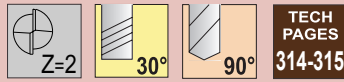


| TOLERANCES | |
|------------|-------------------------------------|
| d_1 | +0.000° -0.002° (+0.000 / -0.050mm) |
| d_2 | h6 |



Drill/End Mill

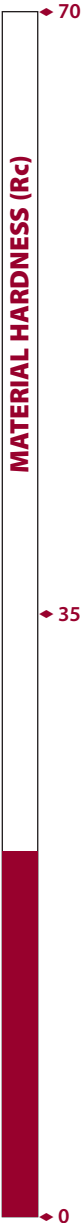
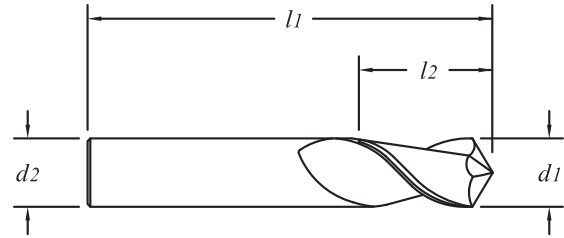
Solid submicron grain carbide

Included angle to a point - center cutting

Tools do not have drill point geometry

Extremely versatile

Point tolerance $\pm 0^\circ 30'$



| EDP# | d_1 † Diameter | | d_2 Shank Diameter | l_1 Overall Length | l_2 Flute Length | 1-11 | 12-24 | 25-49 | 50-100 | |
|-------|---------------------|--------|----------------------------|----------------------------|--------------------------|--------|--------|--------|--------|--------|
| | Decimal | Metric | | | | | | | | |
| 57200 | .1250 | 1/8" | 3.175 | 1/8" | 1-1/2" | 1/2" | 11.63 | 11.12 | 10.62 | 10.11 |
| 57210 | .1875 | 3/16" | 4.763 | 3/16" | 2" | 5/8" | 15.32 | 14.65 | 13.99 | 13.32 |
| 57220 | .2500 | 1/4" | 6.350 | 1/4" | 2-1/2" | 3/4" | 19.03 | 18.21 | 17.38 | 16.55 |
| 57230 | .3125 | 5/16" | 7.938 | 5/16" | 2-1/2" | 7/8" | 24.94 | 23.86 | 22.77 | 21.69 |
| 57240 | .3750 | 3/8" | 9.525 | 3/8" | 2-1/2" | 7/8" | 30.53 | 29.21 | 27.88 | 26.55 |
| 57250 | .4375 | 7/16" | 11.113 | 7/16" | 2-3/4" | 1" | 37.58 | 35.95 | 34.31 | 32.68 |
| 57260 | .5000 | 1/2" | 12.700 | 1/2" | 3" | 1" | 56.83 | 54.36 | 51.89 | 49.42 |
| 57270 | .6250 | 5/8" | 15.875 | 5/8" | 3-1/2" | 1-1/4" | 91.92 | 87.92 | 83.93 | 79.93 |
| 57280 | .7500 | 3/4" | 19.050 | 3/4" | 4" | 1-1/2" | 135.27 | 129.39 | 123.51 | 117.63 |

TOLERANCES

| | |
|-------|-----------------------------------|
| d_1 | +0.000° -0.002° (+.000 / -.050mm) |
| d_2 | h6 |



TECH
PAGES
314-315

Drill/End Mill

TiALN Coating

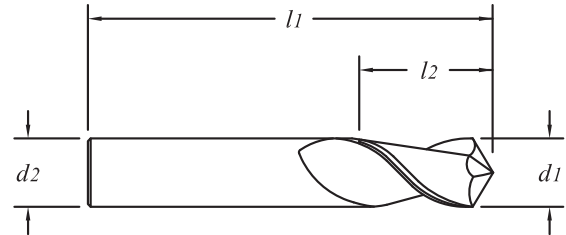
Solid submicron grain carbide

Included angle to a point - center cutting

Tools do not have drill point geometry

Extremely versatile

Point tolerance $\pm 0^{\circ}30'$



| EDP# | d_1 † Diameter | | d_2 Shank Diameter | l_1 Overall Length | l_2 Flute Length | 1-11 | 12-24 | 25-49 | 50-100 | |
|-------|---------------------|--------|----------------------------|----------------------------|--------------------------|--------|--------|--------|--------|--------|
| | Decimal | Metric | | | | | | | | |
| 57207 | .1250 | 1/8" | 3.175 | 1/8" | 1-1/2" | 1/2" | 14.32 | 13.70 | 13.07 | 12.45 |
| 57217 | .1875 | 3/16" | 4.763 | 3/16" | 2" | 5/8" | 18.01 | 17.23 | 16.44 | 15.66 |
| 57227 | .2500 | 1/4" | 6.350 | 1/4" | 2-1/2" | 3/4" | 24.56 | 23.50 | 22.43 | 21.36 |
| 57237 | .3125 | 5/16" | 7.938 | 5/16" | 2-1/2" | 7/8" | 33.29 | 31.85 | 30.40 | 28.95 |
| 57247 | .3750 | 3/8" | 9.525 | 3/8" | 2-1/2" | 7/8" | 38.88 | 37.19 | 35.50 | 33.81 |
| 57257 | .4375 | 7/16" | 11.113 | 7/16" | 2-3/4" | 1" | 47.01 | 44.97 | 42.92 | 40.88 |
| 57267 | .5000 | 1/2" | 12.700 | 1/2" | 3" | 1" | 66.32 | 63.44 | 60.55 | 57.67 |
| 57277 | .6250 | 5/8" | 15.875 | 5/8" | 3-1/2" | 1-1/4" | 105.58 | 100.99 | 96.40 | 91.81 |
| 57287 | .7500 | 3/4" | 19.050 | 3/4" | 4" | 1-1/2" | 151.41 | 144.83 | 138.24 | 131.66 |

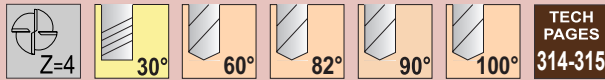
70

MATERIAL HARDNESS (Rc)

35

0

| TOLERANCES | |
|------------|-------------------------------------|
| d_1 | +0.000° -0.002° (+0.000 / -0.050mm) |
| d_2 | h6 |



Drill/End Mill

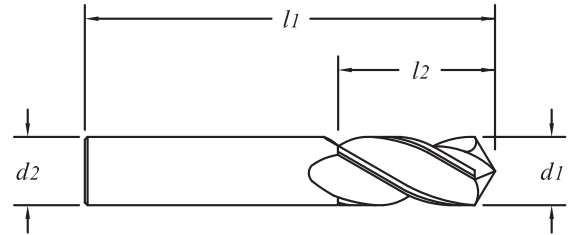
Solid submicron grain carbide

Included angle to a point - center cutting

Tools do not have drill point geometry

Extremely versatile

Point tolerance $\pm 0^\circ 30'$



MATERIAL HARDNESS (RC)

70

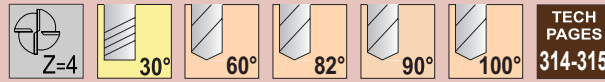
35

0

| 60° EDP# | 82° EDP# | 90° EDP# | 100° EDP# | d_1 † Diameter | | d_2 Shank Diameter | l_1 Overall Length | l_2 Flute Length | 1-11 | 12-24 | 25-49 | 50-100 | |
|-------------|-------------|-------------|--------------|---------------------|--------|----------------------------|----------------------------|--------------------------|--------|--------|--------|--------|--------|
| | | | | Decimal | Metric | | | | | | | | |
| - | - | 58198 | - | .1181 | 3.000 | 3.0 | 38 | 12 | 12.22 | 11.69 | 11.16 | 10.63 | |
| - | 57346 | 58200 | - | .1250 | 1/8" | 3.175 | 1/8" | 1-1/2" | 1/2" | 11.63 | 11.12 | 10.62 | 10.11 |
| - | - | 58202 | - | .1575 | | 4.000 | 4.0 | 50 | 14 | 16.09 | 15.39 | 14.69 | 13.99 |
| - | 57350 | 58210 | 57390 | .1875 | 3/16" | 4.763 | 3/16" | 2" | 5/8" | 15.32 | 14.65 | 13.99 | 13.32 |
| - | 57352 | 58212 | 57392 | .1969 | | 5.000 | 5.0 | 65 | 16 | 19.50 | 18.66 | 17.81 | 16.96 |
| 57314 | 57354 | 58214 | - | .2362 | | 6.000 | 6.0 | 65 | 19 | 20.00 | 19.13 | 18.26 | 17.39 |
| 57316 | 57356 | 58220 | 57396 | .2500 | 1/4" | 6.350 | 1/4" | 2-1/2" | 3/4" | 19.03 | 18.21 | 17.38 | 16.55 |
| 57318 | 57358 | 58230 | 57398 | .3125 | 5/16" | 7.938 | 5/16" | 2-1/2" | 7/8" | 24.94 | 23.86 | 22.77 | 21.69 |
| 57320 | - | 58232 | 57400 | .3150 | | 8.000 | 8.0 | 65 | 22 | 26.25 | 25.11 | 23.97 | 22.83 |
| 57322 | 57362 | 58240 | 57402 | .3750 | 3/8" | 9.525 | 3/8" | 2-1/2" | 7/8" | 30.53 | 29.21 | 27.88 | 26.55 |
| 57324 | - | 58242 | 57404 | .3937 | | 10.000 | 10.0 | 70 | 25 | 37.48 | 35.85 | 34.22 | 32.59 |
| - | - | 58252 | 57408 | .4724 | | 12.000 | 12.0 | 75 | 25 | 59.70 | 57.10 | 54.51 | 51.91 |
| 57330 | 57370 | 58260 | 57410 | .5000 | 1/2" | 12.700 | 1/2" | 3" | 1" | 56.83 | 54.36 | 51.89 | 49.42 |
| 57332 | 57372 | 58270 | 57412 | .6250 | 5/8" | 15.875 | 5/8" | 3-1/2" | 1-1/4" | 91.92 | 87.92 | 83.93 | 79.93 |
| - | - | 58272 | 57414 | .6299 | | 16.000 | 16.0 | 88 | 32 | 96.50 | 92.30 | 88.11 | 83.91 |
| 57336 | 57376 | 58280 | - | .7500 | 3/4" | 19.050 | 3/4" | 4" | 1-1/2" | 135.27 | 129.39 | 123.51 | 117.63 |

TOLERANCES

| | |
|-----------|-----------------------------------|
| <i>d1</i> | +0.000° -0.002" (+.000 / -.050mm) |
| <i>d2</i> | h6 |



Drill/End Mill

TiAlN Coating

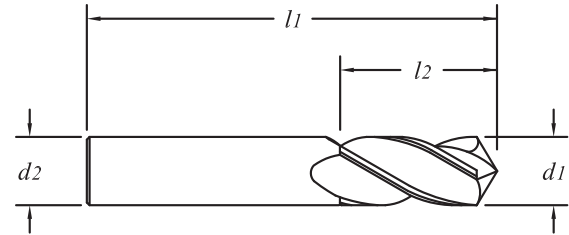
Solid submicron grain carbide

Included angle to a point - center cutting

Tools do not have drill point geometry

Extremely versatile

Point tolerance ±0°30'



| 60° EDP# | 82° EDP# | 90° EDP# | 100° EDP# | <i>d1</i> † Diameter | | <i>d2</i> Shank Diameter | <i>l1</i> Overall Length | <i>l2</i> Flute Length | 1-11 | 12-24 | 25-49 | 50-100 | |
|-------------|-------------|-------------|--------------|-------------------------|--------|--------------------------------|--------------------------------|------------------------------|--------|--------|--------|--------|--------|
| | | | | Decimal | Metric | | | | | | | | |
| - | - | 58205 | - | .1181 | 3.000 | 3.0 | 38 | 12 | 14.90 | 14.26 | 13.61 | 12.96 | |
| - | 58346 | 58207 | - | .1250 | 1/8" | 3.175 | 1/8" | 1-1/2" | 1/2" | 14.32 | 13.70 | 13.07 | 12.45 |
| - | 58348 | 58209 | 58388 | .1575 | | 4.000 | 4.0 | 50 | 14 | 18.78 | 17.96 | 17.15 | 16.33 |
| - | 58350 | 58217 | 58390 | .1875 | 3/16" | 4.763 | 3/16" | 2" | 5/8" | 18.01 | 17.23 | 16.44 | 15.66 |
| - | - | 58219 | - | .1969 | | 5.000 | 5.0 | 65 | 16 | 16.09 | 15.39 | 14.69 | 13.99 |
| 58314 | 58354 | 58221 | 58394 | .2362 | | 6.000 | 6.0 | 65 | 19 | 25.54 | 24.43 | 23.32 | 22.21 |
| 58316 | 58356 | 58227 | 58396 | .2500 | 1/4" | 6.350 | 1/4" | 2-1/2" | 3/4" | 24.56 | 23.50 | 22.43 | 21.36 |
| 58318 | 58358 | 58237 | 58398 | .3125 | 5/16" | 7.938 | 5/16" | 2-1/2" | 7/8" | 33.29 | 31.85 | 30.40 | 28.95 |
| 58320 | - | 58239 | 58400 | .3150 | | 8.000 | 8.0 | 65 | 22 | 34.55 | 33.04 | 31.54 | 30.04 |
| 58322 | 58362 | 58247 | 58402 | .3750 | 3/8" | 9.525 | 3/8" | 2-1/2" | 7/8" | 38.88 | 37.19 | 35.50 | 33.81 |
| 58324 | 58364 | 58249 | 58404 | .3937 | | 10.000 | 10.0 | 70 | 25 | 46.94 | 44.90 | 42.86 | 40.82 |
| 58326 | 58366 | 58257 | - | .4375 | 7/16" | 11.113 | 7/16" | 2-3/4" | 1" | 47.01 | 44.97 | 42.92 | 40.88 |
| 58328 | - | 58259 | 58408 | .4724 | | 12.000 | 12.0 | 75 | 25 | 69.13 | 66.12 | 63.12 | 60.11 |
| 58330 | 58370 | 58267 | 58410 | .5000 | 1/2" | 12.700 | 1/2" | 3" | 1" | 66.32 | 63.44 | 60.55 | 57.67 |
| 58332 | 58372 | 58277 | 58412 | .6250 | 5/8" | 15.875 | 5/8" | 3-1/2" | 1-1/4" | 105.58 | 100.99 | 96.40 | 91.81 |
| - | 58374 | 58279 | - | .6299 | | 16.000 | 16.0 | 88 | 32 | 110.17 | 105.38 | 100.59 | 95.80 |
| 58336 | 58376 | 58287 | 58416 | .7500 | 3/4" | 19.050 | 3/4" | 4" | 1-1/2" | 151.41 | 144.83 | 138.24 | 131.66 |
| - | 58378 | 58289 | - | .7874 | | 20.000 | 20.0 | 100 | 38 | 214.29 | 204.97 | 195.66 | 186.34 |

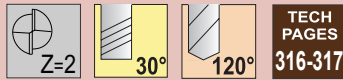
MATERIAL HARDNESS (Rc)

70

35

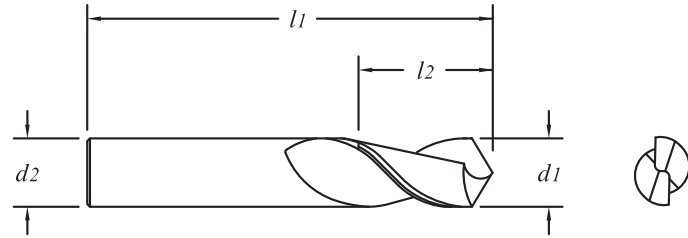
0

| TOLERANCES | |
|------------|----------------------------------|
| d_1 | +0.00° -0.002° (+.000 / -.050mm) |
| d_2 | h6 |



Recommended for drilling and milling in mild steels and non-ferrous materials

Drill/End Mill
TiALN Coating
 Solid submicron grain carbide
 Four-facet drill point geometry
 Extremely versatile
 Point tolerance ±1°



MATERIAL HARDNESS (Rc)

70

35

0

| EDP# | d_1 † Diameter | | d_2 Shank Diameter | l_1 Overall Length | l_2 Flute Length | 1-11 | 12-24 | 25-49 | 50-100 |
|-------|---------------------|--------|----------------------------|----------------------------|--------------------------|--------|--------|--------|--------|
| | Decimal | Metric | | | | | | | |
| 57421 | .1181 | 3.000 | 3.0 | 38 | 12 | 14.90 | 14.26 | 13.61 | 12.96 |
| 57423 | .1250 | 1/8" | 3.175 | 1-1/2" | 1/2" | 14.32 | 13.70 | 13.07 | 12.45 |
| 57425 | .1575 | 4.000 | 4.0 | 50 | 14 | 18.78 | 17.96 | 17.15 | 16.33 |
| 57427 | .1875 | 3/16" | 4.762 | 2" | 5/8" | 18.01 | 17.23 | 16.44 | 15.66 |
| 57429 | .1969 | 5.000 | 5.0 | 65 | 16 | 25.06 | 23.97 | 22.88 | 21.79 |
| 57431 | .2362 | 6.000 | 6.0 | 65 | 19 | 25.54 | 24.43 | 23.32 | 22.21 |
| 57433 | .2500 | 1/4" | 6.350 | 2-1/2" | 3/4" | 24.56 | 23.50 | 22.43 | 21.36 |
| 57435 | .3125 | 5/16" | 7.937 | 2-1/2" | 7/8" | 33.29 | 31.85 | 30.40 | 28.95 |
| 57437 | .3150 | 8.000 | 8.0 | 65 | 22 | 34.55 | 33.04 | 31.54 | 30.04 |
| 57439 | .3750 | 3/8" | 9.525 | 2-1/2" | 7/8" | 38.88 | 37.19 | 35.50 | 33.81 |
| 57441 | .3937 | 10.000 | 10.0 | 70 | 25 | 46.94 | 44.90 | 42.86 | 40.82 |
| 57443 | .4375 | 7/16" | 11.112 | 2-3/4" | 1" | 47.01 | 44.97 | 42.92 | 40.88 |
| 57445 | .4724 | 12.000 | 12.0 | 75 | 25 | 69.13 | 66.12 | 63.12 | 60.11 |
| 57447 | .5000 | 1/2" | 12.700 | 3" | 1" | 66.32 | 63.44 | 60.55 | 57.67 |
| 57449 | .6250 | 5/8" | 15.875 | 3-1/2" | 1-1/4" | 105.58 | 100.99 | 96.40 | 91.81 |
| 57451 | .6299 | 16.000 | 16.0 | 88 | 32 | 110.17 | 105.38 | 100.59 | 95.80 |
| 57453 | .7500 | 3/4" | 19.050 | 4" | 1-1/2" | 151.41 | 144.83 | 138.24 | 131.66 |
| 57455 | .7874 | 20.000 | 20.0 | 100 | 38 | 214.29 | 204.97 | 195.66 | 186.34 |