

# SA (1/4" Steel Shank)

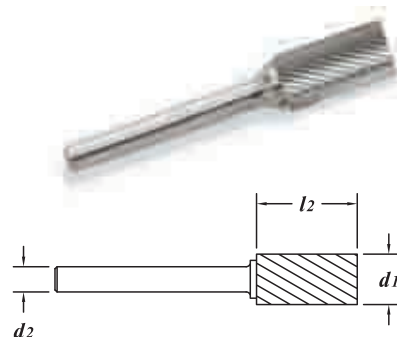
## Carbide Rotary Files - Cylindrical Shape

Submicron Grain Carbide

A - Aluminum Cut

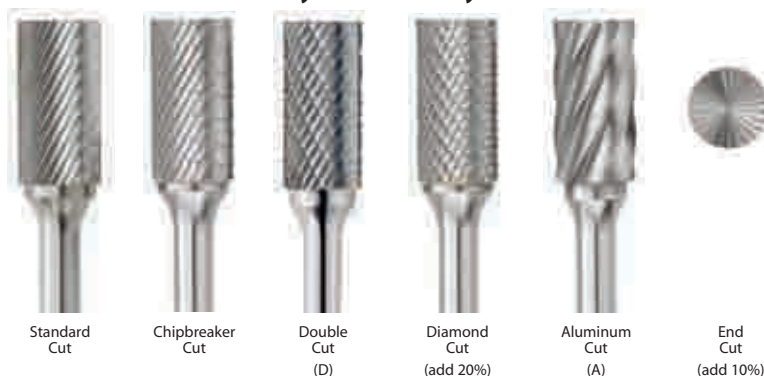
D - Double Cut

\* - Solid Carbide



| EDP#  | TOOL #   | $d_1$ †<br>Diameter |       |        | $d_2$<br>Shank<br>Diameter | $l_2$<br>Flute<br>Length | 1-11  | 12-24 | 25-49 | 50-100 |
|-------|----------|---------------------|-------|--------|----------------------------|--------------------------|-------|-------|-------|--------|
|       |          | Decimal             |       | Metric |                            |                          |       |       |       |        |
| 60010 | * SA-14  | .1875               | 3/16" | 4.76   | 1/4"                       | 5/8"                     | 7.91  | 7.57  | 7.23  | 6.88   |
| 60012 | * SA-14D | .1875               | 3/16" | 4.76   | 1/4"                       | 5/8"                     | 7.91  | 7.57  | 7.23  | 6.88   |
| 60020 | * SA-1   | .2500               | 1/4"  | 6.35   | 1/4"                       | 5/8"                     | 7.03  | 6.73  | 6.42  | 6.12   |
| 60021 | * SA-1A  | .2500               | 1/4"  | 6.35   | 1/4"                       | 5/8"                     | 8.84  | 8.46  | 8.07  | 7.69   |
| 60022 | * SA-1D  | .2500               | 1/4"  | 6.35   | 1/4"                       | 5/8"                     | 7.03  | 6.73  | 6.42  | 6.12   |
| 60030 | SA-2     | .3125               | 5/16" | 7.94   | 1/4"                       | 3/4"                     | 9.84  | 9.41  | 8.99  | 8.56   |
| 60032 | SA-2D    | .3125               | 5/16" | 7.94   | 1/4"                       | 3/4"                     | 9.84  | 9.41  | 8.99  | 8.56   |
| 60040 | SA-3     | .3750               | 3/8"  | 9.52   | 1/4"                       | 3/4"                     | 10.61 | 10.15 | 9.68  | 9.22   |
| 60041 | SA-3A    | .3750               | 3/8"  | 9.52   | 1/4"                       | 3/4"                     | 14.27 | 13.64 | 13.03 | 12.41  |
| 60042 | SA-3D    | .3750               | 3/8"  | 9.52   | 1/4"                       | 3/4"                     | 10.61 | 10.15 | 9.68  | 9.22   |
| 60050 | SA-4     | .4375               | 7/16" | 11.11  | 1/4"                       | 1"                       | 14.64 | 14.01 | 13.37 | 12.73  |
| 60052 | SA-4D    | .4375               | 7/16" | 11.11  | 1/4"                       | 1"                       | 14.64 | 14.01 | 13.37 | 12.73  |
| 60060 | SA-5     | .5000               | 1/2"  | 12.70  | 1/4"                       | 1"                       | 15.62 | 14.94 | 14.26 | 13.58  |
| 60061 | SA-5A    | .5000               | 1/2"  | 12.70  | 1/4"                       | 1"                       | 20.24 | 19.35 | 18.48 | 17.60  |
| 60062 | SA-5D    | .5000               | 1/2"  | 12.70  | 1/4"                       | 1"                       | 15.62 | 14.94 | 14.26 | 13.58  |
| 60070 | SA-6     | .6250               | 5/8"  | 15.87  | 1/4"                       | 1"                       | 18.92 | 18.10 | 17.27 | 16.45  |
| 60071 | SA-6A    | .6250               | 5/8"  | 15.87  | 1/4"                       | 1"                       | 31.71 | 30.33 | 28.95 | 27.57  |
| 60072 | SA-6D    | .6250               | 5/8"  | 15.87  | 1/4"                       | 1"                       | 18.92 | 18.10 | 17.27 | 16.45  |
| 60080 | SA-7     | .7500               | 3/4"  | 19.05  | 1/4"                       | 1"                       | 29.95 | 28.65 | 27.35 | 26.04  |
| 60081 | SA-7A    | .7500               | 3/4"  | 19.05  | 1/4"                       | 1"                       | 35.93 | 34.37 | 32.81 | 31.24  |
| 60082 | SA-7D    | .7500               | 3/4"  | 19.05  | 1/4"                       | 1"                       | 29.95 | 28.65 | 27.35 | 26.04  |
| 60090 | SA-9     | 1.000               | 1"    | 25.40  | 1/4"                       | 1"                       | 40.85 | 39.07 | 37.29 | 35.53  |
| 60091 | SA-9A    | 1.000               | 1"    | 25.40  | 1/4"                       | 1"                       | 49.00 | 46.87 | 44.74 | 42.61  |
| 60092 | SA-9D    | 1.000               | 1"    | 25.40  | 1/4"                       | 1"                       | 40.85 | 39.07 | 37.29 | 35.53  |

## Basic Rotary File Cut Styles Available



Double Cut and Aluminum Cut rotary files are in stock where indicated by (D) and (A) in the catalog tables.

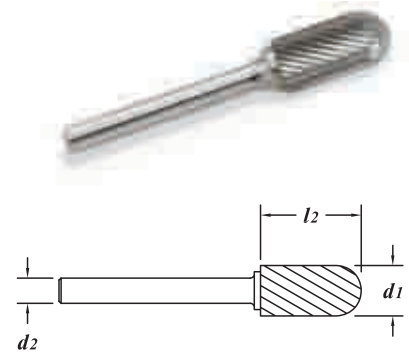
## Carbide Rotary Files - Cylindrical-Radius Shape

Submicron Grain Carbide

A - Aluminum Cut

D - Double Cut

\* - Solid Carbide



| EDP#  | TOOL #   | $d1$ †<br>Diameter |       |        | $d2$<br>Shank<br>Diameter | $l2$<br>Flute<br>Length | 1-11  | 12-24 | 25-49 | 50-100 |
|-------|----------|--------------------|-------|--------|---------------------------|-------------------------|-------|-------|-------|--------|
|       |          | Decimal            |       | Metric |                           |                         |       |       |       |        |
| 61010 | * SC-14  | .1875              | 3/16" | 4.76   | 1/4"                      | 5/8"                    | 8.94  | 8.56  | 8.16  | 7.78   |
| 61012 | * SC-14D | .1875              | 3/16" | 4.76   | 1/4"                      | 5/8"                    | 8.94  | 8.56  | 8.16  | 7.78   |
| 61020 | * SC-1   | .2500              | 1/4"  | 6.35   | 1/4"                      | 5/8"                    | 8.43  | 8.07  | 7.70  | 7.33   |
| 61021 | * SC-1A  | .2500              | 1/4"  | 6.35   | 1/4"                      | 5/8"                    | 11.13 | 10.64 | 10.16 | 9.67   |
| 61022 | * SC-1D  | .2500              | 1/4"  | 6.35   | 1/4"                      | 5/8"                    | 8.43  | 8.07  | 7.70  | 7.33   |
| 61030 | SC-2     | .3125              | 5/16" | 7.94   | 1/4"                      | 3/4"                    | 9.84  | 9.41  | 8.99  | 8.56   |
| 61032 | SC-2D    | .3125              | 5/16" | 7.94   | 1/4"                      | 3/4"                    | 9.84  | 9.41  | 8.99  | 8.56   |
| 61040 | SC-3     | .3750              | 3/8"  | 9.52   | 1/4"                      | 3/4"                    | 11.49 | 10.99 | 10.49 | 9.99   |
| 61041 | SC-3A    | .3750              | 3/8"  | 9.52   | 1/4"                      | 3/4"                    | 19.88 | 19.02 | 18.16 | 17.30  |
| 61042 | SC-3D    | .3750              | 3/8"  | 9.52   | 1/4"                      | 3/4"                    | 11.49 | 10.99 | 10.49 | 9.99   |
| 61050 | SC-4     | .4375              | 7/16" | 11.11  | 1/4"                      | 1"                      | 16.60 | 15.88 | 15.15 | 14.44  |
| 61052 | SC-4D    | .4375              | 7/16" | 11.11  | 1/4"                      | 1"                      | 16.60 | 15.88 | 15.15 | 14.44  |
| 61060 | SC-5     | .5000              | 1/2"  | 12.70  | 1/4"                      | 1"                      | 17.21 | 16.46 | 15.71 | 14.97  |
| 61061 | SC-5A    | .5000              | 1/2"  | 12.70  | 1/4"                      | 1"                      | 26.17 | 25.03 | 23.89 | 22.76  |
| 61062 | SC-5D    | .5000              | 1/2"  | 12.70  | 1/4"                      | 1"                      | 17.21 | 16.46 | 15.71 | 14.97  |
| 61070 | SC-6     | .6250              | 5/8"  | 15.87  | 1/4"                      | 1"                      | 22.98 | 21.99 | 20.99 | 19.99  |
| 61071 | SC-6A    | .6250              | 5/8"  | 15.87  | 1/4"                      | 1"                      | 35.85 | 34.29 | 32.73 | 31.17  |
| 61072 | SC-6D    | .6250              | 5/8"  | 15.87  | 1/4"                      | 1"                      | 22.98 | 21.99 | 20.99 | 19.99  |
| 61080 | SC-7     | .7500              | 3/4"  | 19.05  | 1/4"                      | 1"                      | 33.85 | 32.38 | 30.91 | 29.43  |
| 61081 | SC-7A    | .7500              | 3/4"  | 19.05  | 1/4"                      | 1"                      | 49.77 | 47.61 | 45.45 | 43.28  |
| 61082 | SC-7D    | .7500              | 3/4"  | 19.05  | 1/4"                      | 1"                      | 33.85 | 32.38 | 30.91 | 29.43  |

# SD (1/4" Steel Shank)

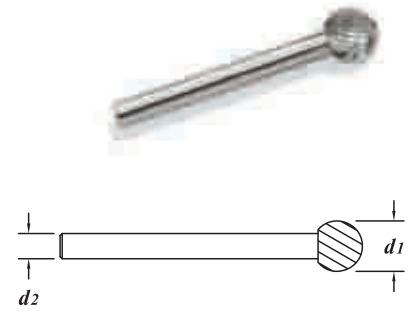
## Carbide Rotary Files - Ball Shape

Submicron Grain Carbide

A - Aluminum Cut

D - Double Cut

\* - Solid Carbide



| EDP#  | TOOL #   | $d1$ †  |          | $d2$<br>Shank<br>Diameter | $l2$<br>Flute<br>Length | 1-11 | 12-24 | 25-49 | 50-100 |
|-------|----------|---------|----------|---------------------------|-------------------------|------|-------|-------|--------|
|       |          | Decimal | Diameter |                           |                         |      |       |       |        |
| 62010 | * SD-14  | .1875   | 3/16"    | 4.76                      | 1/4"                    | -    | 8.94  | 8.56  | 7.78   |
| 62012 | * SD-14D | .1875   | 3/16"    | 4.76                      | 1/4"                    | -    | 8.94  | 8.56  | 7.78   |
| 62020 | * SD-1   | .2500   | 1/4"     | 6.35                      | 1/4"                    | -    | 8.94  | 8.56  | 7.78   |
| 62021 | * SD-1A  | .2500   | 1/4"     | 6.35                      | 1/4"                    | -    | 14.20 | 13.58 | 12.96  |
| 62022 | * SD-1D  | .2500   | 1/4"     | 6.35                      | 1/4"                    | -    | 8.94  | 8.56  | 7.78   |
| 62030 | SD-2     | .3125   | 5/16"    | 7.94                      | 1/4"                    | -    | 8.43  | 8.07  | 7.70   |
| 62032 | SD-2D    | .3125   | 5/16"    | 7.94                      | 1/4"                    | -    | 8.43  | 8.07  | 7.70   |
| 62040 | SD-3     | .3750   | 3/8"     | 9.52                      | 1/4"                    | -    | 9.14  | 8.75  | 8.35   |
| 62041 | SD-3A    | .3750   | 3/8"     | 9.52                      | 1/4"                    | -    | 14.80 | 14.15 | 13.51  |
| 62042 | SD-3D    | .3750   | 3/8"     | 9.52                      | 1/4"                    | -    | 9.14  | 8.75  | 8.35   |
| 62050 | SD-4     | .4375   | 7/16"    | 11.11                     | 1/4"                    | -    | 13.29 | 12.71 | 12.14  |
| 62052 | SD-4D    | .4375   | 7/16"    | 11.11                     | 1/4"                    | -    | 13.29 | 12.71 | 12.14  |
| 62060 | SD-5     | .5000   | 1/2"     | 12.70                     | 1/4"                    | -    | 13.70 | 13.10 | 12.50  |
| 62061 | SD-5A    | .5000   | 1/2"     | 12.70                     | 1/4"                    | -    | 18.32 | 17.52 | 16.73  |
| 62062 | SD-5D    | .5000   | 1/2"     | 12.70                     | 1/4"                    | -    | 13.70 | 13.10 | 12.50  |
| 62070 | SD-6     | .6250   | 5/8"     | 15.87                     | 1/4"                    | -    | 15.32 | 14.65 | 13.99  |
| 62071 | SD-6A    | .6250   | 5/8"     | 15.87                     | 1/4"                    | -    | 31.71 | 30.33 | 28.95  |
| 62072 | SD-6D    | .6250   | 5/8"     | 15.87                     | 1/4"                    | -    | 15.32 | 14.65 | 13.99  |
| 62080 | SD-7     | .7500   | 3/4"     | 19.05                     | 1/4"                    | -    | 21.82 | 20.87 | 19.93  |
| 62082 | SD-7D    | .7500   | 3/4"     | 19.05                     | 1/4"                    | -    | 21.82 | 20.87 | 19.93  |
| 62090 | SD-9     | 1.000   | 1"       | 25.40                     | 1/4"                    | -    | 40.48 | 38.72 | 36.96  |
| 62092 | SD-9D    | 1.000   | 1"       | 25.40                     | 1/4"                    | -    | 40.48 | 38.72 | 36.96  |

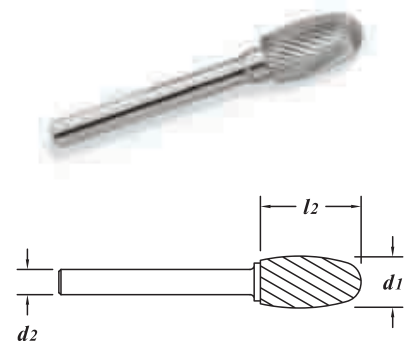
## Carbide Rotary Files - Egg Shape

Submicron Grain Carbide

A - Aluminum Cut

D - Double Cut

\* - Solid Carbide



| EDP#  | TOOL #  | $d_1$ †<br>Diameter |      |        | $d_2$<br>Shank<br>Diameter | $l_2$<br>Flute<br>Length | 1-11  | 12-24 | 25-49 | 50-100 |
|-------|---------|---------------------|------|--------|----------------------------|--------------------------|-------|-------|-------|--------|
|       |         | Decimal             |      | Metric |                            |                          |       |       |       |        |
| 63010 | * SE-1  | .2500               | 1/4" | 6.35   | 1/4"                       | 3/8"                     | 9.19  | 8.80  | 8.39  | 8.00   |
| 63012 | * SE-1D | .2500               | 1/4" | 6.35   | 1/4"                       | 3/8"                     | 9.19  | 8.80  | 8.39  | 8.00   |
| 63020 | SE-3    | .3750               | 3/8" | 9.52   | 1/4"                       | 5/8"                     | 12.77 | 12.22 | 11.66 | 11.11  |
| 63021 | SE-3A   | .3750               | 3/8" | 9.52   | 1/4"                       | 5/8"                     | 18.51 | 17.71 | 16.90 | 16.10  |
| 63022 | SE-3D   | .3750               | 3/8" | 9.52   | 1/4"                       | 5/8"                     | 12.77 | 12.22 | 11.66 | 11.11  |
| 63030 | SE-5    | .5000               | 1/2" | 12.70  | 1/4"                       | 7/8"                     | 16.35 | 15.64 | 14.92 | 14.22  |
| 63031 | SE-5A   | .5000               | 1/2" | 12.70  | 1/4"                       | 7/8"                     | 26.58 | 25.43 | 24.27 | 23.12  |
| 63032 | SE-5D   | .5000               | 1/2" | 12.70  | 1/4"                       | 7/8"                     | 16.35 | 15.64 | 14.92 | 14.22  |
| 63040 | SE-6    | .6250               | 5/8" | 15.87  | 1/4"                       | 1"                       | 24.02 | 22.98 | 21.93 | 20.89  |
| 63041 | SE-6A   | .6250               | 5/8" | 15.87  | 1/4"                       | 1"                       | 39.46 | 37.74 | 36.03 | 34.31  |
| 63042 | SE-6D   | .6250               | 5/8" | 15.87  | 1/4"                       | 1"                       | 24.02 | 22.98 | 21.93 | 20.89  |
| 63050 | SE-7    | .7500               | 3/4" | 19.05  | 1/4"                       | 1"                       | 33.09 | 31.66 | 30.21 | 28.78  |
| 63052 | SE-7D   | .7500               | 3/4" | 19.05  | 1/4"                       | 1"                       | 33.09 | 31.66 | 30.21 | 28.78  |

# SF (1/4" Steel Shank)

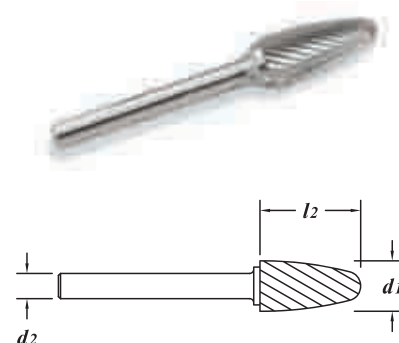
## Carbide Rotary Files - Tree-Radius Shape

Submicron Grain Carbide

A - Aluminum Cut

D - Double Cut

\* - Solid Carbide



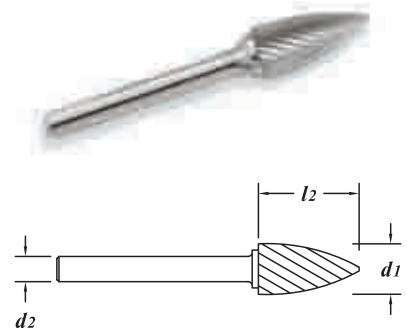
| EDP#  | TOOL #  | $d_1$ † |          |        | $d_2$<br>Shank<br>Diameter | $l_2$<br>Flute<br>Length | 1-11  | 12-24 | 25-49 | 50-100 |
|-------|---------|---------|----------|--------|----------------------------|--------------------------|-------|-------|-------|--------|
|       |         | Decimal | Diameter | Metric |                            |                          |       |       |       |        |
| 64010 | * SF-1  | .2500   | 1/4"     | 6.35   | 1/4"                       | 5/8"                     | 9.19  | 8.80  | 8.39  | 8.00   |
| 64011 | * SF-1A | .2500   | 1/4"     | 6.35   | 1/4"                       | 5/8"                     | 14.20 | 13.58 | 12.96 | 12.34  |
| 64012 | * SF-1D | .2500   | 1/4"     | 6.35   | 1/4"                       | 5/8"                     | 9.19  | 8.80  | 8.39  | 8.00   |
| 64020 | SF-3    | .3750   | 3/8"     | 9.52   | 1/4"                       | 3/4"                     | 11.09 | 10.61 | 10.12 | 9.64   |
| 64021 | SF-3A   | .3750   | 3/8"     | 9.52   | 1/4"                       | 3/4"                     | 17.89 | 17.11 | 16.33 | 15.56  |
| 64022 | SF-3D   | .3750   | 3/8"     | 9.52   | 1/4"                       | 3/4"                     | 11.09 | 10.61 | 10.12 | 9.64   |
| 64030 | SF-5    | .5000   | 1/2"     | 12.70  | 1/4"                       | 1"                       | 16.60 | 15.88 | 15.15 | 14.44  |
| 64031 | SF-5A   | .5000   | 1/2"     | 12.70  | 1/4"                       | 1"                       | 25.30 | 24.20 | 23.10 | 22.01  |
| 64032 | SF-5D   | .5000   | 1/2"     | 12.70  | 1/4"                       | 1"                       | 16.60 | 15.88 | 15.15 | 14.44  |
| 64040 | SF-6    | .6250   | 5/8"     | 15.87  | 1/4"                       | 1"                       | 22.98 | 21.99 | 20.99 | 19.99  |
| 64041 | SF-6A   | .6250   | 5/8"     | 15.87  | 1/4"                       | 1"                       | 35.18 | 33.65 | 32.13 | 30.60  |
| 64042 | SF-6D   | .6250   | 5/8"     | 15.87  | 1/4"                       | 1"                       | 22.98 | 21.99 | 20.99 | 19.99  |
| 64050 | SF-14   | .7500   | 3/4"     | 19.05  | 1/4"                       | 1-1/4"                   | 35.42 | 33.88 | 32.34 | 30.80  |
| 64052 | SF-14D  | .7500   | 3/4"     | 19.05  | 1/4"                       | 1-1/4"                   | 35.42 | 33.88 | 32.34 | 30.80  |

## Carbide Rotary Files - Tree-Pointed Shape

Submicron Grain Carbide

D - Double Cut

\* - Solid Carbide

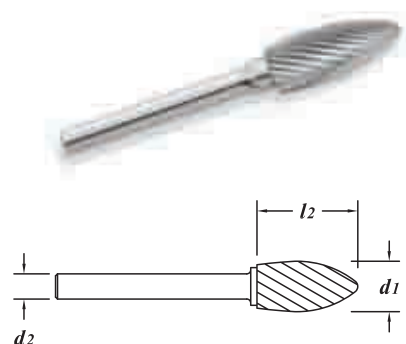


| EDP#  | TOOL #  | $d_1$ †<br>Diameter |      |        | $d_2$<br>Shank<br>Diameter | $l_2$<br>Flute<br>Length | 1-11  | 12-24 | 25-49 | 50-100 |
|-------|---------|---------------------|------|--------|----------------------------|--------------------------|-------|-------|-------|--------|
|       |         | Decimal             |      | Metric |                            |                          |       |       |       |        |
| 65010 | * SG-1  | .2500               | 1/4" | 6.35   | 1/4"                       | 5/8"                     | 9.19  | 8.80  | 8.39  | 8.00   |
| 65012 | * SG-1D | .2500               | 1/4" | 6.35   | 1/4"                       | 5/8"                     | 9.19  | 8.80  | 8.39  | 8.00   |
| 65020 | SG-3    | .3750               | 3/8" | 9.52   | 1/4"                       | 3/4"                     | 11.82 | 11.32 | 10.80 | 10.29  |
| 65022 | SG-3D   | .3750               | 3/8" | 9.52   | 1/4"                       | 3/4"                     | 11.82 | 11.32 | 10.80 | 10.29  |
| 65030 | SG-13   | .5000               | 1/2" | 12.70  | 1/4"                       | 3/4"                     | 15.84 | 15.15 | 14.47 | 13.77  |
| 65032 | SG-13D  | .5000               | 1/2" | 12.70  | 1/4"                       | 3/4"                     | 15.84 | 15.15 | 14.47 | 13.77  |
| 65040 | SG-5    | .5000               | 1/2" | 12.70  | 1/4"                       | 1"                       | 16.37 | 15.66 | 14.94 | 14.24  |
| 65042 | SG-5D   | .5000               | 1/2" | 12.70  | 1/4"                       | 1"                       | 16.37 | 15.66 | 14.94 | 14.24  |
| 65050 | SG-6    | .6250               | 5/8" | 15.87  | 1/4"                       | 1"                       | 22.98 | 21.99 | 20.99 | 19.99  |
| 65052 | SG-6D   | .6250               | 5/8" | 15.87  | 1/4"                       | 1"                       | 22.98 | 21.99 | 20.99 | 19.99  |
| 65060 | SG-7    | .7500               | 3/4" | 19.05  | 1/4"                       | 1"                       | 30.40 | 29.08 | 27.76 | 26.44  |
| 65062 | SG-7D   | .7500               | 3/4" | 19.05  | 1/4"                       | 1"                       | 30.40 | 29.08 | 27.76 | 26.44  |

# SH (1/4" Steel Shank)

## Carbide Rotary Files - Flame Shape

Submicron Grain Carbide  
D - Double Cut



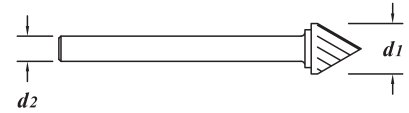
| EDP#  | TOOL # | $d1$ †  |          |        | $d2$<br>Shank<br>Diameter | $l2$<br>Flute<br>Length | 1-11  | 12-24 | 25-49 | 50-100 |
|-------|--------|---------|----------|--------|---------------------------|-------------------------|-------|-------|-------|--------|
|       |        | Decimal | Diameter | Metric |                           |                         |       |       |       |        |
| 66010 | SH-2   | .3125   | 5/16"    | 7.94   | 1/4"                      | 3/4"                    | 11.24 | 10.75 | 10.26 | 9.78   |
| 66012 | SH-2D  | .3125   | 5/16"    | 7.94   | 1/4"                      | 3/4"                    | 11.24 | 10.75 | 10.26 | 9.78   |
| 66020 | SH-5   | .5000   | 1/2"     | 12.70  | 1/4"                      | 1-1/4"                  | 22.98 | 21.99 | 20.99 | 19.99  |
| 66022 | SH-5D  | .5000   | 1/2"     | 12.70  | 1/4"                      | 1-1/4"                  | 22.98 | 21.99 | 20.99 | 19.99  |
| 66030 | SH-6   | .6250   | 5/8"     | 15.87  | 1/4"                      | 1-7/16"                 | 30.14 | 28.83 | 27.52 | 26.21  |
| 66032 | SH-6D  | .6250   | 5/8"     | 15.87  | 1/4"                      | 1-7/16"                 | 30.14 | 28.83 | 27.52 | 26.21  |
| 66040 | SH-7   | .7500   | 3/4"     | 19.05  | 1/4"                      | 1-5/8"                  | 37.04 | 35.43 | 33.82 | 32.21  |
| 66042 | SH-7D  | .7500   | 3/4"     | 19.05  | 1/4"                      | 1-5/8"                  | 37.04 | 35.43 | 33.82 | 32.21  |

## Carbide Rotary Files - Taper Shape (60° Included Angle)

Submicron Grain Carbide

D - Double Cut

\*\* - Solid Carbide/Double End



| EDP#  | TOOL #   | $d1$ †<br>Diameter |      |        | $d2$<br>Shank<br>Diameter | 1-11  | 12-24 | 25-49 | 50-100 |
|-------|----------|--------------------|------|--------|---------------------------|-------|-------|-------|--------|
|       |          | Decimal            |      | Metric |                           |       |       |       |        |
| 67010 | ** SJ-1  | .2500              | 1/4" | 6.35   | 1/4"                      | 11.56 | 11.07 | 10.56 | 10.06  |
| 67012 | ** SJ-1D | .2500              | 1/4" | 6.35   | 1/4"                      | 11.56 | 11.07 | 10.56 | 10.06  |
| 67020 | SJ-3     | .3750              | 3/8" | 9.52   | 1/4"                      | 9.71  | 9.29  | 8.87  | 8.44   |
| 67022 | SJ-3D    | .3750              | 3/8" | 9.52   | 1/4"                      | 9.71  | 9.29  | 8.87  | 8.44   |
| 67030 | SJ-5     | .5000              | 1/2" | 12.70  | 1/4"                      | 11.98 | 11.46 | 10.94 | 10.42  |
| 67032 | SJ-5D    | .5000              | 1/2" | 12.70  | 1/4"                      | 11.98 | 11.46 | 10.94 | 10.42  |
| 67040 | SJ-6     | .6250              | 5/8" | 15.87  | 1/4"                      | 15.96 | 15.27 | 14.58 | 13.88  |
| 67042 | SJ-6D    | .6250              | 5/8" | 15.87  | 1/4"                      | 15.96 | 15.27 | 14.58 | 13.88  |
| 67050 | SJ-7     | .7500              | 3/4" | 19.05  | 1/4"                      | 20.95 | 20.03 | 19.13 | 18.21  |
| 67052 | SJ-7D    | .7500              | 3/4" | 19.05  | 1/4"                      | 20.95 | 20.03 | 19.13 | 18.21  |
| 67060 | SJ-8     | .8750              | 7/8" | 22.22  | 1/4"                      | 31.70 | 30.32 | 28.94 | 27.56  |
| 67062 | SJ-8D    | .8750              | 7/8" | 22.22  | 1/4"                      | 31.70 | 30.32 | 28.94 | 27.56  |
| 67070 | SJ-9     | 1.000              | 1"   | 25.40  | 1/4"                      | 33.59 | 32.14 | 30.67 | 29.21  |
| 67072 | SJ-9D    | 1.000              | 1"   | 25.40  | 1/4"                      | 33.59 | 32.14 | 30.67 | 29.21  |

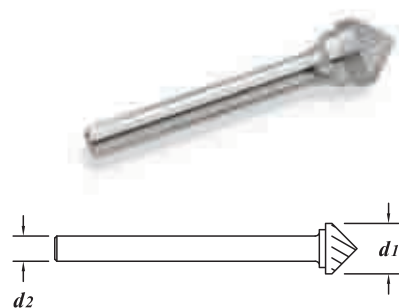
# SK (1/4" Steel Shank)

## Carbide Rotary Files - Taper Shape (90° Included Angle)

Submicron Grain Carbide

D - Double Cut

\*\* - Solid Carbide/Double End



| EDP#  | TOOL #   | $d_1$ † |                    | $d_2$<br>Shank<br>Diameter | 1-11 | 12-24 | 25-49 | 50-100 |
|-------|----------|---------|--------------------|----------------------------|------|-------|-------|--------|
|       |          | Decimal | Diameter<br>Metric |                            |      |       |       |        |
| 68010 | ** SK-1  | .2500   | 1/4"               | 6.35                       | 1/4" | 11.56 | 11.07 | 10.56  |
| 68012 | ** SK-1D | .2500   | 1/4"               | 6.35                       | 1/4" | 11.56 | 11.07 | 10.56  |
| 68020 | SK-3     | .3750   | 3/8"               | 9.52                       | 1/4" | 9.71  | 9.29  | 8.87   |
| 68022 | SK-3D    | .3750   | 3/8"               | 9.52                       | 1/4" | 9.71  | 9.29  | 8.87   |
| 68030 | SK-5     | .5000   | 1/2"               | 12.70                      | 1/4" | 11.98 | 11.46 | 10.94  |
| 68032 | SK-5D    | .5000   | 1/2"               | 12.70                      | 1/4" | 11.98 | 11.46 | 10.94  |
| 68040 | SK-6     | .6250   | 5/8"               | 15.87                      | 1/4" | 15.96 | 15.27 | 14.58  |
| 68042 | SK-6D    | .6250   | 5/8"               | 15.87                      | 1/4" | 15.96 | 15.27 | 14.58  |
| 68050 | SK-7     | .7500   | 3/4"               | 19.05                      | 1/4" | 20.95 | 20.03 | 19.13  |
| 68052 | SK-7D    | .7500   | 3/4"               | 19.05                      | 1/4" | 20.95 | 20.03 | 19.13  |
| 68060 | SK-8     | .8750   | 7/8"               | 22.22                      | 1/4" | 31.70 | 30.32 | 28.94  |
| 68062 | SK-8D    | .8750   | 7/8"               | 22.22                      | 1/4" | 31.70 | 30.32 | 28.94  |
| 68070 | SK-9     | 1.000   | 1"                 | 25.40                      | 1/4" | 33.59 | 32.14 | 30.67  |
| 68072 | SK-9D    | 1.000   | 1"                 | 25.40                      | 1/4" | 33.59 | 32.14 | 30.67  |

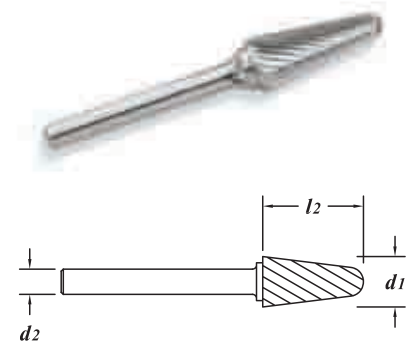
**Carbide Rotary Files - Cone-Radius Shape** ( $14^\circ$  included angle)

Submicron Grain Carbide

A - Aluminum Cut

D - Double Cut

\* - Solid Carbide



| EDP#  | TOOL #  | $d1$ †  |          |        | $d2$<br>Shank<br>Diameter | $l2$<br>Flute<br>Length | 1-11  | 12-24 | 25-49 | 50-100 |
|-------|---------|---------|----------|--------|---------------------------|-------------------------|-------|-------|-------|--------|
|       |         | Decimal | Diameter | Metric |                           |                         |       |       |       |        |
| 69010 | * SL-1  | .2500   | 1/4"     | 6.35   | 1/4"                      | 5/8"                    | 9.19  | 8.80  | 8.39  | 8.00   |
| 69012 | * SL-1D | .2500   | 1/4"     | 6.35   | 1/4"                      | 5/8"                    | 9.19  | 8.80  | 8.39  | 8.00   |
| 69020 | SL-2    | .3125   | 5/16"    | 7.94   | 1/4"                      | 7/8"                    | 10.99 | 10.51 | 10.04 | 9.56   |
| 69022 | SL-2D   | .3125   | 5/16"    | 7.94   | 1/4"                      | 7/8"                    | 10.99 | 10.51 | 10.04 | 9.56   |
| 69030 | SL-3    | .3750   | 3/8"     | 9.52   | 1/4"                      | 1-1/16"                 | 13.02 | 12.46 | 11.89 | 11.33  |
| 69031 | SL-3A   | .3750   | 3/8"     | 9.52   | 1/4"                      | 1-1/16"                 | 21.70 | 20.76 | 19.82 | 18.88  |
| 69032 | SL-3D   | .3750   | 3/8"     | 9.52   | 1/4"                      | 1-1/16"                 | 13.02 | 12.46 | 11.89 | 11.33  |
| 69040 | SL-4    | .5000   | 1/2"     | 12.70  | 1/4"                      | 1-1/8"                  | 15.84 | 15.15 | 14.47 | 13.77  |
| 69041 | SL-4A   | .5000   | 1/2"     | 12.70  | 1/4"                      | 1-1/8"                  | 26.89 | 25.73 | 24.55 | 23.39  |
| 69042 | SL-4D   | .5000   | 1/2"     | 12.70  | 1/4"                      | 1-1/8"                  | 15.84 | 15.15 | 14.47 | 13.77  |
| 69050 | SL-5    | .6250   | 5/8"     | 15.87  | 1/4"                      | 1-3/16"                 | 31.17 | 29.82 | 28.45 | 27.10  |
| 69051 | SL-5A   | .6250   | 5/8"     | 15.87  | 1/4"                      | 1-3/16"                 | 42.44 | 40.60 | 38.75 | 36.91  |
| 69052 | SL-5D   | .6250   | 5/8"     | 15.87  | 1/4"                      | 1-3/16"                 | 31.17 | 29.82 | 28.45 | 27.10  |
| 69060 | SL-7    | .7500   | 3/4"     | 19.05  | 1/4"                      | 1-1/2"                  | 41.13 | 39.34 | 37.55 | 35.77  |
| 69062 | SL-7D   | .7500   | 3/4"     | 19.05  | 1/4"                      | 1-1/2"                  | 41.13 | 39.34 | 37.55 | 35.77  |

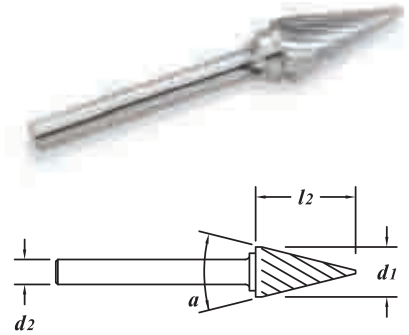
# SM (1/4" Steel Shank)

## Carbide Rotary Files - Cone Flat Shape (*no radius*)

Submicron Grain Carbide

D - Double Cut

\* - Solid Carbide



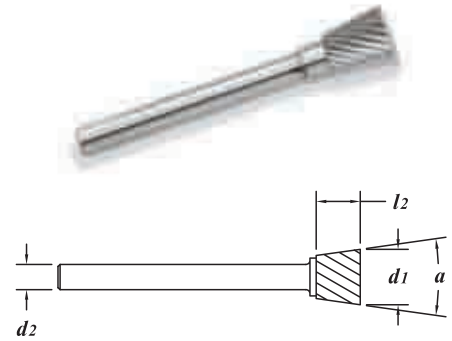
| EDP#  | TOOL #  | $d1$ †  |          |        | $d2$<br>Shank<br>Diameter | $a$<br>Included<br>Angle | $l2$<br>Flute<br>Length | 1-11  | 12-24 | 25-49 | 50-100 |
|-------|---------|---------|----------|--------|---------------------------|--------------------------|-------------------------|-------|-------|-------|--------|
|       |         | Decimal | Diameter | Metric |                           |                          |                         |       |       |       |        |
| 70010 | * SM-1  | .2500   | 1/4"     | 6.35   | 1/4"                      | 22°                      | 1/2"                    | 9.19  | 8.80  | 8.39  | 8.00   |
| 70012 | * SM-1D | .2500   | 1/4"     | 6.35   | 1/4"                      | 22°                      | 1/2"                    | 9.19  | 8.80  | 8.39  | 8.00   |
| 70020 | SM-4    | .3750   | 3/8"     | 9.52   | 1/4"                      | 28°                      | 5/8"                    | 13.02 | 12.46 | 11.89 | 11.33  |
| 70022 | SM-4D   | .3750   | 3/8"     | 9.52   | 1/4"                      | 28°                      | 5/8"                    | 13.02 | 12.46 | 11.89 | 11.33  |
| 70030 | SM-5    | .5000   | 1/2"     | 12.70  | 1/4"                      | 28°                      | 7/8"                    | 16.35 | 15.64 | 14.92 | 14.22  |
| 70032 | SM-5D   | .5000   | 1/2"     | 12.70  | 1/4"                      | 28°                      | 7/8"                    | 16.35 | 15.64 | 14.92 | 14.22  |
| 70040 | SM-6    | .6250   | 5/8"     | 15.87  | 1/4"                      | 31°                      | 1"                      | 21.72 | 20.77 | 19.82 | 18.89  |
| 70042 | SM-6D   | .6250   | 5/8"     | 15.87  | 1/4"                      | 31°                      | 1"                      | 21.72 | 20.77 | 19.82 | 18.89  |

## Carbide Rotary Files - Inverted Cone Shape

Submicron Grain Carbide

D - Double Cut

\* - Solid Carbide



| EDP#  | TOOL #  | $d1$ †  |          |        | $d2$<br>Shank<br>Diameter | $a$<br>Included<br>Angle | $l2$<br>Flute<br>Length | 1-11  | 12-24 | 25-49 | 50-100 |
|-------|---------|---------|----------|--------|---------------------------|--------------------------|-------------------------|-------|-------|-------|--------|
|       |         | Decimal | Diameter | Metric |                           |                          |                         |       |       |       |        |
| 71010 | * SN-1  | .2500   | 1/4"     | 6.35   | 1/4"                      | 10°                      | 5/16"                   | 9.19  | 8.80  | 8.39  | 8.00   |
| 71012 | * SN-1D | .2500   | 1/4"     | 6.35   | 1/4"                      | 10°                      | 5/16"                   | 9.19  | 8.80  | 8.39  | 8.00   |
| 71020 | SN-2    | .3750   | 3/8"     | 9.52   | 1/4"                      | 13°                      | 3/8"                    | 11.49 | 10.99 | 10.49 | 9.99   |
| 71022 | SN-2D   | .3750   | 3/8"     | 9.52   | 1/4"                      | 13°                      | 3/8"                    | 11.49 | 10.99 | 10.49 | 9.99   |
| 71030 | SN-3    | .5000   | 1/2"     | 12.70  | 1/4"                      | 16°                      | 1/2"                    | 15.84 | 15.15 | 14.47 | 13.77  |
| 71032 | SN-3D   | .5000   | 1/2"     | 12.70  | 1/4"                      | 16°                      | 1/2"                    | 15.84 | 15.15 | 14.47 | 13.77  |
| 71040 | SN-5    | .6250   | 5/8"     | 15.87  | 1/4"                      | 19°                      | 5/8"                    | 21.72 | 20.77 | 19.82 | 18.89  |
| 71042 | SN-5D   | .6250   | 5/8"     | 15.87  | 1/4"                      | 19°                      | 5/8"                    | 21.72 | 20.77 | 19.82 | 18.89  |

# 3/16" Diameter (3/16" Shank)

## Solid Carbide Rotary Files

Submicron Grain Carbide  
D - Double Cut



| EDP#  | TOOL # | $d_1$ † |          |        | $l_1$<br>Overall<br>Length | $a$<br>Included<br>Angle | $l_2$<br>Flute<br>Length | 1-11  | 12-24 | 25-49 | 50-100 |
|-------|--------|---------|----------|--------|----------------------------|--------------------------|--------------------------|-------|-------|-------|--------|
|       |        | Decimal | Diameter | Metric |                            |                          |                          |       |       |       |        |
| 72010 | SA-81  | .1875   | 3/16"    | 4.76   | 2"                         | -                        | 5/8"                     | 10.07 | 9.63  | 9.19  | 8.76   |
| 72012 | SA-81D | .1875   | 3/16"    | 4.76   | 2"                         | -                        | 5/8"                     | 10.07 | 9.63  | 9.19  | 8.76   |
| 72020 | SC-81  | .1875   | 3/16"    | 4.76   | 2"                         | -                        | 5/8"                     | 10.07 | 9.63  | 9.19  | 8.76   |
| 72022 | SC-81D | .1875   | 3/16"    | 4.76   | 2"                         | -                        | 5/8"                     | 10.07 | 9.63  | 9.19  | 8.76   |
| 72030 | SD-81  | .1875   | 3/16"    | 4.76   | 2"                         | -                        | -                        | 10.07 | 9.63  | 9.19  | 8.76   |
| 72032 | SD-81D | .1875   | 3/16"    | 4.76   | 2"                         | -                        | -                        | 10.07 | 9.63  | 9.19  | 8.76   |
| 72040 | SE-81  | .1875   | 3/16"    | 4.76   | 2"                         | -                        | 9/32"                    | 10.07 | 9.63  | 9.19  | 8.76   |
| 72042 | SE-81D | .1875   | 3/16"    | 4.76   | 2"                         | -                        | 9/32"                    | 10.07 | 9.63  | 9.19  | 8.76   |
| 72050 | SF-81  | .1875   | 3/16"    | 4.76   | 2"                         | -                        | 1/2"                     | 10.07 | 9.63  | 9.19  | 8.76   |
| 72052 | SF-81D | .1875   | 3/16"    | 4.76   | 2"                         | -                        | 1/2"                     | 10.07 | 9.63  | 9.19  | 8.76   |
| 72060 | SG-81  | .1875   | 3/16"    | 4.76   | 2"                         | -                        | 1/2"                     | 10.07 | 9.63  | 9.19  | 8.76   |
| 72062 | SG-81D | .1875   | 3/16"    | 4.76   | 2"                         | -                        | 1/2"                     | 10.07 | 9.63  | 9.19  | 8.76   |
| 72070 | SJ-81  | .1875   | 3/16"    | 4.76   | 2"                         | 60°                      | -                        | 10.07 | 9.63  | 9.19  | 8.76   |
| 72072 | SJ-81D | .1875   | 3/16"    | 4.76   | 2"                         | 60°                      | -                        | 10.07 | 9.63  | 9.19  | 8.76   |
| 72080 | SK-81  | .1875   | 3/16"    | 4.76   | 2"                         | 90°                      | -                        | 10.07 | 9.63  | 9.19  | 8.76   |
| 72082 | SK-81D | .1875   | 3/16"    | 4.76   | 2"                         | 90°                      | -                        | 10.07 | 9.63  | 9.19  | 8.76   |
| 72090 | SL-81  | .1875   | 3/16"    | 4.76   | 2"                         | 14°                      | 1/2"                     | 10.07 | 9.63  | 9.19  | 8.76   |
| 72092 | SL-81D | .1875   | 3/16"    | 4.76   | 2"                         | 14°                      | 1/2"                     | 10.07 | 9.63  | 9.19  | 8.76   |
| 72100 | SM-81  | .1875   | 3/16"    | 4.76   | 2"                         | 12°                      | 5/8"                     | 10.07 | 9.63  | 9.19  | 8.76   |
| 72102 | SM-81D | .1875   | 3/16"    | 4.76   | 2"                         | 12°                      | 5/8"                     | 10.07 | 9.63  | 9.19  | 8.76   |
| 72110 | SN-81  | .1875   | 3/16"    | 4.76   | 2"                         | 10°                      | 1/4"                     | 10.07 | 9.63  | 9.19  | 8.76   |
| 72112 | SN-81D | .1875   | 3/16"    | 4.76   | 2"                         | 10°                      | 1/4"                     | 10.07 | 9.63  | 9.19  | 8.76   |

## Carbide Rotary Files

Submicron Grain Carbide  
D - Double Cut

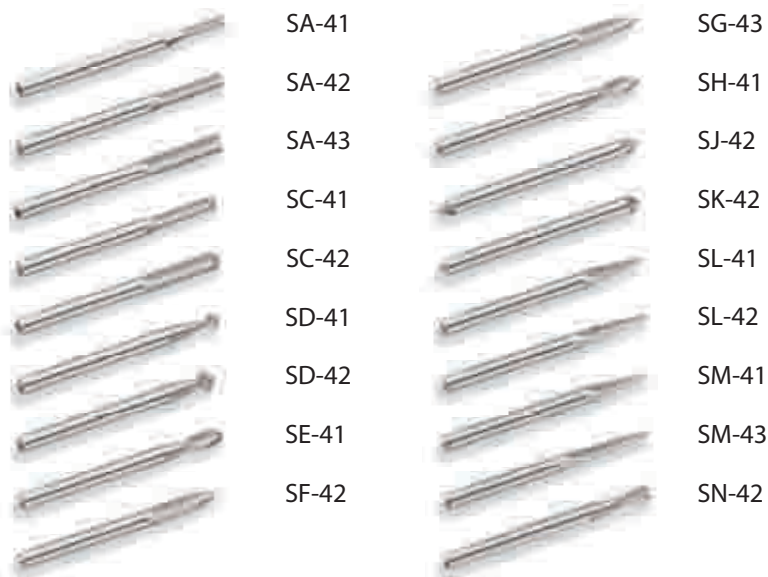


| EDP#  | TOOL # | $d_1$ †<br>Diameter |      |        | $a$<br>Included<br>Angle | $l_2$<br>Flute<br>Length | 1-11 | 12-24 | 25-49 | 50-100 |
|-------|--------|---------------------|------|--------|--------------------------|--------------------------|------|-------|-------|--------|
|       |        | Decimal             |      | Metric |                          |                          |      |       |       |        |
| 73010 | SA-51  | .2500               | 1/4" | 6.35   | -                        | 1/2"                     | 9.62 | 9.20  | 8.79  | 8.36   |
| 73012 | SA-51D | .2500               | 1/4" | 6.35   | -                        | 1/2"                     | 9.62 | 9.20  | 8.79  | 8.36   |
| 73020 | SB-51  | .2500               | 1/4" | 6.35   | -                        | 3/16"                    | 9.62 | 9.20  | 8.79  | 8.36   |
| 73022 | SB-51D | .2500               | 1/4" | 6.35   | -                        | 3/16"                    | 9.62 | 9.20  | 8.79  | 8.36   |
| 73030 | SC-51  | .2500               | 1/4" | 6.35   | -                        | 1/2"                     | 9.62 | 9.20  | 8.79  | 8.36   |
| 73032 | SC-51D | .2500               | 1/4" | 6.35   | -                        | 1/2"                     | 9.62 | 9.20  | 8.79  | 8.36   |
| 73040 | SD-51  | .2500               | 1/4" | 6.35   | -                        | -                        | 9.62 | 9.20  | 8.79  | 8.36   |
| 73042 | SD-51D | .2500               | 1/4" | 6.35   | -                        | -                        | 9.62 | 9.20  | 8.79  | 8.36   |
| 73050 | SE-51  | .2500               | 1/4" | 6.35   | -                        | 3/8"                     | 9.62 | 9.20  | 8.79  | 8.36   |
| 73052 | SE-51D | .2500               | 1/4" | 6.35   | -                        | 3/8"                     | 9.62 | 9.20  | 8.79  | 8.36   |
| 73060 | SF-51  | .2500               | 1/4" | 6.35   | -                        | 1/2"                     | 9.62 | 9.20  | 8.79  | 8.36   |
| 73062 | SF-51D | .2500               | 1/4" | 6.35   | -                        | 1/2"                     | 9.62 | 9.20  | 8.79  | 8.36   |
| 73070 | SG-51  | .2500               | 1/4" | 6.35   | -                        | 1/2"                     | 9.62 | 9.20  | 8.79  | 8.36   |
| 73072 | SG-51D | .2500               | 1/4" | 6.35   | -                        | 1/2"                     | 9.62 | 9.20  | 8.79  | 8.36   |
| 73080 | SM-51  | .2500               | 1/4" | 6.35   | 22°                      | 1/2"                     | 9.62 | 9.20  | 8.79  | 8.36   |
| 73082 | SM-51D | .2500               | 1/4" | 6.35   | 22°                      | 1/2"                     | 9.62 | 9.20  | 8.79  | 8.36   |
| 73090 | SN-51  | .2500               | 1/4" | 6.35   | 10°                      | 1/4"                     | 9.62 | 9.20  | 8.79  | 8.36   |
| 73092 | SN-51D | .2500               | 1/4" | 6.35   | 10°                      | 1/4"                     | 9.62 | 9.20  | 8.79  | 8.36   |

# 1/8" Diameter (1/8" Shank)

## Solid Carbide Rotary Files

Submicron Grain Carbide  
D - Double Cut



| EDP#  | TOOL # | $d_1$ † |          |        | $l_1$<br>Overall<br>Length | $\alpha$<br>Included<br>Angle | $l_2$<br>Flute<br>Length | 1-11 | 12-24 | 25-49 | 50-100 |
|-------|--------|---------|----------|--------|----------------------------|-------------------------------|--------------------------|------|-------|-------|--------|
|       |        | Decimal | Diameter | Metric |                            |                               |                          |      |       |       |        |
| 74010 | SA-41  | .0625   | 1/16"    | 1.59   | 1-1/2"                     | -                             | 1/4"                     | 5.69 | 5.44  | 5.19  | 4.95   |
| 74012 | SA-41D | .0625   | 1/16"    | 1.59   | 1-1/2"                     | -                             | 1/4"                     | 5.69 | 5.44  | 5.19  | 4.95   |
| 74020 | SA-42  | .0938   | 3/32"    | 2.38   | 1-1/2"                     | -                             | 7/16"                    | 5.69 | 5.44  | 5.19  | 4.95   |
| 74022 | SA-42D | .0938   | 3/32"    | 2.38   | 1-1/2"                     | -                             | 7/16"                    | 5.69 | 5.44  | 5.19  | 4.95   |
| 74030 | SA-43  | .1250   | 1/8"     | 3.17   | 1-1/2"                     | -                             | 9/16"                    | 5.69 | 5.44  | 5.19  | 4.95   |
| 74032 | SA-43D | .1250   | 1/8"     | 3.17   | 1-1/2"                     | -                             | 9/16"                    | 5.69 | 5.44  | 5.19  | 4.95   |
| 74040 | SC-41  | .0938   | 3/32"    | 2.38   | 1-1/2"                     | -                             | 7/16"                    | 5.69 | 5.44  | 5.19  | 4.95   |
| 74042 | SC-41D | .0938   | 3/32"    | 2.38   | 1-1/2"                     | -                             | 7/16"                    | 5.69 | 5.44  | 5.19  | 4.95   |
| 74050 | SC-42  | .1250   | 1/8"     | 3.17   | 1-1/2"                     | -                             | 9/16"                    | 5.69 | 5.44  | 5.19  | 4.95   |
| 74052 | SC-42D | .1250   | 1/8"     | 3.17   | 1-1/2"                     | -                             | 9/16"                    | 5.69 | 5.44  | 5.19  | 4.95   |
| 74060 | SD-41  | .0938   | 3/32"    | 2.38   | 1-1/2"                     | -                             | -                        | 5.69 | 5.44  | 5.19  | 4.95   |
| 74062 | SD-41D | .0938   | 3/32"    | 2.38   | 1-1/2"                     | -                             | -                        | 5.69 | 5.44  | 5.19  | 4.95   |
| 74070 | SD-42  | .1250   | 1/8"     | 3.17   | 1-1/2"                     | -                             | -                        | 5.69 | 5.44  | 5.19  | 4.95   |
| 74072 | SD-42D | .1250   | 1/8"     | 3.17   | 1-1/2"                     | -                             | -                        | 5.69 | 5.44  | 5.19  | 4.95   |
| 74080 | SE-41  | .1250   | 1/8"     | 3.17   | 1-1/2"                     | -                             | 7/32"                    | 5.69 | 5.44  | 5.19  | 4.95   |
| 74082 | SE-41D | .1250   | 1/8"     | 3.17   | 1-1/2"                     | -                             | 7/32"                    | 5.69 | 5.44  | 5.19  | 4.95   |
| 74090 | SF-42  | .1250   | 1/8"     | 3.17   | 1-1/2"                     | -                             | 1/2"                     | 5.69 | 5.44  | 5.19  | 4.95   |
| 74092 | SF-42D | .1250   | 1/8"     | 3.17   | 1-1/2"                     | -                             | 1/2"                     | 5.69 | 5.44  | 5.19  | 4.95   |
| 74100 | SG-43  | .1250   | 1/8"     | 3.17   | 1-1/2"                     | -                             | 3/8"                     | 5.69 | 5.44  | 5.19  | 4.95   |
| 74102 | SG-43D | .1250   | 1/8"     | 3.17   | 1-1/2"                     | -                             | 3/8"                     | 5.69 | 5.44  | 5.19  | 4.95   |
| 74110 | SH-41  | .1250   | 1/8"     | 3.17   | 1-1/2"                     | -                             | 1/4"                     | 5.69 | 5.44  | 5.19  | 4.95   |
| 74112 | SH-41D | .1250   | 1/8"     | 3.17   | 1-1/2"                     | -                             | 1/4"                     | 5.69 | 5.44  | 5.19  | 4.95   |
| 74120 | SJ-42  | .1250   | 1/8"     | 3.17   | 1-1/2"                     | 60°                           | -                        | 5.69 | 5.44  | 5.19  | 4.95   |
| 74122 | SJ-42D | .1250   | 1/8"     | 3.17   | 1-1/2"                     | 60°                           | -                        | 5.69 | 5.44  | 5.19  | 4.95   |
| 74130 | SK-42  | .1250   | 1/8"     | 3.17   | 1-1/2"                     | 90°                           | -                        | 5.69 | 5.44  | 5.19  | 4.95   |
| 74132 | SK-42D | .1250   | 1/8"     | 3.17   | 1-1/2"                     | 90°                           | -                        | 5.69 | 5.44  | 5.19  | 4.95   |
| 74140 | SL-41  | .1250   | 1/8"     | 3.17   | 1-1/2"                     | 8°                            | 3/8"                     | 5.69 | 5.44  | 5.19  | 4.95   |
| 74142 | SL-41D | .1250   | 1/8"     | 3.17   | 1-1/2"                     | 8°                            | 3/8"                     | 5.69 | 5.44  | 5.19  | 4.95   |
| 74150 | SL-42  | .1250   | 1/8"     | 3.17   | 1-1/2"                     | 8°                            | 1/2"                     | 5.69 | 5.44  | 5.19  | 4.95   |
| 74152 | SL-42D | .1250   | 1/8"     | 3.17   | 1-1/2"                     | 8°                            | 1/2"                     | 5.69 | 5.44  | 5.19  | 4.95   |
| 74160 | SM-41  | .1250   | 1/8"     | 3.17   | 1-1/2"                     | 12°                           | 3/8"                     | 5.69 | 5.44  | 5.19  | 4.95   |
| 74162 | SM-41D | .1250   | 1/8"     | 3.17   | 1-1/2"                     | 12°                           | 3/8"                     | 5.69 | 5.44  | 5.19  | 4.95   |
| 74170 | SM-43  | .1250   | 1/8"     | 3.17   | 1-1/2"                     | 7°                            | 5/8"                     | 5.69 | 5.44  | 5.19  | 4.95   |
| 74172 | SM-43D | .1250   | 1/8"     | 3.17   | 1-1/2"                     | 7°                            | 5/8"                     | 5.69 | 5.44  | 5.19  | 4.95   |
| 74180 | SN-42  | .1250   | 1/8"     | 3.17   | 1-1/2"                     | 10°                           | 3/16"                    | 5.69 | 5.44  | 5.19  | 4.95   |
| 74182 | SN-42D | .1250   | 1/8"     | 3.17   | 1-1/2"                     | 10°                           | 3/16"                    | 5.69 | 5.44  | 5.19  | 4.95   |



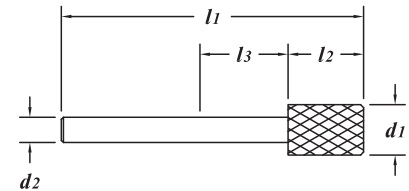
## Solid Carbide Grinding Burrs

Submicron Grain Carbide

Standard 45° lead chamfer

Head diameter tolerance  $+0.002'' -0.002''$  ( $+0.051\text{mm} -0.051\text{mm}$ )

\* - Carbide shank brazed to carbide head



| EDP#  | $d_1$ †<br>Diameter |         | $d_2$<br>Shank<br>Diameter | $l_1$<br>Overall<br>Length | $l_2$<br>Flute<br>Length | $l_3$<br>Neck<br>Length | 1-11  | 12-24 | 25-49 | 50-100 |
|-------|---------------------|---------|----------------------------|----------------------------|--------------------------|-------------------------|-------|-------|-------|--------|
|       | Decimal             | Metric  |                            |                            |                          |                         |       |       |       |        |
| 76010 | .0480               | 1.22    | 1/8"                       | 1-1/2"                     | 1/8"                     | 1/2"                    | 13.57 | 12.98 | 12.40 | 11.80  |
| 75010 | .0625               | 1/16"   | 1/8"                       | 1-1/2"                     | 1/8"                     | 3/8"                    | 13.57 | 12.98 | 12.40 | 11.80  |
| 76020 | .0790               | 2.01    | 1/8"                       | 1-1/2"                     | 1/8"                     | 1/2"                    | 13.57 | 12.98 | 12.40 | 11.80  |
| 75020 | .0938               | 3/32"   | 1/8"                       | 1-1/2"                     | 5/32"                    | 3/8"                    | 13.57 | 12.98 | 12.40 | 11.80  |
| 76030 | .1100               | 2.79    | 1/8"                       | 1-1/2"                     | 5/32"                    | 5/8"                    | 13.57 | 12.98 | 12.40 | 11.80  |
| 75030 | .1250               | 1/8"    | 1/8"                       | 1-1/2"                     | 3/16"                    | 5/8"                    | 12.90 | 12.33 | 11.77 | 11.21  |
| 76040 | .1410               | 3.58    | 3/16"                      | 2"                         | 3/16"                    | 3/4"                    | 19.10 | 18.27 | 17.44 | 16.61  |
| 75040 | .1562               | 5/32"   | 3/16"                      | 2"                         | 1/4"                     | 3/4"                    | 19.10 | 18.27 | 17.44 | 16.61  |
| 76050 | .1720               | 4.37    | 3/16"                      | 2"                         | 7/32"                    | 3/4"                    | 19.10 | 18.27 | 17.44 | 16.61  |
| 75050 | .1875               | 3/16"   | 3/16"                      | 2"                         | 1/4"                     | 3/4"                    | 17.20 | 16.45 | 15.70 | 14.96  |
| 76060 | .2030               | 5.16    | 1/4"                       | 2"                         | 1/4"                     | 3/4"                    | 19.71 | 18.86 | 17.99 | 17.14  |
| 75060 | .2188               | 7/32"   | 1/4"                       | 2"                         | 1/4"                     | 3/4"                    | 19.71 | 18.86 | 17.99 | 17.14  |
| 76070 | .2350               | 5.97    | 1/4"                       | 2"                         | 5/16"                    | 3/4"                    | 19.71 | 18.86 | 17.99 | 17.14  |
| 75070 | .2500               | 1/4"    | 1/4"                       | 2"                         | 5/16"                    | 3/4"                    | 17.89 | 17.11 | 16.33 | 15.56  |
| 76080 | * .3000             | 7.62    | 1/4"                       | 2-1/2"                     | 3/8"                     | -                       | 28.88 | 27.62 | 26.37 | 25.12  |
| 75080 | .3125               | * 5/16" | 1/4"                       | 2-1/2"                     | 3/8"                     | -                       | 28.88 | 27.62 | 26.37 | 25.12  |
| 76090 | * .3600             | 9.14    | 1/4"                       | 2-1/2"                     | 1/2"                     | -                       | 30.83 | 29.48 | 28.14 | 26.80  |
| 75090 | .3750               | * 3/8"  | 1/4"                       | 2-1/2"                     | 1/2"                     | -                       | 30.83 | 29.48 | 28.14 | 26.80  |
| 76100 | * .4230             | 10.74   | 1/4"                       | 2-1/2"                     | 1/2"                     | -                       | 33.55 | 32.09 | 30.63 | 29.17  |
| 75100 | .4375               | * 7/16" | 1/4"                       | 2-1/2"                     | 1/2"                     | -                       | 33.55 | 32.09 | 30.63 | 29.17  |
| 76110 | * .4850             | 12.32   | 1/4"                       | 2-1/2"                     | 1/2"                     | -                       | 34.54 | 33.04 | 31.53 | 30.04  |