TUNGSTEN CARBIDE BURRS BLANKS

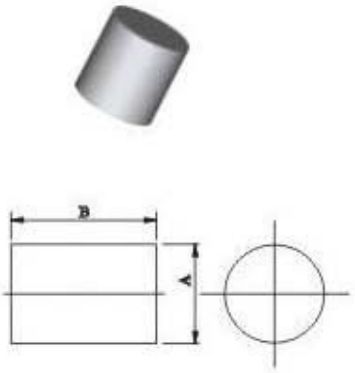


Table 1 *Blanks for carbide burrs-shape SA (Cylindrical)*

Blank Dealgnation	A		B	
	Nominal	Actual	Nominal	Actual
BSA-51	1/4	0.265	3/16	0.193
BSA-51	1/4	0.265	1/2	0.500
BSA-2	5/16	0.327	3/4	0.750
BSA-3	3/8	0.390	3/4	0.750
BSA-4	7/16	0.453	1	1.000
BSA-5	1/2	0.515	1	1.000
BSA-6	5/8	0.640	1	1.000
BSA-16	3/4	0.767	1/2	0.500
BSA-72	3/4	0.767	3/4	0.750
BSA-7	3/4	0.767	1	1.000
BSA-8	7/8	0.892	1	1.000
BSA-9	1	1.019	1	1.000

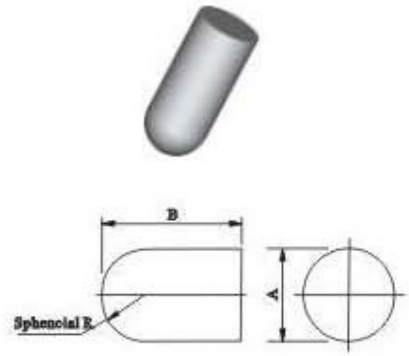


Table 2 *Blanks for carbide burrs-shape SC (Cylindrical ball nose)*

Blank Deelgnation	A		B		R
	Nominal	Actual	Nominal	Actual	
BSC-51	1/4	0.265	1/2	0.500	0.133
BSC-2	5/16	0.327	3/4	0.750	0.164
BSC-3	3/8	0.390	3/4	0.750	0.195
BSC-4	7/16	0.453	1	1.000	0.227
BSC-5	1/2	0.515	1	1.000	0.258
BSC-6	5/8	0.640	1	1.000	0.320
BSC-15	3/4	0.767	1/2	0.500	0.384
BSC-16	3/4	0.767	3/4	0.750	0.384
BSC-7	3/4	0.767	1	1.000	0.384
BSC-9	1	1.019	1	1.000	0.510

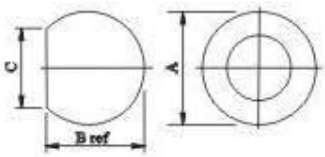


Table 3 *Blanks for carbide burrs-shape SD (Ball)*

Blank Dealgnation	A		B	C
	Nominal	Actual		
BSD-51	1/4	0.265	0.220	0.188
BSD-2	5/16	0.327	0.276	0.226
BSD-3	3/8	0.390	0.332	0.265
BSD-4	7/16	0.453	0.392	0.297
BSD-5	1/2	0.515	0.450	0.329
BSD-6	5/8	0.640	0.568	0.390
BSD-7	3/4	0.767	0.686	0.456
BSD-9	1	1.019	0.924	0.578

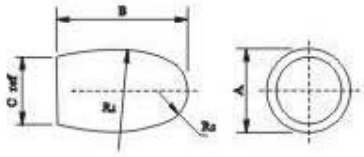


Table 4 *Blanks for carbide burrs-shape SE (Olive)*

Blank Dealgnation	A		B		C	R_1	R_2
	Nominal	Actual	Nominal	Actual			
BSE-51	1/4	0.265	3/8	0.375	0.216	0.427	0.099
BSE-3	3/8	0.390	5/8	0.625	0.311	0.880	0.161
BSE-5	1/2	0.515	7/8	0.875	0.406	1.255	0.208
BSE-6	5/8	0.640	1	1.000	0.507	1.255	0.255
BSE-7	3/4	0.767	1	1.000	0.495	0.802	0.318

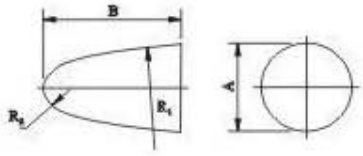


Table 5 *Blanks for carbide burrs-shape SF (Tree, Radius nose)*

Blank Dealgnation	A		B		R_1	R_2
	Nominal	Actual	Nominal	Actual		
BSF-51	1/4	0.265	1/2	0.50	1.630	0.068
BSF-3	3/8	0.390	3/4	0.750	2.300	0.098
BSF-4	7/16	0.453	1	1.000	3.255	0.098
BSF-13	1/2	0.515	3/4	0.750	1.760	0.130
BSF-5	1/2	0.515	1	1.000	3.255	0.130
BSF-6	5/8	0.640	1	1.000	3.005	0.194
BSF-7	3/4	0.767	1	1.000	2.130	0.194
BSF-14	3/4	0.767	1 1/4	1.250	3.319	0.194
BSF-15	3/4	0.767	1 1/2	1.500	5.069	0.194

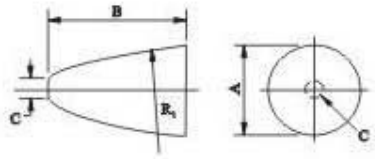


Table 6 *Blanks for carbide burrs-shape SF (Tree,Radius nose)*

Blank Deaignation	A		B		C	R
	Nominal	Actual	Nominal	Actual		
BSG-51	1/4	0.265	1/2	0.500	0.042	1.005
BSG-2	5/16	0.327	3/4	0.750	0.055	2.005
BSG-3	3/8	0.390	3/4	0.750	0.056	1.505
BSG-13	1/2	0.515	3/4	0.750	0.073	1.318
BSG-5	1/2	0.515	1	1.000	0.073	2.255
BSG-6	5/8	0.640	1	1.000	0.073	1.880
BSG-7	3/4	0.767	1	1.000	0.075	1.631
BSG-15	3/4	0.767	1 1/2	1.500	0.088	3.505

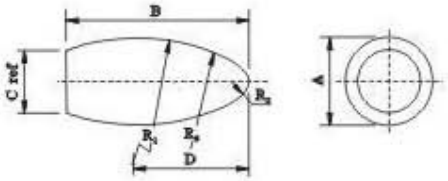


Table 7 *Blanks for carbide burrs-shape SH (Flame)*

Blank Deaignation	A		B		C	D	R_1	R_2	R_3
	Nominal	Actual	Nominal	Actual					
BSH-2	5/16	0.327	3/4	0.750	0.257	0.489	1.068	0.068	-
BSH-5	1/2	0.515	1 1/4	1.250	0.431	0.854	2.005	0.099	-
BSH-6	5/8	0.640	1 7/16	1.438	0.495	0.880	2.255	0.099	0.775
BSH-7	3/4	0.767	1 5/8	1.625	0.548	1.002	1.881	0.162	-

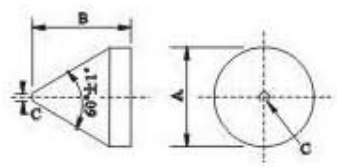


Table 10 *Blanks for carbide burrs-shape SJ (60-degree cone)*

Blank Deaignation	A		B		C
	Nominal	Actual	Nominal	Actual	
BSJ-3	3/8	0.390	7/16	0.438	0.032
BSJ-5	1/2	0.515	35/64	0.547	0.032
BSJ-6	5/8	0.640	11/16	0.688	0.063
BSJ-7	3/4	0.767	51/64	0.797	0.063
BSJ-9	1	1.019	31/32	0.969	0.125

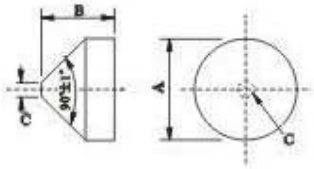


Table 11 *Blanks for carbide burrs-shape Stock (90-degree cone)*

Blank Dealgnation	A		B		C
	Nominal	Actual	Nominal	Actual	
BSK-3	3/8	0.390	5/16	0.313	0.032
BSK-5	1/2	0.515	3/8	0.375	0.032
BSK-6	5/8	0.640	31/64	0.484	0.063
BSK-7	3/4	0.766	35/64	0.547	0.063
BSK-9	1	1.019	41/64	0.641	0.125

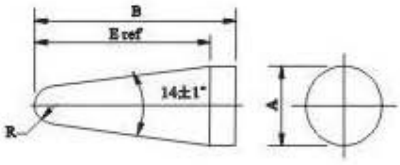


Table 9 *Blanks for carbide burrs-shape SL (14-degree cone, Ball nose)*

Blank Dealgnation	A		B		R		E
	Nominal	Actual	Nominal	Actual	Nominal	Actual	Ref.
BSL-2	5/16	0.327	1	1.015	0.055	0.060	7/8
BSL-3	3/8	0.390	1 3/16	1.208	0.065	0.070	1/16
BSL-4	1/2	0.515	1 1/4	1.271	0.126	0.131	1/8
BSL-5	5/8	0.640	1 5/16	1.333	0.188	0.193	3/16
BSL-6	5/8	0.640	1 7/16	1.458	0.171	0.176	5/16
BSL-7	3/4	0.767	1 5/8	1.646	0.216	0.222	1/2

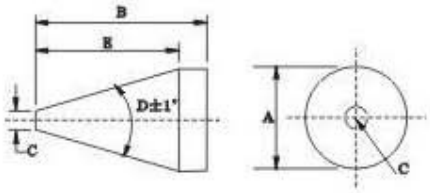


Table 8 *Blanks for carbide burrs-shape SM (cone)*

Blank Dealgnation	A		B		C	D	E
	Nominal	Actual	Nominal	Actual			
BSM-51	1/4	0.265	5/8	0.635	0.065	22	0.514
BSM-4	3/8	0.390	1 3/4	0.760	0.073	28	0.636
BSM-5	1/2	0.515	1	1.010	0.073	28	0.886
BSM-6	5/8	0.640	1 1/8	1.141	0.080	31	1.010

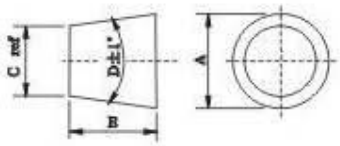
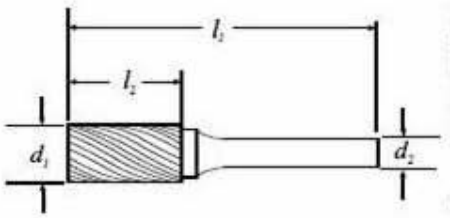


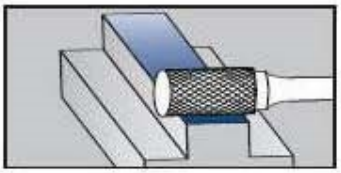
Table 12 *Blanks for carbide burrs-shape SN (Inverted cone)*

Blank Dealgnation	A		B		C	D
	Nominal	Actual	Nominal	Actual		Degrees
BSN-51	1/4	0.265	1/4	0.250	0.221	10
BSN-2	3/8	0.390	3/8	0.375	0.305	13
BSN-3	1/2	0.515	1/2	0.500	0.374	16
BSN-4	1/2	0.515	1/2	0.500	0.266	28
BSN-5	5/8	0.640	5/8	0.625	0.431	19
BSN-6	5/8	0.640	3/4	0.750	0.403	18
BSN-7	3/4	0.767	5/8	0.625	0.432	30

INDUSTRY ROTARY INSTRUMENTS

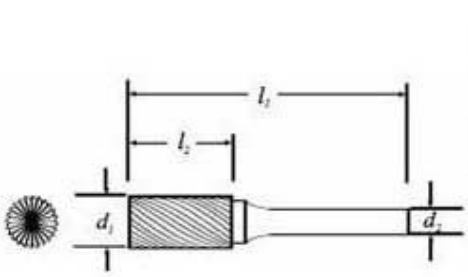
SA SERIES - CYLINDER SHAPE CARBIDE BURRS

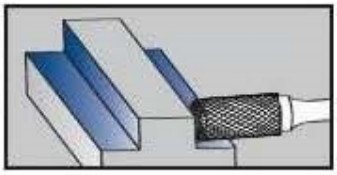




Example	Type No.	D1	L2	D2	L1
	A0313	3	13	6(3)	38
	A0413	4	13	6(3)	41
	A0616	6	16	6	61
	A0820	8	20	6	65
	A1020	10	20	6	65
	A1225	12	25	6	70
	A1625	16	25	6	70
	A0207	2.3	7	2.35	38

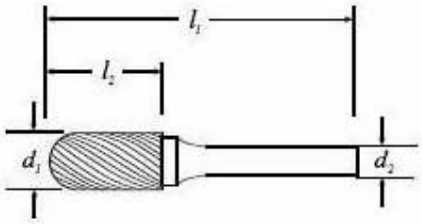
SB SERIES - CYLINDER SHAPE WITH END CUT CARBIDE BURRS

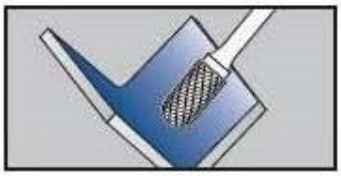




Example	Type No.	D1	L2	D2	L1
	B0210	2	10	6(3)	38
	B0313	3	13	6(3)	38
	B0413	4	13	6(3)	41
	B0616	6	16	6	61
	B0820	8	20	6	65
	B1020	10	20	6	65
	B1225	12	25	6	70
	B1625	16	25	6	70
	B0207	2.3	7	2.35	38

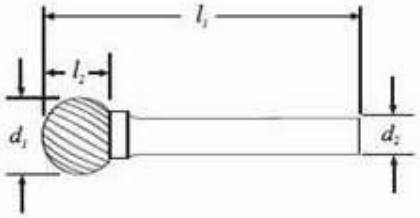
SC SERIES - CYLINDER SHAPE WITH RADIUS END CARBIDE BURRS

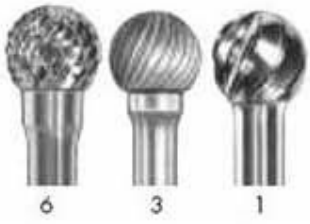


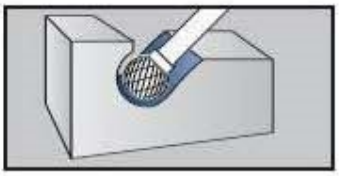


Example	Type No.	D1	L2	D2	L1
	C0313	3	13	6(3)	38
	C0413	4	13	6(3)	41
	C0616	6	16	6	61
	C0820	8	20	6	65
	C1020	10	20	6	65
	C1225	12	25	6	70
	C1625	16	25	6	70
	C0207	2.3	7	2.35	38

SD SERIES - BALL SHAPE CARBIDE BURRS

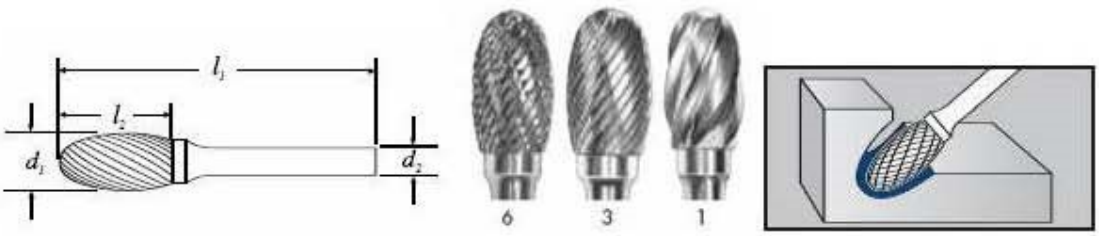






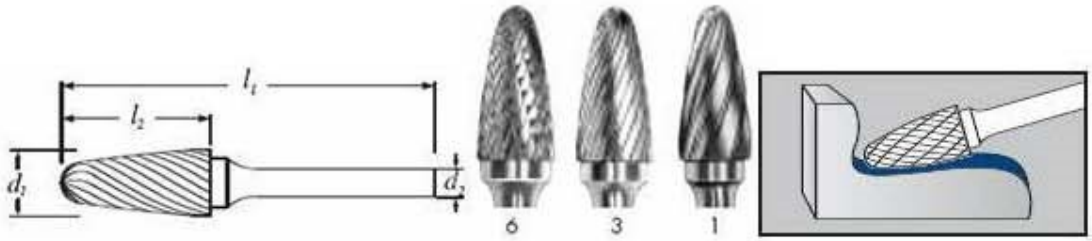
Example	Type No.	D1	L2	D2	L1
	D0201	2	108	6(3)	38
	D0302	3	2.7	6(3)	38
	D0403	4	3.6	6(3)	31
	D0605	6	5.4	6	50
	D0807	8	7.2	5	52
	D1009	10	9	6	54
	D1210	12	10.8	6	56
	D1614	16	14.4	6	60
	D0202	2.3	2	2.35	38

SE SERIES - OVAL SHAPE CARBIDE BURRS



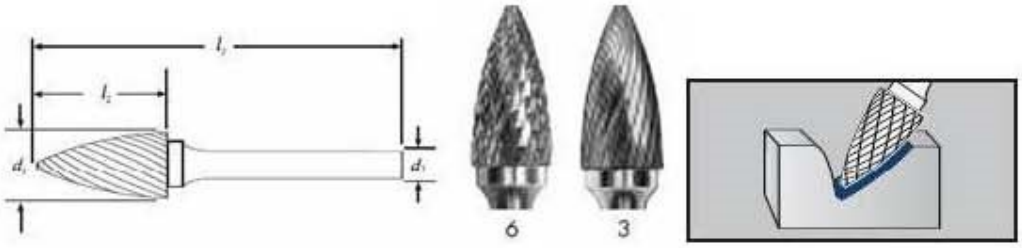
Example	Type No.	D1	L2	D2	L1
	E0307	3	7	6(3)	38
	E0610	6	10	6	55
	E0813	8	13	6	58
	E1016	10	16	6	61
	E1220	12	20	6	65
	E1625	16	25	6	70

SF SERIES - TREE SHAPE WITH RADIUS END CARBIDE BURRS



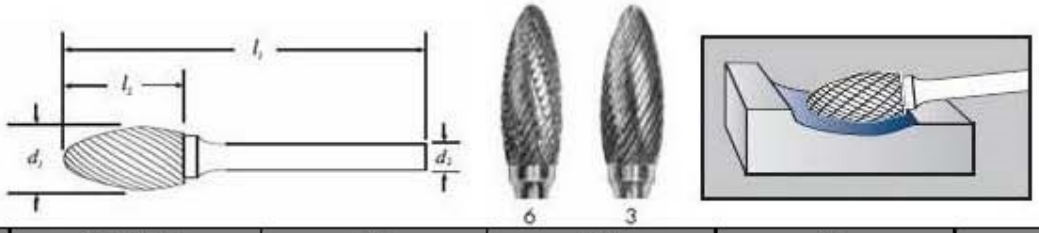
Example	Type No.	D1	L2	D2	L1
	F0313	3	13	6(3)	38
	F0618	6	18	6	63
	F1020	10	20	6	65
	F1225	12	25	6	70

SG SERIES - TREE SHAPE CARBIDE BURRS



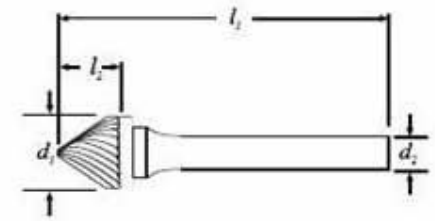
Example	Type No.	D1	L2	D2	L1
	G0313	3	13	6(3)	38
	G0618	6	18	6	63
	G1020	10	20	6	65
	G1225	12	25	6	70
	G0207	2.3	7	2.35	38

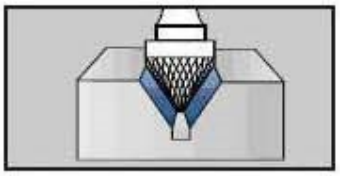
SH SERIES - FLAME SHAPE CARBIDE BURRS



Example	Type No.	D1	L2	D2	L1
	H0307	3	7	6(3)	38
	H0618	6	18	6	63
	H0820	8	20	6	65
	H1025	10	25	6	70
	H1232	12	32	6	77
	H1636	16	36	6	81

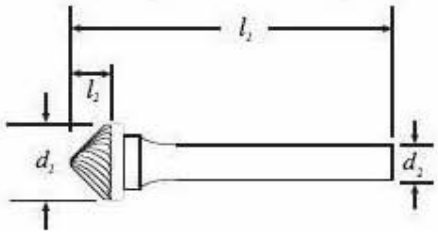
SJ SERIES - 60 CONE SHAPE CARBIDE BURRS

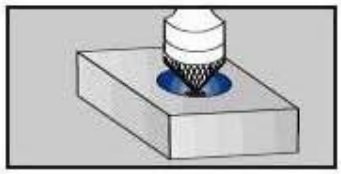




Example	Type No.	D1	L2	D2	L1
	J0302(60°)	3	2.6	6	38
	J0605(60°)	6	5.2	6	55
	J0807(60°)	8	7	6	57
	J1008(60°)	10	8.7	6	58
	J1210(60°)	12	10.4	6	60
	J1613(60°)	16	13.8	6	62

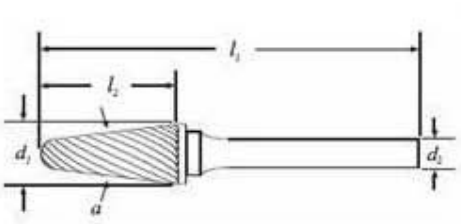
SK SERIES - 90 CONE SHAPE CARBIDE BURRS

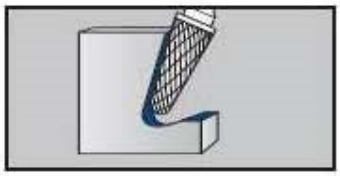




Example	Type No.	D1	L2	D2	L1
	K0301(90°)	3	1.5	6	38
	K0603(90°)	6	3	6	51
	K1005(90°)	10	5	6	55
	K1206(90°)	12	6	6	57
	K1608(90°)	16	8	6	60
	K0804(90°)	8	4	6	54

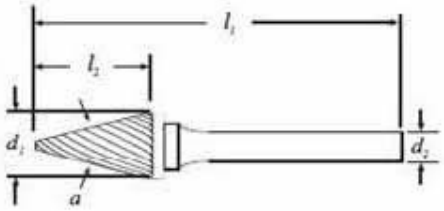
SL SERIES - TAPER WITH RADIUS END SHAPE CARBIDE BURRS





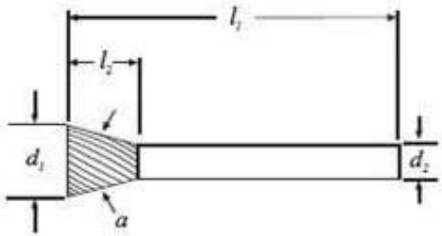
Example	Type No.	D1	L2	D2	L1
	L0313(10°)	3	13	6(3)	38
	L0616(14°)	6	16	6	61
	L0822(14°)	8	22	6	67
	L1025(14°)	10	25	6	70
	L1228(14°)	12	28	6	73
	L1633(14°)	16	33	6	78
	L2013(11°)	2	13	6(3)	38

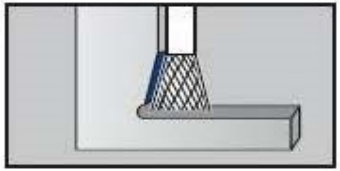
SM SERIES - CONE SHAPE CARBIDE BURRS



Example	Type No.	D1	L2	D2	L1
	M0311(14°)	3	11	6(3)	38
	M0618(14°)	6	18	6	63
	M1020(25°)	10	20	6	65
	M1225(25°)	12	25	6	70
	M1625(32°)	16	25	6	70
	M0207(14°)	2.3	7	2.35	38

SN SERIES - CONE INVERTED SHAPE CARBIDE BURRS





Example	Type No.	D1	L2	D2	L1
	N0305(10°)	3	5	6(3)	38
	N0607(10°)	6	7	6(3)	52
	N0808(10°)	8	8	6	52
	N1010(13°)	10	10	6	55
	N1213(20°)	12	13	6	58
	N1616(20°)	16	16	6	61
	N1613(20°)	16	13	6	58
	N1619(18°)	16	19	6	59