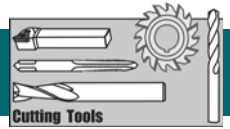


# Cutting Tools



## CARBIDE BURRS

### Shape A- Cylindrical



Style	Cutting Diameter	Cutting Length	Shank Diameter	Single Cut Model No.	Double Cut Model No.
SA-43	1/16	1/2	1/8"	389-0002	389-0102
SA-42	3/32	7/16	1/8"	389-0004	389-0104
SA-41	1/8	9/16	1/8"	389-0006	389-0106
SA-13	5/32	5/8	1/4"	389-0010	389-0110
SA-14	3/16	5/8	1/4"	389-0012	389-0112
SA-1	1/4	5/8	1/4"	389-0014	389-0114
SA-2	5/16	3/4	1/4"	389-0016	389-0116
SA-3	3/8	3/4	1/4"	389-0018	389-0118
SA-4	7/16	1	1/4"	389-0020	389-0120
SA-5	1/2	1	1/4"	389-0022	389-0122
SA-7	3/4	1	1/4"	389-0024	389-0124
SA-9	1	1	1/4"	389-0026	389-0126

### Shape B- Cylindrical End Cut



Style	Cutting Diameter	Cutting Length	Shank Diameter	Single Cut Model No.	Double Cut Model No.
SB-42	3/32	7/16	1/8"	389-0504	389-0604
SB-43	1/8	9/16	1/8"	389-0506	389-0606
SB-41	1/16	1/2	1/4"	389-0510	389-0610
SB-13	5/32	5/8	1/4"	389-0512	389-0612
SB-14	3/16	5/8	1/4"	389-0514	389-0614
SB-1	1/4	5/8	1/4"	389-0516	389-0616
SB-2	5/16	3/4	1/4"	389-0518	389-0618
SB-3	3/8	3/4	1/4"	389-0520	389-0620
SB-4	7/16	1	1/4"	389-0522	389-0622
SB-5	1/2	1	1/4"	389-0524	389-0624
SB-7	3/4	1	1/4"	389-0526	389-0626
SB-9	1	1	1/4"	389-0528	389-0628

### Shape C- Cylindrical Radius End



Style	Cutting Diameter	Cutting Length	Shank Diameter	Single Cut Model No.	Double Cut Model No.
SC-41	3/32	7/16	1/8"	389-1004	389-1104
SC-42	1/8	9/16	1/8"	389-1006	389-1106
SC-11	1/8	1/2	1/4"	389-1010	389-1110
SC-13	5/32	5/8	1/4"	389-1012	389-1112
SC-14	3/16	5/8	1/4"	389-1014	389-1114
SC-1	1/4	5/8	1/4"	389-1016	389-1116
SC-2	5/16	3/4	1/4"	389-1018	389-1118
SC-3	3/8	3/4	1/4"	389-1020	389-1120
SC-4	7/16	1	1/4"	389-1022	389-1122
SC-5	1/2	1	1/4"	389-1024	389-1124
SC-7	5/8	1	1/4"	389-1026	389-1126
SC-9	3/4	1	1/4"	389-1028	389-1128

### Shape D- Ball



Style	Cutting Diameter	Cutting Length	Shank Diameter	Single Cut Model No.	Double Cut Model No.
SD-41	3/32	3/32	1/8"	389-1504	389-1604
SD-42	1/8	1/8	1/8"	389-1506	389-1606
SD-14	3/16	3/16	1/4"	389-1510	389-1610
SD-11	1/8	1/8	1/4"	389-1512	389-1612
SD-1	1/4	1/4	1/4"	389-1514	389-1614
SD-2	5/16	5/16	1/4"	389-1516	389-1616
SD-3	3/8	3/8	1/4"	389-1518	389-1618
SD-5	1/2	1/2	1/4"	389-1520	389-1620
SD-6	5/8	5/8	1/4"	389-1522	389-1622
SD-7	3/4	3/4	1/4"	389-1524	389-1624
SD-9	1	1	1/4"	389-1526	389-1626

### Shape E- Oval

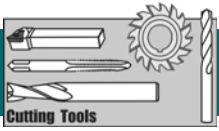


Style	Cutting Diameter	Cutting Length	Shank Diameter	Single Cut Model No.	Double Cut Model No.
SE-53	3/16	9/32	1/8"	389-2004	389-2104
SE-41	1/8	7/32	1/8"	389-2006	389-2106
SE-1	1/4	3/8	1/4"	389-2010	389-2110
SE-3	3/8	5/8	1/4"	389-2012	389-2112
SE-5	1/2	7/8	1/4"	389-2014	389-2114
SE-6	5/8	1	1/4"	389-2016	389-2116
SE-7	3/4	1	1/4"	389-2018	389-2118

### Shape F- Three Radius End



Style	Cutting Diameter	Cutting Length	Shank Diameter	Single Cut Model No.	Double Cut Model No.
SF-53	3/16	1/2	1/8"	389-3002	389-3102
SF-41	1/8	1/4	1/8"	389-3004	389-3104
SF-42	1/8	1/2	1/8"	389-3006	389-3106
SF-11	1/8	1/2	1/4"	389-3010	389-3110
SF-1	1/4	5/8	1/4"	389-3012	389-3112
SF-3	3/8	3/4	1/4"	389-3014	389-3114
SF-5	1/2	1	1/4"	389-3016	389-3116
SF-6	5/8	1	1/4"	389-3018	389-3118
SF-7	3/4	1	1/4"	389-3020	389-3120



# Cutting Tools

## CARBIDE BURRS

### Shape G- Three Pointed End



Style	Cutting Diameter	Cutting Length	Shank Diameter	Single Cut Model No.	Double Cut Model No.
SG-43	1/8	3/8	1/8"	389-3502	389-3602
SG-42	1/8	5/16	1/8"	389-3504	389-3604
SG-41	1/8	1/4	1/8"	389-3506	389-3606
SG-1	1/4	5/8	1/4"	389-3510	389-3610
SG-3	3/8	3/4	1/4"	389-3512	389-3612
SG-13	1/2	3/4	1/4"	389-3514	389-3614
SG-5	1/2	1	1/4"	389-3516	389-3616
SG-6	5/8	1	1/4"	389-3518	389-3618
SG-7	3/4	1	1/4"	389-3520	389-3620

### Shape H- Flame



Style	Cutting Diameter	Cutting Length	Shank Diameter	Single Cut Model No.	Double Cut Model No.
SH-53	3/16	3/8	1/8"	389-2504	389-2604
SH41	1/8	1/4	1/8"	389-2506	389-2606
SH-1	1/4	5/8	1/4"	389-2510	389-2610
SH-2	5/16	3/4	1/4"	389-2512	389-2612
SH-5	1/2	1-1/4	1/4"	389-2514	389-2614
SH-6	5/8	1-7/16	1/4"	389-2516	389-2616
SH-7	3/4	1-5/8	1/4"	389-2518	389-2618

### Shape J- 60° Cone



Style	Cutting Diameter	Cutting Length	Shank Diameter	Single Cut Model No.	Double Cut Model No.
SJ-42	1/8	3/32	1/8"	389-4006	389-4106
SJ-1	1/4	3/16	1/4"	389-4010	389-4110
SJ-2	5/16	3/16	1/4"	389-4012	389-4112
SJ-3	3/8	5/16	1/4"	389-4014	389-4114
SJ-5	1/2	7/16	1/4"	389-4016	389-4116
SJ-6	5/8	9/16	1/4"	389-4018	389-4118
SJ-7	3/4	11/16	1/4"	389-4020	389-4120
SJ-9	1	15/16	1/4"	389-4022	389-4122

### Shape K- 90° Cone



Style	Cutting Diameter	Cutting Length	Shank Diameter	Single Cut Model No.	Double Cut Model No.
SK-42	1/8	1/16	1/8"	389-4506	389-4606
SK-1	1/4	1/8	1/4"	389-4510	389-4610
SK-2	5/16	3/16	1/4"	389-4512	389-4612
SK-3	3/8	3/16	1/4"	389-4514	389-4614
SK-5	1/2	1/4	1/4"	389-4516	389-4616
SK-6	5/8	5/16	1/4"	389-4518	389-4618
SK-7	3/4	3/8	1/4"	389-4520	389-4620
SK-9	1	1/2	1/4"	389-4522	389-4622

### Shape L- Taper or Cone Radius End



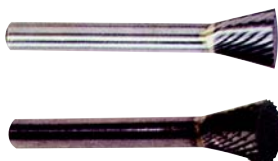
Shape	Style	Cutting Diameter	Cutting Length	Shank Diameter	Single Cut Model No.	Double Cut Model No.
8Deg.Taper	SL-53	3/16	1/2	1/8	389-5002	389-5102
8Deg.Taper	SL-42	1/8	1/2	1/8	389-5004	389-5104
8Deg.Taper	SL-41	1/8	3/8	1/8	389-5006	389-5106
14Deg.Taper	SL-1	1/4	5/8	1/4	389-5010	389-5110
14 Deg.Taper	SL-2	5/16	7/8	1/4	389-5012	389-5112
14 Deg.Taper	SL-3	3/8	1-1/16	1/4	389-5014	389-5114
14 Deg.Taper	SL-4	1/2	1-1/8	1/4	389-5016	389-5116
14 Deg.Taper	SL-5	5/8	1-3/16	1/4	389-5018	389-5118
14 Deg.Taper	SL-6	5/8	1-5/16	1/4	389-5020	389-5120
14 Deg.Taper	SL-7	3/4	1-1/2	1/4	389-5022	389-5122

### Shape M- Taper or Cone Flat End



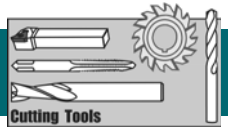
Shape	Style	Cutting Diameter	Cutting Length	Shank Diameter	Single Cut Model No.	Double Cut Model No.
16Deg.Taper	SM-53	3/16	1/2	1/8"	389-5502	389-5602
7Deg.Taper	SM-43	1/8	1/8	1/8"	389-5504	389-5604
14Deg.Taper	SM-42	1/8	7/16	1/8"	389-5506	389-5606
12Deg.Taper	SM-41	1/8	11/32	1/8"	389-5508	389-5608
22Deg.Taper	SM-1	1/4	1/2	1/4"	389-5510	389-5610
14Deg.Taper	SM-2	1/4	3/4	1/4"	389-5512	389-5612
10Deg.Taper	SM-3	1/4	1	1/4"	389-5514	389-5614
28Deg.Taper	SM-4	3/8	5/8	1/4"	389-5516	389-5616
28Deg.Taper	SM-5	1/2	5/8	1/4"	389-5518	389-5618
30Deg.Taper	SM-6	5/8	1	1/4"	389-5520	389-5620

### Shape N- Inverted Cone



Shape	Style	Cutting Diameter	Cutting Length	Shank Diameter	Single Cut Model No.	Double Cut Model No.
10Deg.Taper	SN-41	3/32	1/8	1/8"	389-6002	389-6102
10Deg.Taper	SN-42	1/8	3/16	1/8"	389-6004	389-6104
10Deg.Taper	SN-53	3/16	1/4	1/8"	389-6006	389-6106
10Deg.Taper	SN-1	1/4	5/16	1/4"	389-6010	389-6110
13Deg.Taper	SN-2	3/8	3/8	1/4"	389-6012	389-6112
28Deg.Taper	SN-4	1/2	1/2	1/4"	389-6014	389-6114
18Deg.Taper	SN-6	5/8	3/4	1/4"	389-6016	389-6116
30Deg.Taper	SN-7	3/4	5/8	1/4"	389-6018	389-6118

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## DIN8032 CARBIDE BURRS

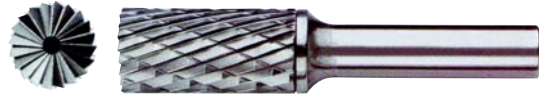
6mm Shank Dia.

### Carbide Burrs-ZYA (Cylindrical)



Style	Cutting Dia.	Cutting Length	Model No.
ZYA0413	4mm	13mm	489-0004
ZYA0616	6mm	16mm	489-0006
ZYA0820	8mm	20mm	489-0008
ZYA1013	10mm	13mm	489-0010
ZYA1020	10mm	20mm	489-0011
ZYA1225	12mm	25mm	489-0012
ZYA1625	16mm	25mm	489-0016

### Carbide Burrs-ZYAS (Cylindrical End Cut)



Style	Cutting Dia.	Cutting Length	Model No.
ZYAS 0413	4mm	13mm	489-0104
ZYAS 0616	6mm	16mm	489-0106
ZYAS 0820	8mm	20mm	489-0108
ZYAS 1013	10mm	13mm	489-0110
ZYAS 1020	10mm	20mm	489-0111
ZYAS 1225	12mm	25mm	489-0112
ZYAS 1625	16mm	25mm	489-0116

### Carbide Burrs-WRC(Cylindrical Radius End)



Style	Cutting Dia.	Cutting Length	Model No.
WRC0413	4mm	13mm	489-0204
WRC0616	6mm	16mm	489-0206
WRC0820	8mm	20mm	489-0208
WRC1020	10mm	20mm	489-0210
WRC1225	12mm	25mm	489-0212
WRC1625	16mm	25mm	489-0216

### Carbide Burrs-KUD(Ball)



Style	Cutting Dia.	Cutting Length	Model No.
KUD 0403	4mm	3.6mm	489-0304
KUD 0605	6mm	5.4mm	489-0306
KUD 0807	8mm	7.0mm	489-0308
KUD 1009	10mm	9.0mm	489-0310
KUD 1210	12mm	10.8mm	489-0312
KUD 1614	16mm	14.3mm	489-0316
KUD 2018	20mm	18.0mm	489-0320

### Carbide Burrs-SPG(Three Pointed End)



Style	Cutting Dia.	Cutting Length	Model No.
SPG 0618	6mm	18mm	489-0406
SPG 1020	10mm	20mm	489-0410
SPG 1225	12mm	25mm	489-0412
SPG 1230	12mm	30mm	489-0413
SPG 1630	16mm	30mm	489-0416

### Carbide Burrs-Tre(Oval)



Style	Cutting Dia.	Cutting Length	Model No.
TRE0610	6mm	10mm	489-0506
TRE0813	8mm	13mm	489-0508
TRE1016	10mm	16mm	489-0510
TRE1220	12mm	20mm	489-0512
TRE1625	16mm	25mm	489-0516

### Carbide Burrs-SKM(Taper or Cone Flat End)



Style	Cutting Dia.	Cutting Length	Model No.
SKM0618 18 degree	6mm		489-0606
SKM1020 28 degree	10mm	18mm	489-0610
SKM1225 26 degree	12mm		489-0612

### Carbide Burrs-KEL(Taper or Cone Radius End)



Style	Cutting Dia.	Cutting Length	Model No.
KEL1020 14 degree	10mm		489-0710
KEL1225 14 degree	12mm	20mm	489-0712
KEL1230 14 degree	12mm		489-0713
KEL1630 14 degree	16mm	25mm	489-0716

### Carbide Burrs-RBF(Three Radius End)



Style	Cutting Dia.	Cutting Length	Model No.
RBF0618	6mm	18mm	489-0806
RBF0820	8mm	20mm	489-0808
RBF1020	10mm	20mm	489-0810
RBF1225	12mm	25mm	489-0812
RBF1630	16mm	30mm	489-0816

### Carbide Burrs-B(Flame)



Style	Cutting Dia.	Cutting Length	Model No.
B 0820	8mm	20mm	489-0908
B 1230	12mm	30mm	489-0912
B 1635	16mm	35mm	489-0916