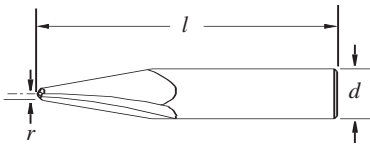


12



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



E

Series 12 - End Mills - Ball End
Micrograin Solid Carbide

14° Die Sinking Cutter - 2 Straight Flutes
- Straight Shank - Right Hand Cutting

ES

Fresas serie 12 - Punta esférica
Carburo sólido con micrograno

Herramienta de copiado de matrices de 14°
2 filos rectos - Zanco cilíndrico - Corte a derecha

FR

Fraises à queue à bout
hémisphérique Série 12

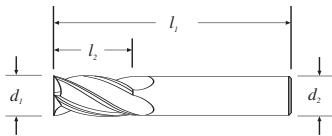
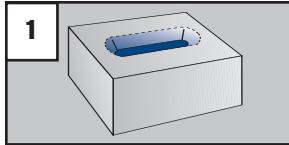
Carbure monobloc, micrograin

Fraise à matrices 14° - 2 dents droites - Queue
cylindrique - Coupe à droite

TOLERANCES

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

1



Cutting Diameter	Shank Diameter	Overall Length	Single End Length of Cut	Double End Length of Cut
d ₁	d ₂	l ₁	l ₂	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



TOLERANCES

d₁ = +.000-.002
d₂ = -.0001-.0004

E

Each End Mill Set
Contains One

Each: 1/8, 3/16,
1/4, 5/16, 3/8, 1/2

ES

Cada Estuches

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

FR

Chaque Coffret de
Fraises Contient:

1/8, 3/16, 1/4,
5/16, 3/8, 1/2

	Square End Punta Plana Bout Plat	Ball End Punta Esférica Bout Hemisphérique	Square End Punta Plana Bout Plat	Ball End Punta Esférica Bout Hemisphérique
	EDP No.	EDP No.	Ti-NAMITE (TiN) EDP No.	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	Ball End Punta Esférica Bout Hemisphérique	Square End Punta Plana Bout Plat	Ball End Punta Esférica Bout Hemisphérique
	Ti-NAMITE-C (TiCN) EDP No.	Ti-NAMITE-C (TiCN) EDP No.	Ti-NAMITE-A (AlTiN) EDP No.	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