

Series A3 **NEW SERIES** HIGH EFFICIENCY MILLING

.1575" - .2500"
(4.000mm - 6.350mm)

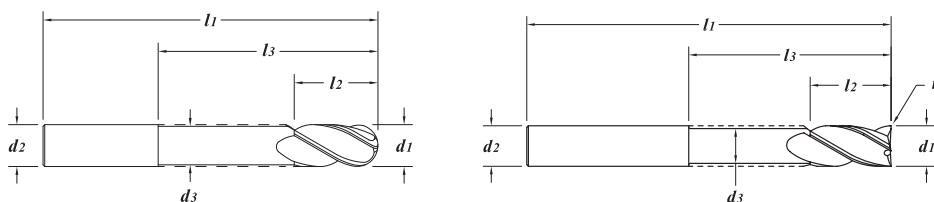


| TOLERANCES | |
|------------|------------------------------------|
| $d1$ | +0.000" - .001" (+.000mm - .025mm) |
| $d2$ | h6 |
| r | +0.001" - .001" (+.025 - .025mm) |

Recommended for aluminum

Variable Helix End Mill

Solid submicron grain carbide end mill - center cutting
 Engineered for High Efficiency Milling of Aluminum
 Proprietary geometry with polished flutes breaks up harmonics
 Improved end geometry provides superior floor finishes and increased plunge rates
 Capable of running up to 40,000 RPM - reduces vibration and balance issues
 Chip splitters and necks can be added within 48 hours



MATERIAL HARDNESS (Rc) 70 35 0

| EDP# | $d1$ † Diameter | | $d2$ Shank Diameter | $l1$ Overall Length | $l2$ Flute Length | r Corner Radius | $l3$ Reach Length | $d3$ Neck Diameter | 1-11 | 12-24 | 25-49 | 50-100 | |
|-------|-----------------|--------|---------------------|---------------------|-------------------|-------------------|-------------------|--------------------|-------|-------|-------|--------|-------|
| | Decimal | Metric | | | | | | | | | | | |
| 07000 | .1575 | 4.000 | 6.0 | 50 | 12 | - | 16 | 3.80 | 25.45 | 24.34 | 23.24 | 22.13 | |
| 07001 | .1575 | 4.000 | 6.0 | 50 | 12 | 0.20 | 16 | 3.80 | 29.01 | 27.75 | 26.49 | 25.23 | |
| 07002 | .1575 | 4.000 | 6.0 | 50 | 12 | 0.50 | 16 | 3.80 | 29.01 | 27.75 | 26.49 | 25.23 | |
| 07003 | .1575 | 4.000 | 6.0 | 50 | 12 | 1.00 | 16 | 3.80 | 29.01 | 27.75 | 26.49 | 25.23 | |
| 07004 | .1875 | 3/16" | 4.763 | 3/16" | 2" | 1/2" | 5/8" | .179" | 18.43 | 17.63 | 16.83 | 16.03 | |
| 07005 | .1875 | 3/16" | 4.763 | 3/16" | 2" | 1/2" | .015" | 5/8" | .179" | 20.77 | 19.87 | 18.96 | 18.06 |
| 07006 | .1875 | 3/16" | 4.763 | 3/16" | 2" | 1/2" | .030" | 5/8" | .179" | 20.77 | 19.87 | 18.96 | 18.06 |
| 07007 | .1875 | 3/16" | 4.763 | 3/16" | 2" | 1/2" | .060" | 5/8" | .179" | 20.77 | 19.87 | 18.96 | 18.06 |
| 07008 | .1875 | 3/16" | 4.763 | 3/16" | 2" | 1/2" | BALL | 5/8" | .179" | 20.77 | 19.87 | 18.96 | 18.06 |
| 07009 | .1969 | 5.000 | 6.0 | 65 | 16 | - | 26 | 4.70 | 25.84 | 24.72 | 23.59 | 22.47 | |
| 07010 | .1969 | 5.000 | 6.0 | 65 | 16 | 0.20 | 26 | 4.70 | 30.83 | 29.49 | 28.15 | 26.81 | |
| 07011 | .1969 | 5.000 | 6.0 | 65 | 16 | 0.50 | 26 | 4.70 | 30.83 | 29.49 | 28.15 | 26.81 | |
| 07012 | .1969 | 5.000 | 6.0 | 65 | 16 | 1.00 | 26 | 4.70 | 30.83 | 29.49 | 28.15 | 26.81 | |
| 07013 | .2362 | 6.000 | 6.0 | 65 | 19 | - | 26 | 5.70 | 24.81 | 23.73 | 22.65 | 21.57 | |
| 07014 | .2362 | 6.000 | 6.0 | 65 | 19 | 0.20 | 26 | 5.70 | 29.56 | 28.27 | 26.99 | 25.70 | |
| 07015 | .2362 | 6.000 | 6.0 | 65 | 19 | 0.50 | 26 | 5.70 | 29.56 | 28.27 | 26.99 | 25.70 | |
| 07016 | .2362 | 6.000 | 6.0 | 65 | 19 | 1.00 | 26 | 5.70 | 29.56 | 28.27 | 26.99 | 25.70 | |
| 07017 | .2362 | 6.000 | 6.0 | 65 | 19 | 1.50 | 26 | 5.70 | 29.56 | 28.27 | 26.99 | 25.70 | |
| 07018 | .2362 | 6.000 | 6.0 | 65 | 19 | 2.00 | 26 | 5.70 | 29.56 | 28.27 | 26.99 | 25.70 | |
| 07019 | .2362 | 6.000 | 6.0 | 65 | 19 | BALL | 26 | 5.70 | 29.56 | 28.27 | 26.99 | 25.70 | |
| 07020 | .2500 | 1/4" | 6.350 | 1/4" | 2-1/2" | 3/4" | - | - | 18.70 | 17.89 | 17.07 | 16.26 | |
| 07021 | .2500 | 1/4" | 6.350 | 1/4" | 2-1/2" | 3/4" | .015" | - | 23.22 | 22.21 | 21.20 | 20.19 | |
| 07022 | .2500 | 1/4" | 6.350 | 1/4" | 2-1/2" | 3/4" | .030" | - | 23.22 | 22.21 | 21.20 | 20.19 | |
| 07023 | .2500 | 1/4" | 6.350 | 1/4" | 2-1/2" | 3/4" | .060" | - | 23.22 | 22.21 | 21.20 | 20.19 | |
| 07024 | .2500 | 1/4" | 6.350 | 1/4" | 2-1/2" | 3/4" | .090" | - | 23.22 | 22.21 | 21.20 | 20.19 | |
| 07025 | .2500 | 1/4" | 6.350 | 1/4" | 2-1/2" | 3/4" | BALL | - | 23.22 | 22.21 | 21.20 | 20.19 | |
| 07026 | .2500 | 1/4" | 6.350 | 1/4" | 3" | 1" | - | - | 32.00 | 30.61 | 29.22 | 27.83 | |
| 07027 | .2500 | 1/4" | 6.350 | 1/4" | 3" | 1" | .030" | - | 37.61 | 35.97 | 34.34 | 32.70 | |
| 07028 | .2500 | 1/4" | 6.350 | 1/4" | 3" | 1" | .060" | - | 37.61 | 35.97 | 34.34 | 32.70 | |
| 07029 | .2500 | 1/4" | 6.350 | 1/4" | 3" | 3/8" | - | 1-1/8" | .235" | 37.18 | 35.56 | 33.95 | 32.33 |
| 07030 | .2500 | 1/4" | 6.350 | 1/4" | 3" | 3/8" | .015" | 1-1/8" | .235" | 42.78 | 40.92 | 39.06 | 37.20 |
| 07031 | .2500 | 1/4" | 6.350 | 1/4" | 3" | 3/8" | .030" | 1-1/8" | .235" | 42.78 | 40.92 | 39.06 | 37.20 |
| 07032 | .2500 | 1/4" | 6.350 | 1/4" | 3" | 3/8" | .060" | 1-1/8" | .235" | 42.78 | 40.92 | 39.06 | 37.20 |

| EDP# | $d1$ † Diameter | | $d2$ Shank Diameter | $l1$ Overall Length | $l2$ Flute Length | r Corner Radius | $l3$ Reach Length | $d3$ Neck Diameter | 1-11 | 12-24 | 25-49 | 50-100 | |
|-------|--------------------|--------|---------------------------|---------------------------|-------------------------|-------------------------|-------------------------|--------------------------|-------|-------|-------|--------|-------|
| | Decimal | Metric | | | | | | | | | | | |
| 07033 | .3150 | 8.000 | 8.0 | 65 | 19 | - | 26 | 7.40 | 33.17 | 31.73 | 30.29 | 28.84 | |
| 07034 | .3150 | 8.000 | 8.0 | 65 | 19 | 0.20 | 26 | 7.40 | 37.49 | 35.86 | 34.23 | 32.60 | |
| 07035 | .3150 | 8.000 | 8.0 | 65 | 19 | 0.50 | 26 | 7.40 | 37.49 | 35.86 | 34.23 | 32.60 | |
| 07036 | .3150 | 8.000 | 8.0 | 65 | 19 | 1.00 | 26 | 7.40 | 37.49 | 35.86 | 34.23 | 32.60 | |
| 07037 | .3150 | 8.000 | 8.0 | 65 | 19 | 1.50 | 26 | 7.40 | 37.49 | 35.86 | 34.23 | 32.60 | |
| 07038 | .3150 | 8.000 | 8.0 | 65 | 19 | 2.00 | 26 | 7.40 | 37.49 | 35.86 | 34.23 | 32.60 | |
| 07039 | .3150 | 8.000 | 8.0 | 65 | 19 | 3.00 | 26 | 7.40 | 37.49 | 35.86 | 34.23 | 32.60 | |
| 07040 | .3150 | 8.000 | 8.0 | 65 | 19 | BALL | 26 | 7.40 | 37.49 | 35.86 | 34.23 | 32.60 | |
| 07041 | .3750 | 3/8" | 9.525 | 3/8" | 2-1/2" | 1" | - | - | 32.38 | 30.97 | 29.56 | 28.16 | |
| 07042 | .3750 | 3/8" | 9.525 | 3/8" | 2-1/2" | 1" | .010" | - | 36.85 | 35.25 | 33.65 | 32.04 | |
| 07043 | .3750 | 3/8" | 9.525 | 3/8" | 2-1/2" | 1" | .015" | - | 36.85 | 35.25 | 33.65 | 32.04 | |
| 07044 | .3750 | 3/8" | 9.525 | 3/8" | 2-1/2" | 1" | .020" | - | 36.85 | 35.25 | 33.65 | 32.04 | |
| 07045 | .3750 | 3/8" | 9.525 | 3/8" | 2-1/2" | 1" | .030" | - | 36.85 | 35.25 | 33.65 | 32.04 | |
| 07046 | .3750 | 3/8" | 9.525 | 3/8" | 2-1/2" | 1" | .060" | - | 36.85 | 35.25 | 33.65 | 32.04 | |
| 07047 | .3750 | 3/8" | 9.525 | 3/8" | 2-1/2" | 1" | .090" | - | 36.85 | 35.25 | 33.65 | 32.04 | |
| 07048 | .3750 | 3/8" | 9.525 | 3/8" | 2-1/2" | 1" | .120" | - | 36.85 | 35.25 | 33.65 | 32.04 | |
| 07049 | .3750 | 3/8" | 9.525 | 3/8" | 2-1/2" | 1" | BALL | - | 36.85 | 35.25 | 33.65 | 32.04 | |
| 07050 | .3750 | 3/8" | 9.525 | 3/8" | 3" | 1-1/4" | - | - | 44.61 | 42.67 | 40.73 | 38.79 | |
| 07051 | .3750 | 3/8" | 9.525 | 3/8" | 3" | 1-1/4" | .015" | - | 50.37 | 48.18 | 45.99 | 43.80 | |
| 07052 | .3750 | 3/8" | 9.525 | 3/8" | 3" | 1-1/4" | .030" | - | 50.37 | 48.18 | 45.99 | 43.80 | |
| 07053 | .3750 | 3/8" | 9.525 | 3/8" | 3" | 1-1/4" | .060" | - | 50.37 | 48.18 | 45.99 | 43.80 | |
| 07054 | .3750 | 3/8" | 9.525 | 3/8" | 3" | 1-1/4" | .120" | - | 50.37 | 48.18 | 45.99 | 43.80 | |
| 07055 | .3750 | 3/8" | 9.525 | 3/8" | 3" | 1/2" | - | 1-1/8" | .355" | 49.78 | 47.62 | 45.45 | 43.29 |
| 07056 | .3750 | 3/8" | 9.525 | 3/8" | 3" | 1/2" | .015" | 1-1/8" | .355" | 55.55 | 53.13 | 50.72 | 48.30 |
| 07057 | .3750 | 3/8" | 9.525 | 3/8" | 3" | 1/2" | .030" | 1-1/8" | .355" | 55.55 | 53.13 | 50.72 | 48.30 |
| 07058 | .3750 | 3/8" | 9.525 | 3/8" | 3" | 1/2" | .060" | 1-1/8" | .355" | 55.55 | 53.13 | 50.72 | 48.30 |
| 07059 | .3750 | 3/8" | 9.525 | 3/8" | 3" | 1/2" | .090" | 1-1/8" | .355" | 55.55 | 53.13 | 50.72 | 48.30 |
| 07060 | .3750 | 3/8" | 9.525 | 3/8" | 3" | 1/2" | .120" | 1-1/8" | .355" | 55.55 | 53.13 | 50.72 | 48.30 |
| 07061 | .3750 | 3/8" | 9.525 | 3/8" | 4" | 1/2" | - | 2-1/8" | .355" | 60.06 | 57.45 | 54.84 | 52.23 |
| 07062 | .3750 | 3/8" | 9.525 | 3/8" | 4" | 1/2" | .015" | 2-1/8" | .355" | 68.46 | 65.48 | 62.51 | 59.53 |
| 07063 | .3750 | 3/8" | 9.525 | 3/8" | 4" | 1/2" | .020" | 2-1/8" | .355" | 68.46 | 65.48 | 62.51 | 59.53 |
| 07064 | .3750 | 3/8" | 9.525 | 3/8" | 4" | 1/2" | .030" | 2-1/8" | .355" | 68.46 | 65.48 | 62.51 | 59.53 |
| 07065 | .3750 | 3/8" | 9.525 | 3/8" | 4" | 1/2" | .060" | 2-1/8" | .355" | 68.46 | 65.48 | 62.51 | 59.53 |
| 07066 | .3750 | 3/8" | 9.525 | 3/8" | 4" | 1/2" | .090" | 2-1/8" | .355" | 68.46 | 65.48 | 62.51 | 59.53 |
| 07067 | .3750 | 3/8" | 9.525 | 3/8" | 4" | 1/2" | .120" | 2-1/8" | .355" | 68.46 | 65.48 | 62.51 | 59.53 |
| 07068 | .3937 | 10.000 | 10.0 | 70 | 22 | - | 30 | 9.40 | 54.31 | 51.95 | 49.59 | 47.23 | |
| 07069 | .3937 | 10.000 | 10.0 | 70 | 22 | 0.20 | 30 | 9.40 | 62.38 | 59.67 | 56.96 | 54.24 | |
| 07070 | .3937 | 10.000 | 10.0 | 70 | 22 | 0.50 | 30 | 9.40 | 62.38 | 59.67 | 56.96 | 54.24 | |
| 07071 | .3937 | 10.000 | 10.0 | 70 | 22 | 1.00 | 30 | 9.40 | 62.38 | 59.67 | 56.96 | 54.24 | |
| 07072 | .3937 | 10.000 | 10.0 | 70 | 22 | 1.50 | 30 | 9.40 | 62.38 | 59.67 | 56.96 | 54.24 | |
| 07073 | .3937 | 10.000 | 10.0 | 70 | 22 | 2.00 | 30 | 9.40 | 62.38 | 59.67 | 56.96 | 54.24 | |
| 07074 | .3937 | 10.000 | 10.0 | 70 | 22 | 3.00 | 30 | 9.40 | 62.38 | 59.67 | 56.96 | 54.24 | |
| 07075 | .3937 | 10.000 | 10.0 | 70 | 22 | BALL | 30 | 9.40 | 62.38 | 59.67 | 56.96 | 54.24 | |
| 07076 | .3937 | 10.000 | 10.0 | 100 | 40 | - | - | - | 62.99 | 60.25 | 57.51 | 54.77 | |
| 07077 | .3937 | 10.000 | 10.0 | 100 | 22 | - | 55 | 9.40 | 73.86 | 70.65 | 67.44 | 64.23 | |
| 07078 | .4724 | 12.000 | 12.0 | 88 | 26 | - | 38 | 11.40 | 80.19 | 76.70 | 73.22 | 69.73 | |
| 07079 | .4724 | 12.000 | 12.0 | 88 | 26 | 0.20 | 38 | 11.40 | 94.68 | 90.56 | 86.45 | 82.33 | |
| 07212 | .4724 | 12.000 | 12.0 | 88 | 26 | 0.50 | 38 | 11.40 | 94.68 | 90.56 | 86.45 | 82.33 | |
| 07081 | .4724 | 12.000 | 12.0 | 88 | 26 | 1.00 | 38 | 11.40 | 94.68 | 90.56 | 86.45 | 82.33 | |
| 07082 | .4724 | 12.000 | 12.0 | 88 | 26 | 1.50 | 38 | 11.40 | 94.68 | 90.56 | 86.45 | 82.33 | |
| 07083 | .4724 | 12.000 | 12.0 | 88 | 26 | 2.00 | 38 | 11.40 | 94.68 | 90.56 | 86.45 | 82.33 | |
| 07084 | .4724 | 12.000 | 12.0 | 88 | 26 | 3.00 | 38 | 11.40 | 94.68 | 90.56 | 86.45 | 82.33 | |
| 07085 | .4724 | 12.000 | 12.0 | 88 | 26 | 4.00 | 38 | 11.40 | 94.68 | 90.56 | 86.45 | 82.33 | |
| 07086 | .4724 | 12.000 | 12.0 | 88 | 26 | BALL | 38 | 11.40 | 94.68 | 90.56 | 86.45 | 82.33 | |

70

MATERIAL HARDNESS (Rc)

35

0

continued →

Series A3 (continued)

.4724" - .6299"
(12.000mm - 16.000mm)

MATERIAL HARDNESS (Rc)

70

35

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| EDP# | $d1$ † Diameter | | $d2$ Shank Diameter | $l1$ Overall Length | $l2$ Flute Length | r Corner Radius | $l3$ Reach Length | $d3$ Neck Diameter | 1-11 | 12-24 | 25-49 | 50-100 | |
|-------|--------------------|--------|---------------------------|---------------------------|-------------------------|-------------------------|-------------------------|--------------------------|--------|--------|--------|--------|--------|
| | Decimal | Metric | | | | | | | | | | | |
| 07213 | .4724 | 12.000 | 12.0 | 88 | 36 | - | - | - | 74.36 | 71.13 | 67.89 | 64.66 | |
| 07088 | .4724 | 12.000 | 12.0 | 88 | 36 | 0.20 | - | - | 89.39 | 85.50 | 81.62 | 77.73 | |
| 07089 | .4724 | 12.000 | 12.0 | 88 | 36 | 0.50 | - | - | 89.39 | 85.50 | 81.62 | 77.73 | |
| 07090 | .4724 | 12.000 | 12.0 | 88 | 36 | 1.00 | - | - | 89.39 | 85.50 | 81.62 | 77.73 | |
| 07091 | .4724 | 12.000 | 12.0 | 88 | 36 | 1.50 | - | - | 89.39 | 85.50 | 81.62 | 77.73 | |
| 07092 | .4724 | 12.000 | 12.0 | 88 | 36 | 2.00 | - | - | 89.39 | 85.50 | 81.62 | 77.73 | |
| 07093 | .4724 | 12.000 | 12.0 | 88 | 36 | 3.00 | - | - | 89.39 | 85.50 | 81.62 | 77.73 | |
| 07094 | .4724 | 12.000 | 12.0 | 88 | 36 | 4.00 | - | - | 89.39 | 85.50 | 81.62 | 77.73 | |
| 07095 | .4724 | 12.000 | 12.0 | 88 | 36 | BALL | - | - | 89.39 | 85.50 | 81.62 | 77.73 | |
| 07096 | .5000 | 1/2" | 12.700 | 1/2" | 3" | 1-1/4" | - | - | 53.13 | 50.82 | 48.51 | 46.20 | |
| 07097 | .5000 | 1/2" | 12.700 | 1/2" | 3" | 1-1/4" | .010" | - | 69.76 | 66.73 | 63.69 | 60.66 | |
| 07098 | .5000 | 1/2" | 12.700 | 1/2" | 3" | 1-1/4" | .015" | - | 69.76 | 66.73 | 63.69 | 60.66 | |
| 07099 | .5000 | 1/2" | 12.700 | 1/2" | 3" | 1-1/4" | .020" | - | 69.76 | 66.73 | 63.69 | 60.66 | |
| 07100 | .5000 | 1/2" | 12.700 | 1/2" | 3" | 1-1/4" | .030" | - | 69.76 | 66.73 | 63.69 | 60.66 | |
| 07101 | .5000 | 1/2" | 12.700 | 1/2" | 3" | 1-1/4" | .060" | - | 69.76 | 66.73 | 63.69 | 60.66 | |
| 07102 | .5000 | 1/2" | 12.700 | 1/2" | 3" | 1-1/4" | .090" | - | 69.76 | 66.73 | 63.69 | 60.66 | |
| 07103 | .5000 | 1/2" | 12.700 | 1/2" | 3" | 1-1/4" | .120" | - | 69.76 | 66.73 | 63.69 | 60.66 | |
| 07104 | .5000 | 1/2" | 12.700 | 1/2" | 3" | 1-1/4" | .190" | - | 69.76 | 66.73 | 63.69 | 60.66 | |
| 07105 | .5000 | 1/2" | 12.700 | 1/2" | 3" | 1-1/4" | BALL | - | 69.76 | 66.73 | 63.69 | 60.66 | |
| 07106 | .5000 | 1/2" | 12.700 | 1/2" | 4" | 2-1/16" | - | - | 72.00 | 68.87 | 65.74 | 62.61 | |
| 07107 | .5000 | 1/2" | 12.700 | 1/2" | 4" | 2-1/16" | .015" | - | 81.06 | 77.54 | 74.01 | 70.49 | |
| 07108 | .5000 | 1/2" | 12.700 | 1/2" | 4" | 2-1/16" | .030" | - | 81.06 | 77.54 | 74.01 | 70.49 | |
| 07109 | .5000 | 1/2" | 12.700 | 1/2" | 4" | 2-1/16" | .060" | - | 81.06 | 77.54 | 74.01 | 70.49 | |
| 07110 | .5000 | 1/2" | 12.700 | 1/2" | 4" | 2-1/16" | .120" | - | 81.06 | 77.54 | 74.01 | 70.49 | |
| 07111 | .5000 | 1/2" | 12.700 | 1/2" | 4" | 5/8" | - | 2-1/4" | .475" | 82.87 | 79.27 | 75.66 | 72.06 |
| 07112 | .5000 | 1/2" | 12.700 | 1/2" | 4" | 5/8" | .015" | 2-1/4" | .475" | 91.92 | 87.92 | 83.93 | 79.93 |
| 07113 | .5000 | 1/2" | 12.700 | 1/2" | 4" | 5/8" | .030" | 2-1/4" | .475" | 91.92 | 87.92 | 83.93 | 79.93 |
| 07114 | .5000 | 1/2" | 12.700 | 1/2" | 4" | 5/8" | .060" | 2-1/4" | .475" | 91.92 | 87.92 | 83.93 | 79.93 |
| 07115 | .5000 | 1/2" | 12.700 | 1/2" | 4" | 5/8" | BALL | 2-1/4" | .475" | 91.92 | 87.92 | 83.93 | 79.93 |
| 07116 | .6250 | 5/8" | 15.875 | 5/8" | 4" | 1-5/8" | - | - | 114.38 | 109.41 | 104.43 | 99.46 | |
| 07214 | .6250 | 5/8" | 15.875 | 5/8" | 4" | 1-5/8" | .030" | - | 125.36 | 119.91 | 114.46 | 109.01 | |
| 07118 | .6250 | 5/8" | 15.875 | 5/8" | 4" | 1-5/8" | .060" | - | 125.36 | 119.91 | 114.46 | 109.01 | |
| 07119 | .6250 | 5/8" | 15.875 | 5/8" | 4" | 1-5/8" | .090" | - | 125.36 | 119.91 | 114.46 | 109.01 | |
| 07120 | .6250 | 5/8" | 15.875 | 5/8" | 4" | 1-5/8" | .120" | - | 125.36 | 119.91 | 114.46 | 109.01 | |
| 07121 | .6250 | 5/8" | 15.875 | 5/8" | 4" | 3/4" | - | 2-3/8" | .590" | 124.73 | 119.31 | 113.88 | 108.46 |
| 07122 | .6250 | 5/8" | 15.875 | 5/8" | 4" | 3/4" | .030" | 2-3/8" | .590" | 135.71 | 129.81 | 123.91 | 118.01 |
| 07123 | .6250 | 5/8" | 15.875 | 5/8" | 4" | 3/4" | .060" | 2-3/8" | .590" | 135.71 | 129.81 | 123.91 | 118.01 |
| 07124 | .6250 | 5/8" | 15.875 | 5/8" | 4" | 3/4" | .120" | 2-3/8" | .590" | 135.71 | 129.81 | 123.91 | 118.01 |
| 07125 | .6250 | 5/8" | 15.875 | 5/8" | 4" | 3/4" | .190" | 2-3/8" | .590" | 135.71 | 129.81 | 123.91 | 118.01 |
| 07126 | .6299 | | 16.000 | 16.0 | 100 | 24 | - | 50 | 15.40 | 126.86 | 121.34 | 115.83 | 110.31 |
| 07127 | .6299 | | 16.000 | 16.0 | 100 | 24 | 0.50 | 50 | 15.40 | 138.46 | 132.44 | 126.42 | 120.40 |
| 07128 | .6299 | | 16.000 | 16.0 | 100 | 24 | 1.00 | 50 | 15.40 | 138.46 | 132.44 | 126.42 | 120.40 |
| 07129 | .6299 | | 16.000 | 16.0 | 100 | 24 | 1.50 | 50 | 15.40 | 138.46 | 132.44 | 126.42 | 120.40 |
| 07130 | .6299 | | 16.000 | 16.0 | 100 | 24 | 3.00 | 50 | 15.40 | 138.46 | 132.44 | 126.42 | 120.40 |
| 07131 | .6299 | | 16.000 | 16.0 | 100 | 24 | 6.00 | 50 | 15.40 | 138.46 | 132.44 | 126.42 | 120.40 |
| 07132 | .6299 | | 16.000 | 16.0 | 100 | 32 | - | 50 | 15.40 | 126.86 | 121.34 | 115.83 | 110.31 |
| 07133 | .6299 | | 16.000 | 16.0 | 100 | 32 | 0.50 | 50 | 15.40 | 138.46 | 132.44 | 126.42 | 120.40 |
| 07134 | .6299 | | 16.000 | 16.0 | 100 | 32 | 1.00 | 50 | 15.40 | 138.46 | 132.44 | 126.42 | 120.40 |
| 07135 | .6299 | | 16.000 | 16.0 | 100 | 32 | 1.50 | 50 | 15.40 | 138.46 | 132.44 | 126.42 | 120.40 |
| 07136 | .6299 | | 16.000 | 16.0 | 100 | 32 | 3.00 | 50 | 15.40 | 138.46 | 132.44 | 126.42 | 120.40 |
| 07137 | .6299 | | 16.000 | 16.0 | 100 | 32 | 6.00 | 50 | 15.40 | 138.46 | 132.44 | 126.42 | 120.40 |

| EDP# | $d1$ † Diameter | | $d2$ Shank Diameter | $l1$ Overall Length | $l2$ Flute Length | r Corner Radius | $l3$ Reach Length | $d3$ Neck Diameter | 1-11 | 12-24 | 25-49 | 50-100 | |
|-------|--------------------|--------|---------------------------|---------------------------|-------------------------|-------------------------|-------------------------|--------------------------|-------|--------|--------|--------|--------|
| | Decimal | Metric | | | | | | | | | | | |
| 07138 | .7500 | 3/4" | 19.050 | 3/4" | 4" | 1-3/4" | - | - | - | 147.82 | 141.39 | 134.97 | 128.54 |
| 07139 | .7500 | 3/4" | 19.050 | 3/4" | 4" | 1-3/4" | .015" | - | - | 164.58 | 157.42 | 150.27 | 143.11 |
| 07140 | .7500 | 3/4" | 19.050 | 3/4" | 4" | 1-3/4" | .030" | - | - | 164.58 | 157.42 | 150.27 | 143.11 |
| 07141 | .7500 | 3/4" | 19.050 | 3/4" | 4" | 1-3/4" | .060" | - | - | 164.58 | 157.42 | 150.27 | 143.11 |
| 07142 | .7500 | 3/4" | 19.050 | 3/4" | 4" | 1-3/4" | .078" | - | - | 164.58 | 157.42 | 150.27 | 143.11 |
| 07143 | .7500 | 3/4" | 19.050 | 3/4" | 4" | 1-3/4" | .094" | - | - | 164.58 | 157.42 | 150.27 | 143.11 |
| 07144 | .7500 | 3/4" | 19.050 | 3/4" | 4" | 1-3/4" | .120" | - | - | 164.58 | 157.42 | 150.27 | 143.11 |
| 07145 | .7500 | 3/4" | 19.050 | 3/4" | 4" | 1-3/4" | .156" | - | - | 164.58 | 157.42 | 150.27 | 143.11 |
| 07146 | .7500 | 3/4" | 19.050 | 3/4" | 4" | 1-3/4" | .190" | - | - | 164.58 | 157.42 | 150.27 | 143.11 |
| 07147 | .7500 | 3/4" | 19.050 | 3/4" | 4" | 1-3/4" | .250" | - | - | 164.58 | 157.42 | 150.27 | 143.11 |
| 07148 | .7500 | 3/4" | 19.050 | 3/4" | 4" | 1-3/4" | BALL | - | - | 164.58 | 157.42 | 150.27 | 143.11 |
| 07149 | .7500 | 3/4" | 19.050 | 3/4" | 4" | 1" | - | 2" | .715" | 153.00 | 146.35 | 139.70 | 133.04 |
| 07150 | .7500 | 3/4" | 19.050 | 3/4" | 4" | 1" | .030" | 2" | .715" | 169.75 | 162.37 | 154.99 | 147.61 |
| 07151 | .7500 | 3/4" | 19.050 | 3/4" | 4" | 1" | .060" | 2" | .715" | 169.75 | 162.37 | 154.99 | 147.61 |
| 07152 | .7500 | 3/4" | 19.050 | 3/4" | 4" | 1" | .090" | 2" | .715" | 169.75 | 162.37 | 154.99 | 147.61 |
| 07153 | .7500 | 3/4" | 19.050 | 3/4" | 4" | 1" | .120" | 2" | .715" | 169.75 | 162.37 | 154.99 | 147.61 |
| 07154 | .7500 | 3/4" | 19.050 | 3/4" | 4" | 1" | .125" | 2" | .715" | 169.75 | 162.37 | 154.99 | 147.61 |
| 07155 | .7500 | 3/4" | 19.050 | 3/4" | 4" | 1" | .160" | 2" | .715" | 169.75 | 162.37 | 154.99 | 147.61 |
| 07156 | .7500 | 3/4" | 19.050 | 3/4" | 4" | 1" | .190" | 2" | .715" | 169.75 | 162.37 | 154.99 | 147.61 |
| 07157 | .7500 | 3/4" | 19.050 | 3/4" | 5" | 2-1/4" | - | - | - | 196.88 | 188.32 | 179.76 | 171.20 |
| 07158 | .7500 | 3/4" | 19.050 | 3/4" | 5" | 2-1/4" | .030" | - | - | 228.57 | 218.63 | 208.69 | 198.76 |
| 07159 | .7500 | 3/4" | 19.050 | 3/4" | 5" | 2-1/4" | .060" | - | - | 228.57 | 218.63 | 208.69 | 198.76 |
| 07160 | .7500 | 3/4" | 19.050 | 3/4" | 5" | 2-1/4" | .120" | - | - | 228.57 | 218.63 | 208.69 | 198.76 |
| 07161 | .7500 | 3/4" | 19.050 | 3/4" | 5" | 2-1/4" | .125" | - | - | 228.57 | 218.63 | 208.69 | 198.76 |
| 07162 | .7500 | 3/4" | 19.050 | 3/4" | 5" | 2-1/4" | .190" | - | - | 228.57 | 218.63 | 208.69 | 198.76 |
| 07163 | .7500 | 3/4" | 19.050 | 3/4" | 5" | 2-1/4" | .250" | - | - | 228.57 | 218.63 | 208.69 | 198.76 |
| 07164 | .7500 | 3/4" | 19.050 | 3/4" | 6" | 1" | - | 3-3/8" | .715" | 212.91 | 203.65 | 194.40 | 185.14 |
| 07165 | .7500 | 3/4" | 19.050 | 3/4" | 6" | 1" | .030" | 3-3/8" | .715" | 247.15 | 236.40 | 225.66 | 214.91 |
| 07166 | .7500 | 3/4" | 19.050 | 3/4" | 6" | 1" | .060" | 3-3/8" | .715" | 247.15 | 236.40 | 225.66 | 214.91 |
| 07167 | .7500 | 3/4" | 19.050 | 3/4" | 6" | 1" | .090" | 3-3/8" | .715" | 247.15 | 236.40 | 225.66 | 214.91 |
| 07168 | .7500 | 3/4" | 19.050 | 3/4" | 6" | 1" | .125" | 3-3/8" | .715" | 247.15 | 236.40 | 225.66 | 214.91 |
| 07169 | .7500 | 3/4" | 19.050 | 3/4" | 6" | 1" | .250" | 3-3/8" | .715" | 247.15 | 236.40 | 225.66 | 214.91 |
| 07170 | .7500 | 3/4" | 19.050 | 3/4" | 6" | 1" | BALL | 3-3/8" | .715" | 247.15 | 236.40 | 225.66 | 214.91 |
| 07171 | .7874 | | 20.000 | 20.0 | 100 | 30 | - | 50 | 19.4 | 202.99 | 194.16 | 185.34 | 176.51 |
| 07172 | .7874 | | 20.000 | 20.0 | 100 | 30 | 0.50 | 50 | 19.4 | 237.03 | 226.72 | 216.42 | 206.11 |
| 07173 | .7874 | | 20.000 | 20.0 | 100 | 30 | 1.00 | 50 | 19.4 | 237.03 | 226.72 | 216.42 | 206.11 |
| 07174 | .7874 | | 20.000 | 20.0 | 100 | 30 | 1.50 | 50 | 19.4 | 237.03 | 226.72 | 216.42 | 206.11 |
| 07175 | .7874 | | 20.000 | 20.0 | 100 | 30 | 3.00 | 50 | 19.4 | 237.03 | 226.72 | 216.42 | 206.11 |
| 07176 | .7874 | | 20.000 | 20.0 | 100 | 30 | 4.00 | 50 | 19.4 | 237.03 | 226.72 | 216.42 | 206.11 |
| 07177 | .7874 | | 20.000 | 20.0 | 100 | 30 | 5.00 | 50 | 19.4 | 237.03 | 226.72 | 216.42 | 206.11 |
| 07178 | .7874 | | 20.000 | 20.0 | 100 | 30 | 6.00 | 50 | 19.4 | 237.03 | 226.72 | 216.42 | 206.11 |
| 07179 | .7874 | | 20.000 | 20.0 | 100 | 30 | 8.00 | 50 | 19.4 | 237.03 | 226.72 | 216.42 | 206.11 |

70

MATERIAL HARDNESS (RC)

35

0

continued →

Series A3 (continued)

.7874" - 1.000"
(20.000mm - 25.400mm)

| EDP# | $d1$ † Diameter | | $d2$ Shank Diameter | $l1$ Overall Length | $l2$ Flute Length | r Corner Radius | $l3$ Reach Length | $d3$ Neck Diameter | 1-11 | 12-24 | 25-49 | 50-100 |
|-------|--------------------|-----------|---------------------------|---------------------------|-------------------------|-------------------------|-------------------------|--------------------------|--------|--------|--------|--------|
| | Decimal | Metric | | | | | | | | | | |
| 07180 | .7874 | 20.000 | 20.0 | 150 | 30 | - | 100 | 19.40 | 264.83 | 253.32 | 241.80 | 230.29 |
| 07181 | .7874 | 20.000 | 20.0 | 150 | 30 | 0.50 | 100 | 19.40 | 315.72 | 301.99 | 288.26 | 274.54 |
| 07182 | .7874 | 20.000 | 20.0 | 150 | 30 | 1.00 | 100 | 19.40 | 315.72 | 301.99 | 288.26 | 274.54 |
| 07183 | .7874 | 20.000 | 20.0 | 150 | 30 | 1.50 | 100 | 19.40 | 315.72 | 301.99 | 288.26 | 274.54 |
| 07184 | .7874 | 20.000 | 20.0 | 150 | 30 | 3.00 | 100 | 19.40 | 315.72 | 301.99 | 288.26 | 274.54 |
| 07185 | .7874 | 20.000 | 20.0 | 150 | 30 | 4.00 | 100 | 19.40 | 315.72 | 301.99 | 288.26 | 274.54 |
| 07186 | .7874 | 20.000 | 20.0 | 150 | 30 | 5.00 | 100 | 19.40 | 315.72 | 301.99 | 288.26 | 274.54 |
| 07187 | .7874 | 20.000 | 20.0 | 150 | 30 | 6.00 | 100 | 19.40 | 315.72 | 301.99 | 288.26 | 274.54 |
| 07188 | .7874 | 20.000 | 20.0 | 150 | 30 | 8.00 | 100 | 19.40 | 315.72 | 301.99 | 288.26 | 274.54 |
| 07189 | 1.000 | 1" 25.400 | 1" | 4" | 1-1/4" | - | 2" | .950" | 226.50 | 216.65 | 206.80 | 196.96 |
| 07190 | 1.000 | 1" 25.400 | 1" | 4" | 1-1/4" | .060" | 2" | .950" | 289.95 | 277.34 | 264.74 | 252.13 |
| 07191 | 1.000 | 1" 25.400 | 1" | 4-1/2" | 1-1/4" | - | 2-1/2" | .950" | 256.91 | 245.74 | 234.57 | 223.40 |
| 07192 | 1.000 | 1" 25.400 | 1" | 4-1/2" | 1-1/4" | .030" | 2-1/2" | .950" | 327.35 | 313.12 | 298.88 | 284.65 |
| 07193 | 1.000 | 1" 25.400 | 1" | 4-1/2" | 1-1/4" | .060" | 2-1/2" | .950" | 327.35 | 313.12 | 298.88 | 284.65 |
| 07194 | 1.000 | 1" 25.400 | 1" | 4-1/2" | 1-1/4" | .120" | 2-1/2" | .950" | 327.35 | 313.12 | 298.88 | 284.65 |
| 07195 | 1.000 | 1" 25.400 | 1" | 4-1/2" | 1-1/4" | .125" | 2-1/2" | .950" | 327.35 | 313.12 | 298.88 | 284.65 |
| 07196 | 1.000 | 1" 25.400 | 1" | 5" | 1" | - | 2-5/8" | .950" | 282.97 | 270.67 | 258.36 | 246.06 |
| 07197 | 1.000 | 1" 25.400 | 1" | 5" | 1" | .030" | 2-5/8" | .950" | 360.63 | 344.95 | 329.27 | 313.59 |
| 07198 | 1.000 | 1" 25.400 | 1" | 5" | 1" | .060" | 2-5/8" | .950" | 360.63 | 344.95 | 329.27 | 313.59 |
| 07199 | 1.000 | 1" 25.400 | 1" | 5" | 1" | .125" | 2-5/8" | .950" | 360.63 | 344.95 | 329.27 | 313.59 |
| 07200 | 1.000 | 1" 25.400 | 1" | 5" | 1" | .250" | 2-5/8" | .950" | 360.63 | 344.95 | 329.27 | 313.59 |
| 07201 | 1.000 | 1" 25.400 | 1" | 5" | 1" | BALL | 2-5/8" | .950" | 360.63 | 344.95 | 329.27 | 313.59 |
| 07202 | 1.000 | 1" 25.400 | 1" | 5" | 2-1/4" | - | - | - | 272.62 | 260.77 | 248.91 | 237.06 |
| 07203 | 1.000 | 1" 25.400 | 1" | 5" | 2-1/4" | .030" | - | - | 350.28 | 335.05 | 319.82 | 304.59 |
| 07204 | 1.000 | 1" 25.400 | 1" | 5" | 2-1/4" | .060" | - | - | 350.28 | 335.05 | 319.82 | 304.59 |
| 07205 | 1.000 | 1" 25.400 | 1" | 5" | 2-1/4" | .120" | - | - | 350.28 | 335.05 | 319.82 | 304.59 |
| 07206 | 1.000 | 1" 25.400 | 1" | 5" | 2-1/4" | .250" | - | - | 350.28 | 335.05 | 319.82 | 304.59 |
| 07207 | 1.000 | 1" 25.400 | 1" | 6" | 3-1/4" | - | - | - | 339.03 | 324.29 | 309.55 | 294.81 |
| 07208 | 1.000 | 1" 25.400 | 1" | 6" | 3-1/4" | .030" | - | - | 397.27 | 380.00 | 362.72 | 345.45 |
| 07209 | 1.000 | 1" 25.400 | 1" | 6" | 3-1/4" | .060" | - | - | 397.27 | 380.00 | 362.72 | 345.45 |
| 07210 | 1.000 | 1" 25.400 | 1" | 6" | 3-1/4" | .120" | - | - | 397.27 | 380.00 | 362.72 | 345.45 |
| 07211 | 1.000 | 1" 25.400 | 1" | 6" | 3-1/4" | .250" | - | - | 397.27 | 380.00 | 362.72 | 345.45 |

MATERIAL HARDNESS (Rc)

↔ 70

↔ 35

↔ 0