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*fresas para
router e tupia*



BOSCH



ROBB  JACK

Lâmina Espiral



Vídeia Sólida

1 lâmina Espiral em "O"

Fresa	Dia	CL	Has	CT	Preço
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Plástico Duro e Alumínio

Upcut

63-700	1/16	1/4	1/4	2	30.00
63-701	1/16	1/4	1/8	2	27.00
63-710	1/8	1/4	1/4	2	30.00
63-711	1/8	1/4	1/8	2	28.00
63-712	1/8	1/2	1/4	2	30.00
63-713	1/8	1/2	1/8	2	27.50
63-141	1/8	5/8	1/4	2	36.00
63-715	5/32	9/16	1/4	2	31.00
63-716	3/16	3/8	3/16	2	27.50
63-717	3/16	3/8	1/4	2	30.00
63-718	3/16	5/8	1/4	2	30.00
63-719	3/16	5/8	3/16	2	28.00
63-720	7/32	3/4	1/4	2-1/2	30.00
63-724	1/4	3/8	1/4	2	29.00
63-725	1/4	3/4	1/4	2-1/2	30.00
63-726	1/4	1-1/4	1/4	3	35.50
63-733	3/8	1-1/8	3/8	3	52.50

Downcut

62-712	1/8	1/2	1/4	2	30.00
62-718	3/16	5/8	1/4	2	30.00
62-725	1/4	3/4	1/4	2-1/2	30.00
62-726	1/4	1-1/4	1/4	3	35.50

Plástico Macio

Upcut

63-750	1/16	1/4	1/4	2	30.00
63-762	1/8	1/2	1/4	2	30.00
63-768	3/16	5/8	1/4	2	30.00
63-775	1/4	3/4	1/4	2-1/2	30.00
63-776	1/4	1-1/4	1/4	3	35.50

Vídeia Sólida

3 e 4 Lâminas Espirais Upcut

Fresa	Dia	CL	Has	CT	Preço
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Alumínio Duro e Abrasivos

3 Lâminas Espiral

58-040	1/8	1/2	1/4	2	33.50
58-060	3/16	5/8	1/4	2	33.50
58-080	1/4	3/4	1/4	2-1/2	33.50

4 Lâminas Espiral

55-040	1/8	1/2	1/4	2	33.50
55-060	3/16	5/8	1/4	2	33.50
55-088	1/4	1/2	1/4	2	31.50
55-088T	1/4	1/2	1/4	2	35.50
55-080	1/4	3/4	1/4	2-1/2	33.50
102635	1/4	3	1/4	2-3/8	75.00

Vídeia Sólida

1 Lâmina Espiral em "O" Upcut

Fresa	Dia	CL	Has	CT	Preço
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Alumínio, Cobre, Latão

63-604	1/8	1/4	1/8	1-1/2	31.50
63-606	1/8	1/4	1/4	2	38.00
63-610	1/8	1/2	1/4	2	39.50
63-612	3/16	3/8	3/16	1-1/2	36.50
63-614	3/16	3/8	1/4	2	39.50
63-616	3/16	5/8	1/4	2	42.00
63-620	1/4	3/8	1/4	2	39.00
63-622	1/4	3/4	1/4	2-1/2	42.50
63-624	1/4	1-1/4	1/4	3	61.50

Madeira Composta e Alumínio Maciço

63-040	1/8	1/2	1/4	2	32.00
63-040T	1/8	1/2	1/4	2	36.50
63-060	3/16	5/8	1/4	2	31.50
63-060T	3/16	5/8	1/4	2	36.00
63-084	1/4	3/4	1/4	2-1/2	32.00
63-080	1/4	3/4	1/4	2-1/2	36.00

Madeira Natural e Composta

63-240	1/8	1/2	1/4	2	31.50
63-260	3/16	3/4	1/4	2	31.50
63-280	1/4	7/8	1/4	2-1/2	31.50
63-285	1/4	1	1/4	2-1/2	33.50

Aço Rápido

2 Lâminas Espirais

Fresa	Dia	CL	Has	CT	Preço
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Madeira Natural e Alumínio Duro

Upcut

40-101h	1/8	3/8	1/4	2	11.00
40-101T	1/8	3/8	1/4	2	15.00
40-101L	1/8	3/8	1/4	2-5/8	10.00
40-201h	1/8	1-1/16	1/4	2-1/2	25.00
40-103h	3/16	5/8	1/4	2-1/4	10.00
40-103T	3/16	5/8	1/4	2-1/4	14.00
40-103L	3/16	5/8	1/4	2-7/8	11.00
40-203h	3/16	1-1/8	1/4	2-1/2	25.00
40-107	1/4	3/4	1/4	2-3/4	8.00
40-107T	1/4	3/4	1/4	2-3/4	12.00
40-111	1/4	1	1/4	3	10.00
40-282h	1/4	2-1/8	1/4	3-1/2	26.50
40-212h	5/16	3-1/8	5/16	5-1/4	58.00

Downcut

40-102	1/8	5/16	1/4	2-5/8	10.00
40-104	3/16	5/8	1/4	2-7/8	11.00
40-106	1/4	5/8	1/4	2-3/4	9.00
40-108	1/4	3/4	1/4	2-3/4	8.00

Ferramentas para Superfícies Sólidas

Ponta de Vídeia - Para Cortar

Fresa	Dia	CL	Has	CT	Preço
48-070	1/2	2	1/2	4	80,00
28-54	1/2	1	1/2	3-1/4	90,00
28-63	1/2	1-1/2	1/2	4	98,00

Vídeia Sólida - Para Cortar e Arredondar

Fresa	Dia	CL	Has	CT	Preço
52-360B	1/2	1-1/4	1/2	3-1/16	320,00

Ponta de Vídeia - Para modular

Fresa	Raio	Dia	CL	Haste	CT	Preço
42-11	1/8	3/4	5/16	1/2	1-15/16	140,00
42-12	1/4	1	9/16	1/2	2-5/8	145,00
42-13	3/8	1-1/4	11/16	1/2	2-5/8	148,00
42-07	1/2	1-1/2	3/4	1/2	2-13/16	160,00
42-08	3/4	2	1-1/32	1/2	3	225,00
41-01	1/4	1	9/16	1/4	2	130,00
29-52	45°	1/2	1/2	1/2	2-1/2	125,00
57-128	1/2	2-1/8	3/4	1/2	3	355,00

Ponta de Vídeia - Para chanfrar

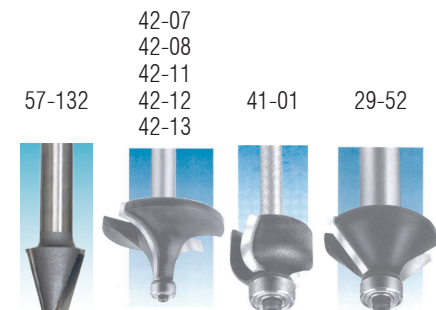
Fresa	Angulo	Dia	CL	Haste	CT	Preço
57-132	15°	29/32	15/16	1/2	2-1/2	195,00

Pony - Grampos

Ref.	Abertura	Preço
3202	2"	12,00
3203	3"	35,00
3204	4"	60,00

Betterley - Acessórios

Ref.	Preço
Tupia: coving router	3375,00
Fresa: coving routerCB3870	322,00
Base para tupia Porter Cable	550,00



Tupia Coving Router
Betterley

Pony 2"
Pony 3"
Pony 4"

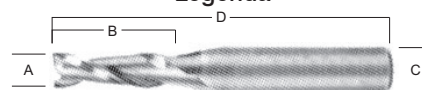


Fresa Coving - CB 3870

Base para Tupia
Porter Cable



Legenda



- A- Dia (Diâmetro)
- B- CL (Comprimento da Lâmina)
- C- Has (Haste)
- D- CT (Comprimento Total)
- Ferramenta com rolamento

ATENÇÃO

Os preços desta página estão em Reais, diferente do restante do catálogo, que acompanha a cotação do dolar paralelo.

Ferramentas Especiais



Comprimento Extra

Lâmina reta para espuma US\$

Fresa	Dia	CL	Has	CT	Preço
Vídea Sólida					
61-043h	1/8	5/8	1/4	2	42.00
61-140h	1/8	13/16	1/4	2	41.50
61-063h	3/16	1	1/4	2-1/2	41.50
61-280	1/4	7/8	1/4	2-1/2	41.50
61-285	1/4	1	1/4	2-1/2	37.00
61-084h	1/4	1-1/4	1/4	3	66.00

2 Lâminas

56-260	3/16	3/4	1/4	2	25.00
56.280	1/4	7/8	1/4	2-1/2	28.50
56.285	1/4	1	1/4	2-1/2	28.50
56-287	1/4	1-1/8	1/4	3	32.50
56-281h	1/4	1-5/8	1/4	3	59.00
56-282h	1/4	2-1/4	1/4	3-1/2	67.50

Aço Rápido

1 Lâmina

10-78	1/4	1-1/4	1/4	2-5/8	11.00
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2 Lâminas Retas

12-37	1/4	1-1/4	1/4	2-1/2	17.00
11-78	1/4	2	1/4	3-1/4	22.00

Ponta de Vídea

48-206h	1/4	1-1/4	1/4	2-3/4	34.00
48-080	1/2	1-1/2	1/2	3	35.50
85-251	1/2	2	1/2	4	29.50
48-181	1/2	2-1/4	1/2	4-1/4	57.00

Para Planar

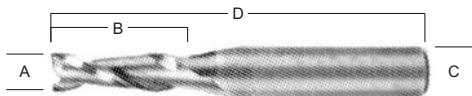
For Extra Smooth Routed Bottom US\$

Fresa	Dia	CL	Has	CT	Preço
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Vídea Sólida - 2 Lâminas Spiral

66-306	1/8	1/4	1/8	2	28.50
66-308	1/8	1/4	1/4	2	38.00
66-314	1/4	3/8	1/4	2	39.50
66-320	3/8	5/8	3/8	2-1/2	59.50

Legenda



- A- Dia (Diâmetro)
- B- CL (Comprimento da Lâmina)
- C- Has (Haste)
- D- CT (Comprimento Total)

Ponta Arredondada

DP= Diâmetro da Ponta US\$

Fresa	DP	CL	Has	CT	Preço
38-50	1/8	3/8	1/4	2	43.50
38-51	3/16	5/8	1/4	2	41.50
38-52	1/4	3/4	1/4	2	41.50
B-203-02	1/16	3/16	1/8	1-1/2	26.00
52-204B	1/8	1/2	1/4	2	43.00
52-140Bh	1/8	1-1/16	1/4	2-1/2	59.00
52-260B	3/16	3/4	1/4	2	42.50
52-280B	1/4	7/8	1/4	2-1/2	42.50
52-282Bh	1/4	2-1/4	1/4	3-1/2	76.00

Acessórios

Adaptador de Metal

1/8"	1/4"	8.00
5/16"	1/2"	15.00
3/16"	1/4"	8.00
3/8"	1/2"	15.00
1/4"	1/2"	13.20

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ATENÇÃO

Todos os preços estão em US\$, e terão conversão para o Real baseado na cotação do dolar paralelo do dia da compra.



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Lâmina Espiral



Vídea Sólida

1 lâmina Espiral Upcut US\$

Fresa	Dia	CL	Has	CT	Preço
Plástico, madeira e Alumínio					
65-000	1/16	1/4	1/8	2	35.50
65-010	1/8	1/4	1/4	2	38.50
65-013	1/8	1/2	1/8	2	36.50
65-012	1/8	1/2	1/4	2	38.00
65-019	3/16	5/8	3/16	2	42.50
65-018	3/16	5/8	1/4	2	53.00
65-020	3/16	1-1/4	1/4	3	61.00
65-023	1/4	5/8	1/4	2	48.50
65-026	1/4	1-1/4	1/4	3	68.50
65-027	1/4	1-1/2	1/4	3	73.50
65-033	3/8	1-1/8	3/8	3	96.00

Vídea Sólida

2 e 4 Lâminas Espiral Upcut US\$

Fresa	Dia	CL	Has	CT	Preço
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Alumínio Duro e Madeiras

2 Lâminas Spiral e Mills

92-05	1/32	1/8	1/8	1-1/2	18.00
92-105	3/64	3/32	1/8	1-1/2	15.00
92-10	3/64	1/8	1/8	1-1/2	15.00
92-20	1/16	1/4	1/8	1-1/2	15.00
92-21	1/6	3/8	1/8	1-1/2	15.00
92-30	3/32	5/16	1/8	1-1/2	15.00
92-40	1/8	7/16	1/8	1-1/2	15.00
92-040	1/8	7/16	1/4	2	15.00
92-140	1/8	1-1/16	1/8	3	32.50
92-60	3/16	5/8	3/16	2	18.00
92-060	3/16	5/8	1/4	2-1/2	18.00
92-262	3/16	1-5/8	3/16	3	29.50
92-80	1/4	3/4	1/4	2-1/2	20.50
92-85	3/8	1	1/8	2-1/2	38.50
92-90	1/2	1-1/2	1/2	3	67.50

4 lâminas Epirais

92-101	3/64	1/8	1/8	1-1/2	15.00
92-201	1/16	3/16	1/8	1-1/2	15.00
92-202	1/16	1/4	1/8	1-1/2	15.00
92-204	1/16	3/8	1/8	1-1/2	15.00
92-301	3/32	5/16	1/8	1-1/2	15.00
92-401	1/8	7/16	1/8	1-1/2	15.00
92-141	1/8	1-1/16	1/8	3	32.00
92-601	3/16	5/8	3/16	2	18.00
92-801	1/4	3/4	1/4	2-1/2	20.50
92-184	1/4	1-1/4	1/4	2-1/2	32.50
92-284	1/4	2-1/4	1/4	3-1/2	52.00
92-81	5/16	1	5/16	3	55.50
92-484	1/2	3	1/2	6	190.50



Vídea Sólida

2 lâminas Espirais US\$

Fresa	Dia	CL	Has	CT	Preço
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Madeira e Plástico Composto

Upcut

52-044	1/8	5/16	1/4	2	26.50
52-044T	1/8	5/16	1/4	2	31.00
52-040	1/8	1/2	1/4	2	28.00
52-040T	1/8	1/2	1/4	2	32.50
52-141	1/8	5/8	1/4	2	39.00
52-142	1/8	3/4	1/4	2	44.50
52-554	1/8	1-1/16	1/4	2-1/2	51.50
52-050	5/32	9/16	1/4	2	28.50
52-050T	5/32	9/16	1/4	2	32.50
52-060	3/16	5/8	1/4	2	28.50
52-060T	3/16	5/8	1/4	2	32.50
52-160	3/16	1-1/8	1/4	2-1/2	47.00
52-558	3/16	1-1/8	3/16	2-1/2	47.00
52-560	3/16	1-5/8	3/16	3	55.50
52-070	7/32	5/8	1/4	2-1/2	28.50
52-088	1/4	1/2	1/4	2	31.00
52-088T	1/4	1/2	1/4	2	35.50
52-080	1/4	3/4	1/4	2-1/2	28.00
52-080T	1/4	3/4	1/4	2-1/2	32.00
85-910	1/4	3/4	1/4	3	29.50
52-180	1/4	1-1/4	1/4	2-1/2	39.50
52-181	1/4	1-3/8	1/4	3	45.50
52-281	1/4	1-3/4	1/4	3-1/2	61.50
52-564	1/4	2-1/4	1/4	3-1/2	59.00
52-570	5/16	3-1/8	5/16	4-1/2	63.00
52-090	9/32	3/4	3/8	2-1/2	48.50
52-120	3/8	7/8	3/8	2-1/2	47.50
52.574	3/8	3-1/2	3/8	5	73.50
52-1600	1/2	1	1/2	3	81.00

Downcut

57-040	1/8	1/2	1/4	2	28.50
57-060	3/16	5/8	1/4	2	28.50
57-080	1/4	3/4	1/4	2-1/2	28.50

Madeira Natural e Composta

52-240	1/8	1/2	1/4	2	24.50
52-260	3/16	3/4	1/4	2	24.50
52-280	1/4	7/8	1/4	2-1/2	27.50
52-285	1/4	1	1/4	2-1/2	28.50
52-287	1/4	1-1/8	1/4	3	32.00
52-910	1/4	7/8	1/4	2-1/2	23.50
52-622up	1/4	3/8	1/4	2-1/2	26.00
52-624up	1/4	3/4	1/4	2-1/2	28.00
85-611	1/4	1	1/4	2-1/2	30.50
550014	1/4	2	1/4	2-1/2	35.00

Lâmina Reta

Vídea Sólida

1 Lâmina Reta US\$

Fresa	Dia	CL	Has	CT	Preço
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Plástico Maciço e Madeira Natural - em "O"

92-020	1/16	3/16	1/8	1-1/2	17.00
92-030	3/32	1/4	1/8	1-1/2	17.00
61-040	1/8	1/2	1/4	2	35.00
61-140	1/8	13/16	1/4	2	41.50
61-060	3/16	5/8	1/4	2	35.00
61-080	1/4	3/4	1/4	2-1/2	35.00

Plástico Maciço - em "O"

61-042P	1/8	1/2	1/4	2	32.00
61-061P	3/16	3/8	1/4	2	30.00
61-062P	3/16	5/8	1/4	2	31.50
61-063P	3/16	1	1/4	2-1/2	41.50
61-082P	1/4	3/4	1/4	2-1/2	33.50
61-084P	1/4	1-1/4	1/4	3	66.00

Madeira Natural e Composta - em "V"

61-240	1/8	1/2	1/4	2	35.00
61-260	3/16	3/4	1/4	2	35.00
61-280	1/4	7/8	1/4	2-1/2	35.00
61-285*	1/4	1	1/4	2-1/2	37.00

Aço Rápido

1 Lâmina Reta em "O" US\$

Fresa	Dia	CL	Has	CT	Preço
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Plástico Maciço e Madeira Natural

85-091	1/16	1/8	1/4	1-1/2	7.00
10-00	1/16	3/16	1/4	2	12.00
10-01	3/32	3/8	1/4	2	11.00
85-092	1/8	5/16	1/4	1-1/2	7.00
10-02	1/8	3/8	1/4	2	12.00
10-20	1/8	1/2	1/4	2	13.00
85-152	1/8	5/8	1/4	2	9.00
85-094	3/16	7/16	1/4	1-1/2	8.00
10-04	3/16	5/8	1/4	2	10.00
10-22	3/16	3/4	1/4	2	12.00
10-24	1/4	5/8	1/4	2-1/8	10.00
10-07	1/4	1	1/4	2-1/8	10.00
85-154	1/4	1	1/4	2-3/8	8.00
10-78	1/4	1-1/4	1/4	2-5/8	12.00

Vídea Sólida

3 Lâminas Retas em "V" US\$

Fresa	Dia	CL	Has	CT	Preço
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Plástico Duro & Madeira Natural

53-040	1/8	1/2	1/4	2	33.50
53-080	1/4	3/4	1/4	2-1/2	33.50

Legenda



- A- Dia (Diâmetro)
- B- CL (Comprimento da Lâmina)
- C- Has (Haste)
- D- CT (Comprimento Total)

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Ferramentas Especiais



Côncava

US\$

Fresa	Dia	CL	Has	CT	Preço
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Ponta de Vídea

85-444	1/4	3/8	1/4	2	28.00
85-445	3/8	5/16	1/4	2	35.50
85-446	1/2	3/8	1/4	2	37.00
85-447	5/8	7/16	1/4	2	38.50
92-06	3/4	5/8	1/4	2	26.50
92-07	7/8	5/8	1/2	2-1/2	35.50
92-08	1	3/4	1/2	2-1/2	44.50



Afunilado

DP= Diâmetro da Ponta US\$

Fresa	DP	CL	Has	CT	Preço
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7 Graus - Vídea Sólida

16-48	1/32	1/4	1/4	1-1/2	36.00
16-50	1/16	1/4	1/4	1-1/2	28.50
16-51	3/32	1/4	1/4	1-1/2	30.00
18-00	3/32	13/16	1/4	2	50.00
16-52	1/8	1/4	1/4	1-1/2	31.50

10 Graus - Vídea Sólida

18-01	3/32	3/8	1/4	2	38.50
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Ferramentas Especiais



"V" Bottom Bits

US\$

Fresa	Dia	CL	Has	CT	Preço
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45 Graus - Ponta de Vídea

92-45v	5/8	3/4	1/4	2-1/4	37.00
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60 Graus - Ponta de Vídea

92-60v	1/2	1/2	1/4	2-1/8	39.50
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92-61v	3/4	3/4	1/4	2	55.50
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90 Graus - Ponta de Vídea

37-51sc	1/4	3/4	1/4	2	41.50
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85-219	9/16	9/32	1/4	1-1/2	26.50
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85-220	1-1/4	5/8	1/4	1-3/4	44.00
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92-24v	2	1	1/2	3-3/8	61.50
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120 Graus - Ponta de Vídea

37-12v	1-1/4	3/8	1/4	1-7/8	61.50
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37-120v	1-1/4	3/8	1/2	2	59.00
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37-121v	2	1	1/2	2	95.50
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135 Graus - Ponta de Vídea

92-135v	1-1/4	1/4	1/4	2	64.50
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92-136v	2	7/8	1/2	2	95.50
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Para Arredondar

US\$

Fresa	Raio	CL	Has	CT	Preço
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Flat Bottom

92-393	1/8	3/8	1/4	1-5/8	34.00
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92-395	3/16	1/2	1/4	1-3/4	40.00
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92-394	1/4	5/8	1/4	2-1/4	45.50
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92-694	1/4	1/2	1/2	2-1/4	45.50
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92-695	3/8	5/8	1/2	2-1/2	48.50
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92-696	1/2	1	1/2	2-5/8	59.00
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"V" Bottom

92-394v	1/4	3/8	1/4	2-1/4	41.50
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92-397v	3/8	5/8	1/4	2-1/2	51.50
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92-396v	1/2	1/2	1/4	2-5/8	59.00
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Over Hang Bits - DP = Diâmetro da Ponta US\$

Fresa	Dia	B/B	CL	Has	CT	Preço
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Ponta de Vídea

92-200	3/8	1/2	1	1/4	2-1/2	32.50
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85-210	1/2	5/8	1	1/4	2-5/8	32.50
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Comprimento Extra

Lâmina Espiral para espuma US\$

Fresa	Dia	CL	Has	CT	Preço
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7 Graus - Vídea Sólida

1 Lâmina

63-141h	1/8	5/8	1/4	2	36.00
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63-285	1/4	1	1/4	2-1/2	33.00
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63-624	1/4	1-1/4	1/4	3	61.00
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63-726	1/4	1-1/4	1/4	3	36.00
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63-776	1/4	1-1/4	1/4	3	36.00
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2 Lâminas

52-141h	1/8	5/8	1/4	2	39.00
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52-142h	1/8	3/4	1/4	2	44.00
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52-554	1/8	1-1/16	1/4	2-1/2	51.50
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52-140	1/8	1-1/16	1/8	3	32.50
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52-558	3/16	1-1/8	3/16	2-1/2	51.50
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52-160	3/16	1-1/8	1/4	2-1/2	47.00
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52-560	3/16	1-5/8	3/16	3-1/2	55.50
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92-262	3/16	1-5/8	3/16	3	29.50
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52-280	1/4	7/8	1/4	2-1/2	27.50
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52-285	1/4	1	1/4	2-1/2	29.00
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52-287	1/4	1-1/8	1/4	3	32.00
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52-180h	1/4	1-1/4	1/4	2-1/2	40.00
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52-181h	1/4	1-3/8	1/4	3	45.50
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52-281h	1/4	1-3/4	1/4	3-1/2	63.00
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52-564	1/4	2-1/4	1/4	3-1/2	59.00
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52-570	5/16	3-1/8	5/16	4-1/2	66.50
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52-574	3/8	3-1/2	3/8	5	73.50
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4 Lâminas

92-141	1/8	1-1/16	1/8	3	27.00
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92-184	1/4	1-1/4	1/4	2-1/2	27.00
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92-284	1/4	2-1/4	1/4	3-1/2	47.00
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92-484	1/2	3	1/2	6	173.50
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Aço Rápido

2 Lâminas

40-201h	1/8	1-1/16	1/4	2-1/2	25.00
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40-203h	3/16	1-1/8	1/4	2-1/2	25.00
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40-282h	1/4	2-1/8	1/4	3-1/2	26.50
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40-212h	5/16	3-1/8	5/16	5-1/4	58.00
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4 Lâminas Espiral

92-384	3/8	2-5/8	3/8	4-1/4	29.50
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92-414	1/2	3	1/2	5	35.50
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40-564	1/2	4-1/8	1/2	6-1/2	61.00
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