

ULTRATOOL Carbide Rotary Files (Burrs)

Cut Style #1

Standard Cut is a general purpose style designed for cast iron, steel, and other ferrous materials. It will achieve very high material removal rates and good workpiece finishes. The second most popular style after Dura-Cut.

★ Stocked Inventory

#2

Fine Cut improves finishes on hardened steel, stainless steel, and cast iron. Operator control is improved. The excellent finish, however, comes with reduced stock removal rates.

Available by Special Order

#3

Coarse Cut is recommended for use on soft material such as copper, brass, aluminum, plastics, and rubber, where chip loading is a problem, and the rapid stock removal rates of Fast-Mill is not practical.

#4

Dura-Cut allows for rapid stock removal in harder materials. The addition of left hand flutes reduces the pulling action, allowing better operator control. It reduces the size of the chips and can be used at slower than normal speeds.

★ Stocked Inventory

#5

Coarse-Dura Cut is for fast stock removal in soft materials, with improved operator control over Coarse Cut. The addition of the left-hand Dura also reduces chip size.

Available by Special Order

#6

Fine-Dura Cut is very effective in heat treated and tough alloy steels. The Dura addition reduces the size of the chips and offers excellent operator control and surface finish.

#8

Diamond Cut is very effective in heat treated and tough alloy steels, making extremely small, powder-like chips. It offers very good operator control and stock removal at the sacrifice of some finish and tool life characteristics.

new!



Only Ultra-Tool® offers a full range of cut styles for your specific application needs. Primary stocking styles are #1 Standard and #4 Dura-Cut; other styles available upon quotation / POA. All styles are precision CNC ground to the best quality standards for a truly high-end product. Now available with TA coating as standard.

ULTRATOOL® BURRS & SETS ALSO AVAILABLE IN METRIC CONFIGURATION:

Furnished on 6mm or 3mm shanks. Add 70000 to displayed EDP# (#04001 becomes #74001). Add "M" to Style description (SA-5 becomes MSA-5). Two-piece construction burrs retain fractional head diameters & LOC.

OAL Information for Series 40 thru 53: All burrs with body diameter of greater than 1/4" have Ultra-Carb heads brazed to a 1.75" or 2" hardened steel shank with a 1/4" or 6mm diameter unless otherwise noted. All burrs with a body diameter of 1/4" or less are manufactured from solid Ultra-Carb and are 2-inch (51 mm) overall length.

ULTRATOOL® Burr Sets

Series 600 • Burr Sets

12 Piece • Set contains 1 each

SA-43 SA-42 SC-42 SD-42
SE-41 SF-42 SF-41 SG-41
SM-43 SH-41 SN-42 SL-41

Cut	EDP#	Price	Coated
#1	00001	\$54.00	\$66.00
#4	00004	\$56.70	\$68.70

Series 601 • Burr Sets

9 Piece • Set contains 1 each

SA-51 SB-51 SC-51
SD-51 SE-51 SF-51
SG-51 SM-51 SN-51

Cut	EDP#	Price	Coated
#1	00101	\$72.50	\$84.20
#4	00104	\$76.10	\$87.80

Series 604 • Burr Sets

10 Piece • Set contains 1 each

SA-1 SC-12 SE-1 SN-1
SA-14 SF-1 SM-2
SC-1 SG-1 SL-1

Cut	EDP#	Price	Coated
#1	00401	\$92.60	\$115.60
#4	00404	\$97.20	\$120.20

Series 605 • Burr Sets

9 Piece • Set contains 1 each

SA-1 SC-1 SF-1
SA-3 SC-3 SF-3
SA-5 SC-5 SF-5

Cut	EDP#	Price	Coated
#1	00501	\$114.40	\$144.40
#4	00504	\$120.00	\$150.00

Series 606 • Burr Sets

10 Piece • Set contains 1 each

SA-5 SF-5 SG-3 SD-5
SC-5 SF-3 SE-3
SC-3 SG-5 SL-4

Cut	EDP#	Price	Coated
#1	00601	\$152.50	\$191.10
#4	00604	\$161.70	\$200.30



ULTRATOOL Carbide Rotary Files (Burrs)

Series 40



SB Style: Cylindrical Shape with End Cut

Burr Specifications:
Shank Diameter 1/4"
Add "M" for 6mm shank

Tool Name	Diam	LOC	#1			#4		
			Standard EDP#	UnCoated Price	Coated Price	DuraCut EDP#	UnCoated Price	Coated Price
SB-12	1/8	5/8	04001	\$9.10	\$11.40	04049	\$9.50	\$11.80
SB-14	3/16	5/8	04002	\$9.00	\$11.30	04050	\$9.40	\$11.70
SB-1	1/4	5/8	04003	\$8.40	\$10.70	04051	\$8.80	\$11.10
SB-1A	1/4	1"	04004	\$12.80	\$15.10	04052	\$13.40	\$15.70
SB-2	5/16	3/4	04005	\$11.70	\$14.90	04053	\$12.30	\$15.50
SB-2A	5/16	1"	04006	\$14.00	\$17.20	04054	\$14.70	\$17.90
SB-3	3/8	3/4	04007	\$12.60	\$15.80	04055	\$13.20	\$16.40
SB-3A	3/8	1"	04008	\$14.60	\$17.80	04056	\$15.30	\$18.50
SB-3B	3/8	1-1/2	04009	\$17.40	\$20.60	04057	\$18.30	\$21.50
SB-4	7/16	1"	04010	\$18.30	\$22.60	04058	\$19.20	\$23.50
SB-5	1/2	1"	04011	\$19.10	\$23.40	04059	\$21.60	\$25.90
SB-6	5/8	1"	04012	\$26.10	\$32.20	04060	\$27.50	\$33.60
SB-15	3/4	1/2	04013	\$37.00	\$44.10	04061	\$38.90	\$46.00
SB-16	3/4	3/4	04014	\$39.00	\$46.10	04062	\$41.00	\$48.10
SB-7	3/4	1"	04015	\$39.40	\$46.50	04063	\$41.40	\$48.50
SB-9	1"	1"	04016	\$54.50	\$63.80	04064	\$57.30	\$66.60

Series 41



SA Style: Cylindrical Shape

Burr Specifications:
Shank Diameter 1/4"
Add "M" for 6mm shank

Tool Name	Diam	LOC	#1			#4		
			Standard EDP#	UnCoated Price	Coated Price	DuraCut EDP#	UnCoated Price	Coated Price
SA-12	1/8	5/8	04101	\$8.10	\$10.40	04149	\$8.60	\$10.90
SA-14	3/16	5/8	04102	\$7.90	\$10.20	04150	\$8.30	\$10.60
SA-1	1/4	5/8	04103	\$7.00	\$9.30	04151	\$7.40	\$9.70
SA-1A	1/4	1"	04104	\$10.80	\$13.10	04152	\$11.30	\$13.60
SA-2	5/16	3/4	04105	\$9.90	\$13.10	04153	\$10.40	\$13.60
SA-2A	5/16	1"	04106	\$11.90	\$15.10	04154	\$12.50	\$15.70
SA-3	3/8	3/4	04107	\$10.60	\$13.80	04155	\$11.20	\$14.40
SA-3A	3/8	1"	04108	\$12.40	\$15.60	04156	\$13.00	\$16.20
SA-3B	3/8	1-1/2	04109	\$14.70	\$17.90	04157	\$15.50	\$18.70
SA-4	7/16	1"	04110	\$14.10	\$18.40	04158	\$15.20	\$19.50
SA-5	1/2	1"	04111	\$14.80	\$19.10	04159	\$15.50	\$19.80
SA-6	5/8	1"	04112	\$20.80	\$26.90	04160	\$22.20	\$28.30
SA-15	3/4	1/2	04113	\$31.20	\$38.30	04161	\$33.70	\$40.80
SA-16	3/4	3/4	04114	\$33.00	\$40.10	04162	\$35.70	\$42.80
SA-7	3/4	1"	04115	\$34.00	\$41.00	04163	\$36.70	\$43.80
SA-9	1"	1"	04116	\$41.80	\$51.10	04164	\$43.60	\$52.90

Series 42



SC Style: Cylindrical Ball Nose Shape

Burr Specifications:
Shank Diameter 1/4"
Add "M" for 6mm shank

Tool Name	Diam	LOC	#1			#4		
			Standard EDP#	UnCoated Price	Coated Price	DuraCut EDP#	UnCoated Price	Coated Price
SC-12	1/8	5/8	04201	\$9.00	\$11.30	04249	\$9.40	\$11.70
SC-14	3/16	5/8	04202	\$9.00	\$11.30	04250	\$9.40	\$11.70
SC-1	1/4	5/8	04203	\$8.70	\$11.00	04251	\$9.20	\$11.50
SC-1A	1/4	1"	04204	\$11.80	\$14.10	04252	\$12.30	\$14.60
SC-2	5/16	3/4	04205	\$10.90	\$14.10	04253	\$11.40	\$14.60
SC-2A	5/16	1"	04206	\$13.20	\$16.40	04254	\$13.80	\$17.00
SC-3	3/8	3/4	04207	\$12.00	\$15.20	04255	\$12.50	\$15.70
SC-3A	3/8	1"	04208	\$13.70	\$16.90	04256	\$14.30	\$17.50
SC-3B	3/8	1-1/2	04209	\$14.40	\$17.60	04257	\$15.20	\$18.40
SC-4	7/16	1"	04210	\$17.20	\$21.50	04258	\$18.10	\$22.40
SC-5	1/2	1"	04211	\$18.70	\$23.00	04259	\$19.60	\$23.90
SC-6	5/8	1"	04212	\$25.80	\$31.90	04260	\$27.00	\$33.10
SC-7	3/4	1"	04215	\$36.40	\$43.50	04263	\$38.30	\$45.40

Series 43



SD Style: Ball Shape

Burr Specifications:
Shank Diameter 1/4"
Add "M" for 6mm shank

Tool Name	Diam	LOC	#1			#4		
			Standard EDP#	UnCoated Price	Coated Price	DuraCut EDP#	UnCoated Price	Coated Price
SD-12	1/8	7/64	04301	\$8.50	\$10.80	04349	\$8.90	\$11.20
SD-14	3/16	11/64	04302	\$8.40	\$10.70	04350	\$8.80	\$11.10
SD-1	1/4	7/32	04303	\$8.20	\$10.50	04351	\$8.60	\$10.90
SD-2	5/16	17/64	04305	\$8.70	\$11.90	04353	\$9.20	\$12.40
SD-3	3/8	5/16	04307	\$10.30	\$13.50	04355	\$10.80	\$14.00
SD-4	7/16	3/8	04310	\$12.70	\$17.00	04358	\$13.40	\$17.70
SD-5	1/2	7/16	04311	\$13.90	\$18.20	04359	\$14.60	\$18.90
SD-6	5/8	17/32	04312	\$18.70	\$24.80	04360	\$19.70	\$25.80
SD-7	3/4	21/32	04315	\$26.10	\$33.20	04363	\$27.40	\$34.50
SD-9	1"	29/32	04316	\$44.80	\$54.10	04364	\$47.00	\$56.30

Series 44



SE Style: Egg Shape

Burr Specifications:
Shank Diameter 1/4"
Add "M" for 6mm shank

Tool Name	Diam	LOC	#1			#4		
			Standard EDP#	UnCoated Price	Coated Price	DuraCut EDP#	UnCoated Price	Coated Price
SE-11	3/16	5/16	04402	\$10.20	\$12.50	04450	\$10.70	\$13.00
SE-1	1/4	3/8	04403	\$10.00	\$12.30	04451	\$10.50	\$12.80
SE-3	3/8	5/8	04407	\$12.10	\$15.30	04455	\$12.60	\$15.80
SE-5	1/2	7/8	04411	\$18.30	\$22.60	04459	\$19.20	\$23.50
SE-6	5/8	1"	04412	\$25.60	\$31.70	04460	\$26.80	\$32.90
SE-7	3/4	1"	04415	\$34.20	\$41.30	04463	\$35.80	\$42.90

Series 45



SF Style: Round Tree Shape

Burr Specifications:
Shank Diameter 1/4"
Add "M" for 6mm shank

Tool Name	Diam	LOC	#1			#4		
			Standard EDP#	UnCoated Price	Coated Price	DuraCut EDP#	UnCoated Price	Coated Price
SF-1	1/4	5/8	04503	\$9.30	\$11.60	04551	\$9.70	\$12.00
SF-3	3/8	3/4	04507	\$11.80	\$15.00	04555	\$12.30	\$15.50
SF-13	1/2	3/4	04510	\$17.30	\$21.60	04558	\$18.20	\$22.50
SF-5	1/2	1"	04511	\$18.10	\$22.40	04559	\$19.00	\$23.30
SF-6	5/8	1"	04512	\$25.00	\$31.10	04560	\$26.20	\$32.30
SF-7	3/4	1"	04515	\$30.90	\$38.00	04563	\$32.40	\$39.50
SF-14	3/4	1-1/4	04516	\$37.10	\$44.20	04564	\$39.00	\$46.10
SF-15	3/4	1-1/2	04517	\$47.60	\$54.70	04565	\$49.90	\$57.00

Series 46



SG Style: Pointed Tree Shape

Burr Specifications:
Shank Diameter 1/4"
Add "M" for 6mm shank

Tool Name	Diam	LOC	#1			#4		
			Standard EDP#	UnCoated Price	Coated Price	DuraCut EDP#	UnCoated Price	Coated Price
SG-1	1/4	5/8	04603	\$9.30	\$11.60	04651	\$9.70	\$12.00
SG-2	5/16	3/4	04605	\$10.90	\$14.10	04653	\$11.40	\$14.60
SG-3	3/8	5/8	04607	\$11.80	\$15.00	04655	\$12.30	\$15.50
SG-13	1/2	3/4	04610	\$17.30	\$21.60	04658	\$18.20	\$22.50
SG-5	1/2	1"	04611	\$18.10	\$22.40	04659	\$19.00	\$23.30
SG-6	5/8	1"	04612	\$25.10	\$31.20	04660	\$26.30	\$32.40
SG-7	3/4	1"	04615	\$33.00	\$40.10	04663	\$34.70	\$41.80
SG-15	3/4	1-1/2	04617	\$47.60	\$54.70	04665	\$49.90	\$57.00

Series 47



SM Style: Cone Shape

Burr Specifications:
Shank Diameter 1/4"
Add "M" for 6mm shank

Tool Name	Diam	Inc Ang	LOC	#1			#4		
				Standard EDP#	UnCoated Price	Coated Price	DuraCut EDP#	UnCoated Price	Coated Price
SM-1	1/4	22°	1/2	04703	\$9.00	\$11.30	04751	\$9.40	\$11.70
SM-2	1/4	14°	3/4	04705	\$9.40	\$11.70	04753	\$9.90	\$12.20
SM-3	1/4	10°	1"	04707	\$10.90	\$13.20	04755	\$11.40	\$13.70
SM-3A	1/4	8°	1-1/4	04710	\$12.40	\$14.70	04758	\$13.00	\$15.30
SM-4	3/8	28°	5/8	04711	\$15.00	\$18.20	04759	\$15.70	\$18.90
SM-5	1/2	28°	7/8	04712	\$19.70	\$24.00	04760	\$20.70	\$25.00
SM-6	5/8	31°	1"	04715	\$26.90	\$33.00	04763	\$28.30	\$34.40

Series 48



SL Style: 14° Included Angle Shape

Burr Specifications:
Shank Diameter 1/4"
Add "M" for 6mm shank

Tool Name	Diam	LOC	#1			#4		
			Standard EDP#	UnCoated Price	Coated Price	DuraCut EDP#	UnCoated Price	Coated Price
SL-1	1/4	5/8	04802	\$9.40	\$11.70	04850	\$9.90	\$12.20
SL-2	5/16	7/8	04803	\$12.50	\$15.70	04851	\$13.10	\$16.30
SL-3	3/8	1-1/16	04807	\$14.90	\$18.10	04855	\$15.60	\$18.80
SL-4	1/2	1-1/8	04811	\$18.60	\$22.90	04859	\$19.50	\$23.80
SL-6	5/8	1-5/16	04812	\$34.20	\$40.30	04860	\$35.80	\$41.90
SL-7	3/4	1-1/2	04815	\$49.70	\$56.80	04863	\$52.20	\$59.30

Series 49



SH Style: Flame Shape

Burr Specifications:
Shank Diameter 1/4"
Add "M" for 6mm shank

Tool Name	Diam	LOC	#1			#4		
			Standard EDP#	UnCoated Price	Coated Price	DuraCut EDP#	UnCoated Price	Coated Price
SH-1	1/4	5/8	04902	\$10.90	\$13.20	04950	\$11.40	\$13.70
SH-2	5/16	3/4	04903	\$12.40	\$15.60	04951	\$13.00	\$16.20
SH-5	1/2	1-1/4	04907	\$26.10	\$30.40	04955	\$27.50	\$31.80
SH-6	5/8	1-7/16	04911	\$36.20	\$42.30	04959	\$38.10	\$44.20
SH-7	3/4	1-5/8	04912	\$49.90	\$57.00	04960	\$52.40	\$59.50

Series 50



SK Style: 90° Included Angle Shape

Burr Specifications:
Shank Diameter 1/4"
Add "M" for 6mm shank

Tool Name	Diam	LOC	#1			#4		
			Standard EDP#	UnCoated Price	Coated Price	DuraCut EDP#	UnCoated Price	Coated Price
SK-1	1/4	1/8	05003	\$8.70	\$11.00	05051	\$9.10	\$11.40
SK-2	5/16	5/32	05005	\$10.80	\$14.00	05053	\$11.30	\$14.50
SK-3	3/8	3/16	05007	\$11.20	\$14.40	05055	\$11.80	\$15.00
SK-5	1/2	1/4	05010	\$14.40	\$18.70	05058	\$15.10	\$19.40
SK-6	5/8	5/16	05011	\$19.00	\$25.10	05059	\$19.90	\$26.00
SK-7	3/4	3/8	05012	\$25.10	\$32.20	05060	\$26.30	\$33.40
SK-8	7/8	7/16	05015	\$33.10	\$42.40	05063	\$34.70	\$44.00
SK-9	1"	1/2	05017	\$40.00	\$49.30	05065	\$42.00	\$51.30

Series 51



SJ Style: 60° Included Angle Shape

Burr Specifications:
Shank Diameter 1/4"
Add "M" for 6mm shank

Tool Name	Diam	LOC	#1			#4		
			Standard EDP#	UnCoated Price	Coated Price	DuraCut EDP#	UnCoated Price	Coated Price
SJ-1	1/4	3/16	05103	\$8.70	\$11.00	05151	\$9.10	\$11.40
SJ-2	5/16	1/4	05105	\$10.80	\$14.00	05153	\$11.30	\$14.50
SJ-3	3/8	1/4	05107	\$11.20	\$14.40	05155	\$11.80	\$15.00
SJ-5	1/2	7/16	05110	\$14.40	\$18.70	05158	\$15.10	\$19.40
SJ-6	5/8	1/2	05111	\$19.00	\$25.10	05159	\$19.90	\$26.00
SJ-7	3/4	5/8	05112	\$25.10	\$32.20	05160	\$26.30	\$33.40
SJ-8	7/8	3/4	05115	\$33.10	\$42.40	05163	\$34.70	\$44.00
SJ-9	1"	3/4	05117	\$40.00	\$49.30	05165	\$42.00	\$51.30

Series 52



SN Style: Inverted Cone Shape

Burr Specifications:
Shank Diameter 1/4"
Add "M" for 6mm shank

Tool Name	Diam	LOC	#1			#4		
			Standard EDP#	UnCoated Price	Coated Price	DuraCut EDP#	UnCoated Price	Coated Price
SN-1	1/4	5/16	05202	\$10.00	\$12.30	05250	\$10.50	\$12.80
SN-2	3/8	3/8	05203	\$14.50	\$17.70	05251	\$15.20	\$18.40
SN-3	1/2	1/2	05207	\$20.70	\$25.00	05255	\$21.60	\$25.90
SN-6	5/8	3/4	05211	\$26.00	\$32.10	05259	\$27.30	\$33.40
SN-7	3/4	5/8	05212	\$32.70	\$39.80	05260	\$34.30	\$41.40

Series 53



SN-E Style: Inverted Cone Shape with End Cut

Burr Specifications:
Shank Diameter 1/4"
Add "M" for 6mm shank

Tool Name	Diam	LOC	#1			#4		
			Standard EDP#	UnCoated Price	Coated Price	DuraCut EDP#	UnCoated Price	Coated Price
SN-1E	1/4	5/16	05302	\$11.00	\$13.30	05350	\$11.60	\$13.90
SN-2E	3/8	3/8	05303	\$15.40	\$18.60	05351	\$16.20	\$19.40
SN-3E	1/2	1/2	05307	\$23.60	\$27.90	05355	\$24.80	\$29.10
SN-6E	5/8	3/4	05311	\$29.20	\$35.30	05359	\$30.60	\$36.70
SN-7E	3/4	5/8	05312	\$37.70	\$44.80	05360	\$39.60	\$46.70

ULTRATOOL® Solid Carbide Construction Burrs • 1/16 to 3/16" Diameter

Series 59 Solid Carbide Construction • 1-1/2" OAL • 1/8" Diameter Shank

For Metric sizing (1.5mm - 3.0mm Diam, 38mm OAL, 3mm shank), add 70000 to displayed EDP.



Burr Specifications:
Shank Diameter 1/8"
Add "M" for 3mm shank

SA-43 • 1/8x9/16

			
Cut	EDP#	Price	Coated
#1	05901	\$3.80	\$4.80
#4	05904	\$4.30	\$5.30

SD-42 • 1/8 Ball

			
Cut	EDP#	Price	Coated
#1	05949	\$4.30	\$5.30
#4	05952	\$4.80	\$5.80

SF-42 • 1/8x1/2

			
Cut	EDP#	Price	Coated
#1	05997	\$4.30	\$5.30
#4	15901	\$4.80	\$5.80


SM-42 • 1/8x7/16 14°IncTaper

			
Cut	EDP#	Price	Coated
#1	15946	\$4.30	\$5.30
#4	15949	\$4.80	\$5.80

SA-42 • 3/32x7/16

			
Cut	EDP#	Price	Coated
#1	05909	\$3.80	\$4.80
#4	05912	\$4.30	\$5.30

SD-41 • 3/32 Ball

			
Cut	EDP#	Price	Coated
#1	05957	\$4.30	\$5.30
#4	05960	\$4.80	\$5.80

SF-41 • 1/8x1/4

			
Cut	EDP#	Price	Coated
#1	15906	\$4.30	\$5.30
#4	15909	\$4.80	\$5.80


SM-43 • 1/8x5/8 7°IncTaper

			
Cut	EDP#	Price	Coated
#1	15954	\$4.30	\$5.30
#4	15957	\$4.80	\$5.80

SA-41 • 1/16x1/4

			
Cut	EDP#	Price	Coated
#1	05917	\$4.30	\$5.30
#4	05920	\$4.80	\$5.80

SE-41 • 1/8x1/4

			
Cut	EDP#	Price	Coated
#1	05965	\$4.30	\$5.30
#4	05968	\$4.80	\$5.80

SG-44 • 1/8x1/2

			
Cut	EDP#	Price	Coated
#1	15914	\$4.30	\$5.30
#4	15917	\$4.80	\$5.80

SL-41 • 1/8x3/8 8°IncTaper

			
Cut	EDP#	Price	Coated
#1	15962	\$4.30	\$5.30
#4	15965	\$4.80	\$5.80

SB-41 • 1/8

			
Cut	EDP#	Price	Coated
#1	05925	\$4.30	\$5.30

SH-41 • 1/8x1/4

			
Cut	EDP#	Price	Coated
#1	05973	\$4.30	\$5.30
#4	05976	\$4.80	\$5.80


SG-43 • 1/8x3/8

			
Cut	EDP#	Price	Coated
#1	15922	\$4.30	\$5.30
#4	15925	\$4.80	\$5.80

SL-42 • 1/8x1/2 8°IncTaper

			
Cut	EDP#	Price	Coated
#1	15970	\$4.30	\$5.30
#4	15973	\$4.80	\$5.80


SC-42 • 1/8x9/16

			
Cut	EDP#	Price	Coated
#1	05933	\$4.30	\$5.30
#4	05936	\$4.80	\$5.80

SN-42 • 1/8x3/16

			
Cut	EDP#	Price	Coated
#1	05981	\$4.30	\$5.30
#4	05984	\$4.80	\$5.80

SG-41 • 1/8x1/4

			
Cut	EDP#	Price	Coated
#1	15930	\$4.30	\$5.30
#4	15933	\$4.80	\$5.80

SK-42 • 1/8 90° Inc Taper

			
Cut	EDP#	Price	Coated
#1	15978	\$4.30	\$5.30
#4	15981	\$4.80	\$5.80


SC-41 • 3/32x7/16

			
Cut	EDP#	Price	Coated
#1	05941	\$4.30	\$5.30
#4	05944	\$4.80	\$5.80

SN-41 • 3/32x1/8

			
Cut	EDP#	Price	Coated
#1	05989	\$4.30	\$5.30
#4	05992	\$4.80	\$5.80

SM-41 • 1/8x11/32 12°IncTaper

			
Cut	EDP#	Price	Coated
#1	15938	\$4.30	\$5.30
#4	15941	\$4.80	\$5.80

SJ-42 • 1/8 60° Inc Taper

			
Cut	EDP#	Price	Coated
#1	15986	\$4.30	\$5.30
#4	15989	\$4.80	\$5.80

Series 71 Solid Carbide Construction • 2" OAL • 1/8" Diameter Shank

For Metric sizing (4mm & 4.75mm Diam, 51mm OAL, 3mm shank), add 70000 to displayed EDP.




Burr Specifications:
Shank Diameter 1/8"
Add "M" for 3mm shank


SA-53 • 3/16x1/2" LOC

			
Cut	EDP#	Price	Coated
#1	07101	\$10.70	\$12.00
#4	07104	\$11.90	\$13.20

SN-53 • 3/16x1/4 10°IncTaper

			
Cut	EDP#	Price	Coated
#1	07135	\$10.70	\$12.00
#4	07138	\$11.90	\$13.20


SH-53 • 3/16x3/8" LOC

			
Cut	EDP#	Price	Coated
#1	07159	\$10.70	\$12.00
#4	07162	\$11.90	\$13.20


SG-53 • 3/16x1/2" LOC

			
Cut	EDP#	Price	Coated
#1	07183	\$10.70	\$12.00
#4	07186	\$11.90	\$13.20

SA-52 • 5/32x1/2" LOC

			
Cut	EDP#	Price	Coated
#1	07109	\$10.70	\$12.00
#4	07122	\$11.90	\$13.20


SC-53 • 3/16x1/2" LOC

			
Cut	EDP#	Price	Coated
#1	07143	\$10.70	\$12.00
#4	07146	\$11.90	\$13.20

SM-53 • 3/16x1/2 16°IncTaper

			
Cut	EDP#	Price	Coated
#1	07167	\$10.70	\$12.00
#4	07170	\$11.90	\$13.20


SE-53 • 3/16x9/32" LOC

			
Cut	EDP#	Price	Coated
#1	07191	\$10.70	\$12.00
#4	07194	\$11.90	\$13.20


SF-53 • 3/16x1/2" LOC

			
Cut	EDP#	Price	Coated
#1	07127	\$10.70	\$12.00
#4	07130	\$11.90	\$13.20


SD-53 • 3/16" Ball

			
Cut	EDP#	Price	Coated
#1	07151	\$10.70	\$12.00
#4	07154	\$11.90	\$13.20

SC-52 • 5/32x1/2" LOC

			
Cut	EDP#	Price	Coated
#1	07175	\$10.70	\$12.00
#4	07178	\$11.90	\$13.20

SL-53 • 3/16x1/2 14°IncTaper

			
Cut	EDP#	Price	Coated
#1	07300	\$10.70	\$12.00
#4	07303	\$11.90	\$13.20

ULTRATOOL Carbide Rotary Files (Burs)

SA-51 • 1/2" LOC

Series 70 1/4" Diameter Carbide Head • 1/8" Steel Shank • 2" max OAL

For Metric sizing, add 70000 to displayed EDP #. Diameter = 6.4mm, 3.0mm Shank, 38mm Shank Length

Cut	EDP#	Price	Coated
#1	07001	\$7.70	\$9.00
#4	07004	\$8.60	\$9.90



Burr Specifications:
Shank Diameter 1/8"
Add "M" for 3mm shank

All Cut Styles available with TA coating.

SB-51 • 3/16" LOC

SC-51 • 1/2" LOC

SG-51 • 1/2" LOC

SE-51 • 3/8" LOC

Cut	EDP#	Price	Coated
#1	07009	\$7.70	\$9.00
#4	07022	\$8.60	\$9.90

Cut	EDP#	Price	Coated
#1	07035	\$7.70	\$9.00
#4	07038	\$8.60	\$9.90

Cut	EDP#	Price	Coated
#1	07051	\$7.70	\$9.00
#4	07054	\$8.60	\$9.90

Cut	EDP#	Price	Coated
#1	07067	\$7.70	\$9.00
#4	07070	\$8.60	\$9.90

SD-51 • 1/4" LOC

SF-51 • 1/2" LOC

SM-51 • 1/2" LOC 22°

SN-51 • 1/4" LOC 10°

Cut	EDP#	Price	Coated
#1	07027	\$7.70	\$9.00
#4	07030	\$8.60	\$9.90

Cut	EDP#	Price	Coated
#1	07043	\$7.70	\$9.00
#4	07046	\$8.60	\$9.90

Cut	EDP#	Price	Coated
#1	07059	\$7.70	\$9.00
#4	07062	\$8.60	\$9.90

Cut	EDP#	Price	Coated
#1	07075	\$7.70	\$9.00
#4	07078	\$8.60	\$9.90

ULTRATOOL Fast Mill Non-Ferrous Cut Carbide Rotary Files (Burs)

Cut #7 Non-Ferrous Cut Style • 1/4" Shank

For Metric sizing, add 70000 to displayed EDP#; shank diameter = 6.0mm.

Fast-Mill is designed specifically for use on non-ferrous and non-metal materials. Designed for rapid stock removal with minimum chip load. The best selection for rapid removal of aluminum. These tools more resemble form tools than traditional burrs; each is CNC ground with with high precision, tight tolerances, and superb surface finishes.

Our #7 Fast Mill non-ferrous cut is available with TC (or A1 upon request) coating.

Burr Specifications:
Shank Diameter 1/4"
Add "M" for 6mm shank



Style	# flutes	FastMill EDP#	UnCoated Price	Coated Price
SA-1 #7	6	04199	\$10.50	\$13.50
SA-3 #7	6	14104	\$15.00	\$19.80
SA-5 #7	8	14108	\$22.60	\$28.60
SB-1 #7	6	04099	\$11.70	\$14.70
SB-3 #7	6	14004	\$17.60	\$22.40
SB-5 #7	8	14008	\$28.80	\$34.80
SC-1 #7	6	04299	\$12.20	\$15.20
SC-3 #7	6	14204	\$16.70	\$21.50
SC-5 #7	8	14208	\$26.10	\$32.10
SD-1 #7	6	04399	\$11.60	\$14.60
SD-3 #7	6	14303	\$14.40	\$19.20
SD-5 #7	8	14308	\$19.50	\$25.50
SE-3 #7	6	14403	\$16.80	\$21.60
SE-5 #7	8	14408	\$25.50	\$31.50
SF-1 #7	6	04599	\$13.00	\$16.00
SF-3 #7	6	14503	\$16.40	\$21.20
SF-5 #7	8	14508	\$25.30	\$31.30
SF-5 #7spl	6	14506	\$25.30	\$31.30
SF-14 #7	12	14513	\$51.90	\$61.90
SL-3 #7	6	14803	\$20.80	\$25.60
SL-4 #7	8	14808	\$26.10	\$32.10

ULTRATOOL BURRS & SETS ALSO AVAILABLE IN METRIC CONFIGURATION:

Furnished on 6mm or 3mm shanks. Add 70000 to displayed EDP# (#04001 becomes #74001). Add "M" to Style description (SA-5 becomes MSA-5). Two-piece construction burrs retain fractional head diameters & LOC.

Extended Length ULTRATOOL® Burrs

SB, SA, SC, SD, SE, SF, SG, SH & SL Styles with 6" Extended Length Shanks

Series 54



Our most popular burr shapes & cut styles are now offered with 6" long shanks for extended reach. Also available with 6mm diameter metric shanks (add 70000 to displayed EDP# or "M" to tool name).

Burr Specifications:
Shank Diameter 1/4"
Add "M" for 6mm shank

Tool Name	Diam	LOC	#1			#4			#8		
			Standard EDP#	UnCoated Price	Coated Price	DuraC EDP#	UnCoated Price	Coated Price	Diamond EDP#	UnCoated Price	Coated Price
SB-1L6	1/4	1/2	03024	\$17.00	\$22.00	03050	\$17.80	\$22.80	03076	\$20.40	\$25.40
SB-3L6	3/8	3/4	03025	\$21.60	\$28.50	03051	\$22.70	\$29.50	03077	\$25.90	\$32.70
SB-5L6	1/2	1"	03026	\$28.20	\$35.70	03052	\$29.60	\$37.00	03078	\$33.90	\$41.30
SA-1L6	1/4	1/2	03001	\$14.80	\$19.80	03027	\$15.50	\$20.50	03053	\$17.70	\$22.70
SA-3L6	3/8	3/4	03002	\$18.80	\$25.60	03028	\$19.80	\$26.50	03054	\$22.60	\$29.40
SA-5L6	1/2	1"	03003	\$24.60	\$32.00	03029	\$25.80	\$33.20	03055	\$29.40	\$36.80
SC-1L6	1/4	1/2	03004	\$14.80	\$19.80	03030	\$15.50	\$20.50	03056	\$17.70	\$22.70
SC-3L6	3/8	3/4	03005	\$18.80	\$25.60	03031	\$19.80	\$26.50	03057	\$22.60	\$29.40
SC-5L6	1/2	1"	03006	\$26.70	\$34.20	03032	\$28.10	\$35.50	03058	\$32.10	\$39.50
SD-1L6	1/4	7/32	03007	\$14.80	\$19.80	03033	\$15.50	\$20.50	03059	\$17.70	\$22.70
SD-3L6	3/8	5/16	03008	\$18.80	\$25.60	03034	\$19.80	\$26.50	03060	\$22.60	\$29.40
SD-5L6	1/2	7/16	03009	\$24.60	\$32.00	03035	\$25.80	\$33.20	03061	\$29.40	\$36.80
SE-1L6	1/4	3/8	03010	\$15.30	\$20.30	03036	\$16.10	\$21.10	03062	\$18.40	\$23.40
SE-3L6	3/8	5/8	03011	\$18.80	\$25.60	03037	\$19.80	\$26.50	03063	\$22.60	\$29.40
SE-5L6	1/2	7/8	03012	\$27.20	\$34.60	03038	\$28.50	\$35.90	03064	\$32.60	\$40.00
SF-1L6	1/4	1/2	03013	\$15.90	\$20.90	03039	\$16.70	\$21.70	03065	\$19.10	\$24.10
SF-3L6	3/8	3/4	03014	\$18.80	\$25.60	03040	\$19.80	\$26.50	03066	\$22.60	\$29.40
SF-5L6	1/2	1"	03015	\$25.30	\$32.70	03041	\$26.50	\$34.00	03067	\$30.30	\$37.70
SG-1L6	1/4	1/2	03016	\$14.80	\$19.80	03042	\$15.50	\$20.50	03068	\$17.70	\$22.70
SG-3L6	3/8	3/4	03017	\$18.80	\$25.60	03043	\$19.80	\$26.50	03069	\$22.60	\$29.40
SG-5L6	1/2	1"	03018	\$26.00	\$33.40	03044	\$27.30	\$34.70	03070	\$31.20	\$38.60
SH-2L6	5/16	3/4	03019	\$18.80	\$25.60	03045	\$19.80	\$26.50	03071	\$22.60	\$29.40
SH-5L6	1/2	1-1/4	03020	\$36.10	\$43.50	03046	\$37.90	\$45.30	03072	\$43.30	\$50.70
SL-1L6	1/4	5/8	03021	\$15.90	\$20.90	03047	\$16.70	\$21.70	03073	\$19.10	\$24.10
SL-3L6	3/8	1-1/16	03022	\$28.50	\$35.30	03048	\$29.90	\$36.70	03074	\$34.10	\$40.90
SL-4L6	1/2	1-1/8	03023	\$30.30	\$37.70	03049	\$31.90	\$39.30	03075	\$36.40	\$43.80

Solid Carbide ULTRATOOL® Piloted Die Trimmers

new!

Series 341

Solid Carbide Piloted Die Trimmers
Double "Dura-Cut" Style • Right Hand Cut • Non-Cutting Pilot



These die trimming burrs have a cylindrical, non-cutting pilot with OD tolerance of +.0000 / -.0003 (before coating) to prevent scoring of the die beyond the intended work area. The double Dura-Cut style allows for easy operator control and rapid material removal. Available UnCoated (UC) or with TA SmoothCoat.

ULTRA-Grain®

UC TA

ULTRA-Grain®

UC TA

Diam	LOC	Pilot Lgth	OAL	Shank	EDP#	Price	Coated	Diam	LOC	Pilot Lgth	OAL	Shank	EDP#	Price	Coated
1/8	1"	1/2	2-1/2	1/8	34168	\$30.70	\$33.00	3.0mm	25	12	63	3.0	34174	\$30.70	\$33.00
3/16	1"	1/2	2-1/2	3/16	34169	\$33.20	\$36.10	4.0mm	25	12	63	4.0	34175	\$32.50	\$35.10
1/4	1"	1/2	2-1/2	1/4	34170	\$35.00	\$38.80	5.0mm	25	12	63	5.0	34176	\$33.20	\$36.10
1/4	1"	1/2	3"	1/4	34171	\$37.10	\$40.90	6.0mm	25	12	63	6.0	34177	\$35.00	\$38.80
3/8	1"	1/2	2-1/2	3/8	34172	\$47.10	\$52.20	8.0mm	25	12	63	8.0	34178	\$43.40	\$47.80
1/2	1"	1/2	2-1/2	1/2	34173	\$66.50	\$73.40	10.0mm	25	12	70	10.0	34179	\$60.50	\$67.20

Application Data for ULTRATOOL® Drills



Drilling speeds and feeds are based upon hole depth of up to 3X diameter. For deeper hole ratios reduce speeds and feeds by 10% to 25%.



Drilling;
Fractional

Material	SFPM	SFPM	1/16"	1/8"	3/16"	1/4"	5/16"	3/8"	7/16"	1/2"	5/8"	3/4"
Steel	UnCoated	SmoothCoat										
1018 / 1020	100 to 250	100 to 300	.0010	.0030	.0050	.0070	.0090	.0100	.0110	.0120	.0140	.0160
4140 / 4340 / P20	60 to 230	60 to 260	.0010	.0030	.0050	.0070	.0090	.0100	.0110	.0120	.0140	.0160
Stainless Steel												
303 / 304 / 316	60 to 150	60 to 200	.0010	.0030	.0050	.0060	.0070	.0080	.0090	.0100	.0120	.0140
410 / 420 / 440C	40 to 100	40 to 150	.0010	.0030	.0050	.0060	.0070	.0080	.0090	.0100	.0120	.0140
15-5/17-4 ≤ 32HRc	75 to 175	75 to 200	.0010	.0015	.0025	.0040	.0050	.0060	.0070	.0080	.0090	.0100
15-5/17-4 ≥ 32HRc	50 to 125	50 to 150	.0005	.0010	.0015	.0025	.0030	.0035	.0038	.0040	.0050	.0060
13-8 / 316L	60 to 150	60 to 200	.0010	.0030	.0050	.0060	.0070	.0080	.0090	.0100	.0120	.0140
Tool Steel												
A2/D2/H13 ≤ 32HRc	60 to 150	60 to 200	.0010	.0015	.0025	.0040	.0050	.0060	.0070	.0080	.0090	.0100
A2/D2/H13 ≥ 32HRc	40 to 100	40 to 150	.0005	.0010	.0015	.0025	.0028	.0030	.0035	.0040	.0050	.0060
Titanium												
6Al-4V	40 to 150	40 to 175	.0005	.0010	.0020	.0025	.0028	.0030	.0035	.0040	.0050	.0060
High Temp Alloys												
Inconel 625	30 to 70	30 to 80	.0010	.0015	.0025	.0040	.0050	.0060	.0070	.0080	.0090	.0100
Inconel 718	30 to 45	30 to 50	.0005	.0010	.0020	.0025	.0028	.0030	.0035	.0040	.0050	.0060
Cast Iron												
Gray Iron ≤ 32HRc	150 to 300	150 to 350	.0010	.0030	.0050	.0070	.0085	.0100	.0110	.0120	.0140	.0160
Ductile Iron	150 to 300	150 to 350	.0010	.0030	.0050	.0070	.0085	.0100	.0110	.0120	.0140	.0160
Non-Ferrous												
6061 T6 Aluminum	250 to 750	250 to 1000	.0010	.0030	.0050	.0070	.0085	.0100	.0110	.0120	.0140	.0160
Copper, Brass, Bronze	150 to 400	150 to 500	.0010	.0030	.0050	.0070	.0085	.0100	.0110	.0120	.0140	.0160
Plastic	250 to 1000	250 to 1000	.0010	.0030	.0050	.0070	.0085	.0100	.0110	.0120	.0140	.0160

Drill Specifications:

Diameter: +.0000 / -.0003

LOC: +.060 / -.090

OAL: +.060 / -.090

Point Angle: ±1°

Helix Angle: ±1°

Note: Series 560 Combined Drill/C'sink:

Body Diameter: +.0000 / -.0003

Drill Diameter: +.003 / -.000

Ultra-Tool® drills feature diameter tolerances 40% tighter than industry standards. Plus, all shanks are SFR (shrink-fit ready).

Try our drills with standard SmoothCoat for a superb leap in lubricity, productivity, and tool life.



Complete range of Brad Point drills with D1 coating!

Application Data for ULTRATOOL® Burrs

Burr Diam	Diam Metric	# Flutes Std Cut	RPM*	Max. RPM
1/16	1.6 mm	6	60,000 - 90,000	100,000
1/8	3.2 mm	12	40,000 - 70,000	80,000
3/16	4.8 mm	15	35,000 - 60,000	70,000
1/4	6.3 mm	16	30,000 - 50,000	60,000
5/16	8.0 mm	18	20,000 - 40,000	52,000
3/8	9.5 mm	20	20,000 - 40,000	52,000
7/16	11.0 mm	22	15,000 - 40,000	50,000
1/2	12.7 mm	24	15,000 - 40,000	45,000
5/8	16.0 mm	28	12,000 - 25,000	30,000
3/4	19.0 mm	30	10,000 - 20,000	24,000
1"	25.4 mm	36	7,500 - 20,000	22,000

*Speeds are for Standard Cut. Reduce by approximately 25% with addition of Dura-Cut. Fine Cut increases flute count approximately 50%. Decrease speed accordingly. Coarse Cut decreases flute count approximately 20%. Increase speed accordingly. Lower listed speeds when cutting harder ferrous materials.

Ultra-Tool® Burrs feature higher hardness and a greater flute count than most competing brands for increased tool life.

Burr heads and solid carbide burrs are manufactured from Ultra-Carb®. Shanks are high speed steel hardened to a rating of 45-48 Rockwell C.



#1 Standard, #2 Fine, #3 Coarse, #4 DuraCut, #5 CoarseDura, #6 FineDura, #7 Fast Mill, #8 Diamond. In the event of extended lead times the next closest cut style within the same pricing category may be substituted to enhance service levels.

Burr Specifications:

Standard cylindrical helix angle: 30° ± 2°

Cutting Diameter: ± .010

Flute Count: ± 1

Shank Diameter: +0 / -.0005, TIR max .002

Brazed Burr TIR: max .005

Taper Angles: ± 1°