

## Series 4100

.0590" - .0820"  
(1.499mm - 2.083mm)



TECH  
PAGES  
314-315

## TOLERANCES

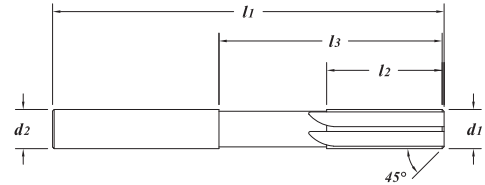
|       |                                    |                                      |
|-------|------------------------------------|--------------------------------------|
| $d_1$ | .0590" - .2509" (1.498 - 6.372mm)  | + .0002" - .0000" (+.0050 - .0000mm) |
|       | .2510" - .5020" (6.375 - 12.750mm) | + .0003" - .0000" (+.0075 - .0000mm) |
| $d_2$ | .0590" - .2509" (1.498 - 6.372mm)  | + .0002" - .0000" (+.0050 - .0000mm) |
|       | .2510" - .5020" (6.375 - 12.750mm) | + .0003" - .0000" (+.0075 - .0000mm) |

Solid Carbide Submicron Grain

Straight - RHC Flutes

Standard 45° Lead Chamfer

Neck diameter is .010" ±.002" less than ( $d_1$ ) fluted diameter



| 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>Reach<br>Length | Number<br>Flutes | 1-11  | 12-24 | 25-49 | 50-100 |
|-------|---------------------|--------|----------------------------|----------------------------|--------------------------|--------------------------|------------------|-------|-------|-------|--------|
|       | Decimal             | Metric |                            |                            |                          |                          |                  |       |       |       |        |
| 95066 | .0590               | 1.499  | .0590"                     | 1-1/2"                     | 3/8"                     | 5/8"                     | 4                | 14.81 | 14.17 | 13.52 | 12.88  |
| 95069 | .0591               | 1.500  | .0591"                     | 1-1/2"                     | 3/8"                     | 5/8"                     | 4                | 14.81 | 14.17 | 13.52 | 12.88  |
| 95072 | .0595 #53           | 1.511  | .0595"                     | 1-1/2"                     | 3/8"                     | 5/8"                     | 4                | 14.81 | 14.17 | 13.52 | 12.88  |
| 95075 | .0600               | 1.524  | .0600"                     | 1-1/2"                     | 3/8"                     | 5/8"                     | 4                | 14.81 | 14.17 | 13.52 | 12.88  |
| 95078 | .0605               | 1.537  | .0605"                     | 1-1/2"                     | 3/8"                     | 5/8"                     | 4                | 14.81 | 14.17 | 13.52 | 12.88  |
| 95081 | .0610               | 1.549  | .0610"                     | 1-1/2"                     | 3/8"                     | 5/8"                     | 4                | 14.81 | 14.17 | 13.52 | 12.88  |
| 95084 | .0615               | 1.562  | .0615"                     | 1-1/2"                     | 3/8"                     | 5/8"                     | 4                | 14.81 | 14.17 | 13.52 | 12.88  |
| 95087 | .0620               | 1.575  | .0620"                     | 1-1/2"                     | 3/8"                     | 5/8"                     | 4                | 14.81 | 14.17 | 13.52 | 12.88  |
| 95090 | .0625 1/16"         | 1.588  | .0625"                     | 1-1/2"                     | 3/8"                     | 5/8"                     | 4                | 14.81 | 14.17 | 13.52 | 12.88  |
| 95093 | .0630               | 1.600  | .0630"                     | 1-1/2"                     | 3/8"                     | 5/8"                     | 4                | 14.81 | 14.17 | 13.52 | 12.88  |
| 95096 | .0635 #52           | 1.613  | .0635"                     | 1-1/2"                     | 3/8"                     | 5/8"                     | 4                | 14.81 | 14.17 | 13.52 | 12.88  |
| 95099 | .0640               | 1.626  | .0640"                     | 1-1/2"                     | 3/8"                     | 5/8"                     | 4                | 14.81 | 14.17 | 13.52 | 12.88  |
| 95102 | .0645               | 1.638  | .0645"                     | 1-1/2"                     | 3/8"                     | 5/8"                     | 4                | 14.81 | 14.17 | 13.52 | 12.88  |
| 95105 | .0650               | 1.651  | .0650"                     | 1-1/2"                     | 3/8"                     | 5/8"                     | 4                | 14.81 | 14.17 | 13.52 | 12.88  |
| 95108 | .0660               | 1.676  | .0660"                     | 1-3/4"                     | 1/2"                     | 3/4"                     | 4                | 14.81 | 14.17 | 13.52 | 12.88  |
| 95111 | .0670 #51           | 1.702  | .0670"                     | 1-3/4"                     | 1/2"                     | 3/4"                     | 4                | 14.81 | 14.17 | 13.52 | 12.88  |
| 95114 | .0680               | 1.727  | .0680"                     | 1-3/4"                     | 1/2"                     | 7/8"                     | 4                | 14.81 | 14.17 | 13.52 | 12.88  |
| 95117 | .0690               | 1.753  | .0690"                     | 1-3/4"                     | 1/2"                     | 7/8"                     | 4                | 14.81 | 14.17 | 13.52 | 12.88  |
| 95120 | .0700 #50           | 1.778  | .0700"                     | 1-3/4"                     | 1/2"                     | 7/8"                     | 4                | 14.81 | 14.17 | 13.52 | 12.88  |
| 95123 | .0710               | 1.803  | .0710"                     | 1-3/4"                     | 1/2"                     | 7/8"                     | 4                | 14.81 | 14.17 | 13.52 | 12.88  |
| 95126 | .0720               | 1.829  | .0720"                     | 1-3/4"                     | 1/2"                     | 7/8"                     | 4                | 14.81 | 14.17 | 13.52 | 12.88  |
| 95129 | .0730 #49           | 1.854  | .0730"                     | 1-3/4"                     | 1/2"                     | 7/8"                     | 4                | 14.81 | 14.17 | 13.52 | 12.88  |
| 95132 | .0740               | 1.880  | .0740"                     | 1-3/4"                     | 1/2"                     | 7/8"                     | 4                | 14.81 | 14.17 | 13.52 | 12.88  |
| 95135 | .0750               | 1.905  | .0750"                     | 1-3/4"                     | 1/2"                     | 7/8"                     | 4                | 14.81 | 14.17 | 13.52 | 12.88  |
| 95138 | .0760 #48           | 1.930  | .0760"                     | 1-3/4"                     | 1/2"                     | 7/8"                     | 4                | 14.81 | 14.17 | 13.52 | 12.88  |
| 95141 | .0770               | 1.956  | .0770"                     | 1-3/4"                     | 1/2"                     | 7/8"                     | 4                | 14.81 | 14.17 | 13.52 | 12.88  |
| 95144 | .0780               | 1.981  | .0780"                     | 1-3/4"                     | 1/2"                     | 7/8"                     | 4                | 14.81 | 14.17 | 13.52 | 12.88  |
| 95147 | .0781 5/64"         | 1.984  | .0781"                     | 1-3/4"                     | 1/2"                     | 7/8"                     | 4                | 14.81 | 14.17 | 13.52 | 12.88  |
| 95150 | .0785 #47           | 1.994  | .0785"                     | 1-3/4"                     | 1/2"                     | 7/8"                     | 4                | 14.81 | 14.17 | 13.52 | 12.88  |
| 95153 | .0787               | 2.000  | .0787"                     | 1-3/4"                     | 1/2"                     | 7/8"                     | 4                | 14.81 | 14.17 | 13.52 | 12.88  |
| 95156 | .0790               | 2.007  | .0790"                     | 1-3/4"                     | 1/2"                     | 7/8"                     | 4                | 14.81 | 14.17 | 13.52 | 12.88  |
| 95159 | .0800               | 2.032  | .0800"                     | 1-3/4"                     | 1/2"                     | 7/8"                     | 4                | 14.81 | 14.17 | 13.52 | 12.88  |
| 95162 | .0810 #46           | 2.057  | .0810"                     | 2"                         | 1/2"                     | 7/8"                     | 4                | 14.81 | 14.17 | 13.52 | 12.88  |
| 95165 | .0820 #45           | 2.083  | .0820"                     | 2"                         | 1/2"                     | 7/8"                     | 4                | 14.81 | 14.17 | 13.52 | 12.88  |

| 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>Reach<br>Length | Number<br>Flutes | 1-11  | 12-24 | 25-49 | 50-100 |
|-------|---------------------|--------|----------------------------|----------------------------|--------------------------|--------------------------|------------------|-------|-------|-------|--------|
|       | Decimal             | Metric |                            |                            |                          |                          |                  |       |       |       |        |
| 95168 | .0830               | 2.108  | .0830"                     | 2"                         | 1/2"                     | 7/8"                     | 4                | 14.81 | 14.17 | 13.52 | 12.88  |
| 95171 | .0840               | 2.134  | .0840"                     | 2"                         | 1/2"                     | 7/8"                     | 4                | 14.81 | 14.17 | 13.52 | 12.88  |
| 95174 | .0850               | 2.159  | .0850"                     | 2"                         | 1/2"                     | 7/8"                     | 4                | 14.81 | 14.17 | 13.52 | 12.88  |
| 95177 | .0860 #44           | 2.184  | .0860"                     | 2"                         | 1/2"                     | 7/8"                     | 4                | 14.81 | 14.17 | 13.52 | 12.88  |
| 95180 | .0870               | 2.210  | .0870"                     | 2"                         | 1/2"                     | 7/8"                     | 4                | 14.81 | 14.17 | 13.52 | 12.88  |
| 95183 | .0880               | 2.235  | .0880"                     | 2"                         | 1/2"                     | 7/8"                     | 4                | 14.81 | 14.17 | 13.52 | 12.88  |
| 95186 | .0890 #43           | 2.261  | .0890"                     | 2"                         | 1/2"                     | 7/8"                     | 4                | 14.81 | 14.17 | 13.52 | 12.88  |
| 95189 | .0900               | 2.286  | .0900"                     | 2"                         | 1/2"                     | 7/8"                     | 4                | 14.81 | 14.17 | 13.52 | 12.88  |
| 95192 | .0910               | 2.311  | .0910"                     | 2"                         | 1/2"                     | 7/8"                     | 4                | 14.81 | 14.17 | 13.52 | 12.88  |
| 95195 | .0915               | 2.324  | .0915"                     | 2"                         | 1/2"                     | 7/8"                     | 4                | 14.81 | 14.17 | 13.52 | 12.88  |
| 95198 | .0920               | 2.337  | .0920"                     | 2"                         | 1/2"                     | 7/8"                     | 4                | 14.81 | 14.17 | 13.52 | 12.88  |
| 95201 | .0925               | 2.350  | .0925"                     | 2"                         | 1/2"                     | 7/8"                     | 4                | 14.81 | 14.17 | 13.52 | 12.88  |
| 95204 | .0930               | 2.362  | .0930"                     | 2"                         | 1/2"                     | 7/8"                     | 4                | 14.81 | 14.17 | 13.52 | 12.88  |
| 95207 | .0935 #42           | 2.375  | .0935"                     | 2"                         | 1/2"                     | 7/8"                     | 4                | 14.81 | 14.17 | 13.52 | 12.88  |
| 95210 | .0938 3/32"         | 2.383  | .0938"                     | 2"                         | 1/2"                     | 7/8"                     | 4                | 14.81 | 14.17 | 13.52 | 12.88  |
| 95213 | .0940               | 2.388  | .0940"                     | 2"                         | 1/2"                     | 7/8"                     | 4                | 14.81 | 14.17 | 13.52 | 12.88  |
| 95216 | .0945               | 2.400  | .0945"                     | 2"                         | 1/2"                     | 7/8"                     | 4                | 14.81 | 14.17 | 13.52 | 12.88  |
| 95219 | .0950               | 2.413  | .0950"                     | 2"                         | 1/2"                     | 7/8"                     | 4                | 14.81 | 14.17 | 13.52 | 12.88  |
| 95222 | .0960 #41           | 2.438  | .0960"                     | 2-1/4"                     | 5/8"                     | 1"                       | 4                | 16.65 | 15.93 | 15.20 | 14.48  |
| 95225 | .0970               | 2.464  | .0970"                     | 2-1/4"                     | 5/8"                     | 1"                       | 4                | 16.65 | 15.93 | 15.20 | 14.48  |
| 95228 | .0980 #40           | 2.489  | .0980"                     | 2-1/4"                     | 5/8"                     | 1"                       | 4                | 16.65 | 15.93 | 15.20 | 14.48  |
| 95231 | .0984               | 2.500  | .0984"                     | 2-1/4"                     | 5/8"                     | 1"                       | 4                | 16.65 | 15.93 | 15.20 | 14.48  |
| 95234 | .0990               | 2.515  | .0990"                     | 2-1/4"                     | 5/8"                     | 1-1/8"                   | 4                | 16.65 | 15.93 | 15.20 | 14.48  |
| 95237 | .0995 #39           | 2.527  | .0995"                     | 2-1/4"                     | 5/8"                     | 1-1/8"                   | 4                | 16.65 | 15.93 | 15.20 | 14.48  |
| 95240 | .1000               | 2.540  | .1000"                     | 2-1/4"                     | 5/8"                     | 1-1/8"                   | 4                | 16.65 | 15.93 | 15.20 | 14.48  |
| 95243 | .1010               | 2.565  | .1010"                     | 2-1/4"                     | 5/8"                     | 1-1/8"                   | 4                | 16.65 | 15.93 | 15.20 | 14.48  |
| 95246 | .1015 #38           | 2.578  | .1015"                     | 2-1/4"                     | 5/8"                     | 1-1/8"                   | 4                | 16.65 | 15.93 | 15.20 | 14.48  |
| 95249 | .1020               | 2.591  | .1020"                     | 2-1/4"                     | 5/8"                     | 1-1/8"                   | 4                | 16.65 | 15.93 | 15.20 | 14.48  |
| 95252 | .1030               | 2.616  | .1030"                     | 2-1/4"                     | 5/8"                     | 1-1/8"                   | 4                | 16.65 | 15.93 | 15.20 | 14.48  |
| 95255 | .1040 #37           | 2.642  | .1040"                     | 2-1/4"                     | 5/8"                     | 1-1/8"                   | 4                | 16.65 | 15.93 | 15.20 | 14.48  |
| 95258 | .1050               | 2.667  | .1050"                     | 2-1/4"                     | 5/8"                     | 1-1/8"                   | 4                | 16.65 | 15.93 | 15.20 | 14.48  |
| 95261 | .1060               | 2.692  | .1060"                     | 2-1/4"                     | 5/8"                     | 1-1/8"                   | 4                | 16.65 | 15.93 | 15.20 | 14.48  |
| 95264 | .1065 #36           | 2.705  | .1065"                     | 2-1/4"                     | 5/8"                     | 1-1/8"                   | 4                | 16.65 | 15.93 | 15.20 | 14.48  |
| 95267 | .1070               | 2.718  | .1070"                     | 2-1/4"                     | 5/8"                     | 1-1/8"                   | 4                | 16.65 | 15.93 | 15.20 | 14.48  |
| 95270 | .1080               | 2.743  | .1080"                     | 2-1/4"                     | 5/8"                     | 1-1/8"                   | 4                | 16.65 | 15.93 | 15.20 | 14.48  |
| 95273 | .1090               | 2.769  | .1090"                     | 2-1/4"                     | 5/8"                     | 1-1/8"                   | 4                | 16.65 | 15.93 | 15.20 | 14.48  |
| 95276 | .1094 7/64"         | 2.779  | .1094"                     | 2-1/4"                     | 5/8"                     | 1-1/8"                   | 4                | 16.65 | 15.93 | 15.20 | 14.48  |
| 95279 | .1100 #35           | 2.794  | .1100"                     | 2-1/4"                     | 5/8"                     | 1-1/8"                   | 4                | 16.78 | 16.05 | 15.32 | 14.59  |
| 95282 | .1110 #34           | 2.819  | .1110"                     | 2-1/4"                     | 5/8"                     | 1-1/8"                   | 4                | 16.78 | 16.05 | 15.32 | 14.59  |
| 95285 | .1120               | 2.845  | .1120"                     | 2-1/4"                     | 5/8"                     | 1-1/8"                   | 4                | 16.78 | 16.05 | 15.32 | 14.59  |
| 95288 | .1130 #33           | 2.870  | .1130"                     | 2-1/4"                     | 5/8"                     | 1-1/8"                   | 4                | 16.78 | 16.05 | 15.32 | 14.59  |
| 95291 | .1140               | 2.896  | .1140"                     | 2-1/4"                     | 5/8"                     | 1-1/8"                   | 4                | 16.78 | 16.05 | 15.32 | 14.59  |
| 95294 | .1150               | 2.921  | .1150"                     | 2-1/4"                     | 5/8"                     | 1-1/8"                   | 4                | 16.78 | 16.05 | 15.32 | 14.59  |
| 95297 | .1160 #32           | 2.946  | .1160"                     | 2-1/4"                     | 5/8"                     | 1-1/8"                   | 4                | 16.78 | 16.05 | 15.32 | 14.59  |
| 95300 | .1170               | 2.972  | .1170"                     | 2-1/4"                     | 5/8"                     | 1-1/8"                   | 4                | 16.78 | 16.05 | 15.32 | 14.59  |
| 95303 | .1180               | 2.997  | .1180"                     | 2-1/4"                     | 5/8"                     | 1-1/8"                   | 4                | 16.78 | 16.05 | 15.32 | 14.59  |
| 95306 | .1181               | 3.000  | .1181"                     | 2-1/4"                     | 5/8"                     | 1-1/8"                   | 4                | 16.78 | 16.05 | 15.32 | 14.59  |
| 95309 | .1190               | 3.023  | .1190"                     | 2-1/4"                     | 5/8"                     | 1-1/8"                   | 4                | 16.78 | 16.05 | 15.32 | 14.59  |

continued →

## Series 4100 (continued)

.1200" - .1550"  
(3.048mm - 3.937mm)

| EDP#  | $d1$ †<br>Diameter |       |        | $d2$<br>Shank<br>Diameter | $l1$<br>Overall<br>Length | $l2$<br>Flute<br>Length | $l3$<br>Reach<br>Length | Number<br>Flutes | 1-11  | 12-24 | 25-49 | 50-100 |
|-------|--------------------|-------|--------|---------------------------|---------------------------|-------------------------|-------------------------|------------------|-------|-------|-------|--------|
|       | Decimal            |       | Metric |                           |                           |                         |                         |                  |       |       |       |        |
| 95312 | .1200              | #31   | 3.048  | .1200"                    | 2-1/4"                    | 5/8"                    | 1-1/8"                  | 4                | 16.78 | 16.05 | 15.32 | 14.59  |
| 95315 | .1210              |       | 3.073  | .1210"                    | 2-1/4"                    | 5/8"                    | 1-1/8"                  | 4                | 16.78 | 16.05 | 15.32 | 14.59  |
| 95318 | .1220              |       | 3.099  | .1220"                    | 2-1/4"                    | 5/8"                    | 1-1/8"                  | 4                | 16.78 | 16.05 | 15.32 | 14.59  |
| 95321 | .1230              |       | 3.124  | .1230"                    | 2-1/4"                    | 5/8"                    | 1-1/8"                  | 4                | 16.78 | 16.05 | 15.32 | 14.59  |
| 95324 | .1235              |       | 3.137  | .1235"                    | 2-1/4"                    | 5/8"                    | 1-1/8"                  | 4                | 16.78 | 16.05 | 15.32 | 14.59  |
| 95327 | .1240              |       | 3.150  | .1240"                    | 2-1/4"                    | 5/8"                    | 1-1/8"                  | 4                | 16.78 | 16.05 | 15.32 | 14.59  |
| 95330 | .1245              |       | 3.162  | .1245"                    | 2-1/4"                    | 5/8"                    | 1-1/8"                  | 4                | 16.78 | 16.05 | 15.32 | 14.59  |
| 95333 | .1248              |       | 3.170  | .1248"                    | 2-1/4"                    | 5/8"                    | 1-1/8"                  | 4                | 16.78 | 16.05 | 15.32 | 14.59  |
| 95336 | .1250              | 1/8"  | 3.175  | .1250"                    | 2-1/4"                    | 5/8"                    | 1-1/8"                  | 4                | 16.78 | 16.05 | 15.32 | 14.59  |
| 95339 | .1255              |       | 3.188  | .1255"                    | 2-1/4"                    | 5/8"                    | 1-1/8"                  | 4                | 17.46 | 16.70 | 15.94 | 15.18  |
| 95342 | .1260              |       | 3.200  | .1260"                    | 2-1/4"                    | 5/8"                    | 1-1/8"                  | 4                | 17.46 | 16.70 | 15.94 | 15.18  |
| 95345 | .1265              |       | 3.213  | .1265"                    | 2-1/4"                    | 5/8"                    | 1-1/8"                  | 4                | 17.46 | 16.70 | 15.94 | 15.18  |
| 95348 | .1270              |       | 3.226  | .1270"                    | 2-1/4"                    | 5/8"                    | 1-1/8"                  | 4                | 17.46 | 16.70 | 15.94 | 15.18  |
| 95351 | .1275              |       | 3.239  | .1275"                    | 2-1/4"                    | 5/8"                    | 1-1/8"                  | 4                | 17.46 | 16.70 | 15.94 | 15.18  |
| 95354 | .1280              |       | 3.251  | .1280"                    | 2-1/4"                    | 5/8"                    | 1-1/8"                  | 4                | 17.46 | 16.70 | 15.94 | 15.18  |
| 95357 | .1285              | #30   | 3.264  | .1285"                    | 2-1/4"                    | 5/8"                    | 1-1/8"                  | 4                | 17.46 | 16.70 | 15.94 | 15.18  |
| 95360 | .1290              |       | 3.277  | .1290"                    | 2-1/4"                    | 5/8"                    | 1-1/8"                  | 4                | 17.46 | 16.70 | 15.94 | 15.18  |
| 95363 | .1300              |       | 3.302  | .1300"                    | 2-1/4"                    | 5/8"                    | 1-1/8"                  | 4                | 17.46 | 16.70 | 15.94 | 15.18  |
| 95366 | .1310              |       | 3.327  | .1310"                    | 2-1/2"                    | 3/4"                    | 1-1/4"                  | 4                | 19.38 | 18.54 | 17.69 | 16.85  |
| 95369 | .1320              |       | 3.353  | .1320"                    | 2-1/2"                    | 3/4"                    | 1-1/4"                  | 4                | 19.38 | 18.54 | 17.69 | 16.85  |
| 95372 | .1330              |       | 3.378  | .1330"                    | 2-1/2"                    | 3/4"                    | 1-1/4"                  | 4                | 19.38 | 18.54 | 17.69 | 16.85  |
| 95375 | .1340              |       | 3.404  | .1340"                    | 2-1/2"                    | 3/4"                    | 1-1/4"                  | 4                | 19.38 | 18.54 | 17.69 | 16.85  |
| 95378 | .1350              |       | 3.429  | .1350"                    | 2-1/2"                    | 3/4"                    | 1-1/4"                  | 4                | 19.38 | 18.54 | 17.69 | 16.85  |
| 95381 | .1360              | #29   | 3.454  | .1360"                    | 2-1/2"                    | 3/4"                    | 1-1/4"                  | 4                | 19.38 | 18.54 | 17.69 | 16.85  |
| 95384 | .1370              |       | 3.480  | .1370"                    | 2-1/2"                    | 3/4"                    | 1-1/4"                  | 4                | 19.38 | 18.54 | 17.69 | 16.85  |
| 95387 | .1378              |       | 3.500  | .1378"                    | 2-1/2"                    | 3/4"                    | 1-1/4"                  | 4                | 19.38 | 18.54 | 17.69 | 16.85  |
| 95390 | .1380              |       | 3.505  | .1380"                    | 2-1/2"                    | 3/4"                    | 1-1/4"                  | 4                | 19.38 | 18.54 | 17.69 | 16.85  |
| 95393 | .1390              |       | 3.531  | .1390"                    | 2-1/2"                    | 3/4"                    | 1-1/4"                  | 4                | 19.38 | 18.54 | 17.69 | 16.85  |
| 95396 | .1400              |       | 3.556  | .1400"                    | 2-1/2"                    | 3/4"                    | 1-1/4"                  | 4                | 19.38 | 18.54 | 17.69 | 16.85  |
| 95399 | .1405              | #28   | 3.569  | .1405"                    | 2-1/2"                    | 3/4"                    | 1-1/4"                  | 4                | 19.38 | 18.54 | 17.69 | 16.85  |
| 95402 | .1406              | 9/64" | 3.571  | .1406"                    | 2-1/2"                    | 3/4"                    | 1-1/4"                  | 4                | 19.38 | 18.54 | 17.69 | 16.85  |
| 95405 | .1410              |       | 3.581  | .1410"                    | 2-1/2"                    | 3/4"                    | 1-1/4"                  | 4                | 20.98 | 20.06 | 19.15 | 18.24  |
| 95408 | .1420              |       | 3.607  | .1420"                    | 2-1/2"                    | 3/4"                    | 1-1/4"                  | 4                | 20.98 | 20.06 | 19.15 | 18.24  |
| 95411 | .1430              |       | 3.632  | .1430"                    | 2-1/2"                    | 3/4"                    | 1-1/4"                  | 4                | 20.98 | 20.06 | 19.15 | 18.24  |
| 95414 | .1440              | #27   | 3.658  | .1440"                    | 2-1/2"                    | 3/4"                    | 1-1/4"                  | 4                | 20.98 | 20.06 | 19.15 | 18.24  |
| 95417 | .1450              |       | 3.683  | .1450"                    | 2-1/2"                    | 3/4"                    | 1-1/4"                  | 4                | 20.98 | 20.06 | 19.15 | 18.24  |
| 95420 | .1460              |       | 3.708  | .1460"                    | 2-1/2"                    | 3/4"                    | 1-1/4"                  | 4                | 20.98 | 20.06 | 19.15 | 18.24  |
| 95423 | .1470              | #26   | 3.734  | .1470"                    | 2-1/2"                    | 3/4"                    | 1-1/4"                  | 4                | 20.98 | 20.06 | 19.15 | 18.24  |
| 95426 | .1480              |       | 3.759  | .1480"                    | 2-1/2"                    | 3/4"                    | 1-1/4"                  | 4                | 20.98 | 20.06 | 19.15 | 18.24  |
| 95429 | .1490              |       | 3.785  | .1490"                    | 2-1/2"                    | 3/4"                    | 1-1/4"                  | 4                | 20.98 | 20.06 | 19.15 | 18.24  |
| 95432 | .1495              | #25   | 3.797  | .1495"                    | 2-1/2"                    | 3/4"                    | 1-1/4"                  | 4                | 20.98 | 20.06 | 19.15 | 18.24  |
| 95435 | .1500              |       | 3.810  | .1500"                    | 2-1/2"                    | 3/4"                    | 1-1/4"                  | 4                | 20.98 | 20.06 | 19.15 | 18.24  |
| 95438 | .1510              |       | 3.835  | .1510"                    | 2-1/2"                    | 3/4"                    | 1-1/4"                  | 4                | 20.98 | 20.06 | 19.15 | 18.24  |
| 95441 | .1520              | #24   | 3.861  | .1520"                    | 2-1/2"                    | 3/4"                    | 1-1/4"                  | 4                | 20.98 | 20.06 | 19.15 | 18.24  |
| 95444 | .1530              |       | 3.886  | .1530"                    | 2-1/2"                    | 3/4"                    | 1-1/4"                  | 4                | 20.98 | 20.06 | 19.15 | 18.24  |
| 95447 | .1540              | #23   | 3.912  | .1540"                    | 2-1/2"                    | 3/4"                    | 1-1/4"                  | 4                | 20.98 | 20.06 | 19.15 | 18.24  |
| 95450 | .1545              |       | 3.924  | .1545"                    | 2-1/2"                    | 3/4"                    | 1-1/4"                  | 4                | 20.98 | 20.06 | 19.15 | 18.24  |
| 95453 | .1550              |       | 3.937  | .1550"                    | 2-1/2"                    | 3/4"                    | 1-1/4"                  | 4                | 20.98 | 20.06 | 19.15 | 18.24  |

| 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>Reach<br>Length | Number<br>Flutes | 1-11 | 12-24 | 25-49 | 50-100 |       |
|-------|---------------------|--------|----------------------------|----------------------------|--------------------------|--------------------------|------------------|------|-------|-------|--------|-------|
|       | Decimal             | Metric |                            |                            |                          |                          |                  |      |       |       |        |       |
| 95456 | .1555               |        | 3.950                      | .1555"                     | 2-1/2"                   | 3/4"                     | 1-1/4"           | 4    | 20.98 | 20.06 | 19.15  | 18.24 |
| 95459 | .1560               |        | 3.962                      | .1560"                     | 2-1/2"                   | 3/4"                     | 1-1/4"           | 4    | 20.98 | 20.06 | 19.15  | 18.24 |
| 95462 | .1562               | 5/32"  | 3.967                      | .1562"                     | 2-1/2"                   | 3/4"                     | 1-1/4"           | 4    | 20.98 | 20.06 | 19.15  | 18.24 |
| 95465 | .1565               |        | 3.975                      | .1565"                     | 2-1/2"                   | 3/4"                     | 1-1/4"           | 4    | 20.98 | 20.06 | 19.15  | 18.24 |
| 95468 | .1570               | #22    | 3.988                      | .1570"                     | 2-1/2"                   | 3/4"                     | 1-1/4"           | 4    | 23.32 | 22.31 | 21.29  | 20.28 |
| 95471 | .1575               |        | 4.000                      | .1575"                     | 2-1/2"                   | 3/4"                     | 1-1/4"           | 4    | 23.32 | 22.31 | 21.29  | 20.28 |
| 95474 | .1580               |        | 4.013                      | .1580"                     | 2-1/2"                   | 3/4"                     | 1-1/4"           | 4    | 23.32 | 22.31 | 21.29  | 20.28 |
| 95477 | .1590               | #21    | 4.039                      | .1590"                     | 2-1/2"                   | 3/4"                     | 1-1/4"           | 4    | 23.32 | 22.31 | 21.29  | 20.28 |
| 95480 | .1600               |        | 4.064                      | .1600"                     | 2-3/4"                   | 7/8"                     | 1-1/2"           | 4    | 23.32 | 22.31 | 21.29  | 20.28 |
| 95483 | .1610               | #20    | 4.089                      | .1610"                     | 2-3/4"                   | 7/8"                     | 1-1/2"           | 4    | 23.32 | 22.31 | 21.29  | 20.28 |
| 95486 | .1620               |        | 4.115                      | .1620"                     | 2-3/4"                   | 7/8"                     | 1-1/2"           | 4    | 23.32 | 22.31 | 21.29  | 20.28 |
| 95489 | .1630               |        | 4.140                      | .1630"                     | 2-3/4"                   | 7/8"                     | 1-1/2"           | 4    | 23.32 | 22.31 | 21.29  | 20.28 |
| 95492 | .1640               |        | 4.166                      | .1640"                     | 2-3/4"                   | 7/8"                     | 1-1/2"           | 4    | 23.32 | 22.31 | 21.29  | 20.28 |
| 95495 | .1650               |        | 4.191                      | .1650"                     | 2-3/4"                   | 7/8"                     | 1-1/2"           | 4    | 23.32 | 22.31 | 21.29  | 20.28 |
| 95498 | .1660               | #19    | 4.216                      | .1660"                     | 2-3/4"                   | 7/8"                     | 1-1/2"           | 4    | 23.32 | 22.31 | 21.29  | 20.28 |
| 95501 | .1670               |        | 4.242                      | .1670"                     | 2-3/4"                   | 7/8"                     | 1-1/2"           | 4    | 23.32 | 22.31 | 21.29  | 20.28 |
| 95504 | .1680               |        | 4.267                      | .1680"                     | 2-3/4"                   | 7/8"                     | 1-1/2"           | 4    | 23.32 | 22.31 | 21.29  | 20.28 |
| 95507 | .1690               |        | 4.293                      | .1690"                     | 2-3/4"                   | 7/8"                     | 1-1/2"           | 4    | 23.32 | 22.31 | 21.29  | 20.28 |
| 95510 | .1695               | #18    | 4.305                      | .1695"                     | 2-3/4"                   | 7/8"                     | 1-1/2"           | 4    | 23.32 | 22.31 | 21.29  | 20.28 |
| 95513 | .1700               |        | 4.318                      | .1700"                     | 2-3/4"                   | 7/8"                     | 1-1/2"           | 4    | 23.32 | 22.31 | 21.29  | 20.28 |
| 95516 | .1710               |        | 4.343                      | .1710"                     | 2-3/4"                   | 7/8"                     | 1-1/2"           | 4    | 23.32 | 22.31 | 21.29  | 20.28 |
| 95519 | .1719               | 11/64" | 4.366                      | .1719"                     | 2-3/4"                   | 7/8"                     | 1-1/2"           | 4    | 23.32 | 22.31 | 21.29  | 20.28 |
| 95522 | .1720               |        | 4.369                      | .1720"                     | 2-3/4"                   | 7/8"                     | 1-1/2"           | 4    | 23.32 | 22.31 | 21.29  | 20.28 |
| 95525 | .1730               | #17    | 4.394                      | .1730"                     | 2-3/4"                   | 7/8"                     | 1-1/2"           | 4    | 24.27 | 23.21 | 22.16  | 21.10 |
| 95528 | .1740               |        | 4.420                      | .1740"                     | 2-3/4"                   | 7/8"                     | 1-1/2"           | 4    | 24.27 | 23.21 | 22.16  | 21.10 |
| 95531 | .1750               |        | 4.445                      | .1750"                     | 2-3/4"                   | 7/8"                     | 1-1/2"           | 4    | 24.27 | 23.21 | 22.16  | 21.10 |
| 95534 | .1760               |        | 4.470                      | .1760"                     | 2-3/4"                   | 7/8"                     | 1-1/2"           | 4    | 24.27 | 23.21 | 22.16  | 21.10 |
| 95537 | .1770               | #16    | 4.496                      | .1770"                     | 2-3/4"                   | 7/8"                     | 1-1/2"           | 4    | 24.27 | 23.21 | 22.16  | 21.10 |
| 95540 | .1772               |        | 4.500                      | .1772"                     | 2-3/4"                   | 7/8"                     | 1-1/2"           | 4    | 24.27 | 23.21 | 22.16  | 21.10 |
| 95543 | .1780               |        | 4.521                      | .1780"                     | 2-3/4"                   | 7/8"                     | 1-1/2"           | 4    | 24.27 | 23.21 | 22.16  | 21.10 |
| 95546 | .1790               |        | 4.547                      | .1790"                     | 2-3/4"                   | 7/8"                     | 1-1/2"           | 4    | 24.27 | 23.21 | 22.16  | 21.10 |
| 95549 | .1800               | #15    | 4.572                      | .1800"                     | 2-3/4"                   | 7/8"                     | 1-1/2"           | 4    | 24.27 | 23.21 | 22.16  | 21.10 |
| 95552 | .1810               |        | 4.597                      | .1810"                     | 2-3/4"                   | 7/8"                     | 1-1/2"           | 4    | 24.27 | 23.21 | 22.16  | 21.10 |
| 95555 | .1820               | #14    | 4.623                      | .1820"                     | 2-3/4"                   | 7/8"                     | 1-1/2"           | 4    | 24.27 | 23.21 | 22.16  | 21.10 |
| 95558 | .1830               |        | 4.648                      | .1830"                     | 2-3/4"                   | 7/8"                     | 1-1/2"           | 4    | 24.27 | 23.21 | 22.16  | 21.10 |
| 95561 | .1840               |        | 4.674                      | .1840"                     | 2-3/4"                   | 7/8"                     | 1-1/2"           | 4    | 24.27 | 23.21 | 22.16  | 21.10 |
| 95564 | .1850               | #13    | 4.699                      | .1850"                     | 2-3/4"                   | 7/8"                     | 1-1/2"           | 4    | 24.27 | 23.21 | 22.16  | 21.10 |
| 95567 | .1855               |        | 4.712                      | .1855"                     | 2-3/4"                   | 7/8"                     | 1-1/2"           | 4    | 24.27 | 23.21 | 22.16  | 21.10 |
| 95570 | .1860               |        | 4.724                      | .1860"                     | 2-3/4"                   | 7/8"                     | 1-1/2"           | 4    | 24.27 | 23.21 | 22.16  | 21.10 |
| 95573 | .1865               |        | 4.737                      | .1865"                     | 2-3/4"                   | 7/8"                     | 1-1/2"           | 4    | 24.27 | 23.21 | 22.16  | 21.10 |
| 95576 | .1870               |        | 4.750                      | .1870"                     | 2-3/4"                   | 7/8"                     | 1-1/2"           | 4    | 24.27 | 23.21 | 22.16  | 21.10 |
| 95577 | .1873               |        | 4.757                      | .1873"                     | 2-3/4"                   | 7/8"                     | 1-1/2"           | 4    | 24.27 | 23.21 | 22.16  | 21.10 |
| 95579 | .1875               | 3/16"  | 4.763                      | .1875"                     | 2-3/4"                   | 7/8"                     | 1-1/2"           | 4    | 24.27 | 23.21 | 22.16  | 21.10 |
| 95582 | .1880               |        | 4.775                      | .1880"                     | 2-3/4"                   | 7/8"                     | 1-1/2"           | 4    | 24.78 | 23.71 | 22.63  | 21.55 |
| 95585 | .1885               |        | 4.788                      | .1885"                     | 2-3/4"                   | 7/8"                     | 1-1/2"           | 4    | 24.78 | 23.71 | 22.63  | 21.55 |
| 95588 | .1890               | #12    | 4.801                      | .1890"                     | 2-3/4"                   | 7/8"                     | 1-1/2"           | 4    | 24.78 | 23.71 | 22.63  | 21.55 |
| 95591 | .1900               |        | 4.826                      | .1900"                     | 2-3/4"                   | 7/8"                     | 1-1/2"           | 4    | 24.78 | 23.71 | 22.63  | 21.55 |
| 95594 | .1910               | #11    | 4.851                      | .1910"                     | 2-3/4"                   | 7/8"                     | 1-1/2"           | 4    | 24.78 | 23.71 | 22.63  | 21.55 |

continued →

## Series 4100 (continued)

.1920" - .2250"  
(4.877mm - 5.715mm)



TECH  
PAGES  
314-315

## TOLERANCES

|       |                                    |                                      |
|-------|------------------------------------|--------------------------------------|
| $d_1$ | .0590" - .2509" (1.498 - 6.372mm)  | + .0002" - .0000" (+.0050 - .0000mm) |
|       | .2510" - .5020" (6.375 - 12.750mm) | + .0003" - .0000" (+.0075 - .0000mm) |
| $d_2$ | .0590" - .2509" (1.498 - 6.372mm)  | + .0002" - .0000" (+.0050 - .0000mm) |
|       | .2510" - .5020" (6.375 - 12.750mm) | + .0003" - .0000" (+.0075 - .0000mm) |



Solid Carbide Submicron Grain

Neck diameter is .010"  $\pm$ .002" less than ( $d_1$ ) fluted diameter

| 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>Reach<br>Length | Number<br>Flutes | 1-11  | 12-24 | 25-49 | 50-100 |
|-------|---------------------|--------------|----------------------------|----------------------------|--------------------------|--------------------------|------------------|-------|-------|-------|--------|
|       | Decimal             | Metric       |                            |                            |                          |                          |                  |       |       |       |        |
| 95597 | .1920               | 4.877        | .1920"                     | 2-3/4"                     | 7/8"                     | 1-1/2"                   | 4                | 24.78 | 23.71 | 22.63 | 21.55  |
| 95600 | .1930               | 4.902        | .1930"                     | 2-3/4"                     | 7/8"                     | 1-1/2"                   | 4                | 24.78 | 23.71 | 22.63 | 21.55  |
| 95603 | .1935               | #10 4.915    | .1935"                     | 2-3/4"                     | 7/8"                     | 1-1/2"                   | 4                | 24.78 | 23.71 | 22.63 | 21.55  |
| 95606 | .1940               | 4.928        | .1940"                     | 2-3/4"                     | 7/8"                     | 1-1/2"                   | 4                | 24.78 | 23.71 | 22.63 | 21.55  |
| 95609 | .1950               | 4.953        | .1950"                     | 2-3/4"                     | 7/8"                     | 1-1/2"                   | 4                | 24.78 | 23.71 | 22.63 | 21.55  |
| 95612 | .1960               | #9 4.978     | .1960"                     | 3"                         | 1"                       | 1-5/8"                   | 4                | 28.03 | 26.81 | 25.59 | 24.37  |
| 95615 | .1969               | 5.000        | .1969"                     | 3"                         | 1"                       | 1-5/8"                   | 4                | 28.03 | 26.81 | 25.59 | 24.37  |
| 95618 | .1970               | 5.004        | .1970"                     | 3"                         | 1"                       | 1-5/8"                   | 4                | 28.03 | 26.81 | 25.59 | 24.37  |
| 95621 | .1980               | 5.029        | .1980"                     | 3"                         | 1"                       | 1-5/8"                   | 4                | 28.03 | 26.81 | 25.59 | 24.37  |
| 95624 | .1990               | #8 5.055     | .1990"                     | 3"                         | 1"                       | 1-5/8"                   | 4                | 28.03 | 26.81 | 25.59 | 24.37  |
| 95627 | .2000               | 5.080        | .2000"                     | 3"                         | 1"                       | 1-5/8"                   | 4                | 28.03 | 26.81 | 25.59 | 24.37  |
| 95630 | .2010               | #7 5.105     | .2010"                     | 3"                         | 1"                       | 1-5/8"                   | 4                | 28.03 | 26.81 | 25.59 | 24.37  |
| 95633 | .2020               | 5.131        | .2020"                     | 3"                         | 1"                       | 1-5/8"                   | 4                | 28.03 | 26.81 | 25.59 | 24.37  |
| 95636 | .2030               | 5.156        | .2030"                     | 3"                         | 1"                       | 1-5/8"                   | 4                | 28.03 | 26.81 | 25.59 | 24.37  |
| 95639 | .2031               | 13/64" 5.159 | .2031"                     | 3"                         | 1"                       | 1-5/8"                   | 4                | 28.03 | 26.81 | 25.59 | 24.37  |
| 95642 | .2040               | #6 5.182     | .2040"                     | 3"                         | 1"                       | 1-5/8"                   | 4                | 28.03 | 26.81 | 25.59 | 24.37  |
| 95645 | .2050               | 5.207        | .2050"                     | 3"                         | 1"                       | 1-5/8"                   | 4                | 28.03 | 26.81 | 25.59 | 24.37  |
| 95648 | .2055               | #5 5.220     | .2055"                     | 3"                         | 1"                       | 1-5/8"                   | 4                | 28.03 | 26.81 | 25.59 | 24.37  |
| 95651 | .2060               | 5.232        | .2060"                     | 3"                         | 1"                       | 1-5/8"                   | 4                | 28.03 | 26.81 | 25.59 | 24.37  |
| 95654 | .2070               | 5.258        | .2070"                     | 3"                         | 1"                       | 1-5/8"                   | 4                | 28.03 | 26.81 | 25.59 | 24.37  |
| 95657 | .2080               | 5.283        | .2080"                     | 3"                         | 1"                       | 1-5/8"                   | 4                | 28.03 | 26.81 | 25.59 | 24.37  |
| 95660 | .2090               | #4 5.309     | .2090"                     | 3"                         | 1"                       | 1-5/8"                   | 4                | 28.03 | 26.81 | 25.59 | 24.37  |
| 95663 | .2100               | 5.334        | .2100"                     | 3"                         | 1"                       | 1-5/8"                   | 4                | 28.03 | 26.81 | 25.59 | 24.37  |
| 95666 | .2110               | 5.359        | .2110"                     | 3"                         | 1"                       | 1-5/8"                   | 4                | 28.03 | 26.81 | 25.59 | 24.37  |
| 95669 | .2120               | 5.385        | .2120"                     | 3"                         | 1"                       | 1-5/8"                   | 4                | 28.03 | 26.81 | 25.59 | 24.37  |
| 95672 | .2130               | #3 5.410     | .2130"                     | 3"                         | 1"                       | 1-5/8"                   | 4                | 28.03 | 26.81 | 25.59 | 24.37  |
| 95675 | .2140               | 5.436        | .2140"                     | 3"                         | 1"                       | 1-5/8"                   | 4                | 28.03 | 26.81 | 25.59 | 24.37  |
| 95678 | .2150               | 5.461        | .2150"                     | 3"                         | 1"                       | 1-5/8"                   | 4                | 28.03 | 26.81 | 25.59 | 24.37  |
| 95681 | .2160               | 5.486        | .2160"                     | 3"                         | 1"                       | 1-5/8"                   | 4                | 28.03 | 26.81 | 25.59 | 24.37  |
| 95684 | .2165               | 5.500        | .2165"                     | 3"                         | 1"                       | 1-5/8"                   | 4                | 28.03 | 26.81 | 25.59 | 24.37  |
| 95687 | .2170               | 5.512        | .2170"                     | 3"                         | 1"                       | 1-5/8"                   | 4                | 28.03 | 26.81 | 25.59 | 24.37  |
| 95690 | .2180               | 5.537        | .2180"                     | 3"                         | 1"                       | 1-5/8"                   | 4                | 28.03 | 26.81 | 25.59 | 24.37  |
| 95693 | .2188               | 7/32" 5.558  | .2188"                     | 3"                         | 1"                       | 1-5/8"                   | 4                | 28.03 | 26.81 | 25.59 | 24.37  |
| 95696 | .2190               | 5.563        | .2190"                     | 3"                         | 1"                       | 1-5/8"                   | 4                | 28.03 | 26.81 | 25.59 | 24.37  |
| 95699 | .2200               | 5.588        | .2200"                     | 3"                         | 1"                       | 1-5/8"                   | 4                | 32.69 | 31.27 | 29.85 | 28.43  |
| 95702 | .2210               | #2 5.613     | .2210"                     | 3"                         | 1"                       | 1-5/8"                   | 4                | 32.69 | 31.27 | 29.85 | 28.43  |
| 95705 | .2220               | 5.639        | .2220"                     | 3"                         | 1"                       | 1-5/8"                   | 4                | 32.69 | 31.27 | 29.85 | 28.43  |
| 95708 | .2230               | 5.664        | .2230"                     | 3"                         | 1"                       | 1-5/8"                   | 4                | 32.69 | 31.27 | 29.85 | 28.43  |
| 95711 | .2240               | 5.690        | .2240"                     | 3"                         | 1"                       | 1-5/8"                   | 4                | 32.69 | 31.27 | 29.85 | 28.43  |
| 95714 | .2250               | 5.715        | .2250"                     | 3"                         | 1"                       | 1-5/8"                   | 4                | 32.69 | 31.27 | 29.85 | 28.43  |

| 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>Reach<br>Length | Number<br>Flutes | 1-11  | 12-24 | 25-49 | 50-100 |
|-------|---------------------|--------|----------------------------|----------------------------|--------------------------|--------------------------|------------------|-------|-------|-------|--------|
|       | Decimal             | Metric |                            |                            |                          |                          |                  |       |       |       |        |
| 95717 | .2260               | 5.740  | .2260"                     | 3"                         | 1"                       | 1-5/8"                   | 4                | 32.69 | 31.27 | 29.85 | 28.43  |
| 95720 | .2270               | 5.766  | .2270"                     | 3"                         | 1"                       | 1-5/8"                   | 4                | 32.69 | 31.27 | 29.85 | 28.43  |
| 95723 | .2280 #1            | 5.791  | .2280"                     | 3"                         | 1"                       | 1-5/8"                   | 4                | 32.69 | 31.27 | 29.85 | 28.43  |
| 95726 | .2290               | 5.817  | .2290"                     | 3"                         | 1"                       | 1-5/8"                   | 4                | 32.69 | 31.27 | 29.85 | 28.43  |
| 95729 | .2300               | 5.842  | .2300"                     | 3"                         | 1"                       | 1-5/8"                   | 4                | 32.69 | 31.27 | 29.85 | 28.43  |
| 95732 | .2310               | 5.867  | .2310"                     | 3"                         | 1"                       | 1-5/8"                   | 4                | 32.69 | 31.27 | 29.85 | 28.43  |
| 95735 | .2320               | 5.893  | .2320"                     | 3"                         | 1"                       | 1-5/8"                   | 4                | 32.69 | 31.27 | 29.85 | 28.43  |
| 95738 | .2330               | 5.918  | .2330"                     | 3"                         | 1"                       | 1-5/8"                   | 4                | 32.69 | 31.27 | 29.85 | 28.43  |
| 95741 | .2340 A             | 5.944  | .2340"                     | 3"                         | 1"                       | 1-5/8"                   | 4                | 32.69 | 31.27 | 29.85 | 28.43  |
| 95744 | .2344 15/64"        | 5.954  | .2344"                     | 3"                         | 1"                       | 1-5/8"                   | 4                | 32.69 | 31.27 | 29.85 | 28.43  |
| 95747 | .2350               | 5.969  | .2350"                     | 3"                         | 1"                       | 1-5/8"                   | 4                | 33.91 | 32.44 | 30.96 | 29.49  |
| 95750 | .2360               | 5.994  | .2360"                     | 3"                         | 1"                       | 1-5/8"                   | 4                | 33.91 | 32.44 | 30.96 | 29.49  |
| 95753 | .2362               | 6.000  | .2362"                     | 3"                         | 1"                       | 1-5/8"                   | 4                | 33.91 | 32.44 | 30.96 | 29.49  |
| 95756 | .2370               | 6.020  | .2370"                     | 3"                         | 1"                       | 1-5/8"                   | 4                | 33.91 | 32.44 | 30.96 | 29.49  |
| 95759 | .2380 B             | 6.045  | .2380"                     | 3"                         | 1"                       | 1-5/8"                   | 4                | 33.91 | 32.44 | 30.96 | 29.49  |
| 95762 | .2390               | 6.071  | .2390"                     | 3"                         | 1"                       | 1-5/8"                   | 4                | 33.91 | 32.44 | 30.96 | 29.49  |
| 95765 | .2400               | 6.096  | .2400"                     | 3"                         | 1"                       | 1-5/8"                   | 4                | 33.91 | 32.44 | 30.96 | 29.49  |
| 95768 | .2410               | 6.121  | .2410"                     | 3"                         | 1"                       | 1-5/8"                   | 4                | 33.91 | 32.44 | 30.96 | 29.49  |
| 95771 | .2420 C             | 6.147  | .2420"                     | 3"                         | 1"                       | 1-5/8"                   | 4                | 33.91 | 32.44 | 30.96 | 29.49  |
| 95774 | .2430               | 6.172  | .2430"                     | 3"                         | 1"                       | 1-5/8"                   | 4                | 33.91 | 32.44 | 30.96 | 29.49  |
| 95777 | .2440               | 6.198  | .2440"                     | 3"                         | 1"                       | 1-5/8"                   | 4                | 33.91 | 32.44 | 30.96 | 29.49  |
| 95780 | .2450               | 6.223  | .2450"                     | 3"                         | 1"                       | 1-5/8"                   | 4                | 33.91 | 32.44 | 30.96 | 29.49  |
| 95783 | .2460 D             | 6.248  | .2460"                     | 3"                         | 1"                       | 1-5/8"                   | 4                | 33.91 | 32.44 | 30.96 | 29.49  |
| 95786 | .2470               | 6.274  | .2470"                     | 3"                         | 1"                       | 1-5/8"                   | 4                | 33.91 | 32.44 | 30.96 | 29.49  |
| 95789 | .2480               | 6.299  | .2480"                     | 3"                         | 1"                       | 1-5/8"                   | 4                | 33.91 | 32.44 | 30.96 | 29.49  |
| 95792 | .2485               | 6.312  | .2485"                     | 3"                         | 1"                       | 1-5/8"                   | 4                | 33.91 | 32.44 | 30.96 | 29.49  |
| 95795 | .2490               | 6.325  | .2490"                     | 3"                         | 1"                       | 1-5/8"                   | 4                | 33.91 | 32.44 | 30.96 | 29.49  |
| 95798 | .2495               | 6.337  | .2495"                     | 3"                         | 1"                       | 1-5/8"                   | 4                | 33.91 | 32.44 | 30.96 | 29.49  |
| 95799 | .2498               | 6.345  | .2498"                     | 3"                         | 1"                       | 1-5/8"                   | 4                | 33.91 | 32.44 | 30.96 | 29.49  |
| 95801 | .2500 1/4" / E      | 6.350  | .2500"                     | 3"                         | 1"                       | 1-5/8"                   | 4                | 33.91 | 32.44 | 30.96 | 29.49  |
| 95802 | .2502               | 6.355  | .2502"                     | 3"                         | 1"                       | 1-5/8"                   | 4                | 33.91 | 32.44 | 30.96 | 29.49  |
| 95804 | .2505               | 6.363  | .2505"                     | 3"                         | 1"                       | 1-5/8"                   | 4                | 33.91 | 32.44 | 30.96 | 29.49  |
| 95807 | .2510               | 6.375  | .2510"                     | 3"                         | 1"                       | 1-5/8"                   | 4                | 33.91 | 32.44 | 30.96 | 29.49  |
| 95810 | .2515               | 6.388  | .2515"                     | 3"                         | 1"                       | 1-5/8"                   | 4                | 33.91 | 32.44 | 30.96 | 29.49  |
| 95813 | .2520               | 6.401  | .2520"                     | 3"                         | 1"                       | 1-5/8"                   | 4                | 33.91 | 32.44 | 30.96 | 29.49  |
| 95816 | .2530               | 6.426  | .2530"                     | 3"                         | 1"                       | 1-5/8"                   | 4                | 33.91 | 32.44 | 30.96 | 29.49  |
| 95819 | .2540               | 6.452  | .2540"                     | 3"                         | 1"                       | 1-5/8"                   | 4                | 33.91 | 32.44 | 30.96 | 29.49  |
| 95822 | .2550               | 6.477  | .2550"                     | 3-1/4"                     | 1-1/8"                   | 1-3/4"                   | 6                | 39.10 | 37.40 | 35.70 | 34.00  |
| 95825 | .2559               | 6.500  | .2559"                     | 3-1/4"                     | 1-1/8"                   | 1-3/4"                   | 6                | 39.10 | 37.40 | 35.70 | 34.00  |
| 95828 | .2560               | 6.502  | .2560"                     | 3-1/4"                     | 1-1/8"                   | 1-3/4"                   | 6                | 39.10 | 37.40 | 35.70 | 34.00  |
| 95831 | .2570 F             | 6.528  | .2570"                     | 3-1/4"                     | 1-1/8"                   | 1-3/4"                   | 6                | 39.10 | 37.40 | 35.70 | 34.00  |
| 95834 | .2580               | 6.553  | .2580"                     | 3-1/4"                     | 1-1/8"                   | 1-3/4"                   | 6                | 39.10 | 37.40 | 35.70 | 34.00  |
| 95837 | .2590               | 6.579  | .2590"                     | 3-1/4"                     | 1-1/8"                   | 1-3/4"                   | 6                | 39.10 | 37.40 | 35.70 | 34.00  |
| 95840 | .2600               | 6.604  | .2600"                     | 3-1/4"                     | 1-1/8"                   | 1-3/4"                   | 6                | 39.10 | 37.40 | 35.70 | 34.00  |
| 95843 | .2610 G             | 6.629  | .2610"                     | 3-1/4"                     | 1-1/8"                   | 1-3/4"                   | 6                | 39.10 | 37.40 | 35.70 | 34.00  |
| 95846 | .2620               | 6.655  | .2620"                     | 3-1/4"                     | 1-1/8"                   | 1-3/4"                   | 6                | 39.10 | 37.40 | 35.70 | 34.00  |
| 95849 | .2630               | 6.680  | .2630"                     | 3-1/4"                     | 1-1/8"                   | 1-3/4"                   | 6                | 39.10 | 37.40 | 35.70 | 34.00  |
| 95852 | .2640               | 6.706  | .2640"                     | 3-1/4"                     | 1-1/8"                   | 1-3/4"                   | 6                | 39.10 | 37.40 | 35.70 | 34.00  |

continued →

## Series 4100 (continued)

.2650" - .3070"  
(6.731mm - 7.798mm)

| EDP#  | $d1$ †  |                    | $d2$  | $l1$   | $l2$   | $l3$   | Number<br>Flutes | 1-11 | 12-24 | 25-49 | 50-100 |       |
|-------|---------|--------------------|-------|--------|--------|--------|------------------|------|-------|-------|--------|-------|
|       | Decimal | Diameter<br>Metric |       |        |        |        |                  |      |       |       |        |       |
| 95855 | .2650   |                    | 6.731 | .2650" | 3-1/4" | 1-1/8" | 1-3/4"           | 6    | 39.10 | 37.40 | 35.70  | 34.00 |
| 95858 | .2656   | 17/64"             | 6.746 | .2656" | 3-1/4" | 1-1/8" | 1-3/4"           | 6    | 39.10 | 37.40 | 35.70  | 34.00 |
| 95861 | .2660   | H                  | 6.756 | .2660" | 3-1/4" | 1-1/8" | 1-3/4"           | 6    | 39.10 | 37.40 | 35.70  | 34.00 |
| 95864 | .2670   |                    | 6.782 | .2670" | 3-1/4" | 1-1/8" | 1-3/4"           | 6    | 39.10 | 37.40 | 35.70  | 34.00 |
| 95867 | .2680   |                    | 6.807 | .2680" | 3-1/4" | 1-1/8" | 1-3/4"           | 6    | 39.10 | 37.40 | 35.70  | 34.00 |
| 95870 | .2690   |                    | 6.833 | .2690" | 3-1/4" | 1-1/8" | 1-3/4"           | 6    | 39.10 | 37.40 | 35.70  | 34.00 |
| 95873 | .2700   |                    | 6.858 | .2700" | 3-1/4" | 1-1/8" | 1-3/4"           | 6    | 39.10 | 37.40 | 35.70  | 34.00 |
| 95876 | .2710   |                    | 6.883 | .2710" | 3-1/4" | 1-1/8" | 1-3/4"           | 6    | 39.10 | 37.40 | 35.70  | 34.00 |
| 95879 | .2720   | I                  | 6.909 | .2720" | 3-1/4" | 1-1/8" | 1-7/8"           | 6    | 39.48 | 37.76 | 36.05  | 34.33 |
| 95882 | .2730   |                    | 6.934 | .2730" | 3-1/4" | 1-1/8" | 1-7/8"           | 6    | 39.48 | 37.76 | 36.05  | 34.33 |
| 95885 | .2740   |                    | 6.960 | .2740" | 3-1/4" | 1-1/8" | 1-7/8"           | 6    | 39.48 | 37.76 | 36.05  | 34.33 |
| 95888 | .2750   |                    | 6.985 | .2750" | 3-1/4" | 1-1/8" | 1-7/8"           | 6    | 39.48 | 37.76 | 36.05  | 34.33 |
| 95891 | .2756   |                    | 7.000 | .2756" | 3-1/4" | 1-1/8" | 1-7/8"           | 6    | 39.48 | 37.76 | 36.05  | 34.33 |
| 95894 | .2760   |                    | 7.010 | .2760" | 3-1/4" | 1-1/8" | 1-7/8"           | 6    | 39.48 | 37.76 | 36.05  | 34.33 |
| 95897 | .2770   | J                  | 7.036 | .2770" | 3-1/4" | 1-1/8" | 1-7/8"           | 6    | 39.48 | 37.76 | 36.05  | 34.33 |
| 95900 | .2780   |                    | 7.061 | .2780" | 3-1/4" | 1-1/8" | 1-7/8"           | 6    | 39.48 | 37.76 | 36.05  | 34.33 |
| 95903 | .2790   |                    | 7.087 | .2790" | 3-1/4" | 1-1/8" | 1-7/8"           | 6    | 39.48 | 37.76 | 36.05  | 34.33 |
| 95906 | .2800   |                    | 7.112 | .2800" | 3-1/4" | 1-1/8" | 1-7/8"           | 6    | 39.48 | 37.76 | 36.05  | 34.33 |
| 95909 | .2810   | K                  | 7.137 | .2810" | 3-1/4" | 1-1/8" | 1-7/8"           | 6    | 39.48 | 37.76 | 36.05  | 34.33 |
| 95912 | .2812   | 9/32"              | 7.142 | .2812" | 3-1/4" | 1-1/8" | 1-7/8"           | 6    | 39.48 | 37.76 | 36.05  | 34.33 |
| 95915 | .2820   |                    | 7.163 | .2820" | 3-1/4" | 1-1/8" | 1-7/8"           | 6    | 42.73 | 40.88 | 39.02  | 37.16 |
| 95918 | .2830   |                    | 7.188 | .2830" | 3-1/4" | 1-1/8" | 1-7/8"           | 6    | 42.73 | 40.88 | 39.02  | 37.16 |
| 95921 | .2840   |                    | 7.214 | .2840" | 3-1/4" | 1-1/8" | 1-7/8"           | 6    | 42.73 | 40.88 | 39.02  | 37.16 |
| 95924 | .2850   |                    | 7.239 | .2850" | 3-1/4" | 1-1/8" | 1-7/8"           | 6    | 42.73 | 40.88 | 39.02  | 37.16 |
| 95927 | .2860   |                    | 7.264 | .2860" | 3-1/4" | 1-1/8" | 1-7/8"           | 6    | 42.73 | 40.88 | 39.02  | 37.16 |
| 95930 | .2870   |                    | 7.290 | .2870" | 3-1/4" | 1-1/8" | 1-7/8"           | 6    | 42.73 | 40.88 | 39.02  | 37.16 |
| 95933 | .2880   |                    | 7.315 | .2880" | 3-1/4" | 1-1/8" | 1-7/8"           | 6    | 42.73 | 40.88 | 39.02  | 37.16 |
| 95936 | .2890   |                    | 7.341 | .2890" | 3-1/4" | 1-1/8" | 1-7/8"           | 6    | 43.06 | 41.18 | 39.31  | 37.44 |
| 95939 | .2900   | L                  | 7.366 | .2900" | 3-1/4" | 1-1/8" | 1-7/8"           | 6    | 43.06 | 41.18 | 39.31  | 37.44 |
| 95942 | .2910   |                    | 7.391 | .2910" | 3-1/4" | 1-1/8" | 1-7/8"           | 6    | 43.06 | 41.18 | 39.31  | 37.44 |
| 95945 | .2920   |                    | 7.417 | .2920" | 3-1/4" | 1-1/8" | 1-7/8"           | 6    | 43.06 | 41.18 | 39.31  | 37.44 |
| 95948 | .2930   |                    | 7.442 | .2930" | 3-1/4" | 1-1/8" | 1-7/8"           | 6    | 43.06 | 41.18 | 39.31  | 37.44 |
| 95951 | .2940   |                    | 7.468 | .2940" | 3-1/4" | 1-1/8" | 1-7/8"           | 6    | 43.06 | 41.18 | 39.31  | 37.44 |
| 95954 | .2950   | M                  | 7.493 | .2950" | 3-1/4" | 1-1/8" | 1-7/8"           | 6    | 43.06 | 41.18 | 39.31  | 37.44 |
| 95957 | .2953   |                    | 7.500 | .2953" | 3-1/4" | 1-1/8" | 1-7/8"           | 6    | 43.06 | 41.18 | 39.31  | 37.44 |
| 95960 | .2960   |                    | 7.518 | .2960" | 3-1/4" | 1-1/8" | 1-7/8"           | 6    | 43.06 | 41.18 | 39.31  | 37.44 |
| 95963 | .2969   | 19/64"             | 7.541 | .2969" | 3-1/4" | 1-1/8" | 1-7/8"           | 6    | 43.06 | 41.18 | 39.31  | 37.44 |
| 95966 | .2970   |                    | 7.544 | .2970" | 3-1/4" | 1-1/8" | 1-7/8"           | 6    | 43.06 | 41.18 | 39.31  | 37.44 |
| 95969 | .2980   |                    | 7.569 | .2980" | 3-1/4" | 1-1/8" | 1-7/8"           | 6    | 43.06 | 41.18 | 39.31  | 37.44 |
| 95972 | .2990   |                    | 7.595 | .2990" | 3-1/4" | 1-1/8" | 1-7/8"           | 6    | 43.06 | 41.18 | 39.31  | 37.44 |
| 95975 | .3000   |                    | 7.620 | .3000" | 3-1/4" | 1-1/8" | 1-7/8"           | 6    | 43.06 | 41.18 | 39.31  | 37.44 |
| 95978 | .3010   |                    | 7.645 | .3010" | 3-1/4" | 1-1/8" | 1-7/8"           | 6    | 43.06 | 41.18 | 39.31  | 37.44 |
| 95981 | .3020   | N                  | 7.671 | .3020" | 3-1/4" | 1-1/8" | 1-7/8"           | 6    | 43.06 | 41.18 | 39.31  | 37.44 |
| 95984 | .3030   |                    | 7.696 | .3030" | 3-1/4" | 1-1/8" | 1-7/8"           | 6    | 43.06 | 41.18 | 39.31  | 37.44 |
| 95987 | .3040   |                    | 7.722 | .3040" | 3-1/4" | 1-1/8" | 1-7/8"           | 6    | 43.06 | 41.18 | 39.31  | 37.44 |
| 95990 | .3050   |                    | 7.747 | .3050" | 3-1/4" | 1-1/8" | 1-7/8"           | 6    | 43.06 | 41.18 | 39.31  | 37.44 |
| 95993 | .3060   |                    | 7.772 | .3060" | 3-1/4" | 1-1/8" | 1-7/8"           | 6    | 43.06 | 41.18 | 39.31  | 37.44 |
| 95996 | .3070   |                    | 7.798 | .3070" | 3-1/4" | 1-1/8" | 1-7/8"           | 6    | 43.06 | 41.18 | 39.31  | 37.44 |

| EDP#  | $d1$ †<br>Diameter |        | $d2$<br>Shank<br>Diameter | $l1$<br>Overall<br>Length | $l2$<br>Flute<br>Length | $l3$<br>Reach<br>Length | Number<br>Flutes | 1-11 | 12-24 | 25-49 | 50-100 |       |
|-------|--------------------|--------|---------------------------|---------------------------|-------------------------|-------------------------|------------------|------|-------|-------|--------|-------|
|       | Decimal            | Metric |                           |                           |                         |                         |                  |      |       |       |        |       |
| 95999 | .3080              |        | 7.823                     | .3080"                    | 3-1/4"                  | 1-1/8"                  | 1-7/8"           | 6    | 43.06 | 41.18 | 39.31  | 37.44 |
| 96002 | .3090              |        | 7.849                     | .3090"                    | 3-1/4"                  | 1-1/8"                  | 1-7/8"           | 6    | 43.06 | 41.18 | 39.31  | 37.44 |
| 96005 | .3100              |        | 7.874                     | .3100"                    | 3-1/4"                  | 1-1/8"                  | 1-7/8"           | 6    | 43.06 | 41.18 | 39.31  | 37.44 |
| 96006 | .3105              |        | 7.887                     | .3105"                    | 3-1/4"                  | 1-1/8"                  | 1-7/8"           | 6    | 43.06 | 41.18 | 39.31  | 37.44 |
| 96008 | .3110              |        | 7.899                     | .3110"                    | 3-1/4"                  | 1-1/8"                  | 1-7/8"           | 6    | 43.06 | 41.18 | 39.31  | 37.44 |
| 96011 | .3115              |        | 7.912                     | .3115"                    | 3-1/4"                  | 1-1/8"                  | 1-7/8"           | 6    | 43.06 | 41.18 | 39.31  | 37.44 |
| 96014 | .3120              |        | 7.925                     | .3120"                    | 3-1/4"                  | 1-1/8"                  | 1-7/8"           | 6    | 43.06 | 41.18 | 39.31  | 37.44 |
| 96015 | .3123              |        | 7.932                     | .3123"                    | 3-1/4"                  | 1-1/8"                  | 1-7/8"           | 6    | 43.06 | 41.18 | 39.31  | 37.44 |
| 96017 | .3125              | 5/16"  | 7.938                     | .3125"                    | 3-1/4"                  | 1-1/8"                  | 1-7/8"           | 6    | 43.06 | 41.18 | 39.31  | 37.44 |
| 96021 | .3130              |        | 7.950                     | .3130"                    | 3-1/4"                  | 1-1/8"                  | 1-7/8"           | 6    | 43.06 | 41.18 | 39.31  | 37.44 |
| 96023 | .3135              |        | 7.963                     | .3135"                    | 3-1/4"                  | 1-1/8"                  | 1-7/8"           | 6    | 43.06 | 41.18 | 39.31  | 37.44 |
| 96026 | .3140              |        | 7.976                     | .3140"                    | 3-1/4"                  | 1-1/8"                  | 1-7/8"           | 6    | 43.06 | 41.18 | 39.31  | 37.44 |
| 96029 | .3150              |        | 8.000                     | .3150"                    | 3-1/4"                  | 1-1/8"                  | 1-7/8"           | 6    | 43.06 | 41.18 | 39.31  | 37.44 |
| 96032 | .3160              | O      | 8.026                     | .3160"                    | 3-1/4"                  | 1-1/8"                  | 1-7/8"           | 6    | 43.06 | 41.18 | 39.31  | 37.44 |
| 96035 | .3170              |        | 8.052                     | .3170"                    | 3-1/4"                  | 1-1/8"                  | 1-7/8"           | 6    | 43.06 | 41.18 | 39.31  | 37.44 |
| 96038 | .3180              |        | 8.077                     | .3180"                    | 3-1/4"                  | 1-1/8"                  | 1-7/8"           | 6    | 43.06 | 41.18 | 39.31  | 37.44 |
| 96041 | .3190              |        | 8.103                     | .3190"                    | 3-1/2"                  | 1-1/4"                  | 2"               | 6    | 53.05 | 50.74 | 48.44  | 46.13 |
| 96044 | .3200              |        | 8.128                     | .3200"                    | 3-1/2"                  | 1-1/4"                  | 2"               | 6    | 53.05 | 50.74 | 48.44  | 46.13 |
| 96047 | .3210              |        | 8.153                     | .3210"                    | 3-1/2"                  | 1-1/4"                  | 2"               | 6    | 53.05 | 50.74 | 48.44  | 46.13 |
| 96050 | .3220              |        | 8.179                     | .3220"                    | 3-1/2"                  | 1-1/4"                  | 2"               | 6    | 53.05 | 50.74 | 48.44  | 46.13 |
| 96053 | .3230              | P      | 8.204                     | .3230"                    | 3-1/2"                  | 1-1/4"                  | 2"               | 6    | 53.05 | 50.74 | 48.44  | 46.13 |
| 96056 | .3240              |        | 8.230                     | .3240"                    | 3-1/2"                  | 1-1/4"                  | 2"               | 6    | 53.05 | 50.74 | 48.44  | 46.13 |
| 96059 | .3250              |        | 8.255                     | .3250"                    | 3-1/2"                  | 1-1/4"                  | 2"               | 6    | 53.05 | 50.74 | 48.44  | 46.13 |
| 96062 | .3260              |        | 8.280                     | .3260"                    | 3-1/2"                  | 1-1/4"                  | 2"               | 6    | 53.05 | 50.74 | 48.44  | 46.13 |
| 96065 | .3270              |        | 8.306                     | .3270"                    | 3-1/2"                  | 1-1/4"                  | 2"               | 6    | 53.05 | 50.74 | 48.44  | 46.13 |
| 96068 | .3280              |        | 8.331                     | .3280"                    | 3-1/2"                  | 1-1/4"                  | 2"               | 6    | 53.05 | 50.74 | 48.44  | 46.13 |
| 96071 | .3281              | 21/64" | 8.334                     | .3281"                    | 3-1/2"                  | 1-1/4"                  | 2"               | 6    | 53.05 | 50.74 | 48.44  | 46.13 |
| 96074 | .3290              |        | 8.357                     | .3290"                    | 3-1/2"                  | 1-1/4"                  | 2"               | 6    | 53.05 | 50.74 | 48.44  | 46.13 |
| 96077 | .3300              |        | 8.382                     | .3300"                    | 3-1/2"                  | 1-1/4"                  | 2"               | 6    | 53.05 | 50.74 | 48.44  | 46.13 |
| 96079 | .3310              |        | 8.407                     | .3310"                    | 3-1/2"                  | 1-1/4"                  | 2"               | 6    | 53.05 | 50.74 | 48.44  | 46.13 |
| 96083 | .3320              | Q      | 8.433                     | .3320"                    | 3-1/2"                  | 1-1/4"                  | 2"               | 6    | 53.05 | 50.74 | 48.44  | 46.13 |
| 96086 | .3330              |        | 8.458                     | .3330"                    | 3-1/2"                  | 1-1/4"                  | 2"               | 6    | 53.05 | 50.74 | 48.44  | 46.13 |
| 96089 | .3340              |        | 8.484                     | .3340"                    | 3-1/2"                  | 1-1/4"                  | 2"               | 6    | 53.05 | 50.74 | 48.44  | 46.13 |
| 96092 | .3346              |        | 8.500                     | .3346"                    | 3-1/2"                  | 1-1/4"                  | 2"               | 6    | 53.05 | 50.74 | 48.44  | 46.13 |
| 96095 | .3350              |        | 8.509                     | .3350"                    | 3-1/2"                  | 1-1/4"                  | 2"               | 6    | 53.05 | 50.74 | 48.44  | 46.13 |
| 96098 | .3360              |        | 8.534                     | .3360"                    | 3-1/2"                  | 1-1/4"                  | 2"               | 6    | 53.05 | 50.74 | 48.44  | 46.13 |
| 96101 | .3370              |        | 8.560                     | .3370"                    | 3-1/2"                  | 1-1/4"                  | 2"               | 6    | 53.05 | 50.74 | 48.44  | 46.13 |
| 96104 | .3380              |        | 8.585                     | .3380"                    | 3-1/2"                  | 1-1/4"                  | 2"               | 6    | 53.05 | 50.74 | 48.44  | 46.13 |
| 96107 | .3390              | R      | 8.611                     | .3390"                    | 3-1/2"                  | 1-1/4"                  | 2"               | 6    | 53.05 | 50.74 | 48.44  | 46.13 |
| 96110 | .3400              |        | 8.636                     | .3400"                    | 3-1/2"                  | 1-1/4"                  | 2"               | 6    | 53.05 | 50.74 | 48.44  | 46.13 |
| 96113 | .3410              |        | 8.661                     | .3410"                    | 3-1/2"                  | 1-1/4"                  | 2"               | 6    | 53.05 | 50.74 | 48.44  | 46.13 |
| 96116 | .3420              |        | 8.687                     | .3420"                    | 3-1/2"                  | 1-1/4"                  | 2"               | 6    | 56.17 | 53.72 | 51.28  | 48.84 |
| 96119 | .3430              |        | 8.712                     | .3430"                    | 3-1/2"                  | 1-1/4"                  | 2"               | 6    | 56.17 | 53.72 | 51.28  | 48.84 |
| 96122 | .3438              | 11/32" | 8.733                     | .3438"                    | 3-1/2"                  | 1-1/4"                  | 2"               | 6    | 56.17 | 53.72 | 51.28  | 48.84 |
| 96125 | .3440              |        | 8.738                     | .3440"                    | 3-1/2"                  | 1-1/4"                  | 2"               | 6    | 56.17 | 53.72 | 51.28  | 48.84 |
| 96128 | .3450              |        | 8.763                     | .3450"                    | 3-1/2"                  | 1-1/4"                  | 2"               | 6    | 56.17 | 53.72 | 51.28  | 48.84 |
| 96131 | .3460              |        | 8.788                     | .3460"                    | 3-1/2"                  | 1-1/4"                  | 2"               | 6    | 56.17 | 53.72 | 51.28  | 48.84 |
| 96134 | .3470              |        | 8.814                     | .3470"                    | 3-1/2"                  | 1-1/4"                  | 2"               | 6    | 56.17 | 53.72 | 51.28  | 48.84 |

continued →

## Series 4100 (continued)

.3480" - .3810"  
(8.839mm - 9.677mm)



TECH  
PAGES  
314-315

## TOLERANCES

|       |                                    |                                      |
|-------|------------------------------------|--------------------------------------|
| $d_1$ | .0590" - .2509" (1.498 - 6.372mm)  | + .0002" - .0000" (+.0050 - .0000mm) |
|       | .2510" - .5020" (6.375 - 12.750mm) | + .0003" - .0000" (+.0075 - .0000mm) |
| $d_2$ | .0590" - .2509" (1.498 - 6.372mm)  | + .0002" - .0000" (+.0050 - .0000mm) |
|       | .2510" - .5020" (6.375 - 12.750mm) | + .0003" - .0000" (+.0075 - .0000mm) |



Solid Carbide Submicron Grain

Neck diameter is .010"  $\pm$ .002" less than ( $d_1$ ) fluted diameter

| EDP#  | $d_1$ †<br>Diameter |        | Metric | $d_2$<br>Shank<br>Diameter | $l_1$<br>Overall<br>Length | $l_2$<br>Flute<br>Length | $l_3$<br>Reach<br>Length | Number<br>Flutes | 1-11  | 12-24 | 25-49 | 50-100 |
|-------|---------------------|--------|--------|----------------------------|----------------------------|--------------------------|--------------------------|------------------|-------|-------|-------|--------|
|       | Decimal             |        |        |                            |                            |                          |                          |                  |       |       |       |        |
| 96137 | .3480               | S      | 8.839  | .3480"                     | 3-1/2"                     | 1-1/4"                   | 2"                       | 6                | 56.17 | 53.72 | 51.28 | 48.84  |
| 96141 | .3490               |        | 8.865  | .3490"                     | 3-1/2"                     | 1-1/4"                   | 2"                       | 6                | 56.17 | 53.72 | 51.28 | 48.84  |
| 96143 | .3500               |        | 8.890  | .3500"                     | 3-1/2"                     | 1-1/4"                   | 2"                       | 6                | 56.17 | 53.72 | 51.28 | 48.84  |
| 96146 | .3510               |        | 8.915  | .3510"                     | 3-1/2"                     | 1-1/4"                   | 2"                       | 6                | 56.17 | 53.72 | 51.28 | 48.84  |
| 96149 | .3520               |        | 8.941  | .3520"                     | 3-1/2"                     | 1-1/4"                   | 2"                       | 6                | 56.17 | 53.72 | 51.28 | 48.84  |
| 96152 | .3530               |        | 8.966  | .3530"                     | 3-1/2"                     | 1-1/4"                   | 2"                       | 6                | 56.17 | 53.72 | 51.28 | 48.84  |
| 96155 | .3540               |        | 8.992  | .3540"                     | 3-1/2"                     | 1-1/4"                   | 2"                       | 6                | 56.17 | 53.72 | 51.28 | 48.84  |
| 96158 | .3543               |        | 9.000  | .3543"                     | 3-1/2"                     | 1-1/4"                   | 2"                       | 6                | 56.17 | 53.72 | 51.28 | 48.84  |
| 96161 | .3550               |        | 9.017  | .3550"                     | 3-1/2"                     | 1-1/4"                   | 2"                       | 6                | 56.17 | 53.72 | 51.28 | 48.84  |
| 96164 | .3560               |        | 9.042  | .3560"                     | 3-1/2"                     | 1-1/4"                   | 2"                       | 6                | 56.17 | 53.72 | 51.28 | 48.84  |
| 96167 | .3570               |        | 9.068  | .3570"                     | 3-1/2"                     | 1-1/4"                   | 2"                       | 6                | 56.17 | 53.72 | 51.28 | 48.84  |
| 96170 | .3580               | T      | 9.093  | .3580"                     | 3-1/2"                     | 1-1/4"                   | 2"                       | 6                | 56.17 | 53.72 | 51.28 | 48.84  |
| 96173 | .3590               |        | 9.119  | .3590"                     | 3-1/2"                     | 1-1/4"                   | 2"                       | 6                | 56.17 | 53.72 | 51.28 | 48.84  |
| 96176 | .3594               | 23/64" | 9.129  | .3594"                     | 3-1/2"                     | 1-1/4"                   | 2"                       | 6                | 56.17 | 53.72 | 51.28 | 48.84  |
| 96179 | .3600               |        | 9.144  | .3600"                     | 3-1/2"                     | 1-1/4"                   | 2"                       | 6                | 56.17 | 53.72 | 51.28 | 48.84  |
| 96182 | .3610               |        | 9.169  | .3610"                     | 3-1/2"                     | 1-1/4"                   | 2"                       | 6                | 56.17 | 53.72 | 51.28 | 48.84  |
| 96185 | .3620               |        | 9.195  | .3620"                     | 3-1/2"                     | 1-1/4"                   | 2"                       | 6                | 56.17 | 53.72 | 51.28 | 48.84  |
| 96191 | .3640               |        | 9.246  | .3640"                     | 3-1/2"                     | 1-1/4"                   | 2"                       | 6                | 57.87 | 55.35 | 52.84 | 50.32  |
| 96194 | .3650               |        | 9.271  | .3650"                     | 3-1/2"                     | 1-1/4"                   | 2"                       | 6                | 57.87 | 55.35 | 52.84 | 50.32  |
| 96197 | .3660               |        | 9.296  | .3660"                     | 3-1/2"                     | 1-1/4"                   | 2"                       | 6                | 57.87 | 55.35 | 52.84 | 50.32  |
| 96199 | .3670               |        | 9.322  | .3670"                     | 3-1/2"                     | 1-1/4"                   | 2"                       | 6                | 57.87 | 55.35 | 52.84 | 50.32  |
| 96203 | .3680               | U      | 9.347  | .3680"                     | 3-1/2"                     | 1-1/4"                   | 2"                       | 6                | 57.87 | 55.35 | 52.84 | 50.32  |
| 96206 | .3690               |        | 9.373  | .3690"                     | 3-1/2"                     | 1-1/4"                   | 2"                       | 6                | 57.87 | 55.35 | 52.84 | 50.32  |
| 96209 | .3700               |        | 9.398  | .3700"                     | 3-1/2"                     | 1-1/4"                   | 2"                       | 6                | 57.87 | 55.35 | 52.84 | 50.32  |
| 96212 | .3710               |        | 9.423  | .3710"                     | 3-1/2"                     | 1-1/4"                   | 2"                       | 6                | 57.87 | 55.35 | 52.84 | 50.32  |
| 96215 | .3720               |        | 9.449  | .3720"                     | 3-1/2"                     | 1-1/4"                   | 2"                       | 6                | 57.87 | 55.35 | 52.84 | 50.32  |
| 96218 | .3730               |        | 9.474  | .3730"                     | 3-1/2"                     | 1-1/4"                   | 2"                       | 6                | 57.87 | 55.35 | 52.84 | 50.32  |
| 96221 | .3740               |        | 9.500  | .3740"                     | 3-1/2"                     | 1-1/4"                   | 2"                       | 6                | 57.87 | 55.35 | 52.84 | 50.32  |
| 96224 | .3745               |        | 9.512  | .3745"                     | 3-1/2"                     | 1-1/4"                   | 2"                       | 6                | 57.87 | 55.35 | 52.84 | 50.32  |
| 96225 | .3748               |        | 9.520  | .3748"                     | 3-1/2"                     | 1-1/4"                   | 2"                       | 6                | 57.87 | 55.35 | 52.84 | 50.32  |
| 96227 | .3750               | 3/8"   | 9.525  | .3750"                     | 3-1/2"                     | 1-1/4"                   | 2"                       | 6                | 57.87 | 55.35 | 52.84 | 50.32  |
| 96230 | .3755               |        | 9.538  | .3755"                     | 3-1/2"                     | 1-1/4"                   | 2"                       | 6                | 57.87 | 55.35 | 52.84 | 50.32  |
| 96233 | .3760               |        | 9.550  | .3760"                     | 3-1/2"                     | 1-1/4"                   | 2"                       | 6                | 57.87 | 55.35 | 52.84 | 50.32  |
| 96236 | .3765               |        | 9.563  | .3765"                     | 3-1/2"                     | 1-1/4"                   | 2"                       | 6                | 57.87 | 55.35 | 52.84 | 50.32  |
| 96239 | .3770               | V      | 9.576  | .3770"                     | 3-1/2"                     | 1-1/4"                   | 2"                       | 6                | 57.87 | 55.35 | 52.84 | 50.32  |
| 96242 | .3780               |        | 9.601  | .3780"                     | 3-1/2"                     | 1-1/4"                   | 2"                       | 6                | 67.86 | 64.91 | 61.96 | 59.01  |
| 96245 | .3790               |        | 9.627  | .3790"                     | 3-1/2"                     | 1-1/4"                   | 2"                       | 6                | 67.86 | 64.91 | 61.96 | 59.01  |
| 96248 | .3800               |        | 9.652  | .3800"                     | 3-1/2"                     | 1-1/4"                   | 2"                       | 6                | 67.86 | 64.91 | 61.96 | 59.01  |
| 96251 | .3810               |        | 9.677  | .3810"                     | 3-1/2"                     | 1-1/4"                   | 2"                       | 6                | 67.86 | 64.91 | 61.96 | 59.01  |

| 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>Reach<br>Length | Number<br>Flutes | 1-11  | 12-24 | 25-49 | 50-100 |
|-------|---------------------|---------------|----------------------------|----------------------------|--------------------------|--------------------------|------------------|-------|-------|-------|--------|
|       | Decimal             | Metric        |                            |                            |                          |                          |                  |       |       |       |        |
| 96254 | .3820               | 9.703         | .3820"                     | 3-1/2"                     | 1-1/4"                   | 2"                       | 6                | 67.86 | 64.91 | 61.96 | 59.01  |
| 96257 | .3830               | 9.728         | .3830"                     | 3-1/2"                     | 1-1/4"                   | 2"                       | 6                | 67.86 | 64.91 | 61.96 | 59.01  |
| 96260 | .3840               | 9.754         | .3840"                     | 3-1/2"                     | 1-1/4"                   | 2"                       | 6                | 67.86 | 64.91 | 61.96 | 59.01  |
| 96263 | .3850               | 9.779         | .3850"                     | 3-1/2"                     | 1-1/4"                   | 2"                       | 6                | 67.86 | 64.91 | 61.96 | 59.01  |
| 96266 | .3860               | W 9.804       | .3860"                     | 3-1/2"                     | 1-1/4"                   | 2"                       | 6                | 67.86 | 64.91 | 61.96 | 59.01  |
| 96269 | .3870               | 9.830         | .3870"                     | 3-1/2"                     | 1-1/4"                   | 2"                       | 6                | 67.86 | 64.91 | 61.96 | 59.01  |
| 96272 | .3880               | 9.855         | .3880"                     | 3-1/2"                     | 1-1/4"                   | 2"                       | 6                | 67.86 | 64.91 | 61.96 | 59.01  |
| 96275 | .3890               | 9.881         | .3890"                     | 3-1/2"                     | 1-1/4"                   | 2"                       | 6                | 67.86 | 64.91 | 61.96 | 59.01  |
| 96278 | .3900               | 9.906         | .3900"                     | 3-1/2"                     | 1-1/4"                   | 2"                       | 6                | 67.86 | 64.91 | 61.96 | 59.01  |
| 96281 | .3906               | 25/64" 9.921  | .3906"                     | 3-1/2"                     | 1-1/4"                   | 2"                       | 6                | 67.86 | 64.91 | 61.96 | 59.01  |
| 96284 | .3910               | 9.931         | .3910"                     | 3-1/2"                     | 1-1/4"                   | 2"                       | 6                | 67.86 | 64.91 | 61.96 | 59.01  |
| 96287 | .3920               | 9.957         | .3920"                     | 3-1/2"                     | 1-1/4"                   | 2"                       | 6                | 67.86 | 64.91 | 61.96 | 59.01  |
| 96290 | .3930               | 9.982         | .3930"                     | 3-1/2"                     | 1-1/4"                   | 2"                       | 6                | 67.86 | 64.91 | 61.96 | 59.01  |
| 96293 | .3937               | 10.000        | .3937"                     | 3-1/2"                     | 1-1/4"                   | 2"                       | 6                | 70.27 | 67.21 | 64.16 | 61.10  |
| 96296 | .3940               | 10.008        | .3940"                     | 3-1/2"                     | 1-1/4"                   | 2"                       | 6                | 70.27 | 67.21 | 64.16 | 61.10  |
| 96299 | .3950               | 10.033        | .3950"                     | 3-1/2"                     | 1-1/4"                   | 2"                       | 6                | 70.27 | 67.21 | 64.16 | 61.10  |
| 96302 | .3960               | 10.058        | .3960"                     | 3-1/2"                     | 1-1/4"                   | 2"                       | 6                | 70.27 | 67.21 | 64.16 | 61.10  |
| 96305 | .3970               | X 10.084      | .3970"                     | 3-1/2"                     | 1-1/4"                   | 2"                       | 6                | 70.27 | 67.21 | 64.16 | 61.10  |
| 96308 | .3980               | 10.109        | .3980"                     | 3-1/2"                     | 1-1/4"                   | 2"                       | 6                | 70.27 | 67.21 | 64.16 | 61.10  |
| 96311 | .3990               | 10.135        | .3990"                     | 3-1/2"                     | 1-1/4"                   | 2"                       | 6                | 70.27 | 67.21 | 64.16 | 61.10  |
| 96314 | .4000               | 10.160        | .4000"                     | 3-1/2"                     | 1-1/4"                   | 2"                       | 6                | 70.27 | 67.21 | 64.16 | 61.10  |
| 96317 | .4010               | 10.185        | .4010"                     | 3-1/2"                     | 1-1/4"                   | 2"                       | 6                | 70.27 | 67.21 | 64.16 | 61.10  |
| 96319 | .4020               | 10.211        | .4020"                     | 3-1/2"                     | 1-1/4"                   | 2"                       | 6                | 70.27 | 67.21 | 64.16 | 61.10  |
| 96323 | .4030               | 10.236        | .4030"                     | 3-1/2"                     | 1-1/4"                   | 2"                       | 6                | 70.27 | 67.21 | 64.16 | 61.10  |
| 96326 | .4040               | Y 10.262      | .4040"                     | 3-1/2"                     | 1-1/4"                   | 2"                       | 6                | 70.27 | 67.21 | 64.16 | 61.10  |
| 96329 | .4050               | 10.287        | .4050"                     | 3-1/2"                     | 1-1/4"                   | 2"                       | 6                | 70.27 | 67.21 | 64.16 | 61.10  |
| 96332 | .4060               | 10.312        | .4060"                     | 3-1/2"                     | 1-1/4"                   | 2"                       | 6                | 70.27 | 67.21 | 64.16 | 61.10  |
| 96335 | .4062               | 13/32" 10.317 | .4062"                     | 3-1/2"                     | 1-1/4"                   | 2"                       | 6                | 70.27 | 67.21 | 64.16 | 61.10  |
| 96338 | .4070               | 10.338        | .4070"                     | 3-1/2"                     | 1-1/4"                   | 2"                       | 6                | 70.27 | 67.21 | 64.16 | 61.10  |
| 96341 | .4080               | 10.363        | .4080"                     | 3-1/2"                     | 1-1/4"                   | 2"                       | 6                | 70.27 | 67.21 | 64.16 | 61.10  |
| 96344 | .4090               | 10.389        | .4090"                     | 3-1/2"                     | 1-1/4"                   | 2"                       | 6                | 70.27 | 67.21 | 64.16 | 61.10  |
| 96347 | .4100               | 10.414        | .4100"                     | 3-1/2"                     | 1-1/4"                   | 2"                       | 6                | 70.27 | 67.21 | 64.16 | 61.10  |
| 96350 | .4110               | 10.439        | .4110"                     | 3-1/2"                     | 1-1/4"                   | 2"                       | 6                | 72.73 | 69.56 | 66.40 | 63.24  |
| 96353 | .4120               | 10.465        | .4120"                     | 3-1/2"                     | 1-1/4"                   | 2"                       | 6                | 72.73 | 69.56 | 66.40 | 63.24  |
| 96356 | .4130               | Z 10.490      | .4130"                     | 3-1/2"                     | 1-1/4"                   | 2"                       | 6                | 72.73 | 69.56 | 66.40 | 63.24  |
| 96359 | .4134               | 10.500        | .4134"                     | 3-1/2"                     | 1-1/4"                   | 2"                       | 6                | 72.73 | 69.56 | 66.40 | 63.24  |
| 96362 | .4140               | 10.516        | .4140"                     | 3-1/2"                     | 1-1/4"                   | 2"                       | 6                | 72.73 | 69.56 | 66.40 | 63.24  |
| 96365 | .4150               | 10.541        | .4150"                     | 3-1/2"                     | 1-1/4"                   | 2"                       | 6                | 72.73 | 69.56 | 66.40 | 63.24  |
| 96366 | .4160               | 10.566        | .4160"                     | 4"                         | 1-3/8"                   | 2-1/8"                   | 6                | 72.73 | 69.56 | 66.40 | 63.24  |
| 96367 | .4170               | 10.592        | .4170"                     | 4"                         | 1-3/8"                   | 2-1/8"                   | 6                | 72.73 | 69.56 | 66.40 | 63.24  |
| 96369 | .4190               | 10.643        | .4190"                     | 4"                         | 1-3/8"                   | 2-1/8"                   | 6                | 72.73 | 69.56 | 66.40 | 63.24  |
| 96374 | .4210               | 10.693        | .4210"                     | 4"                         | 1-3/8"                   | 2-1/8"                   | 6                | 72.73 | 69.56 | 66.40 | 63.24  |
| 96377 | .4219               | 27/64" 10.716 | .4219"                     | 4"                         | 1-3/8"                   | 2-1/8"                   | 6                | 72.73 | 69.56 | 66.40 | 63.24  |
| 96380 | .4220               | 10.719        | .4220"                     | 4"                         | 1-3/8"                   | 2-1/8"                   | 6                | 72.73 | 69.56 | 66.40 | 63.24  |
| 96383 | .4230               | 10.744        | .4230"                     | 4"                         | 1-3/8"                   | 2-1/8"                   | 6                | 72.73 | 69.56 | 66.40 | 63.24  |
| 96386 | .4240               | 10.770        | .4240"                     | 4"                         | 1-3/8"                   | 2-1/8"                   | 6                | 72.73 | 69.56 | 66.40 | 63.24  |

continued →

## Series 4100 (continued)

.4250" - .4724"  
(10.795mm - 12.000mm)

| 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>Reach<br>Length | Number<br>Flutes | 1-11  | 12-24 | 25-49 | 50-100 |
|-------|---------------------|--------|----------------------------|----------------------------|--------------------------|--------------------------|------------------|-------|-------|-------|--------|
|       | Decimal             | Metric |                            |                            |                          |                          |                  |       |       |       |        |
| 96389 | .4250               | 10.795 | .4250"                     | 4"                         | 1-3/8"                   | 2-1/8"                   | 6                | 72.73 | 69.56 | 66.40 | 63.24  |
| 96392 | .4260               | 10.820 | .4260"                     | 4"                         | 1-3/8"                   | 2-1/8"                   | 6                | 72.73 | 69.56 | 66.40 | 63.24  |
| 96395 | .4270               | 10.846 | .4270"                     | 4"                         | 1-3/8"                   | 2-1/8"                   | 6                | 72.73 | 69.56 | 66.40 | 63.24  |
| 96398 | .4280               | 10.871 | .4280"                     | 4"                         | 1-3/8"                   | 2-1/8"                   | 6                | 72.73 | 69.56 | 66.40 | 63.24  |
| 96404 | .4300               | 10.922 | .4300"                     | 4"                         | 1-3/8"                   | 2-1/8"                   | 6                | 72.73 | 69.56 | 66.40 | 63.24  |
| 96407 | .4310               | 10.947 | .4310"                     | 4"                         | 1-3/8"                   | 2-1/8"                   | 6                | 72.73 | 69.56 | 66.40 | 63.24  |
| 96410 | .4320               | 10.973 | .4320"                     | 4"                         | 1-3/8"                   | 2-1/8"                   | 6                | 72.73 | 69.56 | 66.40 | 63.24  |
| 96413 | .4330               | 10.998 | .4330"                     | 4"                         | 1-3/8"                   | 2-1/8"                   | 6                | 72.73 | 69.56 | 66.40 | 63.24  |
| 96416 | .4331               | 11.000 | .4331"                     | 4"                         | 1-3/8"                   | 2-1/8"                   | 6                | 72.73 | 69.56 | 66.40 | 63.24  |
| 96419 | .4340               | 11.024 | .4340"                     | 4"                         | 1-3/8"                   | 2-1/8"                   | 6                | 72.73 | 69.56 | 66.40 | 63.24  |
| 96422 | .4350               | 11.049 | .4350"                     | 4"                         | 1-3/8"                   | 2-1/8"                   | 6                | 72.73 | 69.56 | 66.40 | 63.24  |
| 96425 | .4360               | 11.074 | .4360"                     | 4"                         | 1-3/8"                   | 2-1/8"                   | 6                | 72.73 | 69.56 | 66.40 | 63.24  |
| 96428 | .4365               | 11.087 | .4365"                     | 4"                         | 1-3/8"                   | 2-1/8"                   | 6                | 72.73 | 69.56 | 66.40 | 63.24  |
| 96431 | .4370               | 11.100 | .4370"                     | 4"                         | 1-3/8"                   | 2-1/8"                   | 6                | 72.73 | 69.56 | 66.40 | 63.24  |
| 96432 | .4373               | 11.107 | .4373"                     | 4"                         | 1-3/8"                   | 2-1/8"                   | 6                | 72.73 | 69.56 | 66.40 | 63.24  |
| 96434 | .4375               | 7/16"  | .4375"                     | 4"                         | 1-3/8"                   | 2-1/8"                   | 6                | 72.73 | 69.56 | 66.40 | 63.24  |
| 96437 | .4380               | 11.125 | .4380"                     | 4"                         | 1-3/8"                   | 2-1/8"                   | 6                | 77.96 | 74.57 | 71.18 | 67.79  |
| 96440 | .4385               | 11.138 | .4385"                     | 4"                         | 1-3/8"                   | 2-1/8"                   | 6                | 77.96 | 74.57 | 71.18 | 67.79  |
| 96443 | .4390               | 11.151 | .4390"                     | 4"                         | 1-3/8"                   | 2-1/8"                   | 6                | 77.96 | 74.57 | 71.18 | 67.79  |
| 96446 | .4400               | 11.176 | .4400"                     | 4"                         | 1-3/8"                   | 2-1/8"                   | 6                | 77.96 | 74.57 | 71.18 | 67.79  |
| 96449 | .4410               | 11.201 | .4410"                     | 4"                         | 1-3/8"                   | 2-1/8"                   | 6                | 77.96 | 74.57 | 71.18 | 67.79  |
| 96455 | .4430               | 11.252 | .4430"                     | 4"                         | 1-3/8"                   | 2-1/8"                   | 6                | 77.96 | 74.57 | 71.18 | 67.79  |
| 96458 | .4440               | 11.278 | .4440"                     | 4"                         | 1-3/8"                   | 2-1/8"                   | 6                | 77.96 | 74.57 | 71.18 | 67.79  |
| 96461 | .4450               | 11.303 | .4450"                     | 4"                         | 1-3/8"                   | 2-1/8"                   | 6                | 77.96 | 74.57 | 71.18 | 67.79  |
| 96467 | .4470               | 11.354 | .4470"                     | 4"                         | 1-3/8"                   | 2-1/8"                   | 6                | 77.96 | 74.57 | 71.18 | 67.79  |
| 96470 | .4480               | 11.379 | .4480"                     | 4"                         | 1-3/8"                   | 2-1/8"                   | 6                | 77.96 | 74.57 | 71.18 | 67.79  |
| 96473 | .4490               | 11.405 | .4490"                     | 4"                         | 1-3/8"                   | 2-1/8"                   | 6                | 77.96 | 74.57 | 71.18 | 67.79  |
| 96476 | .4500               | 11.430 | .4500"                     | 4"                         | 1-3/8"                   | 2-1/8"                   | 6                | 77.96 | 74.57 | 71.18 | 67.79  |
| 96479 | .4510               | 11.455 | .4510"                     | 4"                         | 1-3/8"                   | 2-1/8"                   | 6                | 77.96 | 74.57 | 71.18 | 67.79  |
| 96485 | .4528               | 11.500 | .4528"                     | 4"                         | 1-3/8"                   | 2-1/8"                   | 6                | 77.96 | 74.57 | 71.18 | 67.79  |
| 96488 | .4530               | 11.506 | .4530"                     | 4"                         | 1-3/8"                   | 2-1/8"                   | 6                | 77.96 | 74.57 | 71.18 | 67.79  |
| 96491 | .4531               | 29/64" | .4531"                     | 4"                         | 1-3/8"                   | 2-1/8"                   | 6                | 77.96 | 74.57 | 71.18 | 67.79  |
| 96494 | .4540               | 11.532 | .4540"                     | 4"                         | 1-3/8"                   | 2-1/8"                   | 6                | 77.96 | 74.57 | 71.18 | 67.79  |
| 96497 | .4550               | 11.557 | .4550"                     | 4"                         | 1-3/8"                   | 2-1/8"                   | 6                | 77.96 | 74.57 | 71.18 | 67.79  |
| 96500 | .4560               | 11.582 | .4560"                     | 4"                         | 1-3/8"                   | 2-1/8"                   | 6                | 77.96 | 74.57 | 71.18 | 67.79  |
| 96503 | .4570               | 11.608 | .4570"                     | 4"                         | 1-3/8"                   | 2-1/8"                   | 6                | 77.96 | 74.57 | 71.18 | 67.79  |
| 96506 | .4580               | 11.633 | .4580"                     | 4"                         | 1-3/8"                   | 2-1/8"                   | 6                | 77.96 | 74.57 | 71.18 | 67.79  |
| 96512 | .4600               | 11.684 | .4600"                     | 4"                         | 1-3/8"                   | 2-1/8"                   | 6                | 77.96 | 74.57 | 71.18 | 67.79  |
| 96515 | .4610               | 11.709 | .4610"                     | 4"                         | 1-3/8"                   | 2-1/8"                   | 6                | 80.30 | 76.81 | 73.32 | 69.83  |
| 96527 | .4650               | 11.811 | .4650"                     | 4"                         | 1-3/8"                   | 2-1/8"                   | 6                | 80.30 | 76.81 | 73.32 | 69.83  |
| 96530 | .4660               | 11.836 | .4660"                     | 4"                         | 1-3/8"                   | 2-1/8"                   | 6                | 80.30 | 76.81 | 73.32 | 69.83  |
| 96533 | .4670               | 11.862 | .4670"                     | 4"                         | 1-3/8"                   | 2-1/8"                   | 6                | 80.30 | 76.81 | 73.32 | 69.83  |
| 96539 | .4688               | 15/32" | .4688"                     | 4"                         | 1-3/8"                   | 2-1/8"                   | 6                | 80.30 | 76.81 | 73.32 | 69.83  |
| 96542 | .4690               | 11.913 | .4690"                     | 4"                         | 1-3/8"                   | 2-1/8"                   | 6                | 80.30 | 76.81 | 73.32 | 69.83  |
| 96545 | .4700               | 11.938 | .4700"                     | 4"                         | 1-1/2"                   | 2-1/4"                   | 6                | 80.30 | 76.81 | 73.32 | 69.83  |
| 96548 | .4710               | 11.963 | .4710"                     | 4"                         | 1-1/2"                   | 2-1/4"                   | 6                | 80.30 | 76.81 | 73.32 | 69.83  |
| 96551 | .4720               | 11.989 | .4720"                     | 4"                         | 1-1/2"                   | 2-1/4"                   | 6                | 80.30 | 76.81 | 73.32 | 69.83  |
| 96554 | .4724               | 12.000 | .4724"                     | 4"                         | 1-1/2"                   | 2-1/4"                   | 6                | 80.30 | 76.81 | 73.32 | 69.83  |

| 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>Reach<br>Length | Number<br>Flutes | 1-11  | 12-24 | 25-49 | 50-100 |
|-------|---------------------|--------|----------------------------|----------------------------|--------------------------|--------------------------|------------------|-------|-------|-------|--------|
|       | Decimal             | Metric |                            |                            |                          |                          |                  |       |       |       |        |
| 96557 | .4730               | 12.014 | .4730"                     | 4"                         | 1-1/2"                   | 2-1/4"                   | 6                | 80.30 | 76.81 | 73.32 | 69.83  |
| 96561 | .4740               | 12.040 | .4740"                     | 4"                         | 1-1/2"                   | 2-1/4"                   | 6                | 80.30 | 76.81 | 73.32 | 69.83  |
| 96563 | .4750               | 12.065 | .4750"                     | 4"                         | 1-1/2"                   | 2-1/4"                   | 6                | 80.30 | 76.81 | 73.32 | 69.83  |
| 96566 | .4760               | 12.090 | .4760"                     | 4"                         | 1-1/2"                   | 2-1/4"                   | 6                | 80.30 | 76.81 | 73.32 | 69.83  |
| 96569 | .4770               | 12.116 | .4770"                     | 4"                         | 1-1/2"                   | 2-1/4"                   | 6                | 80.30 | 76.81 | 73.32 | 69.83  |
| 96572 | .4780               | 12.141 | .4780"                     | 4"                         | 1-1/2"                   | 2-1/4"                   | 6                | 80.30 | 76.81 | 73.32 | 69.83  |
| 96578 | .4800               | 12.192 | .4800"                     | 4"                         | 1-1/2"                   | 2-1/4"                   | 6                | 82.05 | 78.49 | 74.92 | 71.35  |
| 96581 | .4810               | 12.217 | .4810"                     | 4"                         | 1-1/2"                   | 2-1/4"                   | 6                | 82.05 | 78.49 | 74.92 | 71.35  |
| 96584 | .4820               | 12.243 | .4820"                     | 4"                         | 1-1/2"                   | 2-1/4"                   | 6                | 82.05 | 78.49 | 74.92 | 71.35  |
| 96590 | .4840               | 12.294 | .4840"                     | 4"                         | 1-1/2"                   | 2-1/4"                   | 6                | 82.05 | 78.49 | 74.92 | 71.35  |
| 96593 | .4844    31/64"     | 12.304 | .4844"                     | 4"                         | 1-1/2"                   | 2-1/4"                   | 6                | 82.05 | 78.49 | 74.92 | 71.35  |
| 96596 | .4850               | 12.319 | .4850"                     | 4"                         | 1-1/2"                   | 2-1/4"                   | 6                | 82.05 | 78.49 | 74.92 | 71.35  |
| 96602 | .4870               | 12.370 | .4870"                     | 4"                         | 1-1/2"                   | 2-1/4"                   | 6                | 82.05 | 78.49 | 74.92 | 71.35  |
| 96608 | .4890               | 12.421 | .4890"                     | 4"                         | 1-1/2"                   | 2-1/4"                   | 6                | 82.05 | 78.49 | 74.92 | 71.35  |
| 96617 | .4920               | 12.497 | .4920"                     | 4"                         | 1-1/2"                   | 2-1/4"                   | 6                | 82.05 | 78.49 | 74.92 | 71.35  |
| 96620 | .4921               | 12.500 | .4921"                     | 4"                         | 1-1/2"                   | 2-1/4"                   | 6                | 82.05 | 78.49 | 74.92 | 71.35  |
| 96623 | .4930               | 12.522 | .4930"                     | 4"                         | 1-1/2"                   | 2-1/4"                   | 6                | 82.05 | 78.49 | 74.92 | 71.35  |
| 96629 | .4950               | 12.573 | .4950"                     | 4"                         | 1-1/2"                   | 2-1/4"                   | 6                | 82.05 | 78.49 | 74.92 | 71.35  |
| 96632 | .4960               | 12.598 | .4960"                     | 4"                         | 1-1/2"                   | 2-1/4"                   | 6                | 82.05 | 78.49 | 74.92 | 71.35  |
| 96635 | .4970               | 12.624 | .4970"                     | 4"                         | 1-1/2"                   | 2-1/4"                   | 6                | 82.05 | 78.49 | 74.92 | 71.35  |
| 96638 | .4980               | 12.649 | .4980"                     | 4"                         | 1-1/2"                   | 2-1/4"                   | 6                | 82.05 | 78.49 | 74.92 | 71.35  |
| 96641 | .4990               | 12.675 | .4990"                     | 4"                         | 1-1/2"                   | 2-1/4"                   | 6                | 82.05 | 78.49 | 74.92 | 71.35  |
| 96644 | .4995               | 12.687 | .4995"                     | 4"                         | 1-1/2"                   | 2-1/4"                   | 6                | 82.05 | 78.49 | 74.92 | 71.35  |
| 96645 | .4998               | 12.695 | .4998"                     | 4"                         | 1-1/2"                   | 2-1/4"                   | 6                | 82.05 | 78.49 | 74.92 | 71.35  |
| 96647 | .5000    1/2"       | 12.700 | .5000"                     | 4"                         | 1-1/2"                   | 2-1/4"                   | 6                | 82.05 | 78.49 | 74.92 | 71.35  |
| 96650 | .5005               | 12.713 | .5005"                     | 4"                         | 1-1/2"                   | 2-1/4"                   | 6                | 82.05 | 78.49 | 74.92 | 71.35  |
| 96653 | .5010               | 12.725 | .5010"                     | 4"                         | 1-1/2"                   | 2-1/4"                   | 6                | 82.05 | 78.49 | 74.92 | 71.35  |
| 96656 | .5020               | 12.751 | .5020"                     | 4"                         | 1-1/2"                   | 2-1/4"                   | 6                | 82.05 | 78.49 | 74.92 | 71.35  |

## Series 4100 (Metric)

1.990mm - 10.040mm  
(.07835" - .39528")



## TOLERANCES

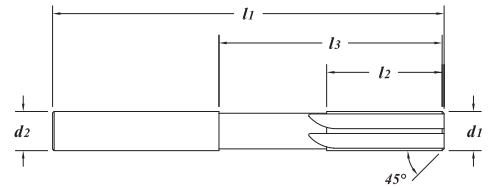
|       |                  |                   |
|-------|------------------|-------------------|
| $d_1$ | 1.500 - 6.372mm  | +0.005mm - .000   |
|       | 6.375 - 12.750mm | +0.0075mm - .0000 |
| $d_2$ | 1.500 - 6.372mm  | +0.005mm - .000   |
|       | 6.375 - 12.750mm | +0.0075mm - .0000 |

Solid Carbide Submicron Grain

Straight - RHC Flutes

Standard 45° Lead Chamfer

Neck diameter is 0.25mm  $\pm$ 0.05 less than ( $d_1$ ) fluted diameter



| EDP#  | $d_1$   |        | $d_2$<br>Shank<br>Diameter | $l_1$<br>Overall<br>Length | $l_2$<br>Flute<br>Length | $l_3$<br>Reach<br>Length | Number<br>Flutes | 1-11  | 12-24 | 25-49 | 50-100 |
|-------|---------|--------|----------------------------|----------------------------|--------------------------|--------------------------|------------------|-------|-------|-------|--------|
|       | Decimal | Metric |                            |                            |                          |                          |                  |       |       |       |        |
| 96659 | .07835  | 1.990  | 1.990                      | 50                         | 12                       | 32                       | 4                | 15.27 | 14.61 | 13.94 | 13.28  |
| 96662 | .07874  | 2.000  | 2.000                      | 50                         | 12                       | 32                       | 4                | 15.27 | 14.61 | 13.94 | 13.28  |
| 96665 | .07913  | 2.010  | 2.010                      | 50                         | 12                       | 32                       | 4                | 15.27 | 14.61 | 13.94 | 13.28  |
| 96668 | .07953  | 2.020  | 2.020                      | 50                         | 12                       | 32                       | 4                | 15.27 | 14.61 | 13.94 | 13.28  |
| 96671 | .11772  | 2.990  | 2.990                      | 65                         | 16                       | 36                       | 4                | 18.76 | 17.94 | 17.13 | 16.31  |
| 96674 | .11811  | 3.000  | 3.000                      | 65                         | 16                       | 36                       | 4                | 18.76 | 17.94 | 17.13 | 16.31  |
| 96677 | .11850  | 3.010  | 3.010                      | 65                         | 16                       | 36                       | 4                | 18.76 | 17.94 | 17.13 | 16.31  |
| 96680 | .11890  | 3.020  | 3.020                      | 65                         | 16                       | 36                       | 4                | 18.76 | 17.94 | 17.13 | 16.31  |
| 96683 | .15709  | 3.990  | 3.990                      | 75                         | 20                       | 45                       | 4                | 25.35 | 24.24 | 23.14 | 22.04  |
| 96686 | .15748  | 4.000  | 4.000                      | 75                         | 20                       | 45                       | 4                | 25.35 | 24.24 | 23.14 | 22.04  |
| 96689 | .15787  | 4.010  | 4.010                      | 75                         | 20                       | 45                       | 4                | 25.35 | 24.24 | 23.14 | 22.04  |
| 96692 | .15827  | 4.020  | 4.020                      | 75                         | 20                       | 45                       | 4                | 25.35 | 24.24 | 23.14 | 22.04  |
| 96695 | .15866  | 4.030  | 4.030                      | 75                         | 20                       | 45                       | 4                | 25.35 | 24.24 | 23.14 | 22.04  |
| 96698 | .19646  | 4.990  | 4.990                      | 100                        | 25                       | 60                       | 4                | 32.45 | 31.04 | 29.63 | 28.22  |
| 96701 | .19685  | 5.000  | 5.000                      | 100                        | 25                       | 60                       | 4                | 32.45 | 31.04 | 29.63 | 28.22  |
| 96704 | .19724  | 5.010  | 5.010                      | 100                        | 25                       | 60                       | 4                | 32.45 | 31.04 | 29.63 | 28.22  |
| 96707 | .19764  | 5.020  | 5.020                      | 100                        | 25                       | 60                       | 4                | 32.45 | 31.04 | 29.63 | 28.22  |
| 96710 | .19803  | 5.030  | 5.030                      | 100                        | 25                       | 60                       | 4                | 32.45 | 31.04 | 29.63 | 28.22  |
| 96713 | .23583  | 5.990  | 5.990                      | 100                        | 25                       | 60                       | 4                | 39.41 | 37.70 | 35.98 | 34.27  |
| 96716 | .23622  | 6.000  | 6.000                      | 100                        | 25                       | 60                       | 4                | 39.41 | 37.70 | 35.98 | 34.27  |
| 96719 | .23661  | 6.010  | 6.010                      | 100                        | 25                       | 60                       | 4                | 39.41 | 37.70 | 35.98 | 34.27  |
| 96722 | .23701  | 6.020  | 6.020                      | 100                        | 25                       | 60                       | 4                | 39.41 | 37.70 | 35.98 | 34.27  |
| 96725 | .27559  | 7.000  | 7.000                      | 100                        | 25                       | 60                       | 6                | 45.47 | 43.49 | 41.52 | 39.54  |
| 96728 | .31457  | 7.990  | 7.990                      | 120                        | 32                       | 75                       | 6                | 54.68 | 52.31 | 49.93 | 47.55  |
| 96731 | .31496  | 8.000  | 8.000                      | 120                        | 32                       | 75                       | 6                | 54.68 | 52.31 | 49.93 | 47.55  |
| 96734 | .31535  | 8.010  | 8.010                      | 120                        | 32                       | 75                       | 6                | 54.68 | 52.31 | 49.93 | 47.55  |
| 96737 | .31575  | 8.020  | 8.020                      | 120                        | 32                       | 75                       | 6                | 54.68 | 52.31 | 49.93 | 47.55  |
| 96740 | .31614  | 8.030  | 8.030                      | 120                        | 32                       | 75                       | 6                | 54.68 | 52.31 | 49.93 | 47.55  |
| 96743 | .35433  | 9.000  | 9.000                      | 120                        | 32                       | 75                       | 6                | 68.84 | 65.85 | 62.85 | 59.86  |
| 96746 | .39291  | 9.980  | 9.980                      | 130                        | 32                       | 75                       | 6                | 80.83 | 77.32 | 73.80 | 70.29  |
| 96749 | .39331  | 9.990  | 9.990                      | 130                        | 32                       | 75                       | 6                | 80.83 | 77.32 | 73.80 | 70.29  |
| 96752 | .39370  | 10.000 | 10.000                     | 130                        | 32                       | 75                       | 6                | 85.05 | 81.36 | 77.66 | 73.96  |
| 96755 | .39409  | 10.010 | 10.010                     | 130                        | 32                       | 75                       | 6                | 85.05 | 81.36 | 77.66 | 73.96  |
| 96758 | .39449  | 10.020 | 10.020                     | 130                        | 32                       | 75                       | 6                | 85.05 | 81.36 | 77.66 | 73.96  |
| 96761 | .39488  | 10.030 | 10.030                     | 130                        | 32                       | 75                       | 6                | 85.05 | 81.36 | 77.66 | 73.96  |
| 96764 | .39528  | 10.040 | 10.040                     | 130                        | 32                       | 75                       | 6                | 85.05 | 81.36 | 77.66 | 73.96  |

| EDP#  | $d_1$   |        | $d_2$             | $l_1$             | $l_2$           | $l_3$           | Number<br>Flutes | 1-11  | 12-24 | 25-49 | 50-100 |
|-------|---------|--------|-------------------|-------------------|-----------------|-----------------|------------------|-------|-------|-------|--------|
|       | Decimal | Metric | Shank<br>Diameter | Overall<br>Length | Flute<br>Length | Reach<br>Length |                  |       |       |       |        |
| 96767 | .47165  | 11.980 | 11.980            | 150               | 40              | 100             | 6                | 97.38 | 93.15 | 88.91 | 84.68  |
| 96770 | .47205  | 11.990 | 11.990            | 150               | 40              | 100             | 6                | 97.38 | 93.15 | 88.91 | 84.68  |
| 96773 | .47244  | 12.000 | 12.000            | 150               | 40              | 100             | 6                | 97.38 | 93.15 | 88.91 | 84.68  |
| 96776 | .47283  | 12.010 | 12.010            | 150               | 40              | 100             | 6                | 97.38 | 93.15 | 88.91 | 84.68  |
| 96779 | .47323  | 12.020 | 12.020            | 150               | 40              | 100             | 6                | 97.38 | 93.15 | 88.91 | 84.68  |
| 96782 | .47362  | 12.030 | 12.030            | 150               | 40              | 100             | 6                | 97.38 | 93.15 | 88.91 | 84.68  |



LHS / RHC

STR / RHC

RHS / RHC

## Special Reamers - Solid Carbide - 2 Week Delivery

Solid Carbide Submicron Grain

All reamers furnished with a standard 45° Lead Chamfer

All reamers furnished with a standard neck for reach

Neck diameter is .010" ±.002" less than fluted diameter

| Diameter        |                 | Overall<br>Length | Flute<br>Length | No. of<br>Flutes |
|-----------------|-----------------|-------------------|-----------------|------------------|
| Decimal         | Metric          |                   |                 |                  |
| .0590" - .0650" | 1.499 - 1.651   | 1-1/2"            | 3/8"            | 4                |
| .0660" - .0800" | 1.676 - 2.032   | 1-3/4"            | 1/2"            | 4                |
| .0810" - .0950" | 2.057 - 2.413   | 2"                | 1/2"            | 4                |
| .0960" - .1300" | 2.438 - 3.302   | 2-1/4"            | 5/8"            | 4                |
| .1310" - .1590" | 3.327 - 4.039   | 2-1/2"            | 3/4"            | 4                |
| .1600" - .1950" | 4.064 - 4.953   | 2-3/4"            | 7/8"            | 4                |
| .1960" - .2540" | 4.978 - 6.452   | 3"                | 1"              | 4                |
| .2550" - .3180" | 6.477 - 8.077   | 3-1/4"            | 1-1/8"          | 6                |
| .3190" - .4150" | 8.103 - 10.541  | 3-1/2"            | 1-1/4"          | 6                |
| .4160" - .4690" | 10.566 - 11.913 | 4"                | 1-3/8"          | 6                |
| .4700" - .5020" | 11.938 - 12.751 | 4"                | 1-1/2"          | 6                |
| .5030" - .5700" | 12.776 - 14.478 | 4"                | 1-5/8"          | 6                |
| .5710" - .7500" | 14.503 - 19.050 | 4"                | 1-3/4"          | 6                |