

CORNER RADIUS

$$d_1 = 1/4 - 5/16 = .045$$

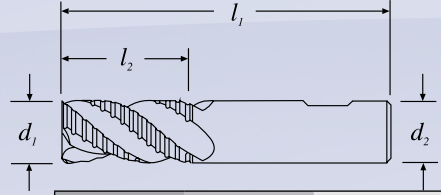
$$d_1 = 3/8 - 1 = .060$$

TOLERANCES

$$d_1 = +.000 - .004$$

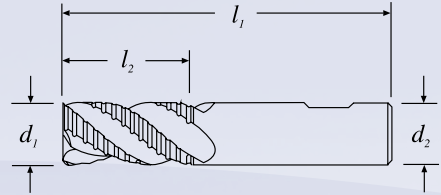
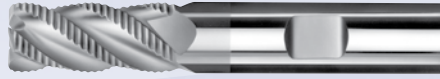
$$d_2 = -.0001 - .0004$$

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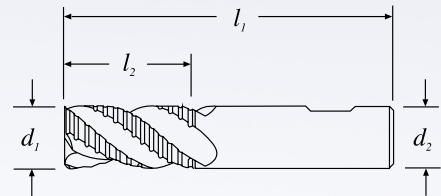
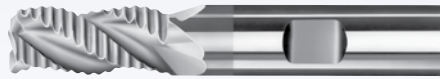
| Cutting Diameter d_1 | Length of Cut l_2 | Overall Length l_1 | Shank Diameter d_2 | No. of Flutes Z | Ti-NAMITE (TiN) | Ti-NAMITE-C (TiCN) | Ti-NAMITE-A (AlTiN) |
|---------------------------|------------------------|-------------------------|-------------------------|----------------------|-----------------|--------------------|---------------------|
| | | | | | EDP No. | EDP No. | EDP No. |
| 1/4 | 3/4 | 2-1/2 | 1/4 | 3 | 36107 | 36106 | 36110 |
| 5/16 | 3/4 | 2-1/2 | 5/16 | 3 | 36109 | 36108 | 36111 |
| 3/8 | 7/8 | 2-1/2 | 3/8 | 3 | 36113 | 36112 | 36114 |
| 1/2 | 1 | 3 | 1/2 | 4 | 36117 | 36116 | 36118 |
| 5/8 | 1-1/4 | 3-1/2 | 5/8 | 4 | 36121 | 36120 | 36122 |
| 3/4 | 1-5/8 | 4 | 3/4 | 4 | 36125 | 36124 | 36126 |
| 1 | 1-3/4 | 4 | 1 | 5 | 36129 | 36128 | 36130 |

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| Cutting Diameter d_1 | Length of Cut l_2 | Overall Length l_1 | Shank Diameter d_2 | No. of Flutes Z | Ti-NAMITE (TiN) | Ti-NAMITE-C (TiCN) | Ti-NAMITE-A (AlTiN) |
|---------------------------|------------------------|-------------------------|-------------------------|----------------------|-----------------|--------------------|---------------------|
| | | | | | EDP No. | EDP No. | EDP No. |
| 1/4 | 3/4 | 2-1/2 | 1/4 | 3 | 36207 | 36206 | 36210 |
| 5/16 | 3/4 | 2-1/2 | 5/16 | 3 | 36209 | 36208 | 36211 |
| 3/8 | 7/8 | 2-1/2 | 3/8 | 3 | 36213 | 36212 | 36214 |
| 1/2 | 1 | 3 | 1/2 | 4 | 36217 | 36216 | 36218 |
| 5/8 | 1-1/4 | 3-1/2 | 5/8 | 4 | 36221 | 36220 | 36222 |
| 3/4 | 1-5/8 | 4 | 3/4 | 4 | 36225 | 36224 | 36226 |
| 1 | 1-3/4 | 4 | 1 | 6 | 36229 | 36228 | 36230 |

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| Cutting Diameter d_1 | Length of Cut l_2 | Overall Length l_1 | Shank Diameter d_2 | No. of Flutes Z | Uncoated | Ti-NAMITE (TiN) | Ti-NAMITE-C (TiCN) |
|---------------------------|------------------------|-------------------------|-------------------------|----------------------|----------|-----------------|--------------------|
| | | | | | EDP No. | EDP No. | EDP No. |
| 1/4 | 3/4 | 2-1/2 | 1/4 | 3 | 36299 | 36307 | 36306 |
| 5/16 | 3/4 | 2-1/2 | 5/16 | 3 | 36300 | 36309 | 36308 |
| 3/8 | 7/8 | 2-1/2 | 3/8 | 3 | 36301 | 36313 | 36312 |
| 1/2 | 1 | 3 | 1/2 | 3 | 36302 | 36317 | 36316 |
| 5/8 | 1-1/4 | 3-1/2 | 5/8 | 3 | 36303 | 36321 | 36320 |
| 3/4 | 1-5/8 | 4 | 3/4 | 3 | 36304 | 36325 | 36324 |
| 1 | 1-3/4 | 4 | 1 | 3 | 36305 | 36329 | 36328 |

Roughers



Series 61 • 61M

Micrograin Solid Carbide
For MAXIMUM Stock Removal in Milling Operations on Mild Steel, Steel Alloys, Stainless Steel and Cast Iron.

Series 62 • 62M

Micrograin Solid Carbide
For MAXIMUM Stock Removal in Milling Operations on "Space Age Exotics" including Titanium, Inconel, Rene and Waspaloy

Series 63 • 63M

Micrograin Solid Carbide
For MAXIMUM Stock Removal in Milling Operations on Aluminum, Brass and Copper.

Desbastadoras



Serie 61 • 61M

Carburo sólido con micrograno
Para MÁXIMA extracción de material en operaciones de fresado con aceros de fácil mecanización, aceros aleados, aceros inoxidables y fundición.

Serie 62 • 62M

Carburo sólido con micrograno
Para MÁXIMA extracción de material en operaciones de fresado con "materiales de la era espacial" incluyendo el titanio, inconel, Rene y Waspaloy.

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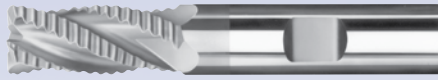
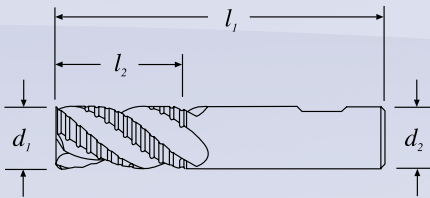
Carburo sólido con micrograno
Para MÁXIMA extracción de material en operaciones de fresado con aluminio, latón y cobre.

TOLERANCES

$d_1 = +0,000 - 0,10$
 $d_2 = +0,000 - 0,01$

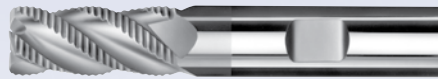
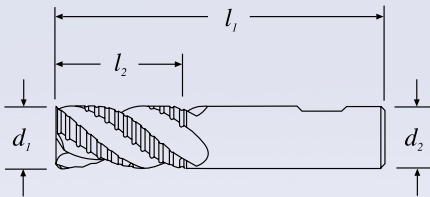
Corner Radius / Radio en punta / Rayon

$d_1 = 6\text{mm to } 8\text{mm} = 1,14$
 $d_1 = 10\text{mm to } 25\text{mm} = 1,52$



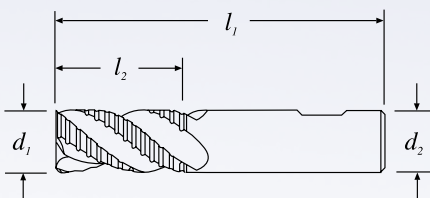
61M

| Cutting Diameter d_1 mm | Length of Cut l_2 mm | Overall Length l_1 mm | Shank Diameter d_2 mm | No. of Flutes Z | Ti-NAMITE (TiN) EDP No. | Ti-NAMITE-C (TiCN) EDP No. | Ti-NAMITE-A (AlTiN) EDP No. |
|---------------------------------|------------------------------|-------------------------------|-------------------------------|----------------------|----------------------------|-------------------------------|--------------------------------|
| 6 | 19 | 63 | 6 | 3 | 46107 | 46106 | 46110 |
| 8 | 19 | 63 | 8 | 3 | 46109 | 46108 | 46111 |
| 10 | 22 | 72 | 10 | 3 | 46113 | 46112 | 46114 |
| 12 | 26 | 83 | 12 | 4 | 46117 | 46116 | 46118 |
| 16 | 32 | 92 | 16 | 4 | 46121 | 46120 | 46122 |
| 20 | 38 | 104 | 20 | 4 | 46129 | 46128 | 46132 |
| 25 | 44 | 104 | 25 | 5 | 46131 | 46130 | 46133 |



62M

| Cutting Diameter d_1 mm | Length of Cut l_2 mm | Overall Length l_1 mm | Shank Diameter d_2 mm | No. of Flutes Z | Ti-NAMITE (TiN) EDP No. | Ti-NAMITE-C (TiCN) EDP No. | Ti-NAMITE-A (AlTiN) EDP No. |
|---------------------------------|------------------------------|-------------------------------|-------------------------------|----------------------|----------------------------|-------------------------------|--------------------------------|
| 6 | 19 | 63 | 6 | 3 | 46207 | 46206 | 46210 |
| 8 | 19 | 63 | 8 | 3 | 46209 | 46208 | 46211 |
| 10 | 22 | 72 | 10 | 3 | 46213 | 46212 | 46214 |
| 12 | 26 | 83 | 12 | 4 | 46217 | 46216 | 46218 |
| 16 | 32 | 92 | 16 | 4 | 46221 | 46220 | 46222 |
| 20 | 38 | 104 | 20 | 4 | 46229 | 46228 | 46232 |
| 25 | 44 | 104 | 25 | 6 | 46231 | 46230 | 46233 |



63M

| Cutting Diameter d_1 mm | Length of Cut l_2 mm | Overall Length l_1 mm | Shank Diameter d_2 mm | No. of Flutes Z | Uncoated EDP No. | Ti-NAMITE (TiN) EDP No. | Ti-NAMITE-C (TiCN) EDP No. |
|---------------------------------|------------------------------|-------------------------------|-------------------------------|----------------------|---------------------|----------------------------|-------------------------------|
| 6 | 19 | 63 | 6 | 3 | 46299 | 46307 | 46306 |
| 8 | 19 | 63 | 8 | 3 | 46300 | 46309 | 46308 |
| 10 | 22 | 72 | 10 | 3 | 46301 | 46313 | 46312 |
| 12 | 26 | 83 | 12 | 3 | 46302 | 46317 | 46316 |
| 16 | 32 | 92 | 16 | 3 | 46303 | 46321 | 46320 |
| 20 | 38 | 104 | 20 | 3 | 46304 | 46329 | 46328 |
| 25 | 44 | 104 | 25 | 3 | 46305 | 46331 | 46330 |

Ravageuses



Série 61 - 61M

Carbure monobloc, micrograin
Pour un enlèvement MAXIMAL de copeaux lors des opérations de fraisage de l'acier tendre, des alliages d'acier, de l'acier inoxydable et de la fonte.

Série 62 - 62M

Carbure monobloc, micrograin
Pour un enlèvement MAXIMAL de copeaux lors des opérations de fraisage de matière "exotiques de l'ère spatiale" telles que titane, inconel, alliage René et Waspaloy.

Série 63 - 63M

Carbure monobloc, micrograin
Pour un enlèvement MAXIMAL de copeaux lors des opérations de fraisage de l'aluminium, du laiton et du cuivre.

