



CARBIDE BURR GUIDE

800-645-5555
www.klingspor.com

Speed Guide



The way to use the speed guide below:

1. Select application and material group
2. Identify the appropriate cut style.
3. Select burr diameter.
4. Follow maximum rotational speed.
5. Identify recommended cutting speed.

Part Number Example:

KCB - SF - 5 DC

Klingspor
Carbide
Burr

Shape

Size

DC - Double Cut
SC - Single Cut
NF - Non-Ferrous

How to Select Your Burr 1.

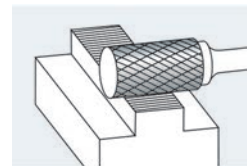
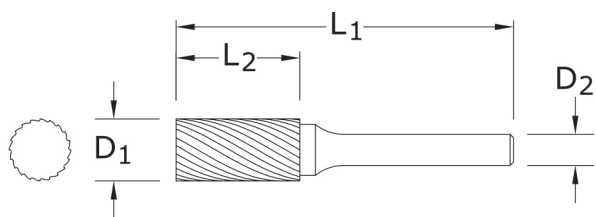
Applications	Material	Cut	
Efficient stock removal - deburring, finishing, cleaning.	Ferrous metals Non-ferrous metals	Double Cut - CUT 6 (D/C)	
Heavy stock removal - deburring, milling, cleaning, machining	Non-ferrous metal: aluminium alloys Plastics	Non-ferrous - CUT 1 (NF)	
Medium stock removal - deburring, milling, cleaning, finishing.	Non hardened steel <45HRc Hardened steel >45HRc: stainless steel High temperature-resistant metals: nickel, cobalt, titanium. Non-ferrous light metals: brass, copper, zinc. Hardened >45HRc: cast iron	Single Cut - CUT 3 (S/C)	

MATERIAL GROUP 1	CUT STYLES 2									
Super Alloy Materials			Cut 3 / 6							
Hardened steel >45HRc				Cut 3						
Non hardened steel <45HRc						Cut 3 / 6				
High temperature-resistant materials			Cut 3 / 6							
Non-ferrous metals					Cut 1					
Non-ferrous light metals						Cut 1			Cut 6	
Plastics, Hard rubber								2. Cut 1		

BURR DIAMETER 4		MAXIMUM ROTATIONAL SPEED (RPM) 5								
Imperial (Inch)	Metric (mm)									
< 1/8	< 3	45,000	53,000	60,000	66,000	73,000	79,000	86,000	92,500	100,000
3/16	5	35,000	40,000	45,000	50,000	55,000	60,000	65,000	70,000	75,000
1/4	6	26,000	30,000	34,000	37,500	41,500	45,000	49,000	52,500	55,000
5/16	8	21,000	24,000	27,000	30,000	33,000	36,000	39,000	42,000	45,000
3/8	10	17,500	20,000	22,500	25,000	27,500	30,000	32,500	35,000	37,500
1/2	12	13,000	15,000	17,000	19,000	20,500	22,500	24,500	26,000	28,000
3. 5/8	15	10,500	12,000	13,500	15,000	16,500	18,000	19,500	21,000	22,500
3/4	20	9,000	10,000	11,000	12,500	14,000	15,000	16,250	17,500	19,000
1	25	6,500	7,500	8,500	9,500	10,500	11,000	12,000	13,000	14,000
		RECOMMENDED CUTTING SPEED 3								
METRIC (m/min)		5. 420	480	540	600	660	720	780	840	900
FRACTIONAL (SFM)		1400	1600	1800	2000	2200	2400	2600	2800	3000

Universal SA - Cylindrical No End Cut

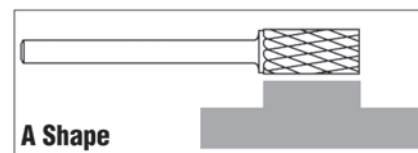
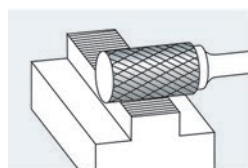
Item#	Cutter Diameter D1	Length of Cut L2	Shank Diameter D2	Overall Length L1	Double Cut	Single Cut 3	Nonferrous Cut	Max RPMS
KCB-SA-41(SC/DC)	1/16	1/4	1/8	1-1/2	✓	✓	–	100,000
KCB-SA-41L2(SC/DC)	1/16	1/4	1/8	2	✓	✓	–	100,000
KCB-SA-41L3(SC/DC)	1/16	1/4	1/8	3	✓	✓	–	100,000
KCB-SA-61(SC/DC)	1/16	1/4	3/32	1-1/4	✓	✓	–	100,000
KCB-SA-63(SC/DC)	3/32	3/8	3/32	1-1/4	✓	✓	–	100,000
KCB-SA-42(SC/DC)	3/32	7/16	1/8	1-1/2	✓	✓	–	100,000
KCB-SA-42L2(SC/DC)	3/32	7/16	1/8	2	✓	✓	–	100,000
KCB-SA-42L3(SC/DC)	3/32	7/16	1/8	3	✓	✓	–	100,000
KCB-SA-11(SC/DC)	1/8	1/2	1/4	2-5/16	✓	✓	–	100,000
KCB-SA-43(SC/DC)	1/8	9/16	1/8	1-1/2	✓	✓	–	100,000
KCB-SA-43L2(SC/DC)	1/8	9/16	1/8	2	✓	✓	–	100,000
KCB-SA-43L3(SC/DC)	1/8	9/16	1/8	3	✓	✓	–	100,000
KCB-SA-12(SC/DC)	1/8	5/8	1/4	2-3/8	✓	✓	–	100,000
KCB-SA-52(SC/DC)	5/32	1/2	1/8	1-1/2	✓	✓	–	75,000
KCB-SA-13(SC/DC)	5/32	5/8	1/4	2	✓	✓	–	75,000
KCB-SA-81(SC/DC)	3/16	1/2	3/16	2	✓	✓	–	75,000
KCB-SA-53(SC/DC)	3/16	1/2	1/8	1-1/2	✓	✓	–	75,000
KCB-SA-14(SC/DC)	3/16	5/8	1/4	2	✓	✓	–	75,000
KCB-SA-51(SC/DC)	1/4	1/2	1/8	2	✓	✓	–	55,000
KCB-SA-1(SC/DC)	1/4	5/8	1/4	2	✓	✓	–	55,000
KCB-SA-1L(SC/DC)	1/4	1	1/4	2	✓	✓	–	55,000
KCB-SA-1L6(SC/DC)	1/4	5/8	1/4	6-1/2	✓	✓	–	55,000
KCB-SA-1NF	1/4	3/4	1/4	2	–	–	✓	55,000
KCB-SA-2(SC/DC)	5/16	3/4	1/4	2-1/2	✓	✓	–	45,000
KCB-SA-3(SC/DC)	3/8	3/4	1/4	2-1/2	✓	✓	–	37,500
KCB-SA-3L(SC/DC)	3/8	1	1/4	2-3/4	✓	✓	–	37,500



Universal SA - Cylindrical No End Cut

Item#	Cutter Diameter D1	Length of Cut L2	Shank Diameter D2	Overall Length L1	Double Cut	Single Cut 3	Nonferrous Cut	Max RPMS
KCB-SA-3L6(SC/DC)	3/8	3/4	1/4	6-3/4	✓	✓	-	37,500
KCB-SA-3NF	3/8	3/4	1/4	2-1/2	-	-	✓	37,500
KCB-SA-3X(SC/DC)	3/8	1-1/2	1/4	3-1/4	✓	✓	-	37,500
KCB-SA-4(SC/DC)	7/16	1	1/4	2-3/4	✓	✓	-	28,000
KCB-SA-5(SC/DC)	1/2	1	1/4	2-3/4	✓	✓	-	28,000
KCB-SA-5L6(SC/DC)	1/2	1	1/4	7	✓	✓	-	28,000
KCB-SA-5NF	1/2	1	1/4	2-3/4	-	-	✓	28,000
* KCB-SA-6(SC/DC)	5/8	1	1/4	2-3/4	✓	✓	-	22,500
* KCB-SA-6NF	5/8	1	1/4	2-3/4	-	-	✓	22,500
* KCB-SA-15(SC/DC)	3/4	1/2	1/4	2-1/4	✓	✓	-	19,000
* KCB-SA-16(SC/DC)	3/4	3/4	1/4	2-1/2	✓	✓	-	19,000
* KCB-SA-7(SC/DC)	3/4	1	1/4	2-3/4	✓	✓	-	19,000
KCB-SA-7NF	3/4	1	1/4	2-3/4	-	-	✓	19,000
KCB-SA-7NF3/8	3/4	1	3/8	3	-	-	✓	19,000
* KCB-SA-8(SC/DC)	7/8	1	1/4	2-3/4	✓	✓	-	14,000
* KCB-SA-9(SC/DC)	1	1	1/4	2-3/4	✓	✓	-	14,000

*3/8" shanks optional



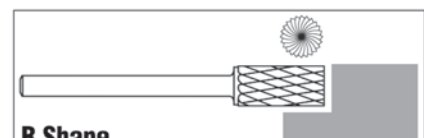
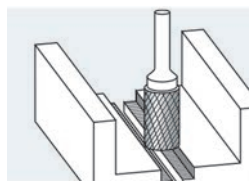
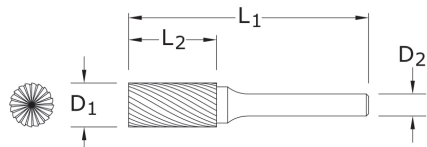
A Shape
SA shaped carbide burrs are designed to be ran parallel to the work piece on flat surfaces. These burrs are not designed for use on corner welds and seams.

Universal SB - Cylindrical End Cut

Item#	Cutter Diameter D1	Length of Cut L2	Shank Diameter D2	Overall Length L1	Double Cut	Single Cut 3	Nonferrous Cut	Max RPMS
KCB-SB-41(SC/DC)	1/16	1/4	1/8	1-1/2	✓	✓	–	100,000
KCB-SB-41L2(SC/DC)	1/16	1/4	1/8	2	✓	✓	–	100,000
KCB-SB-41L3(SC/DC)	1/16	1/4	1/8	3	✓	✓	–	100,000
KCB-SB-42(SC/DC)	3/32	7/16	1/8	1-1/2	✓	✓	–	100,000
KCB-SB-42L2(SC/DC)	3/32	7/16	1/8	2	✓	✓	–	100,000
KCB-SB-42L3(SC/DC)	3/32	7/16	1/8	3	✓	✓	–	100,000
KCB-SB-ECOSC	1/8	–	1/8	3	–	✓	–	100,000
KCB-SB-11(SC/DC)	1/8	1/2	1/4	2-5/16	✓	✓	–	100,000
KCB-SB-12(SC/DC)	1/8	5/8	1/4	2-3/8	✓	✓	–	100,000
KCB-SB-43(SC/DC)	1/8	9/16	1/8	1-1/2	✓	✓	–	100,000
KCB-SB-43L2(SC/DC)	1/8	9/16	1/8	2	✓	✓	–	100,000
KCB-SB-43L3(SC/DC)	1/8	9/16	1/8	3	✓	✓	–	100,000
KCB-SB-13(SC/DC)	5/32	5/8	1/4	2	✓	✓	–	75,000
KCB-SB-14(SC/DC)	3/16	5/8	1/4	2	✓	✓	–	75,000
KCB-SB-51(SC/DC)	1/4	3/16	1/8	1-11/16	✓	✓	–	55,000
KCB-SB-1(SC/DC)	1/4	5/8	1/4	2	✓	✓	–	55,000
KCB-SB-1L(SC/DC)	1/4	1	1/4	2	✓	✓	–	55,000
KCB-SB-1NF	1/4	3/4	1/4	2	–	–	✓	55,000
KCB-SB-2(SC/DC)	5/16	3/4	1/4	2-1/2	✓	✓	–	45,000
KCB-SB-3(SC/DC)	3/8	3/4	1/4	2-1/2	✓	✓	–	37,500
KCB-SB-3L(SC/DC)	3/8	1	1/4	2-3/4	✓	✓	–	37,500
KCB-SB-3NF	3/8	3/4	1/4	2-1/2	–	–	✓	37,500
KCB-SB-3X(SC/DC)	3/8	1-1/2	1/4	3-1/4	✓	✓	–	37,500
KCB-SB-4(SC/DC)	7/16	1	1/4	2-3/4	✓	✓	–	28,000
KCB-SB-5(SC/DC)	1/2	1	1/4	2-3/4	✓	✓	–	28,000
KCB-SB-5NF	1/2	1	1/4	2-3/4	–	–	✓	28,000
* KCB-SB-6(SC/DC)	5/8	1	1/4	2-3/4	✓	✓	–	22,500
* KCB-SB-6NF	5/8	1	1/4	2-3/4	–	–	✓	22,500
* KCB-SB-15(SC/DC)	3/4	1/2	1/4	2-1/4	✓	✓	–	19,000
* KCB-SB-16(SC/DC)	3/4	3/4	1/4	2-1/2	✓	✓	–	19,000
* KCB-SB-7(SC/DC)	3/4	1	1/4	2-3/4	✓	✓	–	19,000
KCB-SB-7NF	3/4	1	1/4	2-3/4	–	–	✓	19,000
KCB-SB-7NF3/8	3/4	1	3/8	3	–	–	✓	19,000
* KCB-SB-8(SC/DC)	7/8	1	1/4	2-3/4	✓	✓	–	14,000
* KCB-SB-9(SC/DC)	1	1	1/4	2-3/4	✓	✓	–	14,000



*3/8" shanks optional



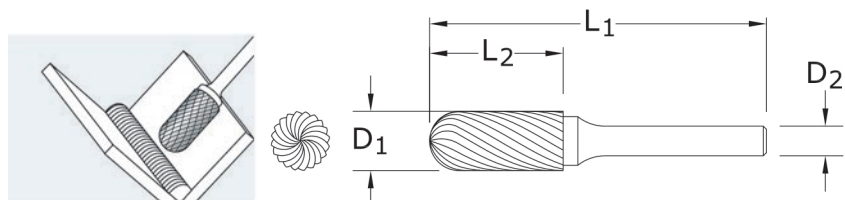
SB shaped burrs are designed to be ran parallel to the work piece as well, but have the ability to be used in 90 degree corners for light removal. **For heavy stock removal in corners and tight areas, refer to the SC shaped burrs on page 6**

Universal SC - Cylindrical

Item#	Cutter Diameter D1	Length of Cut L2	Shank Diameter D2	Overall Length L1	Double Cut	Single Cut 3	Nonferrous Cut	Max RPMS
KCB-SC-61(SC/DC)	3/32	3/8	3/32	1-1/4	✓	✓	–	100,000
KCB-SC-41(SC/DC)	3/32	7/16	1/8	1-1/2	✓	✓	–	100,000
KCB-SC-11(SC/DC)	1/8	1/2	1/4	2-5/16	✓	✓	–	100,000
KCB-SC-42(SC/DC)	1/8	9/16	1/8	1-1/2	✓	✓	–	100,000
KCB-SC-42L2(SC/DC)	1/8	9/16	1/8	2	✓	✓	–	100,000
KCB-SC-42L3(SC/DC)	1/8	9/16	1/8	3	✓	✓	–	100,000
KCB-SC-12(SC/DC)	1/8	5/8	1/4	2-3/8	✓	✓	–	100,000
KCB-SC-52(SC/DC)	5/32	1/2	1/8	1-1/2	✓	✓	–	75,000
KCB-SC-13(SC/DC)	5/32	5/8	1/4	2	✓	✓	–	75,000
KCB-SC-81(SC/DC)	3/16	1/2	3/16	2	✓	✓	–	75,000
KCB-SC-53(SC/DC)	3/16	1/2	1/8	1-1/2	✓	✓	–	75,000
KCB-SC-14(SC/DC)	3/16	5/8	1/4	2	✓	✓	–	75,000
KCB-SC-51(SC/DC)	1/4	1/2	1/8	2	✓	✓	–	55,000
KCB-SC-1(SC/DC)	1/4	5/8	1/4	2	✓	✓	–	55,000
KCB-SC-1L(SC/DC)	1/4	1	1/4	2	✓	✓	–	55,000
KCB-SC-1L6(SC/DC)	1/4	5/8	1/4	6-1/2	✓	✓	–	55,000
KCB-SC-1NF	1/4	3/4	1/4	2	–	–	✓	55,000
KCB-SC-2(SC/DC)	5/16	3/4	1/4	2-1/2	✓	✓	–	45,000
KCB-SC-3(SC/DC)	3/8	3/4	1/4	2-1/2	✓	✓	–	37,500
KCB-SC-3L(SC/DC)	3/8	1	1/4	2-3/4	✓	✓	–	37,500
KCB-SC-3L6(SC/DC)	3/8	3/4	1/4	6-3/4	✓	✓	–	37,500
KCB-SC-3NF	3/8	3/4	1/4	2-1/2	–	–	✓	37,500
KCB-SC-3X(SC/DC)	3/8	1-1/2	1/4	3-1/4	✓	✓	–	37,500
KCB-SC-4(SC/DC)	7/16	1	1/4	2-3/4	✓	✓	–	28,000
KCB-SC-5(SC/DC)	1/2	1	1/4	2-3/4	✓	✓	–	28,000
KCB-SC-5L6(SC/DC)	1/2	1	1/4	7	✓	✓	–	28,000
KCB-SC-5NF	1/2	1	1/4	2-3/4	–	–	✓	28,000
* KCB-SC-6(SC/DC)	5/8	1	1/4	2-3/4	✓	✓	–	22,500
* KCB-SC-6NF	5/8	1	1/4	2-3/4	–	–	✓	22,500
* KCB-SC-15(SC/DC)	3/4	1/2	1/4	2-1/4	✓	✓	–	19,000
* KCB-SC-16(SC/DC)	3/4	3/4	1/4	2-1/2	✓	✓	–	19,000
* KCB-SC-7(SC/DC)	3/4	1	1/4	2-3/4	✓	✓	–	19,000
KCB-SC-7NF	3/4	1	1/4	2-3/4	–	–	✓	19,000
KCB-SC-7NF3/8	3/4	1	3/8	3	–	–	✓	19,000
* KCB-SC-9(SC/DC)	1	1	1/4	2-3/4	✓	✓	–	14,000



*3/8" shanks optional



Universal SC - Cylindrical

Item#	Cutter Diameter D1	Length of Cut L2	Shank Diameter D2	Overall Length L1	Double Cut	Single Cut 3	Nonferrous Cut	Max RPMS
KCB-SD-41(SC/DC)	3/32	3/32	1/8	1-1/2	✓	✓	-	100,000
KCB-SD-61(SC/DC)	3/32	3/32	3/32	1-1/4	✓	✓	-	100,000
KCB-SD-11(SC/DC)	1/8	3/32	1/4	2	✓	✓	-	100,000
KCB-SD-42(SC/DC)	1/8	1/8	1/8	1-1/2	✓	✓	-	100,000
KCB-SD-42L3(SC/DC)	1/8	1/8	1/8	3	✓	✓	-	75,000
KCB-SD-52(SC/DC)	5/32	5/32	1/8	1-1/2	✓	✓	-	75,000
KCB-SD-14(SC/DC)	3/16	1/8	1/4	2	✓	✓	-	75,000
KCB-SD-81(SC/DC)	3/16	5/32	3/16	2	✓	✓	-	75,000
KCB-SD-53(SC/DC)	3/16	5/32	1/8	1-1/2	✓	✓	-	55,000
KCB-SD-1(SC/DC)	1/4	7/32	1/4	2	✓	✓	-	55,000
KCB-SD-1L6(SC/DC)	1/4	7/32	1/4	6-3/16	✓	✓	-	55,000
KCB-SD-1NF	1/4	7/32	1/4	2	-	-	✓	55,000
KCB-SD-51(SC/DC)	1/4	7/32	1/8	1-3/4	✓	✓	-	45,000
KCB-SD-2(SC/DC)	5/16	1/4	1/4	2	✓	✓	-	37,500
KCB-SD-3(SC/DC)	3/8	5/16	1/4	2-1/16	✓	✓	-	37,500
KCB-SD-3L6(SC/DC)	3/8	5/16	1/4	6-1/3	✓	✓	-	37,500
KCB-SD-3NF	3/8	5/16	1/4	2-1/16	-	-	✓	28,000
KCB-SD-4(SC/DC)	7/16	3/8	1/4	2-1/8	✓	✓	-	28,000
KCB-SD-5(SC/DC)	1/2	7/16	1/4	2-1/8	✓	✓	-	28,000
KCB-SD-5L6(SC/DC)	1/2	7/16	1/4	6-7/16	✓	✓	-	28,000
KCB-SD-5NF	1/2	7/16	1/4	2-1/8	-	-	✓	22,500
* KCB-SD-6(SC/DC)	5/8	9/16	1/4	2-1/3	✓	✓	-	22,500
*KCB-SD-6NF	5/8	9/16	1/4	2-1/3	-	-	✓	19,000
* KCB-SD-7(SC/DC)	3/4	11/16	1/4	2-1/2	✓	✓	-	19,000
KCB-SD-7NF	3/4	11/16	1/4	2-1/2	-	-	✓	19,000
KCB-SD-7NF3/8	3/4	11/16	3/8	2-11/16	-	-	✓	14,000
*KCB-SD-9(SC/DC)	1	15/16	1/4	2-2/3	✓	✓	-	14,000

*3/8" shanks optional



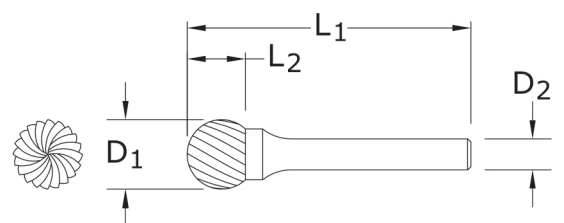
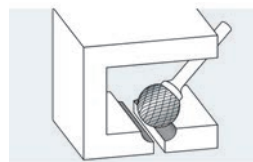
SD-NF



SD-S/C



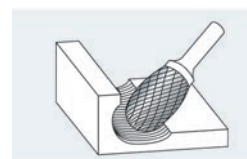
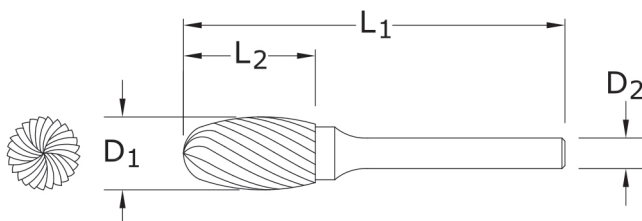
SD-D/C



Universal SE - Oval

Item#	Cutter Diameter D1	Length of Cut L2	Shank Diameter D2	Overall Length L1	Double Cut	Single Cut 3	Nonferrous Cut	Max RPMS
KCB-SE-61(SC/DC)	3/32	1/8	3/32	1-1/4	✓	✓	-	100,000
KCB-SE-41(SC/DC)	1/8	7/32	1/8	1-1/2	✓	✓	-	100,000
KCB-SE-41L2(SC/DC)	1/8	7/32	1/8	2	✓	✓	-	100,000
KCB-SE-41L3(SC/DC)	1/8	7/32	1/8	3	✓	✓	-	100,000
KCB-SE-81(SC/DC)	3/16	9/32	3/16	2	✓	✓	-	75,000
KCB-SE-53(SC/DC)	3/16	9/32	1/8	1-1/2	✓	✓	-	75,000
KCB-SE-11(SC/DC)	3/16	5/16	1/4	2	✓	✓	-	75,000
KCB-SE-1(SC/DC)	1/4	3/8	1/4	2	✓	✓	-	55,000
KCB-SE-1L6(SC/DC)	1/4	3/8	1/4	6-3/8	✓	✓	-	55,000
KCB-SE-51(SC/DC)	1/4	3/8	1/8	1-1/4	✓	✓	-	55,000
KCB-SE-3(SC/DC)	3/8	5/8	1/4	2-3/8	✓	✓	-	37,500
KCB-SE-3L6(SC/DC)	3/8	5/8	1/4	6-5/8	✓	✓	-	37,500
KCB-SE-3NF	3/8	5/8	1/4	2-3/8	-	-	✓	37,500
KCB-SE-5(SC/DC)	1/2	7/8	1/4	2-5/8	✓	✓	-	28,000
KCB-SE-5L6(SC/DC)	1/2	7/8	1/4	6-7/8	✓	✓	-	28,000
KCB-SE-5NF	1/2	7/8	1/4	2-5/8	-	-	✓	28,000
*KCB-SE-6(SC/DC)	5/8	1	1/4	2-3/4	✓	✓	-	22,500
*KCB-SE-6NF	5/8	1	1/4	2-3/4	-	-	✓	22,500
*KCB-SE-7(SC/DC)	3/4	1	1/4	2-3/4	✓	✓	-	19,000
KCB-SE-7NF	3/4	1	1/4	2-3/4	-	-	✓	19,000
KCB-SE-7NF3/8	3/4	1	3/8	2-3/4	-	-	✓	19,000

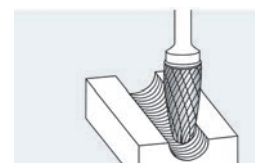
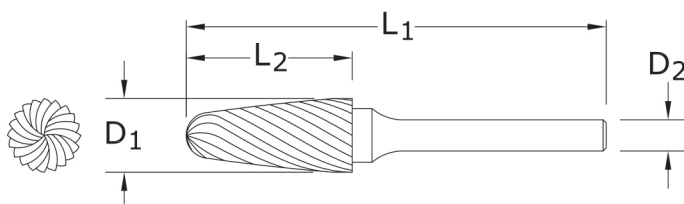
*3/8" shanks optional



Universal SF - Tree Shape

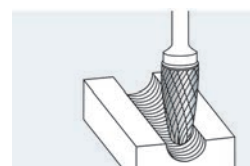
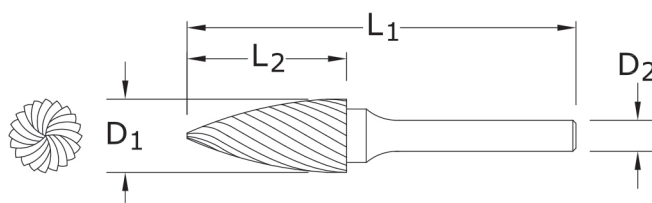
Item#	Cutter Diameter D1	Length of Cut L2	Shank Diameter D2	Overall Length L1	Double Cut	Single Cut 3	Nonferrous Cut	Max RPMS
KCB-SF-61(SC/DC)	3/32	1/4	3/32	1-1/4	✓	✓	-	100,000
KCB-SF-41(SC/DC)	1/8	1/4	1/8	1-1/2	✓	✓	-	100,000
KCB-SF-11(SC/DC)	1/8	1/2	1/4	2-1/32	✓	✓	-	100,000
KCB-SF-42(SC/DC)	1/8	1/2	1/8	1-1/2	✓	✓	-	100,000
KCB-SF-42L2(SC/DC)	1/8	1/2	1/8	2	✓	✓	-	100,000
KCB-SF-42L3(SC/DC)	1/8	1/2	1/8	3	✓	✓	-	100,000
KCB-SF-81(SC/DC)	3/16	1/2	3/16	2	✓	✓	-	75,000
KCB-SF-53(SC/DC)	3/16	1/2	1/8	1-1/2	✓	✓	-	75,000
KCB-SF-51(SC/DC)	1/4	1/2	1/8	2	✓	✓	-	55,000
KCB-SF-1(SC/DC)	1/4	5/8	1/4	2	✓	✓	-	55,000
KCB-SF-1L6(SC/DC)	1/4	1/2	1/4	6-1/2	✓	✓	-	55,000
KCB-SF-1NF	1/4	3/4	1/4	2	-	-	✓	55,000
KCB-SF-3(SC/DC)	3/8	3/4	1/4	2-1/2	✓	✓	-	37,500
KCB-SF-3L6(SC/DC)	3/8	3/4	1/4	6-3/4	✓	✓	-	37,500
KCB-SF-3NF	3/8	3/4	1/4	2-1/2	-	-	✓	37,500
KCB-SF-4(SC/DC)	7/16	1	1/4	2-3/4	✓	✓	-	28,000
KCB-SF-13(SC/DC)	1/2	3/4	1/4	2-1/2	✓	✓	-	28,000
KCB-SF-5(SC/DC)	1/2	1	1/4	2-3/4	✓	✓	-	28,000
KCB-SF-5L6(SC/DC)	1/2	1	1/4	7	✓	✓	-	28,000
KCB-SF-5NF	1/2	1	1/4	2-3/4	-	-	✓	28,000
*KCB-SF-6(SC/DC)	5/8	1	1/4	2-3/4	✓	✓	-	22,500
*KCB-SF-6NF	5/8	1	1/4	2-3/4	-	-	✓	22,500
*KCB-SF-7(SC/DC)	3/4	1	1/4	2-3/4	✓	✓	-	19,000
*KCB-SF-14(SC/DC)	3/4	1-1/4	1/4	3	✓	✓	-	19,000
KCB-SF-14NF	3/4	1-1/4	1/4	3	-	-	✓	19,000
KCB-SF-14NF3/8	3/4	1-1/4	3/8	3-1/4	-	-	✓	19,000
*KCB-SF-15(SC/DC)	3/4	1-1/2	1/4	3-1/4	✓	✓	-	19,000

*3/8" shanks optional



Universal SG - Tree Shape Pointed End

Item#	Cutter Diameter D1	Length of Cut L2	Shank Diameter D2	Overall Length L1	Double Cut	Single Cut 3	Nonferrous Cut	Max RPMS
KCB-SF-61(SC/DC)	3/32	1/4	3/32	1-1/4	✓	✓	-	100,000
KCB-SF-41(SC/DC)	1/8	1/4	1/8	1-1/2	✓	✓	-	100,000
KCB-SF-11(SC/DC)	1/8	1/2	1/4	2-1/32	✓	✓	-	100,000
KCB-SF-42(SC/DC)	1/8	1/2	1/8	1-1/2	✓	✓	-	100,000
KCB-SF-42L2(SC/DC)	1/8	1/2	1/8	2	✓	✓	-	100,000
KCB-SF-42L3(SC/DC)	1/8	1/2	1/8	3	✓	✓	-	100,000
KCB-SF-81(SC/DC)	3/16	1/2	3/16	2	✓	✓	-	75,000
KCB-SF-53(SC/DC)	3/16	1/2	1/8	1-1/2	✓	✓	-	75,000
KCB-SF-51(SC/DC)	1/4	1/2	1/8	2	✓	✓	-	55,000
KCB-SF-1(SC/DC)	1/4	5/8	1/4	2	✓	✓	-	55,000
KCB-SF-1L6(SC/DC)	1/4	1/2	1/4	6-1/2	✓	✓	-	55,000
KCB-SF-1NF	1/4	3/4	1/4	2	-	-	✓	55,000
KCB-SF-3(SC/DC)	3/8	3/4	1/4	2-1/2	✓	✓	-	37,500
KCB-SF-3L6(SC/DC)	3/8	3/4	1/4	6-3/4	✓	✓	-	37,500
KCB-SF-3NF	3/8	3/4	1/4	2-1/2	-	-	✓	37,500
KCB-SF-4(SC/DC)	7/16	1	1/4	2-3/4	✓	✓	-	28,000
KCB-SF-13(SC/DC)	1/2	3/4	1/4	2-1/2	✓	✓	-	28,000
KCB-SF-5(SC/DC)	1/2	1	1/4	2-3/4	✓	✓	-	28,000
KCB-SF-5L6(SC/DC)	1/2	1	1/4	7	✓	✓	-	28,000
KCB-SF-5NF	1/2	1	1/4	2-3/4	-	-	✓	28,000
*KCB-SF-6(SC/DC)	5/8	1	1/4	2-3/4	✓	✓	-	22,500
*KCB-SF-6NF	5/8	1	1/4	2-3/4	-	-	✓	22,500
*KCB-SF-7(SC/DC)	3/4	1	1/4	2-3/4	✓	✓	-	19,000
*KCB-SF-14(SC/DC)	3/4	1-1/4	1/4	3	✓	✓	-	19,000
KCB-SF-14NF	3/4	1-1/4	1/4	3	-	-	✓	19,000
KCB-SF-14NF3/8	3/4	1-1/4	3/8	3-1/4	-	-	✓	19,000
*KCB-SF-15(SC/DC)	3/4	1-1/2	1/4	3-1/4	✓	✓	-	19,000

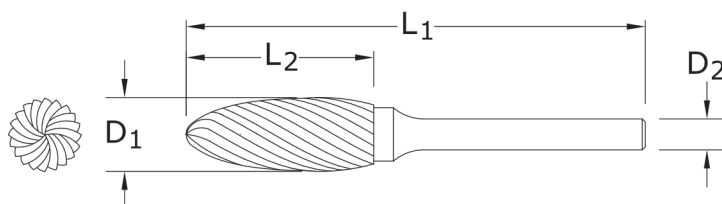


*3/8" shanks optional

Universal SH - Flame Shape

Item#	Cutter Diameter D1	Length of Cut L2	Shank Diameter D2	Overall Length L1	Double Cut	Single Cut 3	Nonferrous Cut	Max RPMS
KCB-SH-41(SC/DC)	1/8	1/4	1/8	1-1/2	✓	✓	-	100,000
KCB-SH-41L2(SC/DC)	1/8	1/4	1/8	2	✓	✓	-	100,000
KCB-SH-41L3(SC/DC)	1/8	1/4	1/8	3	✓	✓	-	100,000
KCB-SH-53(SC/DC)	3/16	3/8	1/8	1-1/2	✓	✓	-	75,000
KCB-SH-1(SC/DC)	1/4	5/8	1/4	2	✓	✓	-	55,000
KCB-SH-2(SC/DC)	5/16	3/4	1/4	2-1/2	✓	✓	-	45,000
KCB-SH-2L6(SC/DC)	5/16	3/4	1/4	6-3/4	✓	✓	-	45,000
KCB-SH-5(SC/DC)	1/2	1-1/4	1/4	3	✓	✓	-	28,000
KCB-SH-5L6(SC/DC)	1/2	1-1/4	1/4	7-1/4	✓	✓	-	28,000
* KCB-SH-6(SC/DC)	5/8	1-7/16	1/4	3-1/8	✓	✓	-	22,500
* KCB-SH-7(SC/DC)	3/4	1-5/8	1/4	3-3/8	✓	✓	-	19,000

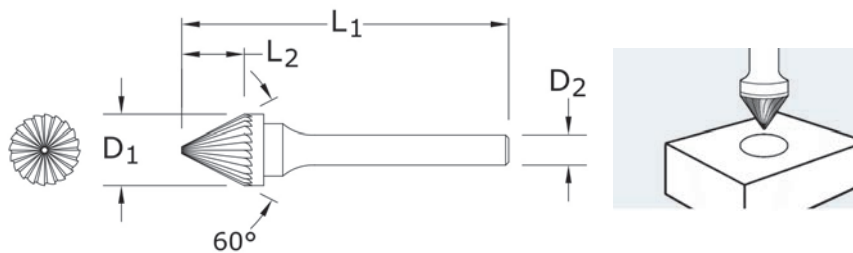
*3/8" shanks optional



Universal SJ - Cone Shape

Item#	Cutter Diameter D1	Length of Cut L2	Shank Diameter D2	Overall Length L1	Double Cut	Single Cut 3	Nonferrous Cut	Max RPMS
KCB-SJ-42(SC/DC)	1/8	3/32	1/8	1-1/2	✓	✓	–	100,000
KCB-SJ-1(SC/DC)	1/4	3/16	1/4	2	✓	✓	–	55,000
KCB-SJ-3(SC/DC)	3/8	5/16	1/4	2-1/8	✓	✓	–	37,500
KCB-SJ-5(SC/DC)	1/2	7/16	1/4	2-1/3	✓	✓	–	28,000
* KCB-SJ-6(SC/DC)	5/8	9/16	1/4	2-3/8	✓	✓	–	22,500
* KCB-SJ-7(SC/DC)	3/4	11/16	1/4	2-9/16	✓	✓	–	19,000
* KCB-SJ-9(SC/DC)	1	15/16	1/4	2-5/8	✓	✓	–	14,000

*3/8" shanks optional



SJ-S/C

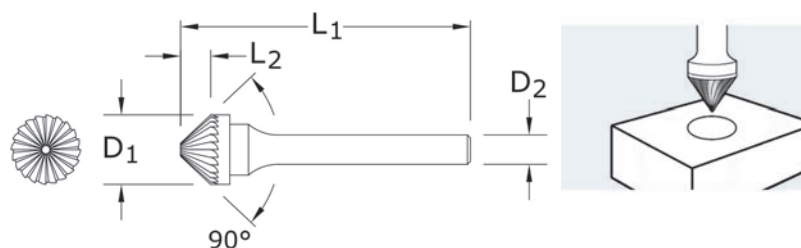


SJ-D/C

Universal SK - Cone Shape

Item#	Cutter Diameter D1	Length of Cut L2	Shank Diameter D2	Overall Length L1	Double Cut	Single Cut 3	Nonferrous Cut	Max RPMS
KCB-SK-42(SC/DC)	1/8	1/16	1/8	1-1/2	✓	✓	–	100,000
KCB-SK-1(SC/DC)	1/4	1/8	1/4	2	✓	✓	–	55,000
KCB-SK-3(SC/DC)	3/8	3/16	1/4	2-1/16	✓	✓	–	37,500
KCB-SK-5(SC/DC)	1/2	1/4	1/4	2-1/9	✓	✓	–	28,000
* KCB-SK-6(SC/DC)	5/8	5/16	1/4	2-1/4	✓	✓	–	22,500
* KCB-SK-7(SC/DC)	3/4	3/8	1/4	2-1/3	✓	✓	–	19,000
* KCB-SK-9(SC/DC)	1	1/2	1/4	2-3/8	✓	✓	–	14,000

*3/8" shanks optional



SK-S/C



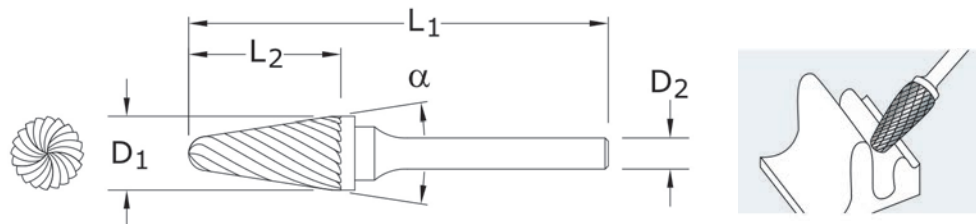
SK-D/C

Universal SL - Radius End Taper Shape

Item#	Cutter Diameter D1	Length of Cut L2	Shank Diameter D2	Overall Length L1	Included Angle α	Double Cut	Single Cut 3	Nonferrous Cut	Max RPMS
KCB-SL-41(SC/DC)	1/8	3/8	1/8	1-1/2	8°	✓	✓	-	100,000
KCB-SL-42(SC/DC)	1/8	1/2	1/8	1-1/2	8°	✓	✓	-	100,000
KCB-SL-42L2(SC/DC)	1/8	1/2	1/8	2	8°	✓	✓	-	100,000
KCB-SL-42L3(SC/DC)	1/8	1/2	1/8	3	8°	✓	✓	-	100,000
KCB-SL-81(SC/DC)	3/16	7/16	3/16	2	14°	✓	✓	-	75,000
KCB-SL-53(SC/DC)	3/16	1/2	1/8	1-1/2	14°	✓	✓	-	75,000
KCB-SL-1(SC/DC)	1/4	5/8	1/4	2	14°	✓	✓	-	55,000
KCB-SL-1L6(SC/DC)	1/4	5/8	1/4	6-3/4	14°	✓	✓	-	55,000
KCB-SL-2(SC/DC)	5/16	7/8	1/4	2-3/4	14°	✓	✓	-	45,000
KCB-SL-3(SC/DC)	3/8	1-1/16	1/4	2-15/16	14°	✓	✓	-	37,500
KCB-SL-3L6(SC/DC)	3/8	1-1/16	1/4	7-2/9	14°	✓	✓	-	37,500
KCB-SL-3NF	3/8	1-1/16	1/4	2-15/16	14°	-	-	✓	37,500
KCB-SL-4(SC/DC)	1/2	1-1/8	1/4	3	14°	✓	✓	-	28,000
KCB-SL-4L6(SC/DC)	1/2	1-1/8	1/4	7-3/11	14°	✓	✓	-	28,000
KCB-SL-4NF	1/2	1-1/8	1/4	3	14°	-	-	✓	28,000
* KCB-SL-5(SC/DC)	5/8	1-3/16	1/4	3-1/16	14°	✓	✓	-	22,500
* KCB-SL-5NF	5/8	1-3/16	1/4	3-1/16	14°	-	-	✓	22,500
* KCB-SL-6(SC/DC)	5/8	1-5/16	1/4	3-1/5	14°	✓	✓	-	22,500
* KCB-SL-6NF	5/8	1-5/16	1/4	3-1/5	14°	-	-	✓	22,500
* KCB-SL-7(SC/DC)	3/4	1-1/2	1/4	3-3/8	14°	✓	✓	-	19,000
KCB-SL-7NF	3/4	1-1/2	1/4	3-3/8	14°	-	-	✓	19,000
KCB-SL-7NF3/8	3/4	1-1/2	3/8	3-5/8	14°	-	-	✓	19,000



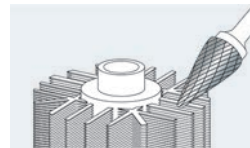
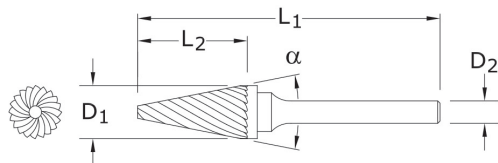
*3/8" shanks optional



Universal SM - Cone Shape

Item#	Cutter Diameter D1	Length of Cut L2	Shank Diameter D2	Overall Length L1	Included Angle α	Double Cut	Single Cut 3	Max RPMS
KCB-SM-61(SC/DC)	3/32	1/4	3/32	1-1/4	10°	✓	✓	100,000
KCB-SM-41(SC/DC)	1/8	11/32	1/8	1-1/2	12°	✓	✓	100,000
KCB-SM-42(SC/DC)	1/8	7/16	1/8	1-1/2	14°	✓	✓	100,000
KCB-SM-42L2(SC/DC)	1/8	7/16	1/8	2	14°	✓	✓	100,000
KCB-SM-42L3(SC/DC)	1/8	7/16	1/8	3	14°	✓	✓	100,000
KCB-SM-43(SC/DC)	1/8	5/8	1/8	1-1/2	7°	✓	✓	100,000
KCB-SM-53(SC/DC)	3/16	1/2	1/8	1-1/2	16°	✓	✓	75,000
KCB-SM-1(SC/DC)	1/4	1/2	1/4	2	22°	✓	✓	55,000
KCB-SM-51(SC/DC)	1/4	1/2	1/8	2-1/9	22°	✓	✓	55,000
KCB-SM-2(SC/DC)	1/4	3/4	1/4	2	14°	✓	✓	55,000
KCB-SM-3(SC/DC)	1/4	1	1/4	2	10°	✓	✓	55,000
KCB-SM-4(SC/DC)	3/8	5/8	1/4	2-1/2	28°	✓	✓	37,500
KCB-SM-5(SC/DC)	1/2	7/8	1/4	2-3/4	28°	✓	✓	28,000
* KCB-SM-6(SC/DC)	5/8	1	1/4	2-8/9	31°	✓	✓	22,500

*3/8" shanks optional



SM-S/C



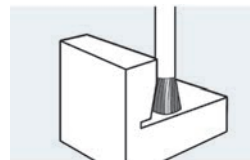
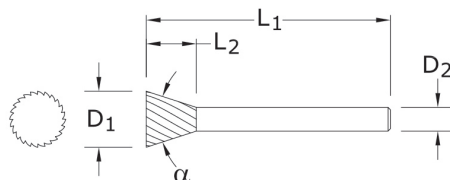
SM-D/C



Universal SN - Cone Shape Inverted

Item#	Cutter Diameter D1	Length of Cut L2	Shank Diameter D2	Overall Length L1	Included Angle α	Double Cut	Single Cut 3	Max RPMS
KCB-SN-41(SC/DC)	3/32	1/8	1/8	1-1/2	10°	✓	✓	100,000
KCB-SN-61(SC/DC)	3/32	1/8	3/32	1-1/4	10°	✓	✓	100,000
KCB-SN-42(SC/DC)	1/8	3/16	1/8	1-1/2	10°	✓	✓	100,000
KCB-SN-81(SC/DC)	3/16	1/4	3/16	2	10°	✓	✓	100,000
KCB-SN-53(SC/DC)	3/16	1/4	1/8	1-1/2	10°	✓	✓	75,000
KCB-SN-51(SC/DC)	1/4	1/4	1/8	1-3/4	10°	✓	✓	55,000
KCB-SN-1(SC/DC)	1/4	5/16	1/4	2	10°	✓	✓	55,000
KCB-SN-2(SC/DC)	3/8	3/8	1/4	2-1/9	13°	✓	✓	37,500
KCB-SN-4(SC/DC)	1/2	1/2	1/4	2-1/4	28°	✓	✓	28,000
* KCB-SN-6(SC/DC)	5/8	3/4	1/4	2-1/2	18°	✓	✓	22,500
* KCB-SN-7(SC/DC)	3/4	5/8	1/4	2-3/8	30°	✓	✓	19,000

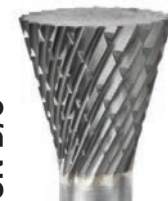
*3/8" shanks optional



SN-S/C



SN-D/C



Universal Long Shank

Item#	Cutter Diameter D1	Length of Cut L2	Shank Diameter D2	Overall Length L1	Double Cut	Single Cut 3
Cylinder Shape						
SA-1L6(SC/DC)	1/4	1/2	1/4	6-1/2	✓	✓
SA-3L6(SC/DC)	3/8	3/4	1/4	6-3/4	✓	✓
SA-5L6(SC/DC)	1/2	1	1/4	7	✓	✓
Cylinder Shape Radius End						
SC-1L6(SC/DC)	1/4	1/2	1/4	6-1/2	✓	✓
SC-3L6(SC/DC)	3/8	3/4	1/4	6-3/4	✓	✓
SC-5L6(SC/DC)	1/2	1	1/4	7	✓	✓
Ball Shape						
SD-1L6(SC/DC)	1/4	7/32	1/4	6-2/9	✓	✓
SD-3L6(SC/DC)	3/8	5/16	1/4	6-1/3	✓	✓
SD-5L6(SC/DC)	1/2	7/16	1/4	6-4/9	✓	✓
Oval Shape						
SE-1L6(SC/DC)	1/4	3/8	1/4	6-3/8	✓	✓
SE-3L6(SC/DC)	3/8	5/8	1/4	6-5/8	✓	✓
SE-5L6(SC/DC)	1/2	7/8	1/4	6-8/9	✓	✓
Tree Shape Radius End						
SF-1L6(SC/DC)	1/4	1/2	1/4	6-1/2	✓	✓
SF-3L6(SC/DC)	3/8	3/4	1/4	6-3/4	✓	✓
SF-5L6(SC/DC)	1/2	1	1/4	7	✓	✓
Tree Shape Pointed End						
SG-1L6(SC/DC)	1/4	1/2	1/4	6-1/2	✓	✓
SG-3L6(SC/DC)	3/8	3/4	1/4	6-3/4	✓	✓
SG-5L6(SC/DC)	1/2	1	1/4	7	✓	✓
Flame Shape						
SH-2L6(SC/DC)	5/16	3/4	1/4	6-3/4	✓	✓
SH-5L6(SC/DC)	1/2	1-1/4	1/4	7-1/4	✓	✓
14° Taper Radius End						
SL-1L6(SC/DC)	1/4	5/8	1/4	6-3/4	✓	✓
SL-3L6(SC/DC)	3/8	1-1/16	1/4	7-2/9	✓	✓
SL-4L6(SC/DC)	1/2	1-1/8	1/4	7-3/11	✓	✓



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