3/8	1/4	10566	20566	30566
SJ-9	1	1/2	1/4	10568	20568	30568

SK

90° Cone Shape
Carbide Burr

Application Materials:

- Acute Angle Machining
- Chamfering
- Countersinking



Tool	DIA(D1)	LOC(L1)	Shank(D2)	Single Cut	Double Cut	Diamond Cut
SK-42	1/8	1/16	1/8	10570	20570	30570
SK-42 D.E.	1/8	1/16	1/8	10572	20572	30572
SK-31	3/16	3/32	3/16	10574	20574	30574
SK-31 D.E.	3/16	3/32	3/16	10576	20576	30576
SK-1	1/4	1/8	1/4	10578	20578	30578
SK-3	3/8	3/16	1/4	10580	20580	30580
SK-5	1/2	1/4	1/4	10582	20582	30582
SK-6	5/8	5/16	1/4	10584	20584	30584
SK-7	3/4	3/8	1/4	10586	20586	30586
SK-9	1	1/2	1/4	10588	20588	30588

SL

**Taper Shape
With Radius**
Carbide Burr

Application Materials:
- Surface Machining
- Narrow Contours / Surfaces



Tool	DIA(D1)	LOC(L1)	Shank(D2)	Included	Single Cut	Double Cut	Diamond Cut	N/F Cut
SL-41	1/8	3/8	1/8	14°	10590	20590	30590	
SL-42	1/8	1/2	1/8	14°	10592	20592	30592	
SL-42L2	1/8	1/2	1/8	14°	10594	20594	30594	
SL-42L3	1/8	1/2	1/8	14°	10596	20596	30596	
SL-53	3/16	1/2	1/8	14°	10598	20598	30598	
SL-81	3/16	1/2	3/16	14°	10600	20600	30600	
SL-51	1/4	1/2	1/8	14°	10602	20602	30602	
SL-1	1/4	5/8	1/4	14°	10604	20604	30604	
SL-1L6	1/4	5/8	1/4	14°	10608	20608	30608	
SL-1NF	1/4	5/8	1/4	14°				40610
SL-2	5/16	7/8	1/4	14°	10612	20612	30612	
SL-3	3/8	1-1/16	1/4	14°	10614	20614	30614	
SL-3L6	3/8	1-1/16	1/4	14°	10616	20616	30616	
SL-3NF	3/8	1-1/16	1/4	14°				40618
SL-4	1/2	1-1/8	1/4	14°	10620	20620	30620	
SL-4L6	1/2	1-1/8	1/4	14°	10622	20622	30622	
SL-4NF	1/2	1-1/8	1/4	14°				40624
SL-5	5/8	1-3/16	1/4	14°	10626	20626	30626	
SL-5NF	5/8	1-3/16	1/4	14°				40628
SL-6	5/8	1-5/16	1/4	14°	10630	20630	30630	
SL-6NF	5/8	1-5/16	1/4	14°				40632
SL-7	3/4	1-1/2	1/4	14°	10634	20634	30634	
SL-7NF	3/4	1-1/2	1/4	14°				40636

SM

Pointed Cone Shape
Carbide Burr

Application Materials:

- Surface Machining
- Narrow Contouring



Tool	DIA(D1)	LOC(L1)	Shank(D2)	Included	Single Cut	Double Cut	Diamond Cut
SM-61	3/32	1/4	3/32	10°	10638	20638	30638
SM-41	1/8	11/32	1/8	12°	10640	20640	30640
SM-42	1/8	7/16	1/8	14°	10642	20642	30642
SM-42L2	1/8	7/16	1/8	14°	10644	20644	30644
SM-42L3	1/8	7/16	1/8	14°	10646	20646	30646
SM-43	1/8	5/8	1/8	7°	10648	20648	30648
SM-53	3/16	1/2	1/8	16°	10650	20650	30650
SM-51	1/4	1/2	1/8	22°	10652	20652	30652
SM-1	1/4	1/2	1/4	22°	10654	20654	30654
SM-1L6	1/4	1/2	1/4	22°	10656	20656	30656
SM-2	1/4	3/4	1/4	14°	10658	20658	30658
SM-3	1/4	1	1/4	10°	10660	20660	30660
SM-3L6	1/4	1	1/4	10°	10662	20662	30662
SM-4	3/8	5/8	1/4	28°	10664	20664	30664
SM-4L6	3/8	5/8	1/4	28°	10666	20666	30666
SM-5	1/2	7/8	1/4	28°	10668	20668	30668
SM-5L6	1/2	7/8	1/4	28°	10670	20670	30670
SM-6	5/8	1	1/4	31°	10672	20672	30672

SN

Inverted Cone Shape
Carbide Burr

Application Materials:

- Edge Milling
- Rear Machining
- Difficult to Reach Areas



Tool	DIA.(D1)	LOC.(L1)	Shank(D2)	Included	Single Cut	Double Cut	Diamond Cut
SN-61	3/32	1/8	3/32	10°	10674	20674	30674
SN-41	3/32	1/8	1/8	10°	10676	20676	30676
SN-42	1/8	3/16	1/8	10°	10678	20678	30678
SN-53	3/16	1/4	1/8	10°	10680	20680	30680
SN-81	3/16	1/4	3/16	10°	10682	20682	30682
SN-51	1/4	1/4	1/8	10°	10684	20684	30684
SN-1	1/4	5/16	1/4	10°	10686	20686	30686
SN-2	3/8	3/8	1/4	13°	10688	20688	30688
SN-4	1/2	1/2	1/4	28°	10690	20690	30690
SN-6	5/8	3/4	1/4	18°	10692	20692	30692
SN-7	3/4	5/8	1/4	30°	10694	20694	30694



Resharpen Like New

Continental Abrasives offers a CNC tool reconditioning service that restores your worn carbide tools to the original manufacturer's geometries (with or without coating) for like-new performance and reliability.

Reconditioning is an affordable way to make your tooling investment last longer and to achieve continued top performance of your carbide tools. Compared to the cost of purchasing new tools, reconditioning gives you the quality and performance of a new tool at a fraction of the cost. With repeated reconditioning, your tooling costs can be reduced by 50% or more. The savings add up with each reconditioning service.



Miniature

Miniature Carbide Burrs

Application Materials:

- Deburring
- Engraving



Tool	DIA(D1)	LOC(L1)	Shank(D2)	Single Cut	Double Cut	Diamond Cut
SA-41	1/16	1/4	1/8	10696	20696	30696
SA-41L2	1/16	1/4	1/8	10698	20698	30698
SA-41L3	1/16	1/4	1/8	10700	20700	30700
SA-42	3/32	7/16	1/8	10702	20702	30702
SA-42L2	3/32	7/16	1/8	10704	20704	30704
SA-42L3	3/32	7/16	1/8	10706	20706	30706
SA-43	1/8	9/16	1/8	10708	20708	30708
SA-43L2	1/8	9/16	1/8	10710	20710	30710
SA-43L3	1/8	9/16	1/8	10712	20712	30712
SB-41	1/16	1/4	1/8	10714	20714	30714
SB-41L2	1/16	1/4	1/8	10716	20716	30716
SB-41L3	1/16	1/4	1/8	10718	20718	30718
SB-42	3/32	7/16	1/8	10720	20720	30720
SB-42L2	3/32	7/16	1/8	10722	20722	30722
SB-42L3	3/32	7/16	1/8	10724	20724	30724
SB-43	1/8	9/16	1/8	10726	20726	30726
SB-43L2	1/8	9/16	1/8	10728	20728	30728
SB-43L3	1/8	9/16	1/8	10730	20730	30730
SC-41	3/32	7/16	1/8	10732	20732	30732
SC-42	1/8	9/16	1/8	10734	20734	30734
SC-42L2	1/8	9/16	1/8	10736	20736	30736
SC-42L3	1/8	9/16	1/8	10738	20738	30738
SD-41	3/32	3/32	1/8	10740	20740	30740
SD-42	1/8	1/8	1/8	10742	20742	30742
SD-42L2	1/8	1/8	1/8	10744	20744	30744
SD-42L3	1/8	1/8	1/8	10746	20746	30746
SE-41	1/8	7/32	1/8	10748	20748	30748
SE-41L2	1/8	7/32	1/8	10750	20750	30750
SE-41L3	1/8	7/32	1/8	10752	20752	30752





Tool	DIA(D1)	LOC(L1)	Shank(D2)	Included	Single Cut	Double Cut	Diamond Cut
SF-41	1/8	1/4	1/8		10754	20754	30754
SF-42	1/8	1/2	1/8		10756	20756	30756
SF-42L2	1/8	1/2	1/8		10768	20768	30768
SF-42L3	1/8	1/2	1/8		10760	20760	30760
SG-41	1/8	1/4	1/8		10762	20762	30762
SG-42	1/8	5/16	1/8		10764	20764	30764
SG-43	1/8	3/8	1/8		10766	20766	30766
SG-44	1/8	1/2	1/8		10768	20768	30768
SG-44L2	1/8	1/2	1/8		10770	20770	30770
SG-44L3	1/8	1/2	1/8		10772	20772	30772
SH-41	1/8	1/4	1/8		10774	20774	30774
SH-41L2	1/8	1/4	1/8		10776	20776	30776
SH-41L3	1/8	1/4	1/8		10778	20778	30778
SJ-42	1/8	3/32	1/8	60°	10780	20780	30780
SJ-42 D.E.	1/8	3/32	1/8	60°	10782	20782	30782
SK-42	1/8	1/16	1/8	90°	10784	20784	30784
SK-42 D.E.	1/8	1/16	1/8	90°	10786	20786	30786
SL-41	1/8	3/8	1/8	14°	10788	20788	30788
SL-42	1/8	1/2	1/8	14°	10790	20790	30790
SL-42L2	1/8	1/2	1/8	14°	10792	20792	30792
SL-42L3	1/8	1/2	1/8	14°	10794	20794	30794
SM-41	1/8	11/32	1/8	12°	10796	20796	30796
SM-42	1/8	7/16	1/8	14°	10798	20798	30798
SM-42L2	1/8	7/16	1/8	14°	10800	20800	30800
SM-42L3	1/8	7/16	1/8	14°	10802	20802	30802
SM-43	1/8	5/8	1/8	7°	10804	20804	30804
SN-41	3/32	1/8	1/8	10°	10806	20806	30806
SN-42	1/8	3/16	1/8	10°	10808	20808	30808



Flexiburr

Flexiburr Carbide Carbide Head

Application Materials:

Deburring on hard to reach areas on impellers, pump housings, and all Castings. Good for the cleaning of burnt sand, welding and blending operations.

Sc

Tool	DIA(D1)	LOC(L1)	Shank(D2)	6"	8"	10"	12"
SC-51	1/4	1/2	1/8	80002	80014	80024	80034
SC-1	1/4	5/8	1/4	80004	80016	80026	80036
SC-3	3/8	3/8	1/4	80006	80018	80028	80038
SC-5	1/2	1/2	1/4	80010	80020	80030	80040

SD

Tool	DIA(D1)	LOC(L1)	Shank(D2)	6"	8"	10"	12"
SD-42	1/8	1/8	1/8	80044	80060	80078	80094
SD-81	3/16	5/32	1/8	80046	80062	80080	80096
SD-51	1/4	7/32	1/8	80048	80064	80082	80098
SD-1	1/4	7/32	1/4	80050	80066	80084	80100
SD-2	5/16	1/4	1/4	80052	80068	80086	80102
SD-3	3/8	5/16	1/4	80054	80070	80088	80104
SD-4	7/16	3/8	1/4	80056	80072	80090	80106
SD-5	1/2	7/16	1/4	80058	80074	80092	80108
SD-6	5/8	9/16	1/4	80059	80076	80094	80110

SE

Tool	DIA(D1)	LOC(L1)	Shank(D2)	6"	8"	10"	12"
SE-51	1/4	3/8	1/8	80112	80120	80128	80136
SE-1	1/4	3/8	1/4	80114	80122	80130	80138
SE-3	3/8	5/8	1/4	80116	80124	80132	80138
SE-5	1/2	7/8	1/4	80118	80126	80134	80140

SF

Tool	DIA(D1)	LOC(L1)	Shank(D2)	6"	8"	10"	12"
SF-51	1/4	1/2	1/8	80142	80150	80158	80166
SF-1	1/4	5/8	1/4	80144	80152	80160	80168
SF-3	3/8	3/4	1/4	80146	80154	80162	80170
SF-5	1/2	1	1/4	80148	80156	80164	80172

FG

**FiberGlass
Routers**
Solid Carbide

Application Materials:
Application: Routing on highly
abrasive materials such as
fiberglass, graphite, Kevlar and
composites.



No End Cut

DIA(D1)	LOC(L1)	Shank(D2)	OAL	EDP#
1/16	3/16	1/8	1-1/2	50102
3/32	3/8	1/8	1-1/2	50104
1/8	1/2	1/8	1-1/2	50106
3/16	5/8	3/16	2	50108
3/16	5/8	1/4	2	50110
1/4	3/4	1/4	2	50112
1/4	3/4	1/4	2-1/2	50114
1/4	1	1/4	3	50116
5/16	1	5/16	2-1/2	50118
3/8	1	3/8	2-1/2	50120
1/2	1	1/2	3	50122



Burr End Cut

DIA(D1)	LOC(L1)	Shank(D2)	OAL	EDP#
1/16	3/16	1/8	1-1/2	50124
3/32	3/8	1/8	1-1/2	50126
1/8	1/2	1/8	1-1/2	50128
3/16	5/8	3/16	2	50130
3/16	5/8	1/4	2	50132
1/4	3/4	1/4	2	50134
1/4	3/4	1/4	2-1/2	50136
1/4	1	1/4	3	50138
5/16	1	5/16	2-1/2	50140
3/8	1	3/8	2-1/2	50142
1/2	1	1/2	3	50144



End Mill Style

DIA(D1)	LOC(L1)	Shank(D2)	OAL	EDP#
1/16	3/16	1/8	1-1/2	50146
3/32	3/8	1/8	1-1/2	50148
1/8	1/2	1/8	1-1/2	50150
3/16	5/8	3/16	2	50152
3/16	5/8	1/4	2	50154
1/4	3/4	1/4	2	50156
1/4	3/4	1/4	2-1/2	50158
1/4	1	1/4	3	50160
5/16	1	5/16	2-1/2	50162
3/8	1	3/8	2-1/2	50164
1/2	1	1/2	3	50166



135 Drill Point Style

DIA(D1)	LOC(L1)	Shank(D2)	OAL	EDP#
1/16	3/16	1/8	1-1/2	50168
3/32	3/8	1/8	1-1/2	50170
1/8	1/2	1/8	1-1/2	50172
3/16	5/8	3/16	2	50174
3/16	5/8	1/4	2	50176
1/4	3/4	1/4	2	50178
1/4	3/4	1/4	2-1/2	50180
1/4	1	1/4	3	50182
5/16	1	5/16	2-1/2	50184
3/8	1	3/8	2-1/2	50186
1/2	1	1/2	3	50188



Fishtail Style

DIA(D1)	LOC(L1)	Shank(D2)	OAL	EDP#
1/16	3/16	1/8	1-1/2	50190
3/32	3/8	1/8	1-1/2	50192
1/8	1/2	1/8	1-1/2	50194
3/16	5/8	3/16	2	50196
3/16	5/8	1/4	2	50198
1/4	3/4	1/4	2	50200
1/4	3/4	1/4	2-1/2	50202
1/4	1	1/4	3	50204
5/16	1	5/16	2-1/2	50206
3/8	1	3/8	2-1/2	50208
1/2	1	1/2	3	50210

Countersinks

Countersink
Solid Carbide

Application Materials:

- Chamfering
- Countersinking



1 Flute

DIA _(D1)	Shank _(D2)	OAL	60 DEG	82 DEG	90 DEG	100 DEG	120 DEG
1/8	1/8	1-1/2	70102	70104	70106	70108	70110
3/16	3/16	2	70352	70354	70356	70358	70360
1/4	1/4	2	70112	70114	70116	70118	70120
3/8	1/4	2-1/2	70122	70124	70126	70128	70130
1/2	3/8	2-1/2	70132	70134	70136	70138	70140
5/8	3/8	2-1/2	70142	70144	70146	70148	70150
3/4	1/2	3	70152	70154	70156	70158	70160
1	1/2	3	70162	70164	70166	70168	70170
1-1/4	3/4	3-1/2	70172	70174	70176	70178	70180
1-1/2	3/4	3-1/2	70182	70184	70186	70188	70190



3 Flute

DIA _(D1)	Shank _(D2)	OAL	60 DEG	82 DEG	90 DEG	100 DEG	120 DEG
1/8	1/8	1-1/2	70192	70194	70196	70198	70200
3/16	3/16	2	70362	70364	70366	70368	70370
1/4	1/4	2	70202	70204	70206	70208	70210
3/8	1/4	2-1/2	70212	70214	70216	70218	70220
1/2	3/8	2-1/2	70222	70224	70226	70228	70230
5/8	3/8	2-1/2	70232	70234	70236	70238	70240
3/4	1/2	3	70242	70244	70246	70248	70250
1	1/2	3	70252	70254	70256	70258	70260
1-1/4	3/4	3-1/2	70262	70264	70266	70268	70270
1-1/2	3/4	3-1/2	70272	70274	70276	70278	70280



4 Flute

DIA _(D1)	Shank _(D2)	OAL	60 DEG	82 DEG	90 DEG	100 DEG	120 DEG
1/8	1/8	1-1/2	70282	70284	70286	70288	70290
1/4	1/4	2	70292	70294	70296	70298	70300
3/8	1/4	2-1/2	70302	70304	70306	70308	70310
1/2	3/8	2-1/2	70312	70314	70316	70318	70320
5/8	3/8	2-1/2	70322	70324	70326	70328	70330
3/4	1/2	3	70332	70334	70336	70338	70340
1	1/2	3	70342	70344	70346	70348	70350



6 Flute

DIA _(D1)	Shank _(D2)	OAL	60 DEG	82 DEG	90 DEG	100 DEG	120 DEG
1/8	1/8	1-1/2	70372	70374	70376	70378	70380
3/16	3/16	2	70382	70384	70386	70388	70390
1/4	1/4	2	70392	70394	70396	70398	70400
5/16	1/4	2	70402	70404	70406	70408	70410
3/8	1/4	2-1/2	70412	70414	70416	70418	70420
1/2	1/4	2-1/2	70422	70424	70426	70428	70430
5/8	3/8	2-3/4	70432	70434	70436	70438	70440
3/4	3/8	3	70442	70444	70446	70448	70450
7/8	1/2	3	70452	70454	70456	70458	70460
1	1/2	3	70462	70464	70466	70468	70470
1-1/4	3/4	3-1/2	70472	70474	70476	70478	70480
1-1/2	3/4	3-1/2	70482	70484	70486	70488	70490

Pilot Die Trimmers

Pilot Die Trimmers
Solid Carbide

Application Materials:
Deburring the pilot keeps the tool from scouring the surface of the work piece.



Pilot Die Trimmers

DIA(D1)	LOC(L1)	Shank(D2)	OAL	Pilot Length	EDP#
1/8	1	1/8	2-1/2	1/2	60102
1/8	1	1/8	3	1/2	60104
3/16	1	3/16	2-1/2	1/2	60106
1/4	1	1/4	2-1/2	1/2	60108
1/4	1	1/4	3	1/2	60110
3/8	1	3/8	2-1/2	1/2	60112
1/2	1-1/2	1/2	3	5/8	60114
1/2	2	1/2	4	5/8	60116

Multi-Mill

Multi-Mill
Solid Carbide

Application Materials:
Milling designed to work on hard metals (Rockwell 40C or harder) Multi-mills are more efficient than conventional mill, good for stainless, titanium and high temperature alloys.



Multi-Mill

DIA(D1)	LOC(L1)	Shank(D2)	OAL	Square	Endcut	Ball
1/8	1/2	1/8	1-1/2	90010	90026	90044
5/32	1/2	3/16	2	90012	90028	90046
3/16	1/2	3/16	2	90013	90030	90048
7/32	5/8	1/4	2	90014	90032	90050
1/4	3/4	1/4	2-1/2	90016	90034	90052
5/16	3/4	5/16	2-1/2	90018	90036	90054
3/8	7/8	3/8	2-1/2	90020	90038	90056
1/2	1	1/2	2-1/2	90022	90040	90058
5/8	1-1/2	5/8	3-1/2	90024	90042	90060

Compression Routers

Compression Routers
Solid Carbide

Application Materials:

These routers are designed to perform on a wide range of materials such as composites, wood laminates, plastics, CFRP's and other abrasives materials.



Compression Routers

DIA(D1)	LOC(L1)	Shank(D2)	OAL	Flutes	Uncoated	D Coated
1/4	3/4	3/4	2-1/2	2	90062	90100
1/4	1	1	2-1/2	2	90064	90102
1/4	1	1	2-1/2	4	90066	90104
1/4	1-1/4	1-1/4	2-1/2	2	90068	90106
3/8	1	1	3	2	90070	90108
3/8	1	1	3	4	90072	90110
1/2	1	1	3	2	90074	90112
1/2	1	1	3	4	90076	90114
1/2	1-1/8	1-1/8	3	2	90078	90116
1/2	1-1/4	1-1/4	4	2	90080	90118
1/2	1-3/8	1-3/8	3	2	90082	90120
1/2	1-3/8	1-3/8	3	4	90084	90122
1/2	1-1/2	1-1/2	4	2	90086	90124
1/2	1-5/8	1-5/8	4	2	90088	90126
5/8	1-5/8	1-5/8	4	2	90090	90128
5/8	1-7/8	1-7/8	5	2	90092	90130
5/8	2-1/4	2-1/4	5	2	90094	90132
3/4	1-5/8	1-5/8	4	2	90096	90134
3/4	2-1/2	2-1/2	5	2	90098	90136

Carbide Burr Speed Recommendations

Burr Diameter	Recommended Cutting Speed (RPM)	Max Cutting Speed (RPM)
1/16	60,000-90,000	100,000
3/32	40,000-70,000	90,000
5/32	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"	4,000-8000	12,500

Operating Speed Recommendations:

- Lower RPM speeds for harder materials
- Higher RPM when using small burs
- Lower RPM speeds when using long series burs

Additional Information:

Running burs below recommended RPM may cause chipping.

Do not use worn-out tools and collets. Running burs at faster than recommended speeds will cause teeth to wear prematurely. Make sure to apply constant pressure and steady action.

Warning:

A general guide to speeds is given in the table above. However, the final selection of cutting speed for a particular operation can only be made by the end user taking all factors into account and by preliminary trial.

Carbide Burr Cut Selection				
Material	Single Cut	Double Cut	NF Cut	Diamond Cut
Aluminum			•	
Bronze	•	•		•
Brass	•	•		
Cast Iron		•		•
Copper			•	•
Carbone Fiber			•	
Fiberglass				•
Inconel	•	•		
Magnesium			•	
Plastic	•		•	
Hard Rubber		•		
Steel-45-55Rc		•		
Steel-55-60Rc		•		
Steel-Carbon		•		
Steel-Nickle Chrome		•		
Steel- Stainless		•		
Steel-Weldments		•		
Titanium		•		
Zinc			•	

Additional Cut Styles:

- Fine Single Cut
- Coarse Single Cut
- Chip Breaker
- Deep Double Cut (Aggressive cut for maximum stock removal)
- NF cut with chip breaker cut for rapid stock removal

