



HIGH PERFORMANCE CARBIDE DRILLS



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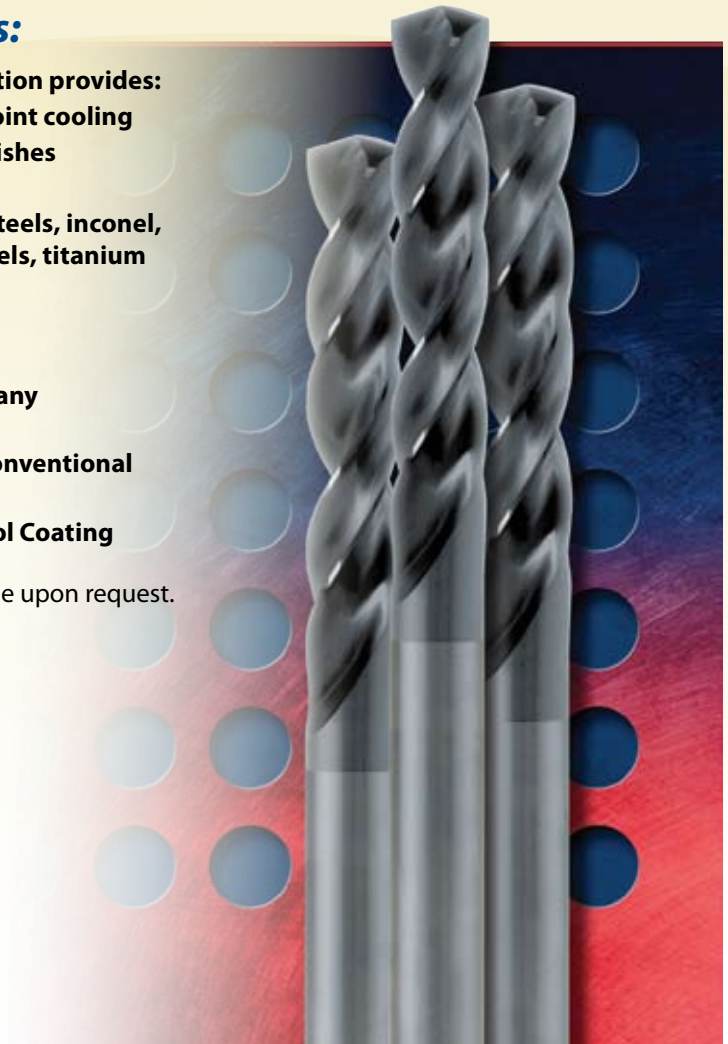
Hi-PerCarb High Performance Double Margin Drills

Increase production rates up to 12 times over conventional carbide drills.

Features & Benefits:

- Double margin construction provides:
 - Greater stability & point cooling
 - Improved surface finishes
 - Increased tool life
- Engineered for alloyed steels, inconel, low carbon, stainless steels, titanium and cast iron
- 3x Diameter length
- 5x Diameter length
- Eliminates reaming in many applications
- Easily resharpened on conventional equipment.
- Ti-NAMITE-A® (AlTiN) Tool Coating

All Ti-NAMITE Coatings available upon request.





Brocas Hi-PerCarb de alto rendimiento de doble margen

Aumente los índices de producción hasta 12 veces en relación con las brocas de carburo convencionales.

Características y ventajas:

- La construcción de doble margen proporciona:
 - Mayor estabilidad y refrigeración de la punta
 - Acabados de superficie mejorados
 - Prolongación de la vida útil de la herramienta
- Diseñadas para aceros aleados, Inconel, aceros de bajo contenido de carbono, aceros inoxidables, titanio y hierro fundido
- Longitud: 3 x diámetro
- Longitud: 5 x diámetro
- Eliminan el escariado en muchas aplicaciones
- Se reaflan fácilmente con equipos convencionales.
- Recubrimiento para herramientas Ti-NAMITE-A® (AlTiN)

Todos los recubrimientos Ti-NAMITE disponibles por pedido.

Forets double marge haute performance Hi-PerCarb

Permet d'avoir des taux de production jusqu'à 12 fois supérieurs à ceux des forets au carbure classiques.

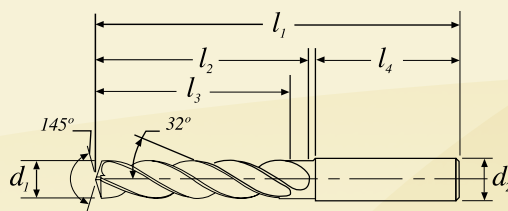
Caractéristiques et avantages :

- La construction double marge offre :
 - Stabilité accrue et meilleur refroidissement ponctuel
 - Meilleure finition des surfaces
 - Meilleure longévité des outils
- Produit conçu pour les alliages d'acier, l'Inconel, l'acier à faible teneur en carbone, l'acier inoxydable, le titane et la fonte
- Longueur 3x diamètre
- Longueur 5x diamètre
- Élimine l'alésage dans plusieurs applications
- Facile à réaffûter sur les équipements classiques.
- Revêtement Ti-NAMITE-A® (AlTiN)

Tous les revêtements Ti-NAMITE sont disponibles sur demande.



Hi-PerCarb High Performance Double Margin Drills



Diameter	Tolerances (inch)	
	d ₁	d ₂
≤ 3/4	+0.001/+0.0005	+0.0000/-0.0003
> 3/4 - 1/4	+0.0002/+0.0006	+0.0000/-0.0003
> 1/4 - 3/8	+0.0002/+0.0008	+0.0000/-0.0004
> 3/8 - 3/4	+0.0003/+0.0010	+0.0000/-0.0004
> 3/4 - 1	+0.0003/+0.0011	+0.0000/-0.0004

Cutting Diameter d ₁	Decimal Equivalent	Tap Size Reference Only	Shank Diameter d ₂	Overall Length l ₁	Flute Length l ₂	Min. Cleared Length l ₃	Shank Length l ₄	Ti-NAMITE-A (AlTiN) EDP No.
1/64	.0156	—	1/8	1-1/2	1/8	5/64	1	51752
1/32	.0312	—	1/8	1-1/2	1/4	3/16	1	51269
3/64	.0469	1/16 - 64	1/8	1-1/2	3/8	5/16	1	51270
1/16	.0625	5/64 - 60	1/8	2	7/16	3/8	1-1/4	51271
5/64	.0781	—	1/8	2	1/2	7/16	1-1/4	51272
3/32	.0938	1/8 - 32	1/8	2	1/2	7/16	1-1/4	51273
40	.0980	—	1/8	2	9/16	1/2	1-1/4	51274
39	.0995	—	1/8	2	9/16	1/2	1-1/4	51753
38	.1015	5-40	1/8	2	9/16	1/2	1-1/4	51754
37	.1040	5-44	1/8	2	9/16	1/2	1-1/4	51755
36	.1065	6-32	1/8	2	9/16	1/2	1-1/4	51756
7/64	.1094	—	1/8	2	5/8	9/16	1-1/4	51275
35	.1100	—	1/8	2	5/8	9/16	1-1/4	51276
34	.1110	—	1/8	2	5/8	9/16	1-1/4	51277
33	.1130	6-40	1/8	2	5/8	9/16	1-1/4	51757
32	.1160	—	1/8	2	5/8	9/16	1-1/4	51758
31	.1200	—	1/8	2	5/8	9/16	1-1/4	51759
1/8	.1250	—	1/4	2-1/2	3/4	21/32	1-7/16	51330
30	.1285	—	1/4	2-1/2	3/4	21/32	1-7/16	51278
29	.1360	8-32, 8-36	1/4	2-1/2	3/4	21/32	1-7/16	51331
28	.1405	8-40	1/4	2-1/2	3/4	21/32	1-7/16	51760
9/64	.1406	—	1/4	2-1/2	3/4	21/32	1-7/16	51332
27	.1440	—	1/4	2-1/2	3/4	21/32	1-7/16	51761
26	.1470	3/16-24	1/4	2-1/2	3/4	21/32	1-7/16	51762
25	.1495	10-24	1/4	2-5/8	7/8	23/32	1-7/16	51333
24	.1520	—	1/4	2-5/8	7/8	23/32	1-7/16	51763
23	.1540	10-28	1/4	2-5/8	7/8	23/32	1-7/16	51764
5/32	.1562	—	1/4	2-5/8	7/8	23/32	1-7/16	51334
22	.1570	10-30	1/4	2-5/8	7/8	23/32	1-7/16	51765
21	.1590	10-32	1/4	2-5/8	7/8	23/32	1-7/16	51335
20	.1610	13/64 - 24	1/4	2-5/8	7/8	23/32	1-7/16	51279
19	.1660	—	1/4	2-5/8	7/8	23/32	1-7/16	51766
18	.1695	—	1/4	2-5/8	7/8	23/32	1-7/16	51767
11/64	.1719	—	1/4	2-5/8	7/8	23/32	1-7/16	51336
17	.1730	—	1/4	2-5/8	7/8	23/32	1-7/16	51768
16	.1770	12-24	1/4	2-5/8	7/8	23/32	1-7/16	51769
15	.1800	—	1/4	2-5/8	7/8	23/32	1-7/16	51770
14	.1820	12-28	1/4	2-5/8	7/8	23/32	1-7/16	51771
13	.1850	12-32	1/4	2-5/8	7/8	23/32	1-7/16	51772

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Fractional: shank flat optional (quoted on request)

Fractionales: mango con cara plana opcional (se cotiza a pedido)

Fractionnel : Plat de tige en option (prix établi sur demande)



Series 135



Hi-PerCarb High Performance
Double Margin Drills – Wire – Letter

Serie 135



Brocas Hi-PerCarb de alto
rendimiento de doble margen
– Tamaños: calibres de alambre –
Letras

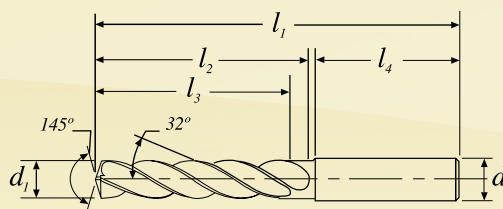
Série 135



Forets double marge haute
performance Hi-PerCarb – Broche
– Lettre

Hi-PerCarb High Performance
Double Margin Drills

Tolerances (inch)		
Diameter	d_1	d_2
$\leq 3/4$	$+0.0001/+0.0005$	$+0.0000/-0.0003$
$> 3/4 - 1/4$	$+0.0002/+0.0006$	$+0.0000/-0.0003$
$> 1/4 - 3/8$	$+0.0002/+0.0008$	$+0.0000/-0.0004$
$> 3/8 - 3/4$	$+0.0003/+0.0010$	$+0.0000/-0.0004$
$> 3/4 - 1$	$+0.0003/+0.0011$	$+0.0000/-0.0004$



Cutting Diameter d_1	Decimal Equivalent	Tap Size Reference Only	Shank Diameter d_2	Overall Length l_1	Flute Length l_2	Min. Cleared Length l_3	Shank Length l_4	Ti-NAMITE-A (AlTiN) EDP No.
3/16	.1875	—	1/4	2-5/8	1	53/64	1-7/16	51337
12	.1890	7/32-32	1/4	2-5/8	1	53/64	1-7/16	51773
11	.1910	—	1/4	2-5/8	1	53/64	1-7/16	51774
10	.1935	14-20	1/4	2-5/8	1	53/64	1-7/16	51775
9	.1960	—	1/4	2-5/8	1	53/64	1-7/16	51776
8	.1990	—	1/4	2-5/8	1	53/64	1-7/16	51777
7	.2010	1/4-20	1/4	2-5/8	1	53/64	1-7/16	51338
13/64	.2031	—	1/4	2-5/8	1	53/64	1-7/16	51339
6	.2040	—	1/4	2-5/8	1	53/64	1-7/16	51778
5	.2055	—	1/4	2-5/8	1	53/64	1-7/16	51779
4	.2090	1/4-24	1/4	2-5/8	1	53/64	1-7/16	51780
3	.2130	1/4-28	1/4	2-5/8	1	53/64	1-7/16	51340
7/32	.2188	1/4-32	1/4	2-5/8	1	53/64	1-7/16	51341
2	.2210	—	1/4	2-5/8	1	53/64	1-7/16	51781
1	.2280	—	1/4	2-5/8	1	53/64	1-7/16	51782
15/64	.2344	—	1/4	2-5/8	1	53/64	1-7/16	51342
1/4	.2500	—	1/4	3-1/8	1-5/16	1-3/64	1-7/16	51343
F	.2570	5/16-18	5/16	3-1/8	1-5/16	1-3/64	1-7/16	51344
17/64	.2656	5/16-20	5/16	3-1/8	1-5/16	1-3/64	1-7/16	51345
I	.2720	5/16-24	5/16	3-1/8	1-5/16	1-3/64	1-7/16	51346
9/32	.2812	5/16-32	5/16	3-1/8	1-9/16	1-3/16	1-7/16	51347
19/64	.2969	—	5/16	3-1/8	1-9/16	1-3/16	1-7/16	51348
5/16	.3125	3/8-16	5/16	3-1/8	1-9/16	1-3/16	1-7/16	51349
21/64	.3281	3/8-20	3/8	3-1/2	1-27/32	1-37/64	1-9/16	51350
Q	.3320	3/8-24	3/8	3-1/2	1-27/32	1-37/64	1-9/16	51351
11/32	.3438	3/8-32	3/8	3-1/2	1-27/32	1-37/64	1-9/16	51352
23/64	.3594	—	3/8	3-1/2	1-27/32	1-37/64	1-9/16	51353
U	.3680	7/16-14	3/8	3-1/2	1-27/32	1-37/64	1-9/16	51354
3/8	.3750	—	3/8	3-1/2	1-27/32	1-37/64	1-9/16	51355
25/64	.3906	7/16-20	1/2	3-1/2	1-27/32	1-37/64	1-9/16	51356
13/32	.4062	—	1/2	4-1/16	2-3/16	1-51/64	1-49/64	51357
27/64	.4219	1/2-13	1/2	4-1/16	2-3/16	1-51/64	1-49/64	51358
7/16	.4375	1/4-18 NPT	1/2	4-1/16	2-3/16	1-51/64	1-49/64	51359
29/64	.4531	1/2-20	1/2	4-1/16	2-3/16	1-51/64	1-49/64	51360
15/32	.4688	1/2-28	1/2	4-1/16	2-3/16	1-51/64	1-49/64	51361
31/64	.4844	9/16-12	1/2	4-1/4	2-5/16	1-7/8	1-49/64	51362
1/2	.5000	—	1/2	4-1/4	2-5/16	1-7/8	1-49/64	51363
33/64	.5156	9/16-18	5/8	4-1/4	2-5/16	1-7/8	1-49/64	51364
17/32	.5312	5/8-11	5/8	4-1/4	2-5/16	1-7/8	1-49/64	51365

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Fractional: shank flat optional (quoted on request)

Fraccionales: mango con cara plana opcional (se cotiza a pedido)

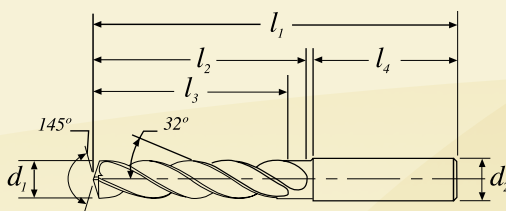
Fractionnel : Plat de tige en option (prix établi sur demande)



Hi-PerCarb High Performance Double Margin Drills

Fractional
Series

135



Tolerances (inch)

Diameter	d ₁	d ₂
≤ 3/4	+0.0001/+0.0005	+0.0000/-0.0003
> 3/4 - 1/4	+0.0002/+0.0006	+0.0000/-0.0003
> 1/4 - 3/8	+0.0002/+0.0008	+0.0000/-0.0004
> 3/8 - 3/4	+0.0003/+0.0010	+0.0000/-0.0004
> 3/4 - 1	+0.0003/+0.0011	+0.0000/-0.0004



Series 135 • 135M



Hi-PerCarb High Performance
Double Margin Drills – Wire – Letter

Serie 135 • 135M



Brocas Hi-PerCarb de alto
rendimiento de doble margen
– Tamaños: calibres de alambre –
Letras

Série 135 • 135M



Forets double marge haute
performance Hi-PerCarb – Broche
– Lettre

Cutting Diameter d ₁	Decimal Equivalent	Tap Size Reference Only	Shank Diameter d ₂	Overall Length l ₁	Flute Length l ₂	Min.Cleared Length l ₃	Shank Length l ₄	Ti-NAMITE-A (AlTiN) EDP No.
35/64	.5469	5/8-12	5/8	4-1/4	2-5/16	1-7/8	1-49/64	51783
9/16	.5625	–	5/8	4-9/16	2-1/2	2	1-57/64	51366
37/64	.5781	5/8-18	5/8	4-9/16	2-1/2	2	1-57/64	51367
19/32	.5938	11/16-11	5/8	4-9/16	2-1/2	2	1-57/64	51784
39/64	.6094	11/16-12	5/8	4-9/16	2-1/2	2	1-57/64	51785
5/8	.6250	11/16-16	5/8	4-9/16	2-1/2	2	1-57/64	51368
41/64	.6406	–	3/4	4-7/8	2-3/4	2-5/16	1-57/64	51786
21/32	.6562	3/4-10	3/4	4-7/8	2-3/4	2-5/16	1-57/64	51369
43/64	.6719	11/16-24	3/4	4-7/8	2-3/4	2-5/16	1-57/64	51787
11/16	.6875	3/4-16	3/4	4-7/8	2-3/4	2-5/16	1-57/64	51370
45/64	.7031	3/4-20, 1/2-14 NPT	3/4	4-7/8	2-3/4	2-5/16	1-57/64	51788
23/32	.7188	–	3/4	4-7/8	2-3/4	2-5/16	1-57/64	51789
47/64	.7344	13/16-12	3/4	4-7/8	2-3/4	2-5/16	1-57/64	51790
3/4	.7500	13/16-16	3/4	5-1/4	3-1/16	2-7/16	1-31/32	51371
49/64	.7656	7/8-9	7/8	5-1/4	3-1/16	2-7/16	1-31/32	51372
25/32	.7812	–	7/8	6	3-11/16	2-11/16	2-1/8	51791
51/64	.7969	7/8-12	7/8	6	3-11/16	2-11/16	2-1/8	51792
13/16	.8125	7/8-14	7/8	6	3-11/16	2-11/16	2-1/8	51373
7/8	.8750	1-8	7/8	6	3-11/16	2-11/16	2-1/8	51374
59/64	.9219	1-12	1	6	3-11/16	2-11/16	2-1/8	51375

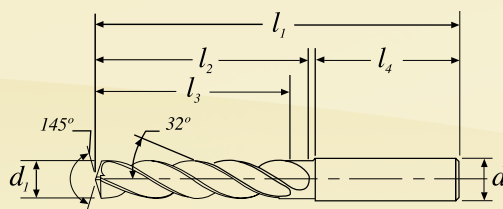
Fractional: shank flat optional (quoted on request)

Fraccionales: mango con cara plana opcional (se cotiza a pedido)

Fractionnel : Plat de tige en option (prix établi sur demande)

**Hi-PerCarb High Performance
Double Margin Drills**

Diameter	Tolerances (mm)	
	d_1	d_2
≤ 3	+0,0025/+0,0127	+0,0000/-0,0050
> 3 – 6	+0,0050/+0,0152	+0,0000/-0,0076
> 6 – 10	+0,0050/+0,0200	+0,0000/-0,0102
> 10 – 18	+0,0076/+0,0254	+0,0000/-0,0102
> 18 – 30	+0,0076/+0,0279	+0,0000/-0,0102



Cutting Diameter d_1 mm	Decimal Equivalent	Tap Size Reference Only	Shank Diameter d_2 mm	Overall Length l_1 mm	Flute Length l_2 mm	Min. Cleared Length l_3 mm	Min. Shank Length l_4 mm	Ti-NAMITE-A (AlTiN) EDP No.
3	0.1181	—	6	62	20	17	36	63155
3,2	0.1260	—	6	62	20	17	36	63156
3,3	0.1299	M4 (4 x 0,7)	6	62	20	17	36	63157
3,4	0.1339	—	6	62	20	17	36	63158
3,5	0.1378	—	6	62	20	17	36	63159
3,6	0.1417	—	6	62	20	17	36	63160
3,7	0.1457	M4,5 (4,5 x 0,75)	6	62	20	17	36	63161
4	0.1575	—	6	66	24	21	36	63162
4,2	0.1654	M5 (5 x 0,8)	6	66	24	21	36	63163
4,3	0.1693	—	6	66	24	21	36	63164
4,5	0.1772	—	6	66	24	21	36	63165
4,6	0.1811	—	6	66	24	21	36	63166
4,8	0.1890	—	6	66	28	24	36	63167
5	0.1969	M6 (6 x 1)	6	66	28	24	36	63168
5,25	0.2067	—	6	66	28	24	36	63169
5,3	0.2087	—	6	66	28	24	36	63170
5,5	0.2165	—	6	66	28	24	36	63171
5,8	0.2283	—	6	66	28	24	36	63172
6	0.2362	M7 (7 x 1)	6	66	28	24	36	63173
6,25	0.2461	—	8	79	34	28	36	63174
6,4	0.2520	—	8	79	34	28	36	63175
6,5	0.2559	—	8	79	34	28	36	63213
6,8	0.2677	M8 (8 x 1,25)	8	79	34	28	36	63176
7	0.2756	8 x 1	8	79	34	28	36	63177
7,25	0.2854	—	8	79	41	34	36	63178
7,5	0.2953	—	8	79	41	34	36	63179
7,8	0.3071	M9 (9 x 1,25)	8	79	41	34	36	63180
8	0.3150	—	8	79	41	34	36	63181
8,4	0.3307	—	10	89	47	40	40	63182
8,5	0.3346	M10 (10 x 1,5)	10	89	47	40	40	63183
8,8	0.3465	10 x 1,25	10	89	47	40	40	63184
9	0.3543	—	10	89	47	40	40	63185
9,25	0.3642	—	10	89	47	40	40	63186
9,5	0.3740	11 x 1,5	10	89	47	40	40	63187
10	0.3937	—	10	89	47	40	40	63188
10,2	0.4015	M12 (12 x 1,75)	12	102	55	45	45	63189

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Metric: shank to DIN 6535 HA (6535 HB quoted on request)

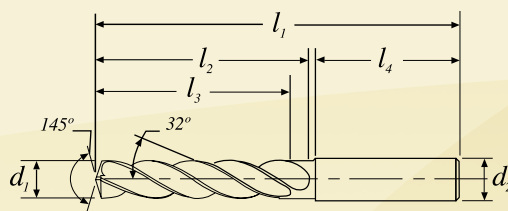
Métricas: mango según DIN 6535 HA (se cotiza a pedido 6535 HB)

Métrique : Tige conforme à la norme DIN 6535 HA (prix 6535 HB établi sur demande)



Hi-PerCarb High Performance Double Margin Drills

Metric
Series **135M**



Diameter	Tolerances (mm)	
	d ₁	d ₂
≤ 3	+0,0025/+0,0127	+0,0000/-0,0050
> 3 – 6	+0,0050/+0,0152	+0,0000/-0,0076
> 6 – 10	+0,0050/+0,0200	+0,0000/-0,0102
> 10 – 18	+0,0076/+0,0254	+0,0000/-0,0102
> 18 – 30	+0,0076/+0,0279	+0,0000/-0,0102



Series 135M



Hi-PerCarb High Performance
Double Margin Drills

Serie 135M



Brocas Hi-PerCarb de alto
rendimiento de doble margen

Série 135M



Forets double marge haute
performance Hi-PerCarb

Cutting Diameter d ₁ mm	Decimal Equivalent	Tap Size Reference Only	Shank Diameter d ₂ mm	Overall Length l ₁ mm	Flute Length l ₂ mm	Min.Cleared Length l ₃ mm	Min.Shank Length l ₄ mm	Ti-NAMITE-A (AlTiN) EDP No.
10,5	0.4134	—	12	102	55	45	45	63190
10,8	0.4251	12 x 1,25	12	102	55	45	45	63191
11	0.4331	—	12	102	55	45	45	63192
11,25	0.4429	—	12	102	55	45	45	63193
11,5	0.4528	—	12	102	55	45	45	63194
12	0.4724	M14 (14 x 2)	12	102	55	45	45	63195
12,5	0.4921	14 x 1,5	14	107	60	49	45	63196
12,8	0.5039	—	14	107	60	49	45	63197
13	0.5118	—	14	107	60	49	45	63198
13,5	0.5315	—	14	107	60	49	45	63199
14	0.5512	M16 (16 x 2)	14	107	60	49	45	63200
14,5	0.5709	16 x 1,5	16	115	65	51	48	63201
15	0.5906	—	16	115	65	51	48	63202
15,5	0.6102	M18 (18 x 2,5)	16	115	65	51	48	63203
16	0.6299	—	16	115	65	51	48	63204
16,5	0.6496	18 x 1,5	18	123	73	58	48	63205
17	0.6693	—	18	123	73	58	48	63206
17,5	0.6890	M20 (20 x 2,5)	18	123	73	58	48	63207
18	0.7087	—	18	123	73	58	48	63208
18,5	0.7283	20 x 1,5	20	131	79	63	50	63209
19	0.7480	—	20	131	79	63	50	63210
19,5	0.7677	M22 (22 x 2,5)	20	131	79	63	50	63211
20	0.7874	—	20	131	79	63	50	63212

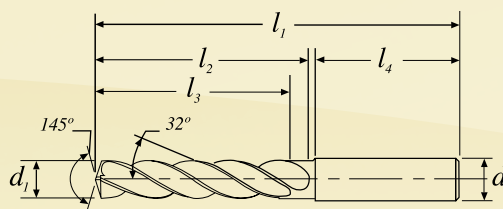
Metric: shank to DIN 6535 HA (6535 HB quoted on request)

Métricas: mango según DIN 6535 HA (se cotiza a pedido 6535 HB)

Métrique : Tige conforme à la norme DIN 6535 HA (prix 6535 HB établi sur demande)

Hi-PerCarb High Performance
Double Margin Drills

Tolerances (inch)		
Diameter	d ₁	d ₂
≤ 3/4	+0.001/+0.0005	+0.0000/-0.0003
> 3/4 – 1/4	+0.0002/+0.0006	+0.0000/-0.0003
> 1/4 – 3/8	+0.0002/+0.0008	+0.0000/-0.0004
> 3/8 – 3/4	+0.0003/+0.0010	+0.0000/-0.0004
> 3/4 – 1	+0.0003/+0.0011	+0.0000/-0.0004



Cutting Diameter d ₁	Decimal Equivalent	Tap Size Reference Only	Shank Diameter d ₂	Overall Length l ₁	Flute Length l ₂	Min. Cleared Length l ₃	Shank Length l ₄	Ti-NAMITE-A (AITiN) EDP No.
1/8	.1250	—	1/4	3	1	53/64	1-15/16	51580
30	.1285	—	1/4	3	1	53/64	1-15/16	51581
29	.1360	8-32, 8-36	1/4	3	1	53/64	1-15/16	51582
9/64	.1406	—	1/4	3	1	53/64	1-15/16	51583
25	.1495	10-24	1/4	3-1/4	1-1/4	1-5/64	1-15/16	51584
5/32	.1562	—	1/4	3-1/4	1-1/4	1-5/64	1-15/16	51585
21	.1590	10-32	1/4	3-1/4	1-1/4	1-5/64	1-15/16	51586
20	.1610	13/64-24	1/4	3-1/4	1-1/4	1-5/64	1-15/16	51587
11/64	.1719	—	1/4	3-1/4	1-1/4	1-5/64	1-15/16	51588
3/16	.1875	—	1/4	3-1/4	1-3/4	1-37/64	1-7/16	51589
7	.2010	1/4-20	1/4	3-1/4	1-3/4	1-37/64	1-7/16	51506
13/64	.2031	—	1/4	3-1/4	1-3/4	1-37/64	1-7/16	51507
5	.2055	—	1/4	3-1/4	1-3/4	1-37/64	1-7/16	51590
4	.2090	1/4-24	1/4	3-1/4	1-3/4	1-37/64	1-7/16	51508
3	.2130	1/4-28	1/4	3-1/4	1-3/4	1-37/64	1-7/16	51509
7/32	.2188	1/4-32	1/4	3-1/4	1-3/4	1-37/64	1-7/16	51510
15/64	.2344	—	1/4	3-1/4	1-3/4	1-37/64	1-7/16	51591
1/4	.2500	—	1/4	3-5/8	2-5/64	1-51/64	1-7/16	51511
F	.2570	5/16-18	5/16	3-5/8	2-5/64	1-51/64	1-7/16	51512
17/64	.2656	5/16-20	5/16	3-5/8	2-5/64	1-51/64	1-7/16	51513
I	.2720	5/16-24	5/16	3-5/8	2-5/64	1-51/64	1-7/16	51514
9/32	.2812	5/16-32	5/16	3-5/8	2-5/64	1-51/64	1-7/16	51515
19/64	.2969	—	5/16	3-5/8	2-5/64	1-51/64	1-7/16	51516
5/16	.3125	3/8-16	5/16	3-5/8	2-5/64	1-51/64	1-7/16	51517
P	.3230	—	3/8	4	2-13/32	2-1/8	1-9/16	51518
21/64	.3281	3/8-20	3/8	4	2-13/32	2-1/8	1-9/16	51519
Q	.3320	3/8-24	3/8	4	2-13/32	2-1/8	1-9/16	51520
11/32	.3438	3/8-32	3/8	4	2-13/32	2-1/8	1-9/16	51521
S	.3480	1/8-27NPS	3/8	4	2-13/32	2-1/8	1-9/16	51522
23/64	.3594	—	3/8	4	2-13/32	2-1/8	1-9/16	51523
U	.3680	7/16-14	3/8	4	2-13/32	2-1/8	1-9/16	51524
3/8	.3750	—	3/8	4	2-13/32	2-1/8	1-9/16	51525
W	.3860	—	1/2	4	2-13/32	2-1/8	1-9/16	51526
25/64	.3906	7/16-20	1/2	4	2-13/32	2-1/8	1-9/16	51527
13/32	.4062	—	1/2	4-11/16	2-3/4	2-23/64	1-49/64	51528
27/64	.4219	1/2-13	1/2	4-11/16	2-3/4	2-23/64	1-49/64	51529
7/16	.4375	1/4-18NPT	1/2	4-11/16	2-3/4	2-23/64	1-49/64	51530
29/64	.4531	1/2-20	1/2	4-11/16	2-3/4	2-23/64	1-49/64	51531
15/32	.4688	1/2-28	1/2	4-11/16	2-3/4	2-23/64	1-49/64	51532

continued on next page

Fractional: shank flat optional (quoted on request)

Fraccionales: mango con cara plana opcional (se cotiza a pedido)

Fractionnel : Plat de tige en option (prix établi sur demande)

Series 135L



Hi-PerCarb High Performance
Double Margin Drills – Long
Lengths increase drilling depths up
to 5xD – Wire – Letter

Serie 135L



Brocas Hi-PerCarb de alto
rendimiento de doble margen
– Con longitudes grandes, las
profundidades de perforación
aumentan hasta 5 x D – Tamaños:
calibres de alambre – Letras

Série 135L

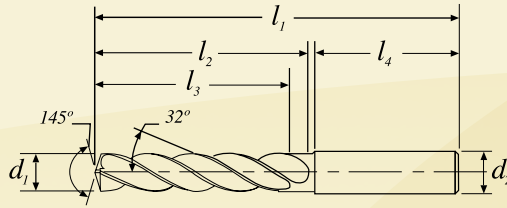


Forets double marge haute
performance Hi-PerCarb – Longueurs
supplémentaires augmentant les
profondeurs de perçage jusqu'à 5xD
– Broche – Lettre



Hi-PerCarb High Performance Double Margin Drills

Fractional
Series **135L**



Diameter	Tolerances (inch)	
	d ₁	d ₂
≤ 3/4	+0.0001/+0.0005	+0.0000/-0.0003
> 3/4 – 1/2	+0.0002/+0.0006	+0.0000/-0.0003
> 1/2 – 3/8	+0.0002/+0.0008	+0.0000/-0.0004
> 3/8 – 3/4	+0.0003/+0.0010	+0.0000/-0.0004
> 3/4 – 1	+0.0003/+0.0011	+0.0000/-0.0004



Series 135L



Hi-PerCarb High Performance
Double Margin Drills – Long
Lengths increase drilling depths up
to 5xD – Wire – Letter

Serie 135L



Brocas Hi-PerCarb de alto
rendimiento de doble margen
– Con longitudes grandes, las
profundidades de perforación
aumentan hasta 5 x D – Tamaños:
calibres de alambre – Letras

Série 135L



Forets double marge haute
performance Hi-PerCarb – Longueurs
supplémentaires augmentant les
profondeurs de perçage jusqu'à 5xD
– Broche – Lettre

Cutting Diameter d ₁	Decimal Equivalent	Tap Size Reference Only	Shank Diameter d ₂	Overall Length l ₁	Flute Length l ₂	Min. Cleared Length l ₃	Shank Length l ₄	Ti-NAMITE-A (AlTiN) EDP No.
31/64	.4844	9/16–12	1/2	4-7/8	3-1/32	2-19/32	1-49/64	51533
1/2	.5000	–	1/2	4-7/8	3-1/32	2-19/32	1-49/64	51534
33/64	.5156	9/16–18	5/8	4-7/8	3-1/32	2-19/32	1-49/64	51535
17/32	.5312	5/8–11	5/8	4-7/8	3-1/32	2-19/32	1-49/64	51536
35/64	.5469	5/8–12	5/8	4-7/8	3-1/32	2-19/32	1-49/64	51537
9/16	.5625	–	5/8	5-1/4	3-1/4	2-3/4	1-57/64	51538
37/64	.5781	5/8–18	5/8	5-1/4	3-1/4	2-3/4	1-57/64	51539
19/32	.5938	11/16–11	5/8	5-1/4	3-1/4	2-3/4	1-57/64	51592
39/64	.6094	11/16–12	5/8	5-1/4	3-1/4	2-3/4	1-57/64	51593
5/8	.6250	11/16–16	5/8	5-1/4	3-1/4	2-3/4	1-57/64	51540
41/64	.6406	–	3/4	5-5/8	3-5/8	3-3/16	1-57/64	51594
21/32	.6562	3/4–10	3/4	5-5/8	3-5/8	3-3/16	1-57/64	51541
43/64	.6719	11/16–24	3/4	5-5/8	3-5/8	3-3/16	1-57/64	51595
11/16	.6875	3/4–16	3/4	5-5/8	3-5/8	3-3/16	1-57/64	51542
45/64	.7031	3/4–20, 1/2–14 NPT	3/4	5-5/8	3-5/8	3-3/16	1-57/64	51543
23/32	.7188	–	3/4	6	4	3-3/8	1-31/32	51596
47/64	.7344	13/16–12	3/4	6	4	3-3/8	1-31/32	51544
3/4	.7500	13/16–16	3/4	6	4	3-3/8	1-31/32	51545

Fractional: shank flat optional (quoted on request)

Fraccionales: mango con cara plana opcional (se cotiza a pedido)

Fractionnel : Plat de tige en option (prix établi sur demande)