

END MILL

ดอกเอ็นมิลล์

END MILL
เอ็นมิลล์



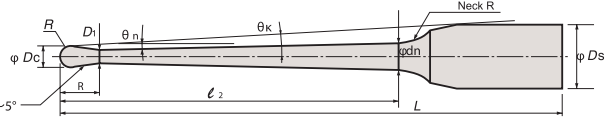
ดอกเอ็นมิลล์

EPOCH MEGA FEED BALL EVOLUTION EMBPE3 ○○○-○○○-○-ATH

3Flutes

[Note] ※ : R2 or higher does not have backdraft shape.

Back taper on peripheral edge : 3~5°



DEEP SERIES

เอ็นมิลล์ตระกูลดีฟ

CBN END MILL

CBN เอ็นมิลล์

Carbide Endmill

เอ็นมิลล์คาร์ไบด์

HSS Endmill

เอ็นมิลล์ไฮสปีด

Ball

หัวบอล

Radius

หัวกึ่งกลม R

Square

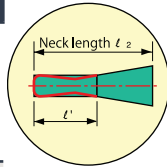
หัวสี่

Taper Ball

หัวตaperบอล

Roughing

Pencil Neck



R0.5 ~ R1.75 : ±0.005
R2 ~ R3 : ±0.007
R4 ~ R6 : ±0.010



Ds ≤ 6 : 0 ~ -0.005
6 < Ds ≤ 10 : 0 ~ -0.006
10 < Ds : 0 ~ -0.008 (mm)

High helix ball flute shape that reduces cutting force and improves chip removal.

| Order No. | Stock | R Ball Radius | Dc Tool Dia. | θn Neck Angle | 81Size (mm)100 | | | | | | | | | | The effective under-neck length for the various draft angles | | | | |
|---------------------|-------|---------------|--------------|---------------|----------------------|----------------|--------------|--------------------|------------------|---------------|--------|-----------------------|-----------------------|-------|--|-------|-----------------|-----------------|--|
| | | | | | ℓ2 Under Neck Length | ℓ Flute Length | D1 Neck Dia. | dn Under Neck Dia. | L Overall length | Ds Shank Dia. | Neck R | ℓ' Approx neck length | θk Interference Angle | 0.75° | 1° | 1.5° | 2° | 3° | |
| | | | | | | | | | | | | | | | | | | | |
| EMBPE3010-6-09-ATH | ● | | | 0.9 | 6 | 0.8 | 0.94 | 1.103 | 50 | 6 | A | 2.70 | 8.36 | 6.45 | 6.66 | 6.96 | 7.19 | 7.56 | |
| EMBPE3010-8-09-ATH | ● | | | 0.9 | 8 | 0.8 | 0.94 | 1.166 | 55 | 6 | A | 2.70 | 7.55 | 8.4 | 8.68 | 9.05 | 9.32 | 9.93 | |
| EMBPE3010-10-09-ATH | ● | | | 0.9 | 10 | 0.8 | 0.94 | 1.229 | 55 | 6 | A | 2.70 | 6.88 | 10.33 | 10.71 | 11.13 | 11.43 | 12.39 | |
| EMBPE3010-12-09-ATH | ● | | | 0.9 | 12 | 0.8 | 0.94 | 1.291 | 60 | 6 | A | 2.70 | 6.32 | 12.25 | 12.73 | 13.2 | 13.54 | 14.85 | |
| EMBPE3010-14-09-ATH | ● | | | 0.9 | 14 | 0.8 | 0.94 | 1.354 | 60 | 6 | A | 2.70 | 5.85 | 13.77 | 14.75 | 15.27 | 15.65 | 17.31 | |
| EMBPE3010-16-09-ATH | ● | | | 0.9 | 16 | 0.8 | 0.94 | 1.417 | 60 | 6 | A | 2.70 | 5.44 | 13.77 | 16.77 | 17.34 | 17.87 | 19.77 | |
| EMBPE3010-18-09-ATH | ● | | | 0.9 | 18 | 0.8 | 0.94 | 1.480 | 65 | 6 | A | 2.70 | 5.08 | 13.77 | 18.79 | 19.4 | 20.08 | 22.23 | |
| EMBPE3010-20-09-ATH | ● | 0.5 | 1 | 0.9 | 20 | 0.8 | 0.94 | 1.543 | 65 | 6 | A | 2.70 | 4.77 | 13.77 | 20.81 | 21.46 | 22.3 | 24.68 | |
| EMBPE3010-22-09-ATH | ● | | | 0.9 | 22 | 0.8 | 0.94 | 1.606 | 70 | 6 | A | 2.70 | 4.5 | 13.77 | 22.82 | 23.51 | 24.52 | 27.14 | |
| EMBPE3010-24-09-ATH | ● | | | 0.9 | 24 | 0.8 | 0.94 | 1.668 | 70 | 6 | A | 2.70 | 4.25 | 13.77 | 24.84 | 25.57 | 26.73 | 29.6 | |
| EMBPE3010-26-09-ATH | ● | | | 0.9 | 26 | 0.8 | 0.94 | 1.731 | 70 | 6 | A | 2.70 | 4.03 | 13.77 | 26.86 | 27.62 | 28.95 | 32.06 | |
| EMBPE3010-28-09-ATH | ● | | | 0.9 | 28 | 0.8 | 0.94 | 1.794 | 75 | 6 | A | 2.70 | 3.83 | 13.77 | 28.88 | 29.73 | 31.17 | 34.52 | |
| EMBPE3010-30-09-ATH | ● | | | 0.9 | 30 | 0.8 | 0.94 | 1.857 | 75 | 6 | A | 2.70 | 3.65 | 13.77 | 30.89 | 31.84 | 33.38 | 36.98 | |
| EMBPE3010-32-09-ATH | ● | | | 0.9 | 32 | 0.8 | 0.94 | 1.920 | 80 | 6 | A | 2.70 | 3.49 | 13.77 | 32.91 | 33.95 | 35.6 | 39.43 | |
| EMBPE3010-34-09-ATH | ● | | | 0.9 | 34 | 0.8 | 0.94 | 1.983 | 80 | 6 | A | 2.70 | 3.34 | 13.77 | 34.92 | 36.07 | 37.82 | 41.89 | |
| EMBPE3010-36-09-ATH | ● | | | 0.9 | 36 | 0.8 | 0.94 | 2.045 | 80 | 6 | A | 2.70 | 3.2 | 13.77 | 36.94 | 38.18 | 40.03 | 44.35 | |
| EMBPE3015-8-09-ATH | ● | | | 0.9 | 8 | 1.35 | 1.42 | 1.628 | 55 | 6 | A | 3.89 | 7.32 | 8.54 | 8.77 | 9.1 | 9.35 | 9.97 | |
| EMBPE3015-10-09-ATH | ● | | | 0.9 | 10 | 1.35 | 1.42 | 1.691 | 55 | 6 | A | 3.89 | 6.63 | 10.5 | 10.79 | 11.17 | 11.46 | 12.43 | |
| EMBPE3015-14-09-ATH | ● | | | 0.9 | 14 | 1.35 | 1.42 | 1.817 | 60 | 6 | A | 3.89 | 5.57 | 14.39 | 14.83 | 15.31 | 15.71 | 17.35 | |
| EMBPE3015-16-09-ATH | ● | | | 0.9 | 16 | 1.35 | 1.42 | 1.880 | 60 | 6 | A | 3.89 | 5.16 | 16.33 | 16.84 | 17.37 | 17.93 | 19.8 | |
| EMBPE3015-18-09-ATH | ● | | | 0.9 | 18 | 1.35 | 1.42 | 1.943 | 65 | 6 | A | 3.89 | 4.81 | 18.24 | 18.86 | 19.43 | 20.14 | 22.26 | |
| EMBPE3015-20-09-ATH | ● | | | 0.9 | 20 | 1.35 | 1.42 | 2.005 | 65 | 6 | A | 3.89 | 4.5 | 19.64 | 20.88 | 21.49 | 22.36 | 24.72 | |
| EMBPE3015-22-09-ATH | ● | | | 0.9 | 22 | 1.35 | 1.42 | 2.068 | 70 | 6 | A | 3.89 | 4.22 | 19.64 | 22.89 | 23.55 | 24.57 | 27.18 | |
| EMBPE3015-24-09-ATH | ● | 0.75 | 1.5 | 0.9 | 24 | 1.35 | 1.42 | 2.131 | 70 | 6 | A | 3.89 | 3.98 | 19.64 | 24.91 | 25.6 | 26.79 | 29.64 | |
| EMBPE3015-26-09-ATH | ● | | | 0.9 | 26 | 1.35 | 1.42 | 2.194 | 70 | 6 | A | 3.89 | 3.77 | 19.64 | 26.93 | 27.68 | 29.01 | 32.1 | |
| EMBPE3015-28-09-ATH | ● | | | 0.9 | 28 | 1.35 | 1.42 | 2.257 | 75 | 6 | A | 3.89 | 3.58 | 19.64 | 28.94 | 29.79 | 31.22 | 34.55 | |
| EMBPE3015-30-09-ATH | ● | | | 0.9 | 30 | 1.35 | 1.42 | 2.320 | 75 | 6 | A | 3.89 | 3.4 | 19.64 | 30.96 | 31.91 | 33.44 | 37.01 | |
| EMBPE3015-32-09-ATH | ● | | | 0.9 | 32 | 1.35 | 1.42 | 2.382 | 80 | 6 | A | 3.89 | 3.24 | 19.64 | 32.97 | 34.02 | 35.66 | 39.47 | |
| EMBPE3015-34-09-ATH | ● | | | 0.9 | 34 | 1.35 | 1.42 | 2.445 | 80 | 6 | A | 3.89 | 3.1 | 19.64 | 34.99 | 36.13 | 37.87 | 41.93 | |
| EMBPE3015-36-09-ATH | ● | | | 0.9 | 36 | 1.35 | 1.42 | 2.508 | 80 | 6 | A | 3.89 | 2.97 | 19.64 | 37 | 38.24 | 40.09 | No interference | |
| EMBPE3015-38-09-ATH | ● | | | 0.9 | 38 | 1.35 | 1.42 | 2.571 | 85 | 6 | A | 3.89 | 2.85 | 19.64 | 39.02 | 40.36 | 42.3 | No interference | |
| EMBPE3015-40-09-ATH | ● | | | 0.9 | 40 | 1.35 | 1.42 | 2.634 | 85 | 6 | A | 3.89 | 2.74 | 19.64 | 41.03 | 42.47 | 44.52 | No interference | |
| EMBPE3020-10-09-ATH | ● | | | 0.9 | 10 | 1.7 | 1.92 | 2.180 | 55 | 6 | A | 4.24 | 6.35 | 10.52 | 10.8 | 11.17 | 11.45 | 12.38 | |
| EMBPE3020-16-09-ATH | ● | | | 0.9 | 16 | 1.7 | 1.92 | 2.369 | 60 | 6 | A | 4.24 | 4.86 | 16.36 | 16.85 | 17.37 | 17.91 | 19.76 | |
| EMBPE3020-20-09-ATH | ● | | | 0.9 | 20 | 1.7 | 1.92 | 2.494 | 65 | 6 | A | 4.24 | 4.2 | 20.16 | 20.88 | 21.49 | 22.34 | 24.68 | |
| EMBPE3020-24-09-ATH | ● | | | 0.9 | 24 | 1.7 | 1.92 | 2.620 | 65 | 6 | A | 4.24 | 3.7 | 20.5 | 24.92 | 25.6 | 26.77 | 29.59 | |
| EMBPE3020-30-09-ATH | ● | 1 | 2 | 0.9 | 30 | 1.7 | 1.92 | 2.809 | 70 | 6 | A | 4.24 | 3.14 | 20.5 | 30.96 | 31.9 | 33.42 | 36.97 | |
| EMBPE3020-36-09-ATH | ● | | | 0.9 | 36 | 1.7 | 1.92 | 2.994 | 80 | 6 | A | 4.24 | 2.73 | 20.5 | 37.01 | 38.24 | 40.07 | No interference | |
| EMBPE3020-40-09-ATH | ● | | | 0.9 | 40 | 1.7 | 1.92 | 3.123 | 80 | 6 | A | 4.24 | 2.51 | 20.5 | 41.03 | 42.46 | 44.5 | No interference | |
| EMBPE3020-46-09-ATH | ● | | | 0.9 | 46 | 1.7 | 1.92 | 3.311 | 90 | 6 | A | 4.24 | 2.24 | 20.5 | 47.08 | 48.8 | 51.15 | No interference | |
| EMBPE3020-60-09-ATH | ● | | | 0.9 | 60 | 1.7 | 1.92 | 3.751 | 100 | 6 | A | 4.24 | 1.79 | 20.5 | 61.16 | 63.59 | v | No interference | |
| EMBPE3025-16-09-ATH | ● | | | 0.9 | 16 | 2 | 2.4 | 2.839 | 60 | 6 | A | 5.18 | 4.52 | 16.48 | 16.9 | 17.4 | 17.94 | 19.77 | |
| EMBPE3025-24-09-ATH | ● | | | 0.9 | 24 | 2 | 2.4 | 3.091 | 65 | 6 | A | 5.18 | 3.39 | 24.19 | 24.96 | 25.62 | 26.81 | 29.6 | |
| EMBPE3025-30-09-ATH | ● | 1.25 | 2.5 | 0.9 | 30 | 2 | 2.4 | 3.279 | 70 | 6 | A | 5.18 | 2.86 | 24.88 | 31.01 | 31.94 | 33.46 | No interference | |
| EMBPE3025-40-09-ATH | ● | | | 0.9 | 40 | 2 | 2.4 | 3.593 | 80 | 6 | A | 5.18 | 2.26 | 24.88 | 41.07 | 42.51 | 44.54 | No interference | |
| EMBPE3025-50-09-ATH | ● | | | 0.9 | 50 | 2 | 2.4 | 3.908 | 90 | 6 | A | 5.18 | 1.87 | 24.88 | 51.14 | 53.07 | No interference | No interference | |

● : Stocked Items.



| Order No. | Stock | 81Size (mm)100 | | | | | | | | | | | The effective under-neck length for the various draft angles | | | | | |
|----------------------|-------|----------------|--------------|---------------|----------------------------------|----------------|--------------|--------------------|------------------|---------------|--------|-----------------------|--|-------|-----------------|-----------------|-----------------|-----------------|
| | | R Ball Radius | Dc Tool Dia. | θn Neck Angle | e ₂ Under Neck Length | e Flute Length | D1 Neck Dia. | dn Under Neck Dia. | L Overall length | Ds Shank Dia. | Neck R | e' Approx neck length | θ κ Interference Angle | 0.75° | 1° | 1.5° | 2° | 3° |
| | | | | | | | | | | | | | | | | | | |
| EMBPE3030-16-09-ATH | ● | | | 0.9 | 16 | 2.5 | 2.86 | 3.284 | 55 | 6 | A | 6.95 | 4.11 | 16.67 | 17 | 17.46 | 18.05 | 19.87 |
| EMBPE3030-20-09-ATH | ● | | | 0.9 | 20 | 2.5 | 2.86 | 3.409 | 60 | 6 | A | 6.95 | 3.5 | 20.59 | 21.03 | 21.57 | 22.48 | 24.78 |
| EMBPE3030-24-09-ATH | ● | | | 0.9 | 24 | 2.5 | 2.86 | 3.535 | 65 | 6 | A | 6.95 | 3.04 | 24.51 | 25.06 | 25.72 | 26.92 | 29.7 |
| EMBPE3030-30-09-ATH | ● | 1.5 | 3 | 0.9 | 30 | 2.5 | 2.86 | 3.724 | 70 | 6 | A | 6.95 | 2.54 | 30.35 | 31.1 | 32.06 | 33.56 | No interference |
| EMBPE3030-40-09-ATH | ● | | | 0.9 | 40 | 2.5 | 2.86 | 4.038 | 80 | 6 | A | 6.95 | 2 | 34.28 | 41.16 | 42.62 | No interference | No interference |
| EMBPE3030-50-09-ATH | ● | | | 0.9 | 50 | 2.5 | 2.86 | 4.352 | 90 | 6 | A | 6.95 | 1.65 | 34.28 | 51.22 | 53.18 | No interference | No interference |
| EMBPE3030-60-09-ATH | ● | | | 0.9 | 60 | 2.5 | 2.86 | 4.666 | 100 | 6 | A | 6.95 | 1.4 | 34.28 | 61.28 | No interference | No interference | No interference |
| EMBPE3035-20-09-ATH | ● | | | 0.9 | 20 | 2.75 | 3.36 | 3.901 | 60 | 6 | A | 7.20 | 3.09 | 20.6 | 21.03 | 21.56 | 22.46 | 24.73 |
| EMBPE3035-30-09-ATH | ● | | | 0.9 | 30 | 2.75 | 3.36 | 4.216 | 70 | 6 | A | 7.20 | 2.21 | 30.36 | 31.1 | 32.05 | 33.54 | No interference |
| EMBPE3035-40-09-ATH | ● | 1.75 | 3.5 | 0.9 | 40 | 2.75 | 3.36 | 4.530 | 80 | 6 | A | 7.20 | 1.72 | 34.53 | 41.16 | 42.61 | No interference | No interference |
| EMBPE3035-50-09-ATH | ● | | | 0.9 | 50 | 2.75 | 3.36 | 4.844 | 90 | 6 | A | 7.20 | 1.41 | 34.53 | 51.22 | No interference | No interference | No interference |
| EMBPE3035-60-09-ATH | ● | | | 0.9 | 60 | 2.75 | 3.36 | 5.158 | 100 | 6 | B | 7.20 | 1.19 | 34.53 | 61.27 | No interference | No interference | No interference |
| EMBPE3040-20-09-ATH | ● | | | 0.9 | 20 | 6 | 3.9 | 4.339 | 70 | 6 | A | - | 2.62 | 20.77 | 21.13 | 21.62 | 22.58 | No interference |
| EMBPE3040-30-09-ATH | ● | | | 0.9 | 30 | 6 | 3.9 | 4.654 | 80 | 6 | A | - | 1.84 | 30.61 | 31.19 | 32.18 | No interference | No interference |
| EMBPE3040-40-09-ATH | ● | | | 0.9 | 40 | 6 | 3.9 | 4.968 | 90 | 6 | B | - | 1.42 | 40.38 | 41.25 | No interference | No interference | No interference |
| EMBPE3040-50-09-ATH | ● | 2 | 4 | 0.9 | 50 | 6 | 3.9 | 5.282 | 100 | 6 | B | - | 1.16 | 45.15 | 51.3 | No interference | No interference | No interference |
| EMBPE3040-60-09-ATH | ● | | | 0.9 | 60 | 6 | 3.9 | 5.596 | 110 | 6 | B | - | 0.97 | 45.15 | No interference | No interference | No interference | No interference |
| EMBPE3040-70-09-ATH | ● | | | 0.9 | 70 | 6 | 3.9 | 5.910 | 120 | 8 | A | - | 1.58 | 45.15 | 71.4 | 74.43 | No interference | No interference |
| EMBPE3040-80-09-ATH | ● | | | 0.9 | 80 | 6 | 3.9 | 6.224 | 130 | 8 | A | - | 1.4 | 45.15 | 81.45 | No interference | No interference | No interference |
| EMBPE3050-30-09-ATH | ● | | | 0.9 | 30 | 7.5 | 4.9 | 5.606 | 80 | 8 | A | - | 2.6 | 30.72 | 31.24 | 32.24 | 33.7 | No interference |
| EMBPE3050-40-09-ATH | ● | | | 0.9 | 40 | 7.5 | 4.9 | 5.921 | 90 | 8 | A | - | 2.03 | 40.54 | 41.29 | 42.8 | 44.78 | No interference |
| EMBPE3050-50-09-ATH | ● | 2.5 | 5 | 0.9 | 50 | 7.5 | 4.9 | 6.235 | 100 | 8 | A | - | 1.67 | 50.24 | 51.35 | 53.36 | No interference | No interference |
| EMBPE3050-60-09-ATH | ● | | | 0.9 | 60 | 7.5 | 4.9 | 6.549 | 110 | 8 | A | - | 1.42 | 51.67 | 61.4 | No interference | No interference | No interference |
| EMBPE3050-70-09-ATH | ● | | | 0.9 | 70 | 7.5 | 4.9 | 6.863 | 120 | 8 | A | - | 1.23 | 51.67 | 71.45 | No interference | No interference | No interference |
| EMBPE3050-80-09-ATH | ● | | | 0.9 | 80 | 7.5 | 4.9 | 7.177 | 130 | 8 | B | - | 1.09 | 51.67 | 81.49 | No interference | No interference | No interference |
| EMBPE3060-30-09-ATH | ● | | | 0.9 | 30 | 9 | 5.9 | 6.559 | 80 | 8 | A | - | 1.89 | 30.81 | 31.29 | 32.29 | No interference | No interference |
| EMBPE3060-40-09-ATH | ● | | | 0.9 | 40 | 9 | 5.9 | 6.873 | 90 | 8 | B | - | 1.45 | 40.66 | 41.34 | No interference | No interference | No interference |
| EMBPE3060-50-09-ATH | ● | | | 0.9 | 50 | 9 | 5.9 | 7.188 | 100 | 8 | B | - | 1.18 | 50.46 | 51.39 | No interference | No interference | No interference |
| EMBPE3060-60-09-ATH | ● | 3 | 6 | 0.9 | 60 | 9 | 5.9 | 7.502 | 110 | 8 | B | - | 0.99 | 58.18 | No interference | No interference | No interference | No interference |
| EMBPE3060-70-09-ATH | ● | | | 0.9 | 70 | 9 | 5.9 | 7.816 | 120 | 10 | A | - | 1.59 | 58.18 | 71.48 | 74.54 | No interference | No interference |
| EMBPE3060-80-09-ATH | ● | | | 0.9 | 80 | 9 | 5.9 | 8.130 | 130 | 10 | A | - | 1.41 | 58.18 | 81.53 | No interference | No interference | No interference |
| EMBPE3060-100-09-ATH | ● | | | 0.9 | 100 | 9 | 5.9 | 8.759 | 150 | 10 | A | - | 1.15 | 58.18 | 101.61 | No interference | No interference | No interference |
| EMBPE3060-120-09-ATH | ● | | | 0.9 | 120 | 9 | 5.9 | 9.387 | 200 | 10 | B | - | 0.97 | 58.18 | No interference | No interference | No interference | No interference |
| EMBPE3080-40-09-ATH | ● | | | 0.9 | 40 | 12 | 7.9 | 8.779 | 100 | 10 | A | - | 1.48 | 40.85 | 41.42 | No interference | No interference | No interference |
| EMBPE3080-50-09-ATH | ● | | | 0.9 | 50 | 12 | 7.9 | 9.093 | 110 | 10 | B | - | 1.2 | 50.71 | 51.47 | No interference | No interference | No interference |
| EMBPE3080-60-09-ATH | ● | | | 0.9 | 60 | 12 | 7.9 | 9.408 | 120 | 10 | B | - | 1 | 60.53 | No interference | No interference | No interference | No interference |
| EMBPE3080-70-09-ATH | ● | 4 | 8 | 0.9 | 70 | 12 | 7.9 | 9.722 | 130 | 10 | B | - | 0.86 | 70.22 | No interference | No interference | No interference | No interference |
| EMBPE3080-80-09-ATH | ● | | | 0.9 | 80 | 12 | 7.9 | 10.036 | 140 | 12 | A | - | 1.43 | 71.21 | 81.6 | No interference | No interference | No interference |
| EMBPE3080-100-09-ATH | ● | | | 0.9 | 100 | 12 | 7.9 | 10.664 | 160 | 12 | A | - | 1.16 | 71.21 | 101.76 | No interference | No interference | No interference |
| EMBPE3080-120-09-ATH | ● | | | 0.9 | 120 | 12 | 7.9 | 11.293 | 200 | 12 | B | - | 0.98 | 71.21 | No interference | No interference | No interference | No interference |
| EMBPE3100-50-09-ATH | ● | | | 0.9 | 50 | 15 | 9.9 | 10.999 | 120 | 12 | B | - | 1.21 | 50.89 | 51.55 | No interference | No interference | No interference |
| EMBPE3100-60-09-ATH | ● | | | 0.9 | 60 | 15 | 9.9 | 11.313 | 130 | 12 | B | - | 1.02 | 60.76 | 61.59 | No interference | No interference | No interference |
| EMBPE3100-75-09-ATH | ● | | | 0.9 | 75 | 15 | 9.9 | 11.785 | 140 | 12 | B | - | 0.81 | 75.49 | No interference | No interference | No interference | No interference |
| EMBPE3100-81-09-ATH | ● | 5 | 10 | 0.9 | 81 | 15 | 9.9 | 12.000 | 150 | 12 | C | - | 0.76 | 81.04 | No interference | No interference | No interference | No interference |
| EMBPE3100-100-09-ATH | ● | | | 0.9 | 100 | 15 | 9.9 | 12.570 | 170 | 16 | D | - | 1.73 | 84.25 | 101.07 | 103.56 | No interference | No interference |
| EMBPE3100-120-09-ATH | ● | | | 0.9 | 120 | 15 | 9.9 | 13.198 | 200 | 16 | D | - | 1.45 | 84.25 | 121.17 | No interference | No interference | No interference |
| EMBPE3120-60-09-ATH | ● | | | 0.9 | 60 | 18 | 11.9 | 13.219 | 140 | 16 | D | - | 1.99 | 60.27 | 60.96 | 62.38 | No interference | No interference |
| EMBPE3120-80-09-ATH | ● | | | 0.9 | 80 | 18 | 11.9 | 13.847 | 160 | 16 | D | - | 1.49 | 80.12 | 81.06 | No interference | No interference | No interference |
| EMBPE3120-100-09-ATH | ● | 6 | 12 | 0.9 | 100 | 18 | 11.9 | 14.476 | 180 | 16 | D | - | 1.2 | 97.28 | 101.16 | No interference | No interference | No interference |
| EMBPE3120-120-09-ATH | ● | | | 0.9 | 120 | 18 | 11.9 | 15.104 | 200 | 16 | D | - | 1 | 97.28 | No interference | No interference | No interference | No interference |

● : Stocked Items.

DEEP SERIES

เอ็นมิลล์ตระกูลดีพ

CBN END MILL

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Carbide Endmill

เอ็นมิลล์คาร์ไบด์

HSS Endmill

เอ็นมิลล์ไฮสปีด

Ball

หัวบอล

Radius

หัวกลม R

Square

หัวตัด

Taper Ball

หัวเตเปอร์บอล

Roughing