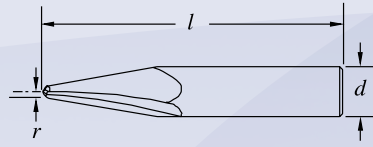


2 Flute – Straight Flute – 14° – Single End



TOLERANCES

$r = +.0005 - .001$
 $d = -.0001 - .0004$

Series 12



Micrograin Solid Carbide – 14° Die Sinking Cutter – 2 Straight Flutes – Ball End – Straight Shank – Right Hand Cutting

Serie 12



Carburo sólido con micrograno – Herramienta de copiado de matrices de 14° – 2 filos rectos – Punta esférica – Mango cilíndrico – Corte a derecha

Série 12



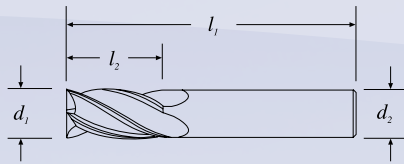
Carbure monobloc, micrograin – Fraise à matrices 14° – 2 dents droites – à bout hémisphérique – Queue cylindrique – Coupe à droite

Radius r	Overall Length l	Shank Diameter d	Uncoated	Ti-NAMITE (TiN)
			EDP No.	EDP No.
.030	1-1/2	1/8	31202	31201
.040	2	5/32	31204	31203
.046	2	3/16	31206	31205
.062	2-1/2	1/4	31208	31207
.078	2-1/2	5/16	31210	31209
.093	2-1/2	3/8	31212	31211
.109	2-3/4	7/16	31214	31213
.125	3	1/2	31216	31215

TOLERANCES

$$d_1 = +.000 - .002$$

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



Cutting Diameter d_1	Shank Diameter d_2	Overall Length l_1	Single End Length of Cut l_2	Double End Length of Cut l_2
1/8	1/8	1-1/2	1/2	1/4
3/16	3/16	2	5/8	3/8
1/4	1/4	2-1/2	3/4	1/2
5/16	5/16	2-1/2	13/16	1/2
3/8	3/8	2-1/2	1	9/16
1/2	1/2	3	1	5/8

End Mill Sets

Each End Mill Set Contains One Each:
1/8, 3/16, 1/4, 5/16, 3/8, 1/2

Coda Estuches

Coda Estuches Contiene:
1/8, 3/16, 1/4, 5/16, 3/8, 1/2

Chaque Coffret de Fraises

Chaque Coffret de Fraises Contient:
1/8, 3/16, 1/4, 5/16, 3/8, 1/2

	Square End Punta Plana Bout Plat EDP No.	Ball End Punta Esférica Bout Hemisphérique EDP No.	Square End Punta Plana Bout Plat Ti-NAMITE (TiN) EDP No.	Ball End Punta Esférica Bout Hemisphérique Ti-NAMITE (TiN) EDP No.
Series 1/1B – 4 Flute, Single End	30189	30190	39189	39190
Series 3/3B – 2 Flute, Single End	30389	30390	39389	39390
Series 5/5B – 3 Flute, Single End	30589	30590	39789	30900
Series 14/14B – 4 Flute, Double End	31489	31490	31481	31482
Series 15/15B – 2 Flute, Double End	31589	31590	31581	31582

	Square End Punta Plana Bout Plat Ti-NAMITE-C (TiCN) EDP No.	Ball End Punta Esférica Bout Hemisphérique Ti-NAMITE-C (TiCN) EDP No.	Square End Punta Plana Bout Plat Ti-NAMITE-A (AlTiN) EDP No.	Ball End Punta Esférica Bout Hemisphérique Ti-NAMITE-A (AlTiN) EDP No.
Series 1/1B – 4 Flute, Single End	39089	39090	30030	30070
Series 3/3B – 2 Flute, Single End	39589	39590	30470	30600
Series 5/5B – 3 Flute, Single End	30810	30944	30850	31169
Series 14/14B – 4 Flute, Double End	39641	39642	31190	31217
Series 15/15B – 2 Flute, Double End	39691	39692	31336	31357

