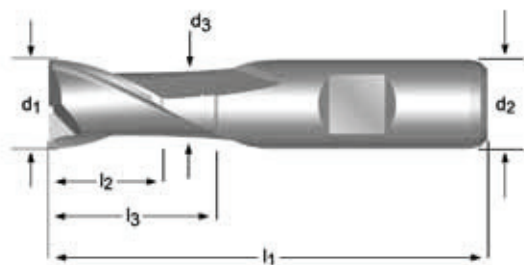




- C110**
- 钻铣刀
 - Fresa de topo para canais
- C126**
- Fresas Frontales
 - Slot Drill

C110	▪	1.1	1.2	4.1	5.1	6.1	6.2	6.3	•	1.3	1.4	2.1	3.1	3.2	3.3	3.4	4.2	5.2	7.1	7.2	7.3	8.1							
C126	▪	1.1	1.2	1.3	1.4	3.1	3.2	3.3	3.4	4.1	4.2	5.1	5.2	6.1	6.2	6.3	•	1.5	1.6	2.1	2.3	4.3	5.3	6.4	7.1	7.2	7.3	7.4	8.1



d_1 Ø Inch	d_1 Ø mm	d_2 Ø _{h6} mm	l_2 mm	l_1 mm	z	l_3 mm	d_3 Ø mm	C110	C126
	1.00	6	2.5	47	2	-	-	C1101.0	C1261.0
	1.50	6	3	47	2	-	-	C1101.5	C1261.5
1/16	1.59	6	3	47	2	-	-	C1101/16	
	1.80	6	4	48	2	-	-	C1101.8	
	2.00	6	4	48	2	-	-	C1102.0	C1262.0
3/32	2.38	6	5	49	2	-	-	C1103/32	
	2.50	6	5	49	2	-	-	C1102.5	C1262.5
	2.80	6	5	49	2	-	-	C1102.8	
	3.00	6	5	49	2	-	-	C1103.0	C1263.0
1/8	3.18	6	6	50	2	-	-	C1101/8	
	3.50	6	6	50	2	-	-	C1103.5	C1263.5
	3.80	6	7	51	2	-	-	C1103.8	
	4.00	6	7	51	2	-	-	C1104.0	C1264.0
	4.50	6	7	51	2	-	-	C1104.5	C1264.5
3/16	4.76	6	8	52	2	-	-	C1103/16	
	4.80	6	8	52	2	-	-	C1104.8	²⁾³⁾ C1264.8 ²⁾³⁾
	5.00	6	8	52	2	-	-	C1105.0	C1265.0
	5.50	6	8	52	2	-	-	C1105.5	C1265.5
	5.75	6	8	52	2	-	-	C1105.75	²⁾³⁾ C1265.75 ²⁾³⁾
	6.00	6	8	52	2	-	-	C1106.0	C1266.0
1/4	6.35	10	10	60	2	-	-	C1101/4	
	6.50	10	10	60	2	-	-	C1106.5	C1266.5
	6.75	10	10	60	2	-	-	C1106.75	
	7.00	10	10	60	2	-	-	C1107.0	C1267.0
	7.50	10	10	60	2	-	-	C1107.5	C1267.5
	7.75	10	11	61	2	-	-	C1107.75	²⁾³⁾ C1267.75 ²⁾³⁾
5/16	7.94	10	11	61	2	-	-	C1105/16	
	8.00	10	11	61	2	-	-	C1108.0	C1268.0

²⁾ 直径公差: h10 / Tolerância do Diâmetro h10 / Tolerancia diámetro h10 / diameter tolerance h10

³⁾ 公差P9的二刃立铣刀 / ≠ P9 tolerância / ≠ P9 / slot not in P9 tolerance

d ₁ Ø Inch	d ₁ Ø mm	d ₂ Øh ₆ mm	l ₂ mm	l ₁ mm	z	l ₃ mm	d ₃ Ø mm	C110	C126
	8.50	10	11	61	2	-	-	C1108.5	C1268.5
	9.00	10	11	61	2	-	-	C1109.0	C1269.0
	9.50	10	11	61	2	-	-	C1109.5	C1269.5
3/8	9.52	10	13	63	2	22.5	9.5	C1103/8	
	9.70	10	13	63	2	22.5	9.5	C1109.7 ²⁾³⁾	C1269.7 ²⁾³⁾
	10.00	10	13	63	2	22.5	9.5	C11010.0	C12610.0
13/32	10.32	12	13	70	2	-	-	C11013/32	
	10.50	12	13	70	2	-	-	C11010.5	C12610.5
	11.00	12	13	70	2	-	-	C11011.0	C12611.0
7/16	11.11	12	13	70	2	-	-	C1107/16	
	11.50	12	13	70	2	-	-	C11011.5	C12611.5
	11.70	12	16	73	2	27.5	11.5	C11011.7 ²⁾³⁾	C12611.7 ²⁾³⁾
	12.00	12	16	73	2	27.5	11.5	C11012.0	C12612.0
	12.50	12	16	73	2	27.5	11.5	C11012.5	C12612.5
1/2	12.70	12	16	73	2	27.5	11.5	C1101/2	
	13.00	12	16	73	2	27.5	11.5	C11013.0	C12613.0
17/32	13.49	12	16	73	2	27.5	11.5	C11017/32	
	13.70	12	16	73	2	27.5	11.5	C11013.7 ²⁾³⁾	C12613.7 ²⁾³⁾
	14.00	12	16	73	2	27.5	11.5	C11014.0	C12614.0
9/16	14.29	12	16	73	2	27.5	11.5	C1109/16	
	15.00	12	16	73	2	27.5	11.5	C11015.0	C12615.0
	15.70	16	19	79	2	30.5	15.5	C11015.7 ²⁾³⁾	C12615.7 ²⁾³⁾
5/8	15.88	16	19	79	2	30.5	15.5	C1105/8	
	16.00	16	19	79	2	30.5	15.5	C11016.0	C12616.0
	17.00	16	19	79	2	30.5	15.5	C11017.0	
11/16	17.46	16	19	79	2	30.5	15.5	C11011/16	
	17.70	16	19	79	2	30.5	15.5	C11017.7	
	18.00	16	19	79	2	30.5	15.5	C11018.0	C12618.0
	19.00	16	19	79	2	30.5	15.5	C11019.0	
3/4	19.05	20	22	88	2	37.5	18.5	C1103/4	
	19.70	20	22	88	2	37.5	19.5	C11019.7	
	20.00	20	22	88	2	37.5	19.5	C11020.0	C12620.0
	21.70	20	22	88	2	37.5	19.5	C11021.7	
	22.00	20	22	88	2	37.5	19.5	C11022.0	C12622.0
7/8	22.22	20	22	88	2	37.5	19.5	C1107/8	
	24.00	25	26	102	2	45.5	23.5	C11024.0	C12624.0
	24.70	25	26	102	2	45.5	24.5	C11024.7	
	25.00	25	26	102	2	45.5	24.5	C11025.0	C12625.0
1"	25.40	25	26	102	2	45.5	24.5	C1101	
	26.00	25	26	102	2	45.5	24.5	C11026.0	
	28.00	25	26	102	2	45.5	24.5	C11028.0	
1.1/8	28.58	25	26	102	2	45.5	24.5	C1101.1/8	
	30.00	25	26	102	2	45.5	24.5	C11030.0	C12630.0
1.1/4	31.75	32	32	112	2	51.5	31.5	C1101.1/4	
	32.00	32	32	112	2	51.5	31.5	C11032.0	
	35.00	32	32	112	2	51.5	31.5	C11035.0 ²⁾⁴⁾	
	36.00	32	32	112	2	51.5	31.5	C11036.0 ²⁾⁴⁾	
1.1/2	38.10	40	38	130	2	55.5	37.0	C1101.1/2 ²⁾⁴⁾	
	40.00	40	38	130	2	59.5	39.0	C11040.0 ²⁾⁴⁾	
1.3/4	44.45	40	38	130	2	59.5	38.0	C1101.3/4 ²⁾⁴⁾	
	45.00	40	38	130	2	59.5	38.0	C11045.0 ²⁾⁴⁾	
	50.00	50	45	147	2	66.5	48.0	C11050.0 ²⁾⁴⁾	

²⁾ 直径公差: h10 / Tolerância do Diâmetro h10 / Tolerancia diámetro h10 / diameter tolerance h10

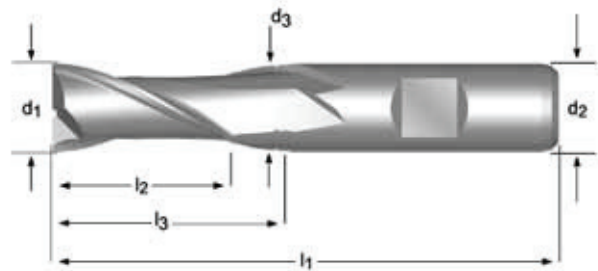
³⁾ 公差P9的二刃立铣刀 / ≠ P9 tolerância / ≠ P9 / slot not in P9 tolerance

⁴⁾ 仅供HSS-E产品 / Disponível apenas em HSS-E / Disponible solo en HSS-E / Available in HSS-E only



- C123**
- 钻铣刀
 - Fresa de topo para canais
- C139**
- Fresas Frontales
 - Slot Drill

C123	▪	1.1	1.2	1.3	1.4	4.1	5.1	6.1	6.2	6.3						
	•	2.1	3.1	3.2	3.3	3.4	4.2	5.2	7.1	7.2	7.3	8.1				
C139	▪	1.1	1.2	1.3	1.4	3.1	3.2	3.3	3.4	4.1	4.2	5.1	5.2	6.1	6.2	6.3
	•	1.5	1.6	2.1	2.3	4.3	5.3	6.4	7.1	7.2	7.3	7.4	8.1			



d_1 Ø Inch	d_1 Ø mm	d_2 Ø _{h6} mm	l_2 mm	l_1 mm	z	l_3 mm	d_3 Ø mm	C123	C139
1/16	1.59	6	7	51	2	-	-	C1231/16 ⁴⁾	
	2.00	6	7	51	2	-	-	C1232.0	C1392.0
	2.50	6	8	52	2	-	-	C1232.5	C1392.5
1/8	3.00	6	8	52	2	-	-	C1233.0	C1393.0
	3.18	6	10	54	2	-	-	C1231/8 ⁴⁾	
	3.50	6	10	54	2	-	-	C1233.5	C1393.5
5/32	3.97	6	11	55	2	-	-	C1235/32 ⁴⁾	
	4.00	6	11	55	2	-	-	C1234.0	C1394.0
	4.50	6	11	55	2	-	-	C1234.5	C1394.5
3/16	4.76	6	13	57	2	-	-	C1233/16 ⁴⁾	
	5.00	6	13	57	2	-	-	C1235.0	C1395.0
	5.50	6	13	57	2	-	-	C1235.5	C1395.5
1/4	6.00	6	13	57	2	-	-	C1236.0	C1396.0
	6.35	10	16	66	2	-	-	C1231/4 ⁴⁾	
	6.50	10	16	66	2	-	-	C1236.5	C1396.5
5/16	7.00	10	16	66	2	-	-	C1237.0	C1397.0
	7.50	10	16	66	2	-	-	C1237.5	C1397.5
	7.94	10	19	69	2	-	-	C1235/16 ⁴⁾	
3/8	8.00	10	19	69	2	-	-	C1238.0	C1398.0
	8.50	10	19	69	2	-	-	C1238.5	C1398.5
	9.00	10	19	69	2	-	-	C1239.0	C1399.0
3/8	9.50	10	19	69	2	-	-	C1239.5	C1399.5
	9.52	10	22	72	2	31.5	9.5	C1233/8 ⁴⁾	
	10.00	10	22	72	2	31.5	9.5	C12310.0	C13910.0
3/8	11.00	12	22	79	2	-	-	C12311.0	C13911.0
	12.00	12	26	83	2	37.5	11.5	C12312.0	C13912.0

⁴⁾ 直径公差: - 0.0005 英寸 / - 0.0013 英寸 / tolerância do diâmetro -0.0005 polegadas / -0.0013 polegadas / Tolerancia diámetro -.0005 pulgadas / -.0013 pulgadas / diameter tolerance -0.0005 inches / -0.0013 inches

d_1 Ø Inch	d_1 Ø mm	d_2 Ø _{h6} mm	l_2 mm	l_1 mm	z	l_3 mm	d_3 Ø mm	C123	C139
1/2	12.70	12	26	83	2	37.5	11.5	C1231/2 ⁴⁾	
	13.00	12	26	83	2	37.5	11.5	C12313.0	C13913.0
	14.00	12	26	83	2	37.5	11.5	C12314.0	C13914.0
9/16	14.29	12	26	83	2	37.5	11.5	C1239/16 ⁴⁾	
	15.00	12	26	83	2	37.5	11.5	C12315.0	C13915.0
5/8	15.88	16	32	92	2	43.5	15.5	C1235/8 ⁴⁾	
	16.00	16	32	92	2	43.5	15.5	C12316.0	C13916.0
	18.00	16	32	92	2	43.5	15.5	C12318.0	C13918.0
3/4	19.05	20	38	104	2	53.5	18.5	C1233/4 ⁵⁾	
	20.00	20	38	104	2	53.5	19.5	C12320.0	C13920.0
	22.00	20	38	104	2	53.5	19.5	C12322.0	C13922.0
	25.00	25	45	121	2	64.5	24.5	C12325.0	C13925.0
1"	25.40	25	45	121	2	64.5	24.5	C1231	
	30.00	25	45	121	2	64.5	24.5	C12330.0	C13930.0
	32.00	32	53	133	2	72.5	31.5	C12332.0	
	36.00	32	53	133	2	72.5	31.5	C12336.0 ⁶⁾	
	38.10	40	63	155	2	84.5	37.0	C1231.1/2 ⁶⁾⁵⁾	
1.1/2	40.00	40	63	155	2	84.5	39.0	C12340.0 ⁶⁾	

⁴⁾ 直径公差: - 0.0005 英寸 / - 0.0013 英寸 / tolerância do diâmetro -0.0005 polegadas / -0.0013 polegadas / Tolerancia diámetro -.0005 pulgadas / -.0013 pulgadas / diameter tolerance -0.0005 inches / -0.0013 inches

⁵⁾ 直径公差: - 0.0005 英寸 / - 0.0015 英寸 / tolerância do diâmetro -0.0005 polegadas / -0.0015 polegadas / Tolerancia diámetro -.0005 pulgadas / -.0015 pulgadas / diameter tolerance -0.0005 inches / -0.0015 inches

⁶⁾ 仅供HSS-E产品 / Disponível apenas em HSS-E / Disponible solo en HSS-E / Available in HSS-E only

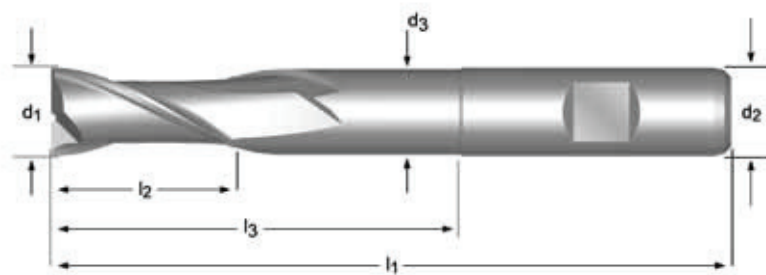
C135



- 钻铣刀
- Fresa de topo para canais
- Fresas Frontales
- Slot Drill

C135

C135	▪	1.1	1.2	5.1	6.1	6.2	6.3										
	•	1.3	1.4	2.1	3.1	3.2	3.3	3.4	4.1	4.2	5.2	7.1	7.2	7.3	8.1		



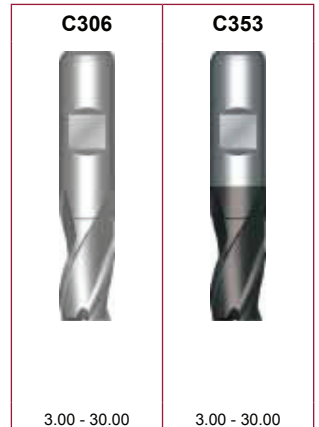
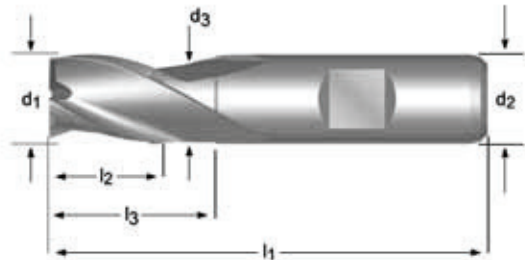
2.00 - 30.00

d_1 Ø mm	d_2 Ø _{h6} mm	l_2 mm	l_1 mm	z	l_3 mm	d_3 Ø mm	C135
2.00	6	7	54	2	18.0	1.8	C1352.0
3.00	6	8	56	2	20.0	2.8	C1353.0
4.00	6	11	63	2	27.0	3.7	C1354.0
5.00	6	13	68	2	32.0	4.7	C1355.0
6.00	6	13	68	2	32.0	5.7	C1356.0
7.00	10	16	80	2	40.0	6.5	C1357.0
8.00	10	19	88	2	48.0	7.5	C1358.0
9.00	10	19	88	2	48.0	8.5	C1359.0
10.00	10	22	95	2	54.5	9.5	C13510.0
11.00	12	22	102	2	57.0	10.5	C13511.0
12.00	12	26	110	2	64.5	11.5	C13512.0
13.00	12	26	110	2	64.5	11.5	C13513.0
14.00	12	26	110	2	64.5	11.5	C13514.0
15.00	12	26	110	2	64.5	11.5	C13515.0
16.00	16	32	123	2	74.5	15.5	C13516.0
17.00	16	32	123	2	74.5	15.5	C13517.0
18.00	16	32	123	2	74.5	15.5	C13518.0
19.00	16	32	123	2	74.5	15.5	C13519.0
20.00	20	38	141	2	90.5	19.5	C13520.0
25.00	25	45	166	2	109.5	24.5	C13525.0
30.00	25	45	166	2	109.5	24.5	C13530.0



- C306**
- 钻铣刀
 - Fresa de topo para canales
- C353**
- Fresas Frontales
 - Slot Drill

C306	▪	1.2	1.3	4.1	5.1	6.1	6.2	6.3								
	•	1.1	1.4	2.1	3.1	3.2	3.3	3.4	4.2	5.2	7.2	7.3	8.1			
C353	▪	1.2	1.3	1.4	1.5	3.1	3.2	3.3	3.4	4.1	4.2	5.1	5.2	6.1	6.2	6.3
	•	1.1	1.6	2.1	2.2	2.3	4.3	5.3	6.4	7.2	7.3	7.4	8.1			



d ₁ Ø mm	d ₂ Øh ₆ mm	l ₂ mm	l ₁ mm	z	l ₃ mm	d ₃ Ø mm	C306	C353
3.00	6	5	49	3	-	-	C3063.0	C3533.0
3.50	6	6	50	3	-	-	C3063.5	C3533.5
4.00	6	7	51	3	-	-	C3064.0	C3534.0
4.50	6	7	51	3	-	-	C3064.5	C3534.5
4.80	6	8	52	3	-	-	C3064.8	C3534.8
5.00	6	8	52	3	-	-	C3065.0	C3535.0
5.50	6	8	52	3	-	-	C3065.5	C3535.5
5.75	6	8	52	3	-	-	C3065.75	C3535.75
6.00	6	8	52	3	-	-	C3066.0	C3536.0
6.50	10	10	60	3	-	-	C3066.5	C3536.5
7.00	10	10	60	3	-	-	C3067.0	C3537.0
7.50	10	10	60	3	-	-	C3067.5	C3537.5
7.75	10	11	61	3	-	-	C3067.75	C3537.75
8.00	10	11	61	3	-	-	C3068.0	C3538.0
8.50	10	11	61	3	-	-	C3068.5	C3538.5
9.00	10	11	61	3	-	-	C3069.0	C3539.0
9.50	10	11	61	3	-	-	C3069.5	C3539.5
9.70	10	13	63	3	22.5	9.5	C3069.7	C3539.7
10.00	10	13	63	3	22.5	9.5	C30610.0	C35310.0
11.00	12	13	70	3	-	-	C30611.0	C35311.0
11.70	12	16	73	3	27.5	11.5	C30611.7	C35311.7
12.00	12	16	73	3	27.5	11.5	C30612.0	C35312.0
13.00	12	16	73	3	27.5	11.5	C30613.0	C35313.0
13.70	12	16	73	3	27.5	11.5	C30613.7	C35313.7
14.00	12	16	73	3	27.5	11.5	C30614.0	C35314.0
15.00	12	16	73	3	27.5	11.5	C30615.0	C35315.0
15.70	16	19	79	3	30.5	15.5	C30615.7	C35315.7
16.00	16	19	79	3	30.5	15.5	C30616.0	C35316.0
18.00	16	19	79	3	30.5	15.5	C30618.0	C35318.0
19.00	16	19	79	3	30.5	15.5	C30619.0	C35319.0
19.70	20	22	88	3	37.5	19.5	C30619.7	C35319.7

d_1 Ø mm	d_2 Ø _{h₅} mm	l_2 mm	l_1 mm	z	l_3 mm	d_3 Ø mm	C306	C353
20.00	20	22	88	3	37.5	19.5	C30620.0	C35320.0
22.00	20	22	88	3	37.5	19.5	C30622.0	C35322.0
25.00	25	26	102	3	45.5	24.5	C30625.0	C35325.0
28.00	25	26	102	3	45.5	24.5	C30628.0	C35328.0
30.00	25	26	102	3	45.5	24.5	C30630.0	C35330.0

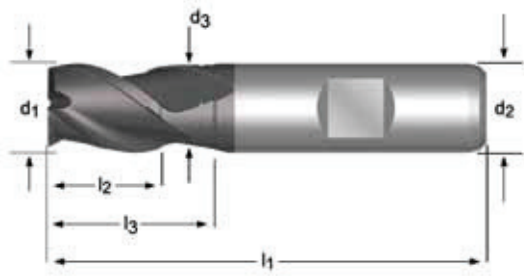
C367



- 钻铣刀
- Fresa de topo para canales
- Fresas Frontales
- Slot Drill

C367

C367	■	1.1	1.2	2.1	2.2	2.3	2.4	6.1	7.1
	•	1.3	1.4	4.1	5.1	6.2	6.3	7.2	7.3

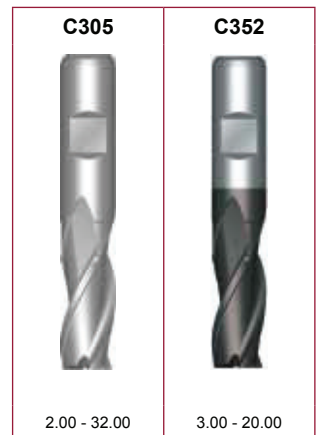
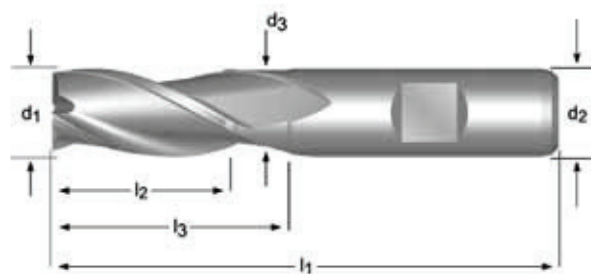


d_1 Ø mm	d_2 Ø _{h6} mm	l_2 mm	l_1 mm	z	l_3 mm	d_3 Ø mm	C367
2.00	6	4	48	3	-	-	C3672.0
3.00	6	5	49	3	-	-	C3673.0
4.00	6	7	51	3	-	-	C3674.0
5.00	6	8	52	3	-	-	C3675.0
6.00	6	8	52	3	-	-	C3676.0
7.00	10	10	60	3	-	-	C3677.0
8.00	10	11	61	3	-	-	C3678.0
9.00	10	11	61	3	-	-	C3679.0
10.00	10	13	63	3	22.5	9.5	C36710.0
11.00	12	13	70	3	-	-	C36711.0
12.00	12	16	73	3	27.5	11.5	C36712.0
13.00	12	16	73	3	27.5	11.5	C36713.0
14.00	12	16	73	3	27.5	11.5	C36714.0
15.00	12	16	73	3	27.5	11.5	C36715.0
16.00	16	19	79	3	30.5	15.5	C36716.0
18.00	16	19	79	3	30.5	15.5	C36718.0
20.00	20	22	88	3	37.5	19.5	C36720.0



- C305**
- 钻铣刀
 - Fresa de topo para canales
- C352**
- Fresas Frontales
 - Slot Drill

C305	▪	1.2	1.3	4.1	5.1	5.2	6.1	6.2	6.3									
	•	1.1	1.4	2.1	3.1	3.2	3.3	3.4	4.2	7.2	7.3	8.1						
C352	▪	1.2	1.3	1.4	1.5	3.1	3.2	3.3	3.4	4.1	4.2	5.1	5.2	6.1	6.2	6.3		
	•	1.1	1.6	2.1	2.2	2.3	4.3	5.3	6.4	7.2	7.3	7.4	8.1					

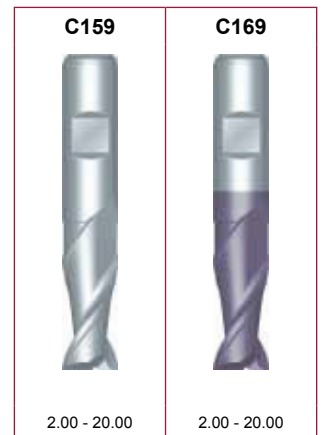
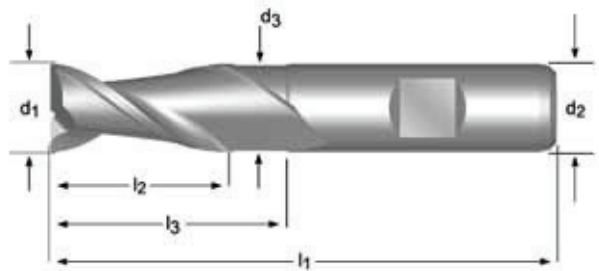


d_1 Ø mm	d_2 Ø _{h6} mm	l_2 mm	l_1 mm	z	l_3 mm	d_3 Ø mm	C305	C352
2.00	6	7	51	3	-	-	C3052.0	
2.50	6	8	52	3	-	-	C3052.5	
3.00	6	8	52	3	-	-	C3053.0	C3523.0
3.50	6	10	54	3	-	-	C3053.5	
4.00	6	11	55	3	-	-	C3054.0	C3524.0
4.50	6	11	55	3	-	-	C3054.5	
5.00	6	13	57	3	-	-	C3055.0	C3525.0
5.50	6	13	57	3	-	-	C3055.5	
6.00	6	13	57	3	-	-	C3056.0	C3526.0
6.50	10	16	66	3	-	-	C3056.5	
7.00	10	16	66	3	-	-	C3057.0	
7.50	10	16	66	3	-	-	C3057.5	
8.00	10	19	69	3	-	-	C3058.0	C3528.0
8.50	10	19	69	3	-	-	C3058.5	
9.00	10	19	69	3	-	-	C3059.0	
10.00	10	22	72	3	31.5	9.5	C30510.0	C35210.0
11.00	12	22	79	3	-	-	C30511.0	
12.00	12	26	83	3	37.5	11.5	C30512.0	C35212.0
13.00	12	26	83	3	37.5	11.5	C30513.0	
14.00	12	26	83	3	37.5	11.5	C30514.0	C35214.0
15.00	12	26	83	3	37.5	11.5	C30515.0	
16.00	16	32	92	3	43.5	15.5	C30516.0	C35216.0
17.00	16	32	92	3	43.5	15.5	C30517.0	
18.00	16	32	92	3	43.5	15.5	C30518.0	C35218.0
19.00	16	32	92	3	43.5	15.5	C30519.0	
20.00	20	38	104	3	53.5	19.5	C30520.0	C35220.0
22.00	20	38	104	3	53.5	19.5	C30522.0	
25.00	25	45	121	3	-	-	C30525.0	
28.00	25	45	121	3	-	-	C30528.0	
30.00	25	45	121	3	-	-	C30530.0	
32.00	32	53	133	3	-	-	C30532.0	



- C159**
- 钻铣刀
 - Fresa de topo para canales
- C169**
- Fresas Frontales
 - Slot Drill

C159	▪	1.1	6.1	6.2	6.3	7.1	7.2	7.3	8.1	8.2	
	•	1.2	1.3	2.1	2.2	4.1	5.1				
C169	▪	1.1	1.2	6.1	6.2	6.3	7.1	7.2	7.3	8.1	8.2
	•	1.3	2.1	2.2	2.3	4.1	4.2	5.1	5.2		

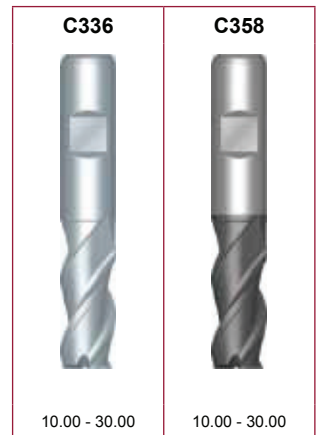
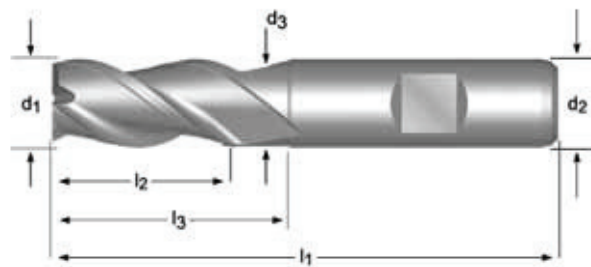


d_1 Ø mm	d_2 Ø _{h6} mm	l_2 mm	l_1 mm	z	l_3 mm	d_3 Ø mm	C159	C169
2.00	6	7	51	2	-	-	C1592.0	C1692.0
3.00	6	8	52	2	-	-	C1593.0	C1693.0
4.00	6	11	55	2	-	-	C1594.0	C1694.0
5.00	6	13	57	2	-	-	C1595.0	C1695.0
6.00	6	13	57	2	-	-	C1596.0	C1696.0
7.00	10	16	66	2	-	-	C1597.0	C1697.0
8.00	10	19	69	2	-	-	C1598.0	C1698.0
10.00	10	22	72	2	-	-	C15910.0	C16910.0
11.00	12	22	79	2	-	-	C15911.0	
12.00	12	26	83	2	-	-	C15912.0	C16912.0
14.00	12	26	83	2	37.5	11.5	C15914.0	C16914.0
16.00	16	32	92	2	43.5	15.5	C15916.0	C16916.0
18.00	16	32	92	2	43.5	15.5	C15918.0	C16918.0
20.00	20	38	104	2	53.5	19.5	C15920.0	C16920.0



- C336**
- 立铣刀
 - Fresa de Topo
- C358**
- Fresas de acabado
 - End Mill

C336	▪	6.1	6.2	6.3	7.1	7.2	7.3	8.1	8.2		
	•	1.1	1.2	1.3	2.1	2.2	4.1	5.1			
C358	▪	1.2	6.1	6.2	6.3	7.1	7.2	7.3	7.4	8.1	8.2
	•	1.1	1.3	2.1	2.2	2.3	4.1	4.2	5.1	5.2	



d_1 Ø mm	d_2 Ø _{h6} mm	l_2 mm	l_1 mm	z	l_3 mm	d_3 Ø mm	C336	C358
10.00	10	22	72	3	31.5	9.5	C33610.0	C35810.0
12.00	12	26	83	3	37.5	11.5	C33612.0	C35812.0
14.00	12	26	83	3	37.5	11.5	C33614.0	C35814.0
15.00	12	26	83	3	37.5	11.5	C33615.0	
16.00	16	32	92	3	43.5	15.5	C33616.0	C35816.0
18.00	16	32	92	3	43.5	15.5	C33618.0	C35818.0
20.00	20	38	104	3	53.5	19.5	C33620.0	C35820.0
22.00	20	38	104	3	53.5	19.5	C33622.0	C35822.0
25.00	25	45	121	3	64.5	24.5	C33625.0	C35825.0
30.00	25	45	121	3	64.5	24.5	C33630.0	C35830.0

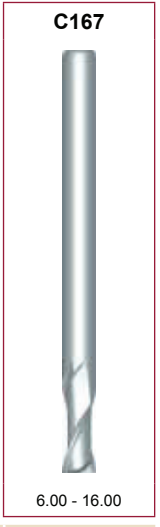
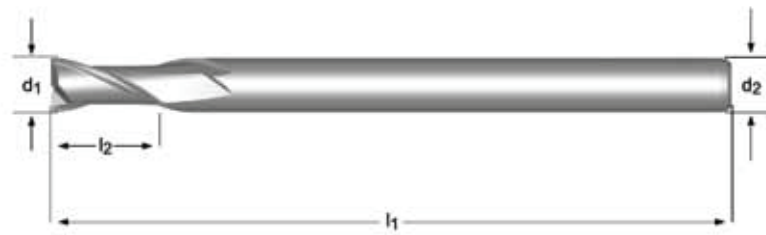
C167



- 立铣刀
- Fresa de Topo
- Fresas de acabado
- End Mill

C167

C167	▪	1.1	1.2	5.1	6.1	6.2	6.3								
	•	1.3	1.4	2.1	3.1	3.2	3.3	3.4	4.1	4.2	5.2	7.1	7.2	7.3	8.1



d_1 Ø mm	d_2 Ø _{h6} mm	l_2 mm	l_1 mm	z	C167
6.00	6	13	180	2	C1676.0
8.00	8	19	180	2	C1678.0
10.00	10	22	200	2	C16710.0
12.00	12	26	200	2	C16712.0
16.00	16	32	200	2	C16716.0

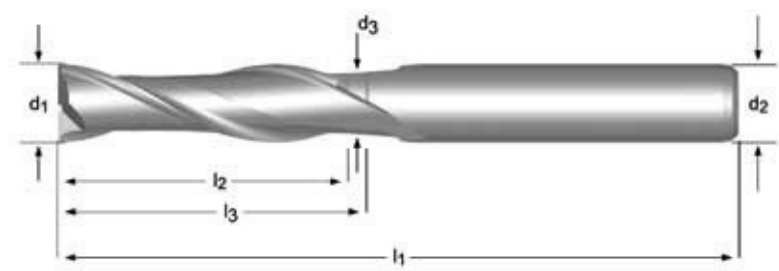
C122



C122

- 立铣刀
- Fresa de Topo
- Fresas de acabado
- End Mill

C122	▪	1.1	1.2	5.1	6.1	6.2	6.3								
	▪	1.3	1.4	2.1	3.1	3.2	3.3	3.4	4.1	4.2	5.2	7.1	7.2	7.3	8.1



d_1 Ø mm	d_2 Ø _{h6} mm	l_2 mm	l_1 mm	z	l_3 mm	d_3 Ø mm	C122
5.00	5	22	65	2	-	-	C1225.0
6.00	6	27	75	2	-	-	C1226.0
7.00	8	33	85	2	-	-	C1227.0
8.00	8	33	85	2	-	-	C1228.0
10.00	10	40	95	2	-	-	C12210.0
12.00	12	45	110	2	-	-	C12212.0
14.00	12	52	125	2	-	-	C12214.0
16.00	16	58	140	2	69.5	15.5	C12216.0
18.00	16	65	150	2	76.5	15.5	C12218.0
20.00	20	70	160	2	85.5	19.5	C12220.0
22.00	20	75	170	2	90.5	19.5	C12222.0
25.00	25	82	185	2	101.5	24.5	C12225.0
30.00	25	90	205	2	109.5	24.5	C12230.0

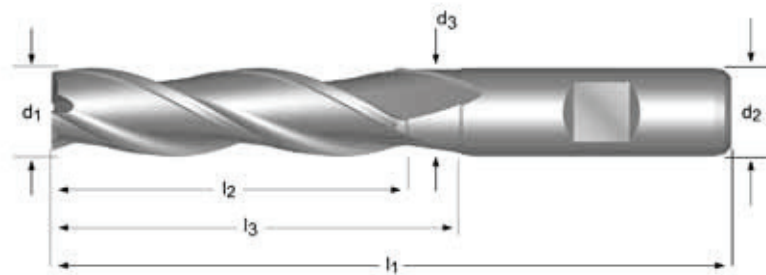
C346



- 立铣刀
- Fresa de Topo
- Fresas de acabado
- End Mill

C346

C346	■	1.2	4.1	5.1	6.1	6.2	6.3								
	•	1.1	1.3	1.4	2.1	3.1	3.2	3.3	3.4	4.2	5.2	7.1	7.2	8.1	

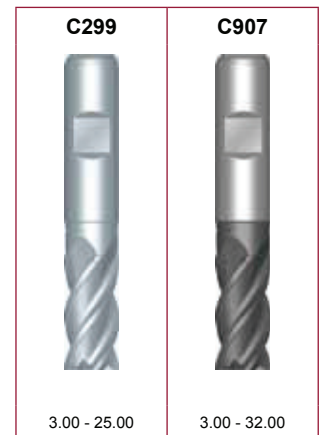
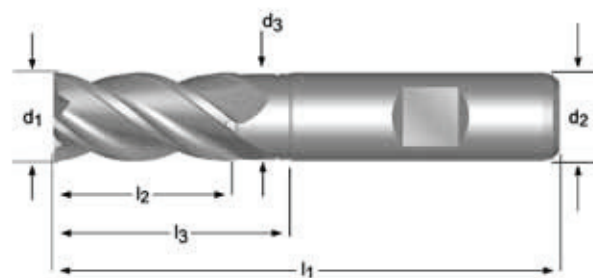


d_1 Ø mm	d_2 Ø _{h8} mm	l_2 mm	l_1 mm	z	l_3 mm	d_3 Ø mm	C346
3.00	6	12	56	3	-	-	C3463.0
4.00	6	19	63	3	-	-	C3464.0
5.00	6	24	68	3	-	-	C3465.0
6.00	6	24	68	3	-	-	C3466.0
7.00	10	30	80	3	-	-	C3467.0
8.00	10	38	88	3	-	-	C3468.0
9.00	10	38	88	3	-	-	C3469.0
10.00	10	45	95	3	-	-	C34610.0
11.00	12	45	102	3	-	-	C34611.0
12.00	12	53	110	3	-	-	C34612.0
13.00	12	53	110	3	64.5	11.5	C34613.0
14.00	12	53	110	3	64.5	11.5	C34614.0
15.00	12	53	110	3	64.5	11.5	C34615.0
16.00	16	63	123	3	74.5	15.5	C34616.0
18.00	16	63	123	3	74.5	15.5	C34618.0
20.00	20	75	141	3	90.5	19.5	C34620.0



- C299**
- 立铣刀
 - Fresa de Topo
- C907**
- Fresas de acabado
 - End Mill

C299	▪	1.3	1.4	1.5	2.1	2.3	3.1	3.2	3.3	3.4	4.2	4.3	5.1	5.2	5.3	6.2	7.4		
	•	1.6	2.2	4.1															
C907	▪	1.3	1.4	1.5	1.6	2.1	2.2	2.3	3.1	3.2	3.3	3.4	4.2	4.3	5.1	5.2	5.3	6.2	7.4
	•	4.1																	

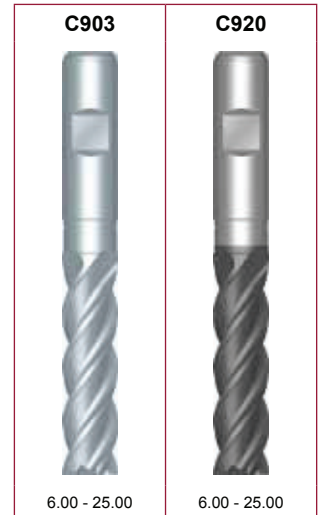
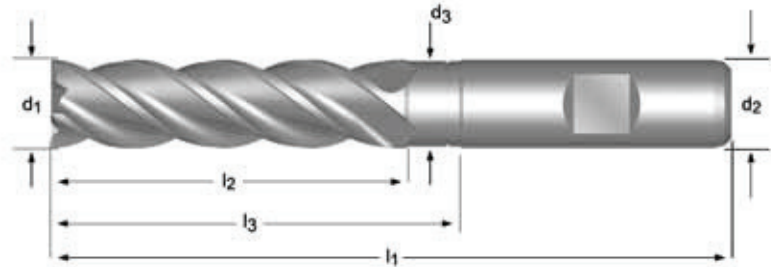


d_1 Ø mm	d_2 Ø _{h6} mm	l_2 mm	l_1 mm	z	l_3 mm	d_3 Ø mm	C299	C907
3.00	6	8	52	3	-	-	C2993.0	C9073.0
4.00	6	11	55	3	-	-	C2994.0	C9074.0
5.00	6	13	57	3	-	-	C2995.0	C9075.0
6.00	6	13	57	3	-	-	C2996.0	C9076.0
8.00	10	19	69	4	-	-	C2998.0	C9078.0
10.00	10	22	72	4	31.5	9.5	C29910.0	C90710.0
12.00	12	26	83	4	37.5	11.5	C29912.0	C90712.0
14.00	12	26	83	4	37.5	11.5	C29914.0	C90714.0
16.00	16	32	92	4	43.5	15.5	C29916.0	C90716.0
18.00	16	32	92	4	43.5	15.5	C29918.0	C90718.0
20.00	20	38	104	4	53.5	19.5	C29920.0	C90720.0
22.00	20	38	104	5	53.5	19.5		C90722.0
25.00	25	45	121	5	64.5	24.5	C29925.0	C90725.0
28.00	25	45	121	6	64.5	24.5		C90728.0
30.00	25	45	121	6	64.5	24.5		C90730.0
32.00	32	53	133	6	72.5	31.5		C90732.0

C903	HSS-E PM		N	Z 3-5		$\lambda 45^\circ$ $\gamma 12^\circ$	DIN 1835B		k10		DIN 844L
C920	HSS-E PM		N	Z 3-5		$\lambda 45^\circ$ $\gamma 12^\circ$	DIN 1835B	Alcrona	k10		DIN 844L

- C903**
- 立铣刀
 - Fresa de Topo
- C920**
- Fresas de acabado
 - End Mill

C903	▪	1.3	1.4	1.5	2.1	2.3	3.1	3.2	3.3	3.4	4.2	4.3	5.1	5.2	5.3	6.2	7.4		
	•	1.6	2.2	4.1															
C920	▪	1.3	1.4	1.5	1.6	2.1	2.2	2.3	3.1	3.2	3.3	3.4	4.2	4.3	5.1	5.2	5.3	6.2	7.4
	•	4.1																	

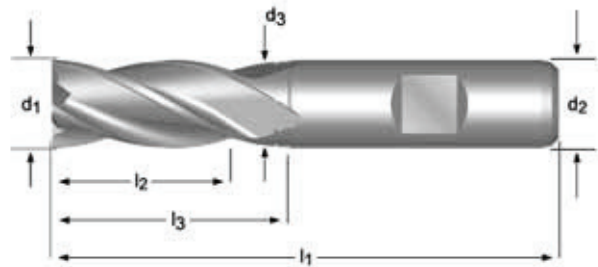


d_1 Ø mm	d_2 Ø _{h6} mm	l_2 mm	l_1 mm	z	l_3 mm	d_3 Ø mm	C903	C920
6.00	6	24	68	3	-	-	C9036.0	C9206.0
8.00	10	38	88	4	-	-	C9038.0	C9208.0
10.00	10	45	95	4	54.5	9.5	C90310.0	C92010.0
12.00	12	53	110	4	64.5	11.5	C90312.0	C92012.0
14.00	12	53	110	4	64.5	11.5	C90314.0	C92014.0
16.00	16	63	123	4	74.5	15.5	C90316.0	C92016.0
18.00	16	63	123	4	74.5	15.5	C90318.0	C92018.0
20.00	20	75	141	4	90.5	19.5	C90320.0	C92020.0
22.00	22	75	141	5	90.5	19.5	C90322.0	C92022.0
25.00	25	90	166	5	109.5	24.5	C90325.0	C92025.0



- C247** • 立铣刀
• Fresa de Topo
- C246** • Fresas de acabado
• End Mill

C247	▪	1.1	1.2	1.3	4.1	5.1	6.1	6.2	6.3									
	•	1.4	2.1	3.1	3.2	3.3	3.4	4.2	5.2	7.1	7.2	7.3	8.1					
C246	▪	1.1	1.2	1.3	1.4	3.1	3.2	3.3	3.4	4.1	4.2	5.1	5.2	6.1	6.2	6.3		
	•	1.5	1.6	2.1	2.3	4.3	5.3	6.4	7.1	7.2	7.3	7.4	8.1					



d_1 Ø Inch	d_1 Ø mm	d_2 Ø mm	l_2 mm	l_1 mm	z	l_3 mm	d_3 Ø mm	C247	C246
	2.00	6	7	51	4	-	-	C2472.0	C2462.0
	2.50	6	8	52	4	-	-	C2472.5	
	3.00	6	8	52	4	-	-	C2473.0	C2463.0
1/8	3.18	6	10	54	4	-	-	C2471/8 ¹⁾	
	3.50	6	10	54	4	-	-	C2473.5	
	4.00	6	11	55	4	-	-	C2474.0	C2464.0
	4.50	6	11	55	4	-	-	C2474.5	
3/16	4.76	6	13	57	4	-	-	C2473/16 ¹⁾	
	5.00	6	13	57	4	-	-	C2475.0	C2465.0
	5.50	6	13	57	4	-	-	C2475.5	
	6.00	6	13	57	4	-	-	C2476.0	C2466.0
1/4	6.35	10	16	66	4	-	-	C2471/4 ¹⁾	
	6.50	10	16	66	4	-	-	C2476.5	
	7.00	10	16	66	4	-	-	C2477.0	C2467.0
	7.50	10	16	66	4	-	-	C2477.5	
5/16	7.94	10	19	69	4	-	-	C2475/16 ¹⁾	
	8.00	10	19	69	4	-	-	C2478.0	C2468.0
	8.50	10	19	69	4	-	-	C2478.5	
	9.00	10	19	69	4	-	-	C2479.0	C2469.0
	9.50	10	19	69	4	-	-	C2479.5	
3/8	9.52	10	22	72	4	31.5	9.5	C2473/8 ¹⁾	
	10.00	10	22	72	4	31.5	9.5	C24710.0	C24610.0
	11.00	12	22	79	4	-	-	C24711.0	C24611.0
	12.00	12	26	83	4	37.5	11.5	C24712.0	C24612.0
1/2	12.70	12	26	83	4	37.5	11.5	C2471/2 ¹⁾	
	13.00	12	26	83	4	37.5	11.5	C24713.0	C24613.0

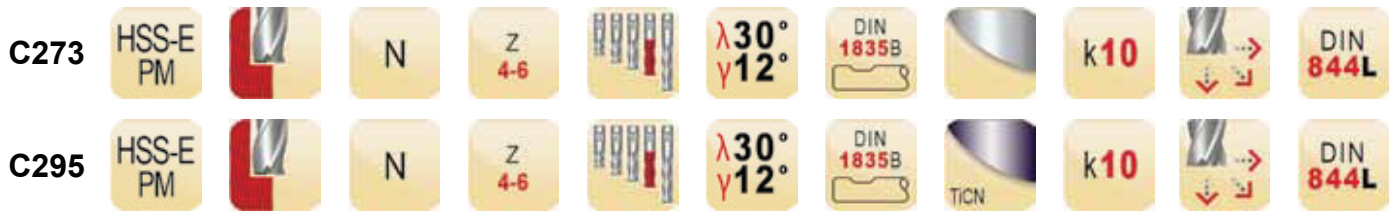
¹⁾ 直径公差: + 0.0025 英寸 / - 0.0005 英寸 / tolerância do diâmetro +0.0025 polegadas / -0.0005 polegadas / Tolerancia diámetro +.0025 pulgadas / -.0005 pulgadas / diameter tolerance +0.025 inches / -0.0005 inches

d ₁ ∅ Inch	d ₁ ∅ mm	d ₂ ∅h ₆ mm	l ₂ mm	l ₁ mm	z	l ₃ mm	d ₃ ∅ mm	C247	C246
9/16	14.00	12	26	83	4	37.5	11.5	C24714.0	C24614.0
	14.29	12	26	83	4	37.5	11.5	C2479/16 ¹⁾	
	15.00	12	26	83	4	37.5	11.5	C24715.0	C24615.0
5/8	15.88	16	32	92	4	43.5	15.5	C2475/8 ¹⁾	
	16.00	16	32	92	4	43.5	15.5	C24716.0	C24616.0
	17.00	16	32	92	4	43.5	15.5	C24717.0	
	18.00	16	32	92	4	43.5	15.5	C24718.0	C24618.0
	19.00	16	32	92	4	43.5	15.5	C24719.0	
3/4	19.05	20	38	104	4	53.5	18.5	C2473/4 ¹⁾	
	20.00	20	38	104	4	53.5	19.5	C24720.0	C24620.0
	21.00	20	38	104	4	53.5	19.5	C24721.0	
	22.00	20	38	104	5	53.5	19.5	C24722.0	C24622.0
	22.22	20	38	104	5	53.5	19.5	C2477/8 ¹⁾	
7/8	23.00	20	38	104	5	53.5	19.5	C24723.0	
	24.00	25	45	121	5	64.5	23.5	C24724.0	
	25.00	25	45	121	5	64.5	24.5	C24725.0	C24625.0
	25.40	25	45	121	5	64.5	24.5	C2471 ¹⁾	
	26.00	25	45	121	6	64.5	24.5	C24726.0	
1"	28.00	25	45	121	6	64.5	24.5	C24728.0	C24628.0
	30.00	25	45	121	6	64.5	24.5	C24730.0	C24630.0
	32.00	32	53	133	6	72.5	31.5	C24732.0	C24632.0
	36.00	32	53	133	6	72.5	31.5	C24736.0 ²⁾³⁾	
	40.00	40	63	155	6	84.5	39.0	C24740.0 ²⁾³⁾	
	50.00	50	75	177	8	96.5	48.0	C24750.0 ²⁾³⁾	

¹⁾ 直径公差: + 0.0025 英寸 / - 0.0005 英寸 / tolerância do diâmetro +0.0025 polegadas / -0.0005 polegadas / Tolerancia diámetro +.0025 pulgadas / -.0005 pulgadas / diameter tolerance +0.025 inches / -0.0005 inches

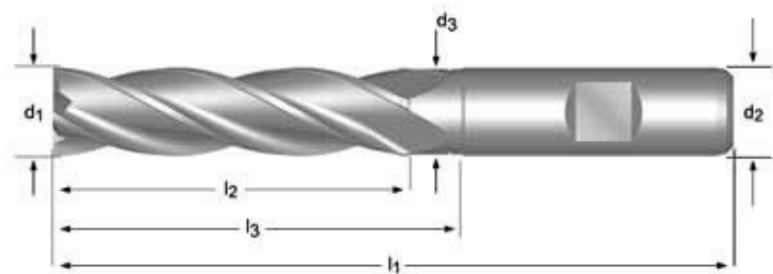
²⁾ 无中心切削 / Sem corte no centro / Sin corte al centro / No centre Cutting

³⁾ 仅供HSS-E产品 / Disponível apenas em HSS-E / Disponible solo en HSS-E / Available in HSS-E only



- C273** • 立铣刀
• Fresa de Topo para Acabamento
- C295** • Fresas de acabado
• End Mill

C273	▪	1.1	1.2	1.3	4.1	5.1	6.1	6.2	6.3									
	•	1.4	2.1	3.1	3.2	3.3	3.4	4.2	5.2	7.1	7.2	7.3	8.1					
C295	▪	1.1	1.2	1.3	1.4	3.1	3.2	3.3	3.4	4.1	4.2	5.1	5.2	6.1	6.2	6.3		
	•	1.5	1.6	2.1	2.3	4.3	5.3	6.4	7.1	7.2	7.3	7.4	8.1					



d_1 Ø Inch	d_1 Ø mm	d_2 Ø _{h6} mm	l_2 mm	l_1 mm	z	l_3 mm	d_3 Ø mm	C273	C295
	2.00	6	10	54	4	-	-	C2732.0	C2952.0
	2.50	6	12	56	4	-	-	C2732.5	
	3.00	6	12	56	4	-	-	C2733.0	C2953.0
1/8	3.18	6	15	59	4	-	-	C2731/8	1)
	3.50	6	15	59	4	-	-	C2733.5	
	4.00	6	19	63	4	-	-	C2734.0	C2954.0
	4.50	6	19	63	4	-	-	C2734.5	
3/16	4.76	6	24	68	4	-	-	C2733/16	1)
	5.00	6	24	68	4	-	-	C2735.0	C2955.0
	5.50	6	24	68	4	-	-	C2735.5	
	6.00	6	24	68	4	-	-	C2736.0	C2956.0
1/4	6.35	10	30	80	4	-	-	C2731/4	1)
	7.00	10	30	80	4	-	-	C2737.0	C2957.0
	8.00	10	38	88	4	-	-	C2738.0	C2958.0
	9.00	10	38	88	4	-	-	C2739.0	C2959.0
3/8	9.52	10	45	95	4	54.5	9.5	C2733/8	1)
	10.00	10	45	95	4	54.5	9.5	C27310.0	C29510.0
	11.00	12	45	102	4	-	-	C27311.0	C29511.0
	12.00	12	53	110	4	64.5	11.5	C27312.0	C29512.0
1/2	12.70	12	53	110	4	64.5	11.5	C2731/2	1)
	13.00	12	53	110	4	64.5	11.5	C27313.0	C29513.0
	14.00	12	53	110	4	64.5	11.5	C27314.0	C29514.0
	15.00	12	53	110	4	64.5	11.5	C27315.0	C29515.0
5/8	15.88	16	63	123	4	74.5	15.5	C2735/8	1)

1) 直径公差: + 0.0025 英寸 / - 0.0005 英寸 / tolerância do diâmetro +0.0025 polegadas / -0.0005 polegadas / Tolerancia diámetro +.0025 pulgadas / - .0005 pulgadas / diameter tolerance +0.025 inches / -0.0005 inches

d_1 Ø Inch	d_1 Ø mm	d_2 Ø _{h₆} mm	l_2 mm	l_1 mm	z	l_3 mm	d_3 Ø mm	C273	C295
	16.00	16	63	123	4	74.5	15.5	C27316.0	C29516.0
	18.00	16	63	123	4	74.5	15.5	C27318.0	C29518.0
3/4	19.05	20	75	141	4	90.5	18.5	C2733/4 ¹⁾	
	20.00	20	75	141	4	90.5	19.5	C27320.0	C29520.0
	22.00	20	75	141	5	90.5	19.5	C27322.0	C29522.0
7/8	22.22	20	75	141	5	90.5	19.5	C2737/8 ¹⁾	
	25.00	25	90	166	5	109.5	24.5	C27325.0	C29525.0
1"	25.40	25	90	166	5	109.5	24.5	C2731 ¹⁾	
	28.00	25	90	166	6	109.5	24.5	C27328.0	C29528.0
	30.00	25	90	166	6	109.5	24.5	C27330.0	C29530.0
	32.00	32	106	186	6	125.5	31.5	C27332.0	C29532.0
	36.00	32	106	186	6	125.5	31.5	C27336.0 ²⁾³⁾	
1.1/2	38.10	40	125	217	6	146.5	37.0	C2731.1/2 ¹⁾²⁾³⁾	
	40.00	40	125	217	6	146.5	39.0	C27340.0 ²⁾³⁾	C29540.0 ²⁾³⁾

¹⁾ 直径公差: + 0.0025 英寸 / - 0.0005 英寸 / tolerância do diâmetro +0.0025 polegadas / -0.0005 polegadas / Tolerancia diámetro +.0025 pulgadas / -.0005 pulgadas / diameter tolerance +0.025 inches / -0.0005 inches

²⁾ 无中心切削 / Sem corte no centro / Sin corte al centro / No centre Cutting

³⁾ 仅供HSS-E产品 / Disponível apenas em HSS-E / Disponible solo en HSS-E / Available in HSS-E only

C166

HSS-E



W

Z

2



e8



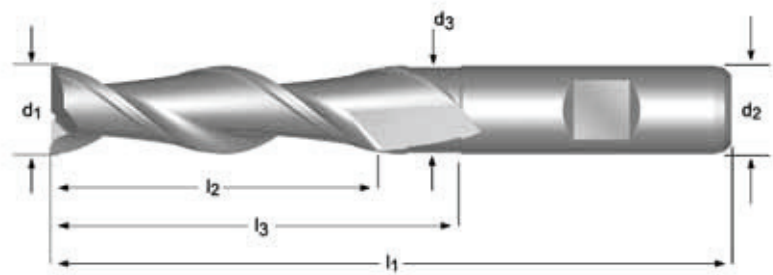
DIN

844L

- 立铣刀
- Fresa de Topo
- Fresas de acabado
- End Mill

C166

C166	▪	1.1	6.1	6.2	6.3	7.1	7.2	7.3	8.1	8.2
	•	1.2	1.3	2.1	2.2	4.1	5.1			

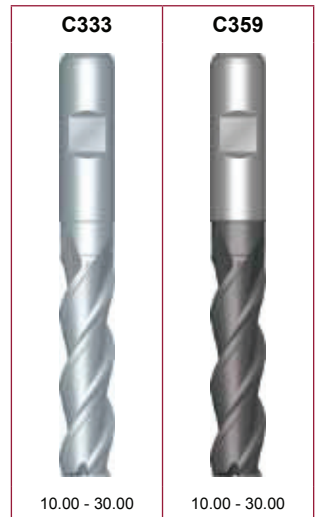
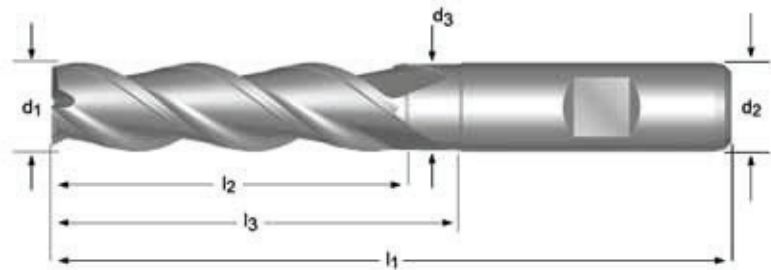


d_1 Ø mm	d_2 Ø _{h6} mm	l_2 mm	l_1 mm	z	l_3 mm	d_3 Ø mm	C166
6.00	6	24	68	2	-	-	C1666.0
7.00	10	30	80	2	-	-	C1667.0
8.00	10	38	88	2	-	-	C1668.0
9.00	10	38	88	2	-	-	C1669.0
10.00	10	45	95	2	-	-	C16610.0
12.00	12	53	110	2	-	-	C16612.0
14.00	12	53	110	2	64.5	11.5	C16614.0
16.00	16	63	123	2	74.5	15.5	C16616.0

C333	HSS-E PM		W	Z 3		$\lambda 40^\circ$ $\gamma 25^\circ$	DIN 1835B		k10		DIN 844L
C359	HSS-E PM		W	Z 3		$\lambda 40^\circ$ $\gamma 25^\circ$	DIN 1835B	Alcrona	k10		DIN 844L

- C333**
- 立铣刀
 - Fresa de Topo
- C359**
- Fresas de acabado
 - End Mill

C333	▪	6.1	7.2									
	•	1.1	1.2	1.3	2.1	2.2	4.1	5.1	7.1	7.3		
C359	▪	1.2	6.1	7.2	7.3	7.4						
	•	1.1	1.3	2.1	2.2	2.3	4.1	4.2	5.1	5.2	6.2	7.1



d_1 Ø mm	d_2 Ø _{h6} mm	l_2 mm	l_1 mm	z	l_3 mm	d_3 Ø mm	C333	C359
10.00	10	45	95	3	54.5	9.5	C33310.0	C35910.0
12.00	12	53	110	3	64.5	11.5	C33312.0	C35912.0
14.00	12	53	110	3	64.5	11.5	C33314.0	C35914.0
16.00	16	63	123	3	74.5	15.5	C33316.0	C35916.0
18.00	16	63	123	3	74.5	15.5	C33318.0	C35918.0
20.00	20	75	141	3	90.5	19.5	C33320.0	C35920.0
25.00	25	90	166	3	109.5	24.5	C33325.0	C35925.0
30.00	25	90	166	3	109.5	24.5	C33330.0	C35930.0

C365

HSS-E
PM



FS

Z
3-4



λ 40°
 γ 25°

DIN
1835B



k10

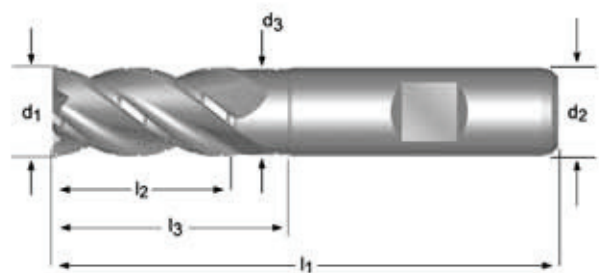


DIN
844K

- 粗切立铣刀
- Fresa de Topo para Desbaste
- Fresas Gran Desbaste
- Roughing End Mill

C365

C365	▪	6.1	6.2	6.3	7.1	7.2	7.3	8.1	8.2
	•	1.1	1.2	1.3	2.1	4.1	5.1		



d_1 Ø mm	d_2 Ø _{h6} mm	l_2 mm	l_1 mm	z	l_3 mm	d_3 Ø mm	C365
10.00	10	22	72	3	31.5	9.5	C36510.0
12.00	12	26	83	3	37.5	11.5	C36512.0
14.00	12	26	83	3	37.5	11.5	C36514.0
16.00	16	32	92	3	43.5	15.5	C36516.0
18.00	16	32	92	4	43.5	15.5	C36518.0
20.00	20	38	104	4	53.5	19.5	C36520.0
25.00	25	45	121	4	64.5	24.5	C36525.0
30.00	25	45	121	4	64.5	24.5	C36530.0

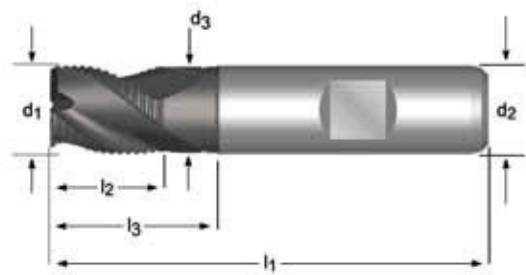
C324



- 粗切立铣刀
- Fresa de Topo para Desbaste
- Fresas Gran Desbaste
- Roughing End Mill

C324

C324	▪	1.4	1.5	1.6	2.1	2.2	2.3	3.1	3.2	3.3	3.4	4.2	4.3	5.2	5.3	6.2	7.4
	•	1.3	4.1	5.1	6.4												



d_1 Ø mm	d_2 Ø _{h6} mm	l_2 mm	l_1 mm	z	l_3 mm	d_3 Ø mm	C324
8.00	10	11	61	3	-	-	C3248.0
10.00	10	13	63	3	22.5	9.5	C32410.0
12.00	12	16	73	3	27.5	11.5	C32412.0
14.00	12	16	73	3	27.5	11.5	C32414.0
16.00	16	19	79	3	30.5	15.5	C32416.0
18.00	16	19	79	3	30.5	15.5	C32418.0
20.00	20	22	88	3	37.5	19.5	C32420.0
22.00	20	22	88	3	37.5	19.5	C32422.0
25.00	25	26	102	3	45.5	24.5	C32425.0
28.00	25	26	102	3	45.5	24.5	C32428.0
30.00	25	26	102	3	45.5	24.5	C32430.0

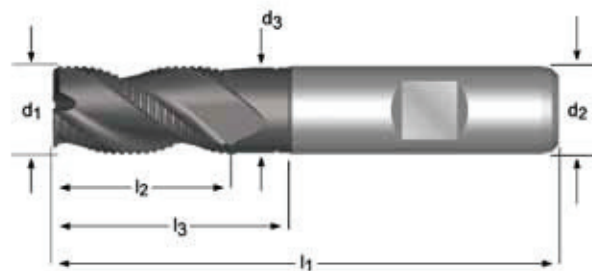
C922



- 粗切立铣刀
- Fresa de Topo para Desbaste
- Fresas Gran Desbaste
- Roughing End Mill

C922

C922	▪	1.4	1.5	1.6	2.1	2.2	2.3	3.1	3.2	3.3	3.4	4.2	4.3	5.2	5.3	6.2	7.4
	•	1.3	4.1	5.1	6.4												



C922



6.00 - 40.00

d_1 Ø mm	d_2 Ø _{h6} mm	l_2 mm	l_1 mm	z	l_3 mm	d_3 Ø mm	C922
6.00	6	13	57	3	-	-	C9226.0
7.00	10	16	66	3	-	-	C9227.0
8.00	10	19	69	3	-	-	C9228.0
9.00	10	19	69	3	-	-	C9229.0
10.00	10	22	72	3	31.5	9.5	C92210.0
11.00	12	22	79	3	-	-	C92211.0
12.00	12	26	83	3	37.5	11.5	C92212.0
13.00	12	26	83	3	37.5	11.5	C92213.0
14.00	12	26	83	3	37.5	11.5	C92214.0
15.00	12	26	83	3	37.5	11.5	C92215.0
16.00	16	32	92	3	43.5	15.5	C92216.0
18.00	16	32	92	3	43.5	15.5	C92218.0
20.00	20	38	104	3	53.5	19.5	C92220.0
22.00	20	38	104	3	53.5	19.5	C92222.0
24.00	25	45	121	4	64.5	23.5	C92224.0
25.00	25	45	121	4	64.5	24.5	C92225.0
26.00	25	45	121	4	64.5	24.5	C92226.0
28.00	25	45	121	4	64.5	24.5	C92228.0
30.00	25	45	121	4	64.5	24.5	C92230.0
32.00	32	53	133	4	72.5	31.5	C92232.0
36.00	32	53	133	4	72.5	31.0	C92236.0
40.00	40	63	155	4	84.5	39.0	C92240.0

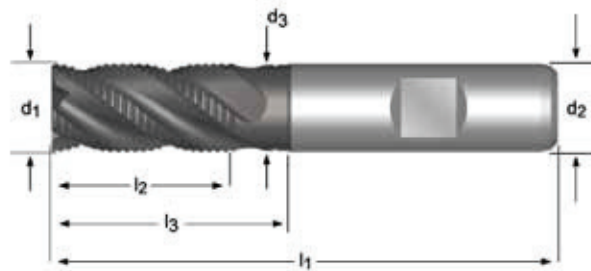
C428



- 粗切立铣刀
- Fresa de Topo para Desbaste
- Fresas Gran Desbaste
- Roughing End Mill

C428

C428	▪	1.4	1.5	1.6	2.1	2.2	2.3	3.1	3.2	3.3	3.4	4.2	4.3	5.2	5.3	6.2	7.4
	•	1.3	4.1	5.1	6.4												



d_1 Ø mm	d_2 Ø _{h6} mm	l_2 mm	l_1 mm	z	l_3 mm	d_3 Ø mm	C428
6.00	6	13	57	4	-	-	C4286.0
7.00	10	16	66	4	-	-	C4287.0
8.00	10	19	69	4	-	-	C4288.0
9.00	10	19	69	4	-	-	C4289.0
10.00	10	22	72	4	31.5	9.5	C42810.0
11.00	12	22	79	4	-	-	C42811.0
12.00	12	26	83	4	37.5	11.5	C42812.0
13.00	12	26	83	4	37.5	11.5	C42813.0
14.00	12	26	83	4	37.5	11.5	C42814.0
15.00	12	26	83	4	37.5	11.5	C42815.0
16.00	16	32	92	4	43.5	15.5	C42816.0
18.00	16	32	92	4	43.5	15.5	C42818.0
20.00	20	38	104	4	53.5	19.5	C42820.0
22.00	20	38	104	4	53.5	19.5	C42822.0
25.00	25	45	121	6	64.5	24.5	C42825.0
28.00	25	45	121	6	64.5	24.5	C42828.0
30.00	25	45	121	6	64.5	24.5	C42830.0
32.00	32	53	133	6	72.5	31.5	C42832.0
36.00	32	53	133	6	72.5	31.0	C42836.0
40.00	40	63	155	6	84.5	39.0	C42840.0

C492

HSS-E
PM



HRA

Z
3-6



λ 35°
 γ 12°

DIN
1835B

Alcrona

k12

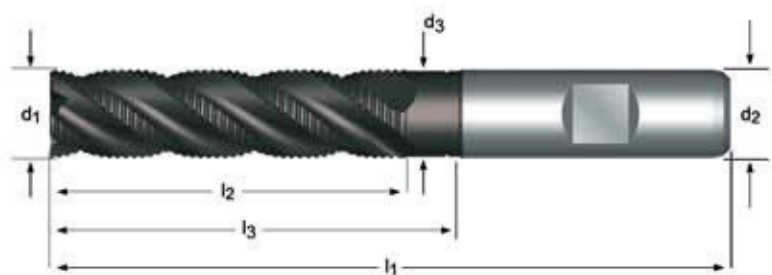


DIN
844L

- 粗切立铣刀
- Fresa de Topo para Desbaste
- Fresas Gran Desbaste
- Roughing End Mill

C492

C492	▪	1.3	1.4	1.5	1.6	2.1	2.2	2.3	3.1	3.2	3.3	3.4	4.2	4.3	5.2	5.3	6.2	7.4
	•	4.1	5.1	6.4														



d_1 Ø mm	d_2 Ø _{h6} mm	l_2 mm	l_1 mm	z	l_3 mm	d_3 Ø mm	C492
6.00	6	24	68	3	-	-	C4926.0
8.00	10	38	88	3	-	-	C4928.0
10.00	10	45	95	4	54.5	9.5	C49210.0
12.00	12	53	110	4	64.5	11.5	C49212.0
14.00	12	53	110	4	64.5	11.5	C49214.0
16.00	16	63	123	4	74.5	15.5	C49216.0
18.00	16	63	123	4	74.5	15.5	C49218.0
20.00	20	75	141	4	90.5	19.5	C49220.0
22.00	20	75	141	4	90.5	19.5	C49222.0
25.00	25	90	166	6	109.5	24.5	C49225.0
30.00	25	90	166	6	109.5	24.5	C49230.0

C407

HSS-E
PM



NRA

Z
4-6



$\lambda 35^\circ$
 $\gamma 12^\circ$

DIN
1835B



k12



DIN
844K

C908

HSS-E
PM



NRA

Z
4-6



$\lambda 35^\circ$
 $\gamma 12^\circ$

DIN
1835B



k12



DIN
844K

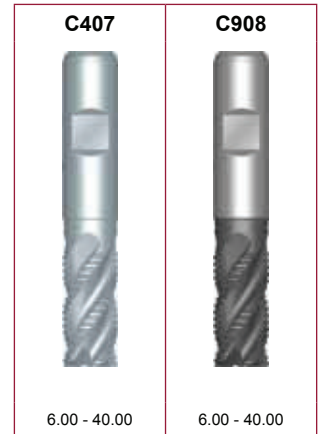
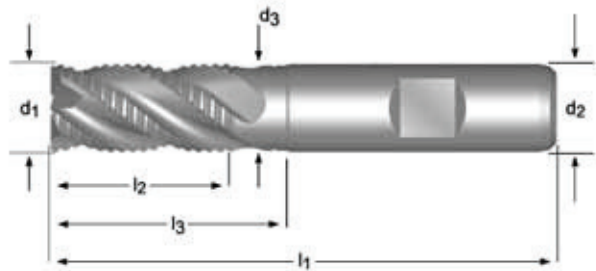
C407

- 粗切立铣刀
- Fresa de Topo para Desbaste

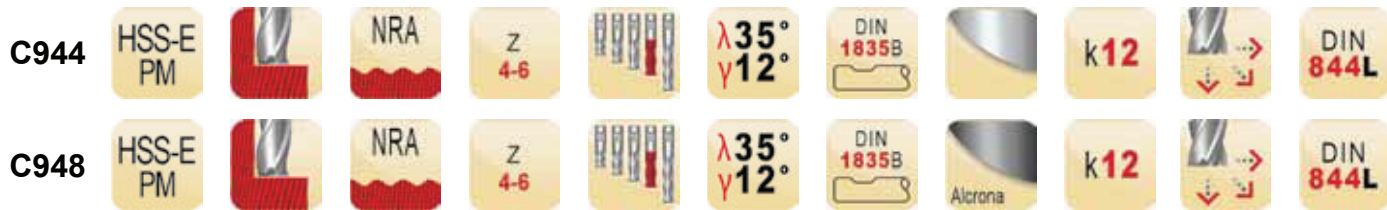
C908

- Fresas Gran Desbaste
- Roughing End Mill

C407	▪	1.2	1.3	1.4	1.5	2.1	2.3	3.1	3.2	3.3	3.4	4.2	4.3	5.2	5.3	6.2	
	•	1.1	1.6	2.2	4.1	5.1	6.4	7.4									
C908	▪	1.3	1.4	1.5	2.1	2.2	2.3	3.1	3.2	3.3	3.4	4.2	4.3	5.2	5.3	6.2	
	•	1.6	4.1	5.1	6.4	7.4											

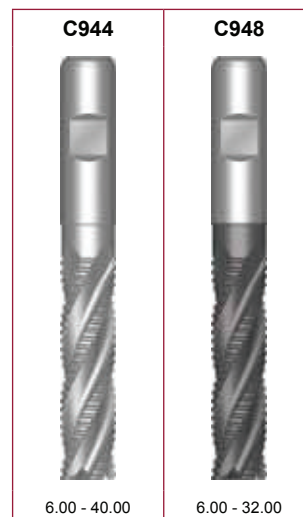
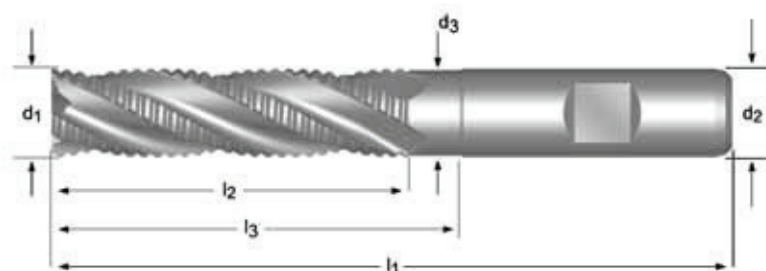


d ₁ Ø mm	d ₂ Øh ₆ mm	l ₂ mm	l ₁ mm	z	l ₃ mm	d ₃ Ø mm	C407	C908
6.00	6	13	57	4	-	-	C4076.0	C9086.0
7.00	10	16	66	4	-	-	C4077.0	C9087.0
8.00	10	19	69	4	-	-	C4078.0	C9088.0
9.00	10	19	69	4	-	-	C4079.0	C9089.0
10.00	10	22	72	4	31.5	9.5	C40710.0	C90810.0
11.00	12	22	79	4	-	-	C40711.0	C90811.0
12.00	12	26	83	4	37.5	11.5	C40712.0	C90812.0
13.00	12	26	83	4	37.5	11.5	C40713.0	C90813.0
14.00	12	26	83	4	37.5	11.5	C40714.0	C90814.0
15.00	12	26	83	4	37.5	11.5	C40715.0	C90815.0
16.00	16	32	92	4	43.5	15.5	C40716.0	C90816.0
18.00	16	32	92	4	43.5	15.5	C40718.0	C90818.0
20.00	20	38	104	4	53.5	19.5	C40720.0	C90820.0
22.00	20	38	104	4	53.5	19.5	C40722.0	C90822.0
25.00	25	45	121	6	64.5	24.5	C40725.0	C90825.0
28.00	25	45	121	6	64.5	24.5	C40728.0	C90828.0
30.00	25	45	121	6	64.5	24.5	C40730.0	C90830.0
32.00	32	53	133	6	72.5	31.5	C40732.0	C90832.0
36.00	32	53	133	6	72.5	31.0		C90836.0
40.00	40	63	155	6	84.5	39.0	C40740.0	C90840.0



- C944** • 粗切立铣刀
• Fresa de Topo para Desbaste
- C948** • Fresas Gran Desbaste
• Roughing End Mill

C944	▪	1.3	1.4	1.5	2.1	2.3	3.1	3.2	3.3	3.4	4.2	4.3	5.2	5.3	6.2	7.4		
	•	1.6	2.2	4.1	5.1	6.4												
C948	▪	1.3	1.4	1.5	1.6	2.1	2.2	2.3	3.1	3.2	3.3	3.4	4.2	4.3	5.2	5.3	6.2	7.4
	•	4.1	5.1	6.4														



d_1 Ø mm	d_2 Ø _{h6} mm	l_2 mm	l_1 mm	z	l_3 mm	d_3 Ø mm	C944	C948
6.00	6	24	68	4	-	-	C9446.0	C9486.0
8.00	10	38	88	4	-	-	C9448.0	C9488.0
10.00	10	45	95	4	54.5	9.5	C94410.0	C94810.0
12.00	12	53	110	4	64.5	11.5	C94412.0	C94812.0
14.00	12	53	110	4	64.5	11.5	C94414.0	C94814.0
16.00	16	63	123	4	74.5	15.5	C94416.0	C94816.0
18.00	16	63	123	4	74.5	15.5		C94818.0
20.00	20	75	141	4	90.5	19.5	C94420.0	C94820.0
25.00	25	90	166	6	109.5	24.5	C94425.0	C94825.0
30.00	25	90	166	6	109.5	24.5		C94830.0
32.00	32	106	186	6	125.5	31.5	C94432.0	C94832.0
40.00	40	125	217	6	-	-	C94440.0	

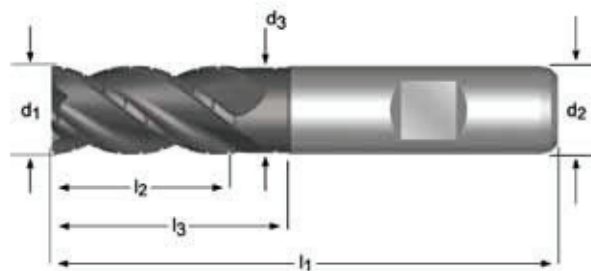
C921



- 粗切立铣刀
- Fresa de Topo para Desbaste
- Fresas Gran Desbaste
- Roughing End Mill

C921

C921	▪	1.3	1.4	1.5	1.6	2.1	2.2	2.3	3.1	3.2	3.3	3.4	4.2	4.3	5.2	5.3	6.2	7.4
	•	4.1	5.1	6.4														

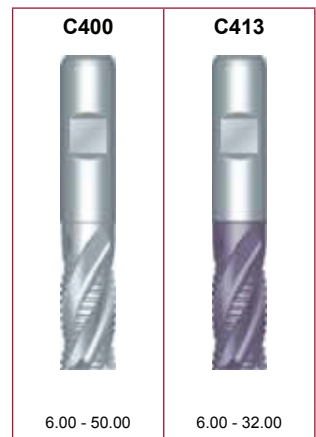
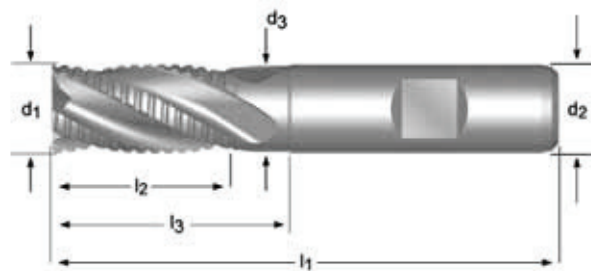


d_1 Ø mm	d_2 Ø _{h6} mm	l_2 mm	l_1 mm	z	l_3 mm	d_3 Ø mm	C921
6.00	6	13	57	3	-	-	C9216.0
8.00	10	19	69	4	-	-	C9218.0
10.00	10	22	72	4	31.5	9.5	C92110.0
12.00	12	26	83	4	37.5	11.5	C92112.0
14.00	12	26	83	4	37.5	11.5	C92114.0
16.00	16	32	92	4	43.5	15.5	C92116.0
18.00	16	32	92	4	43.5	15.5	C92118.0
20.00	20	38	104	4	53.5	19.5	C92120.0
22.00	20	38	104	5	53.5	19.5	C92122.0
25.00	25	45	121	5	64.5	24.5	C92125.0
28.00	25	45	121	6	64.5	24.5	C92128.0
30.00	25	45	121	6	64.5	24.5	C92130.0
32.00	32	53	133	6	72.5	31.5	C92132.0

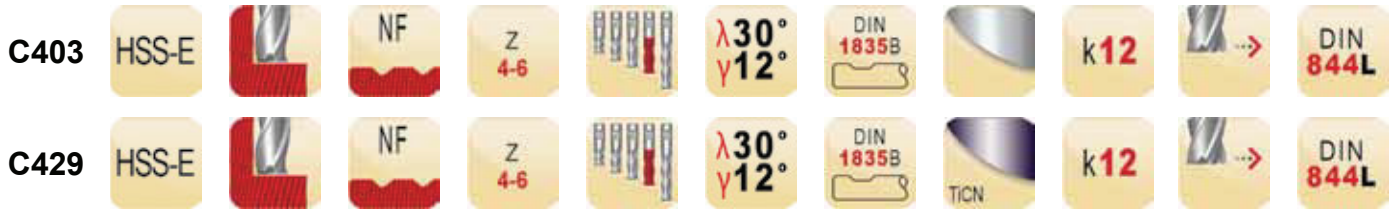


- C400**
- 粗切立铣刀
 - Fresa de Topo para Desbaste
- C413**
- Fresas Gran Desbaste
 - Roughing End Mill

C400	▪	1.2	1.3	6.2	6.3													
	•	1.1	1.4	2.1	3.1	3.2	3.3	3.4	4.1	4.2	5.1	5.2	6.1	7.2	7.3	8.1		
C413	▪	1.2	1.3	1.4	3.1	3.2	3.3	3.4	4.2	5.2	6.2	6.3						
	•	1.1	1.5	1.6	2.1	2.3	4.1	4.3	5.1	5.3	6.1	6.4	7.2	7.3	7.4	8.1		

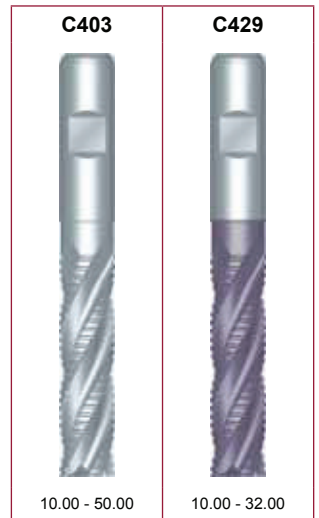
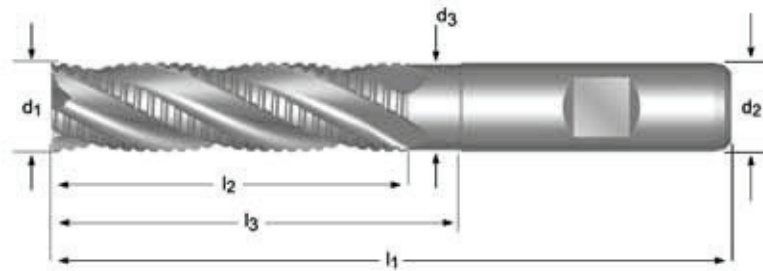


d_1 Ø mm	d_2 Ø _{h6} mm	l_2 mm	l_1 mm	z	l_3 mm	d_3 Ø mm	C400	C413
6.00	6	13	57	4	-	-	C4006.0	C4136.0
7.00	10	16	66	4	-	-	C4007.0	
8.00	10	19	69	4	-	-	C4008.0	C4138.0
9.00	10	19	69	4	-	-	C4009.0	
10.00	10	22	72	4	-	-	C40010.0	C41310.0
11.00	12	22	79	4	-	-	C40011.0	
12.00	12	26	83	4	-	-	C40012.0	C41312.0
13.00	12	26	83	4	37.5	11.5	C40013.0	
14.00	12	26	83	4	37.5	11.5	C40014.0	C41314.0
15.00	12	26	83	4	37.5	11.5	C40015.0	
16.00	16	32	92	4	43.5	15.5	C40016.0	C41316.0
18.00	16	32	92	4	43.5	15.5	C40018.0	C41318.0
20.00	20	38	104	4	53.5	19.5	C40020.0	C41320.0
22.00	20	38	104	4	53.5	19.5	C40022.0	C41322.0
25.00	25	45	121	5	64.5	24.5	C40025.0	C41325.0
26.00	25	45	121	5	64.5	24.5	C40026.0	
28.00	25	45	121	5	64.5	24.5	C40028.0	C41328.0
30.00	25	45	121	5	64.5	24.5	C40030.0	C41330.0
32.00	32	53	133	6	72.5	31.0	C40032.0	C41332.0
40.00	40	63	155	6	84.5	39.0	C40040.0	
50.00	50	75	177	6	96.5	48.0	C40050.0	



- C403**
- 粗切立铣刀
 - Fresa de Topo para Desbaste
- C429**
- Fresas Gran Desbaste
 - Roughing End Mill

C403	■	1.2	1.3	6.2	6.3												
	•	1.1	1.4	2.1	3.1	3.2	3.3	3.4	4.1	4.2	5.1	5.2	6.1	7.2	7.3	8.1	
C429	■	1.2	1.3	1.4	3.1	3.2	3.3	3.4	4.2	5.2	6.2	6.3					
	•	1.1	1.5	1.6	2.1	2.3	4.1	4.3	5.1	5.3	6.1	6.4	7.2	7.3	7.4	8.1	



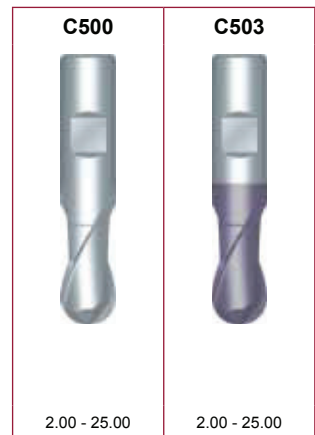
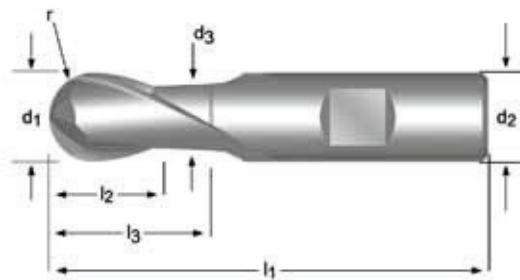
10.00 - 50.00 10.00 - 32.00

d ₁ Ø mm	d ₂ Øh ₆ mm	l ₂ mm	l ₁ mm	z	l ₃ mm	d ₃ Ø mm	C403	C429
10.00	10	45	95	4	-	-	C40310.0	C42910.0
12.00	12	53	110	4	-	-	C40312.0	C42912.0
14.00	12	53	110	4	64.5	11.5	C40314.0	C42914.0
16.00	16	63	123	4	74.5	15.5	C40316.0	C42916.0
18.00	16	63	123	4	74.5	15.5	C40318.0	C42918.0
20.00	20	75	141	4	90.5	19.5	C40320.0	C42920.0
22.00	20	75	141	4	90.5	19.5	C40322.0	
25.00	25	90	166	5	109.5	24.5	C40325.0	C42925.0
30.00	25	90	166	5	109.5	24.5	C40330.0	C42930.0
32.00	32	106	186	6	125.5	31.0	C40332.0	C42932.0
36.00	32	106	186	6	125.5	31.5	C40336.0	
40.00	40	125	217	6	146.5	39.0	C40340.0	
45.00	40	125	217	6	146.5	39.5	C40345.0	
50.00	50	150	252	6	171.5	48.0	C40350.0	



- C500** • 球头立铣刀
• Fresa de topo esférico
- C503** • Fresas con punta esferica
• Ball-Nosed End Mill

C500	▪	1.1	1.2	4.1	5.1	6.1	6.2	6.3											
	•	1.3	1.4	2.1	3.1	3.2	3.3	3.4	4.2	5.2	7.1	7.2	7.3	8.1					
C503	▪	1.1	1.2	1.3	1.4	3.1	3.2	3.3	3.4	4.1	4.2	5.1	5.2	6.1	6.2	6.3			
	•	1.5	1.6	2.1	2.3	4.3	5.3	6.4	7.1	7.2	7.3	7.4	8.1						



d_1 Ø mm	r ±0.05 mm	d_2 Ø _{h6} mm	l_2 mm	l_1 mm	z	l_3 mm	d_3 Ø mm	C500	C503
2.00	1.00	6	4	48	2	-	-	C5002.0	C5032.0
3.00	1.50	6	5	49	2	-	-	C5003.0	C5033.0
4.00	2.00	6	7	51	2	-	-	C5004.0	C5034.0
5.00	2.50	6	8	52	2	-	-	C5005.0	C5035.0
6.00	3.00	6	8	52	2	-	-	C5006.0	C5036.0
7.00	3.50	10	10	60	2	-	-	C5007.0	C5037.0
8.00	4.00	10	11	61	2	-	-	C5008.0	C5038.0
9.00	4.50	10	11	61	2	-	-	C5009.0	C5039.0
10.00	5.00	10	13	63	2	-	-	C50010.0	C50310.0
11.00	5.50	12	13	70	2	-	-	C50011.0	C50311.0
12.00	6.00	12	16	73	2	-	-	C50012.0	C50312.0
13.00	6.50	12	16	73	2	27.5	11.5	C50013.0	C50313.0
14.00	7.00	12	16	73	2	27.5	11.5	C50014.0	C50314.0
15.00	7.50	12	16	73	2	27.5	11.5	C50015.0	C50315.0
16.00	8.00	16	19	79	2	30.5	15.5	C50016.0	C50316.0
18.00	9.00	16	19	79	2	30.5	15.5	C50018.0	C50318.0
20.00	10.00	20	22	88	2	37.5	19.5	C50020.0	C50320.0
25.00	12.50	25	26	102	2	45.5	24.5	C50025.0	C50325.0

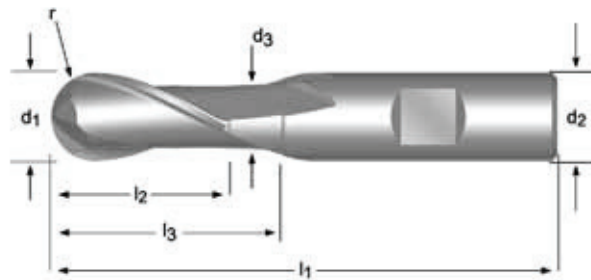
C505



- 球头立铣刀
- Fresa de topo esférico
- Fresas con punta esférica
- Ball-Nosed End Mill

C505

C505	■	1.1	1.2	4.1	5.1	6.1	6.2	6.3						
	•	1.3	1.4	2.1	3.1	3.2	3.3	3.4	4.2	5.2	7.1	7.2	7.3	8.1



d_1 Ø mm	r ±0.05 mm	d_2 Ø _{h6} mm	l_2 mm	l_1 mm	z	l_3 mm	d_3 Ø mm	C505
3.00	1.50	6	8	52	2	-	-	C5053.0
4.00	2.00	6	11	55	2	-	-	C5054.0
5.00	2.50	6	13	57	2	-	-	C5055.0
6.00	3.00	6	13	57	2	-	-	C5056.0
8.00	4.00	10	19	69	2	-	-	C5058.0
10.00	5.00	10	22	72	2	-	-	C50510.0
12.00	6.00	12	26	83	2	-	-	C50512.0
14.00	7.00	12	26	83	2	37.5	11.5	C50514.0
16.00	8.00	16	32	92	2	43.5	15.5	C50516.0
20.00	10.00	20	38	104	2	53.5	19.5	C50520.0
22.00	11.00	20	38	104	2	53.5	19.5	C50522.0
25.00	12.50	25	45	121	2	64.5	24.5	C50525.0
28.00	14.00	25	45	121	2	64.5	24.5	C50528.0
30.00	15.00	25	45	121	2	64.5	24.5	C50530.0

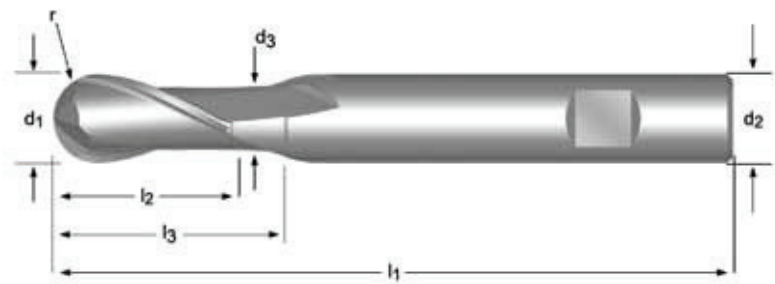
C511



- 球头立铣刀
- Fresa de topo esférico
- Fresas con punta esferica
- Ball-Nosed End Mill

C511

C511	▪	1.1	1.2	4.1	5.1	6.1	6.2	6.3											
	•	1.3	1.4	2.1	3.1	3.2	3.3	3.4	4.2	5.2	7.1	7.2	7.3	8.1					



d_1 Ø mm	r ±0.05 mm	d_2 Ø _{h6} mm	l_2 mm	l_1 mm	z	l_3 mm	d_3 Ø mm	C511
3.00	1.50	6	8	56	2	-	-	C5113.0
4.00	2.00	6	11	63	2	-	-	C5114.0
5.00	2.50	6	13	68	2	-	-	C5115.0
6.00	3.00	6	13	68	2	-	-	C5116.0
8.00	4.00	10	19	88	2	-	-	C5118.0
10.00	5.00	10	22	95	2	-	-	C51110.0
12.00	6.00	12	26	110	2	-	-	C51112.0
14.00	7.00	12	26	110	2	64.5	11.5	C51114.0
16.00	8.00	16	32	123	2	74.5	15.5	C51116.0
18.00	9.00	16	32	123	2	74.5	15.5	C51118.0
20.00	10.00	20	38	141	2	90.5	19.5	C51120.0
25.00	12.50	25	45	166	2	109.5	24.5	C51125.0