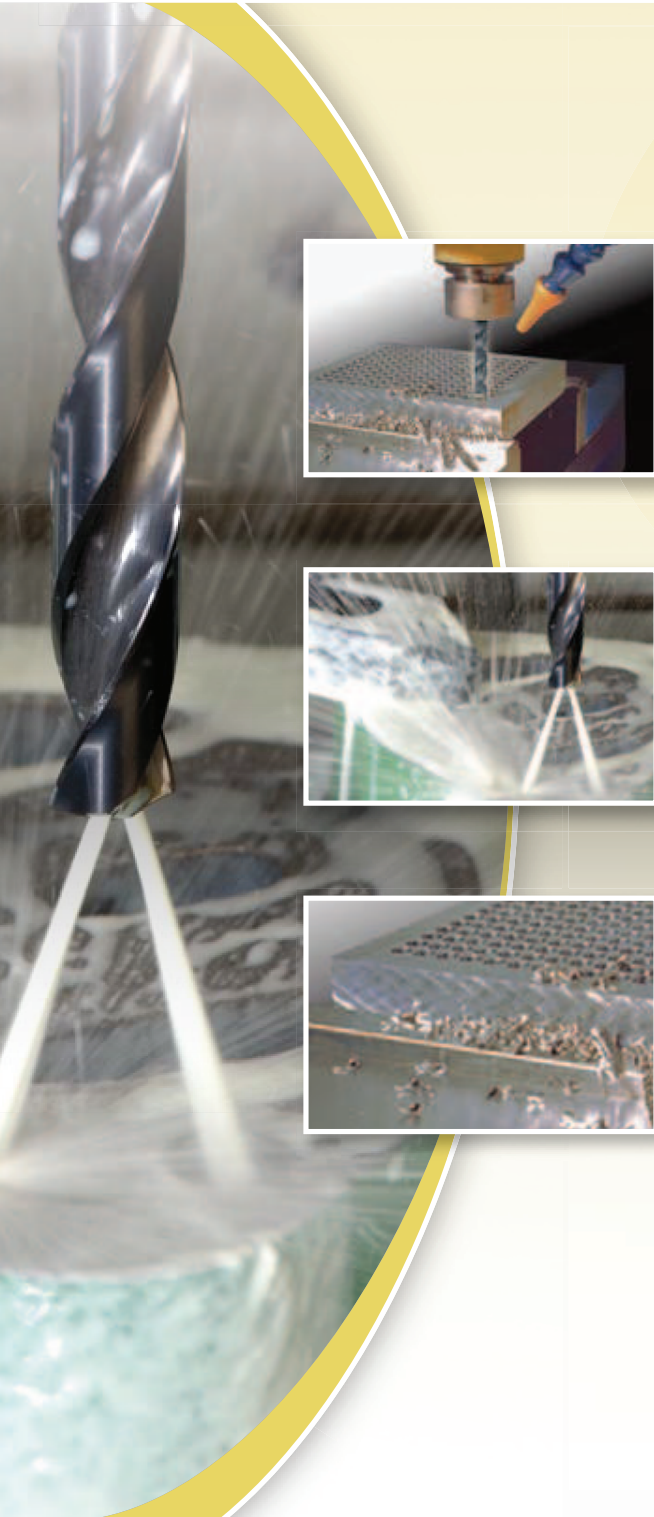


# DRILLS



## DRILLS



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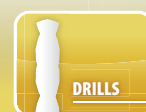
## Drills

High Performance Drills	Series	Includes	Page
Hi-PerCarb High Performance Double Margin Drills	135 3xD, 135 5xD		130 – 139
ICe-Carb Internal Coolant Drills for Depths up to 8XD	140 5xD, 140 8xD		140 – 149

Drills	Series	Includes	Page
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2 Flute Single End Short Length DIN 6539	108M Plus		154 – 155
2 Flute Straight Flute Single End	106	106M	156 – 157
3 Flute Single End	103	103M	158 – 160
Single End Flat	104		161
Double End Combined Drill and Countersink	301		162
Double End Combined Drill and Countersink / DIN 333	301M		163
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3 Flute Single End Countersink	603		164
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## Brocas

Brocas de Alto Rendimiento	Series	Includes	Page
Brocas Hi-PerCarb de Alto Rendimiento de Doble Margen	135 3xD, 135 5xD		130 – 139
Brocas ICe-Carb con Refrigerante Interno para Profundidades de Hasta 8xD	140 5xD, 140 8xD		140 – 149

Brocas	Series	Includes	Page
2 Filos - Brocas de Espiral Regular y Rápido	101, 125	101M	150 – 153
Brocas DIN 6539 Serie Corta	108M Plus		154 – 155
2 Filos - Filos Rectos	106	106M	156 – 157
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Doble Punta - Broca de Centros	301		162
Doble Punta - Broca de Centros - DIN 333	301M		163
Avellanador de un Filo Countersink	601		164
Avellanador de 3 Filos	603		164
Avellanador de 6 Filos	606		165



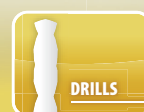
## Forets

Forets Haute Performance	Series	Includes	Page
Forets Double Marge Haute Performance Hi-PerCarb	135 3xD, 135 5xD		130 – 139
Forets ICe-Carb à Refroidissement Interne pour Profondeurs Jusqu'à 8xD	140 5xD, 140 8xD		140 – 149

Forets	Series	Includes	Page
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Forets Courts - DIN 6539	108M Plus		154 – 155
2 Dents Forets à Arête Droite	106	106M	156 – 157
3 Dents	103	103M	158 – 160
Forets à Langue d'aspic	104		161
Tailée aux 2 Bouts - Forêt à Centrer	301		162
Tailée aux 2 Bouts - Forêt à Centrer DIN 333	301M		163
Foret Aléseur à Goujure Unique	601		164
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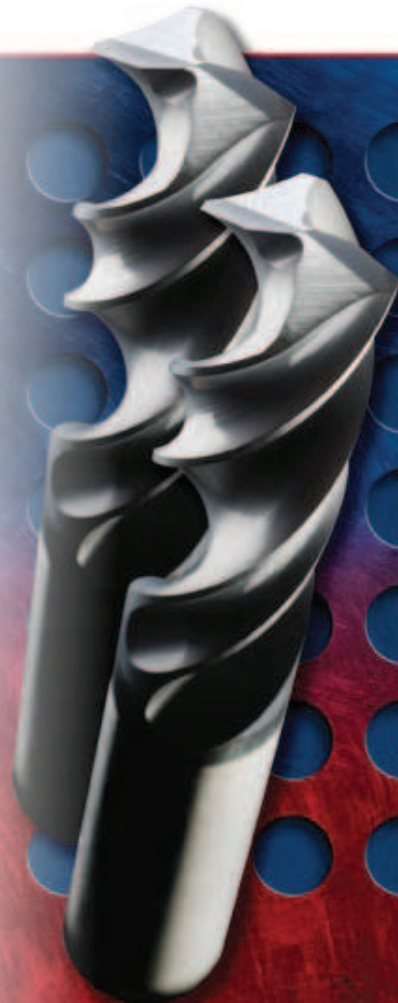
# Hi-PerCarb High Performance Double Margin Drills

*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 inoxidable, 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

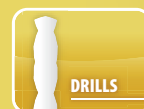
*Permet d'avoir des taux de production jusqu'à 12 fois supérieurs à ceux des forets au carbure classiques.*

### *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.

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### Series 135 3xD



Hi-PerCarb High Performance  
Double Margin Drills for depths  
up to 3xD

### Serie 135 3xD



Brocas Hi-PerCarb de alto  
rendimiento de doble margen  
para profundidades de hasta  
3xD

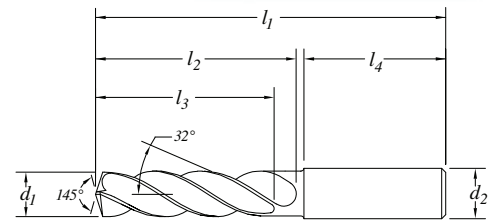
### Série 135 3xD



Forets double marge haute  
performance Hi-PerCarb pour  
profondeurs jusqu'à 3xD

## Hi-PerCarb Drills for Depths up to 3xD

Series **135 3xD**



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	0.0156		1/8	1-1/2	1/8	5/64	1	51752
1/32	0.0312		1/8	1-1/2	1/4	3/16	1	51269
3/64	0.0469	1/16-64	1/8	1-1/2	3/8	5/16	1	51270
1/16	0.0625	5/64-60	1/8	2	7/16	3/8	1-1/4	51271
5/64	0.0781		1/8	2	1/2	7/16	1-1/4	51272
3/32	0.0938	1/8-32	1/8	2	1/2	7/16	1-1/4	51273
40	0.0980		1/8	2	9/16	1/2	1-1/4	51274
39	0.0995		1/8	2	9/16	1/2	1-1/4	51753
38	0.1015	5-40	1/8	2	9/16	1/2	1-1/4	51754
37	0.1040	5-44	1/8	2	9/16	1/2	1-1/4	51755
36	0.1065	6-32	1/8	2	9/16	1/2	1-1/4	51756
7/64	0.1094		1/8	2	5/8	9/16	1-1/4	51275
35	0.1100		1/8	2	5/8	9/16	1-1/4	51276
34	0.1110		1/8	2	5/8	9/16	1-1/4	51277
33	0.1130	6-40	1/8	2	5/8	9/16	1-1/4	51757
32	0.1160		1/8	2	5/8	9/16	1-1/4	51758
3,0 mm	0.1181		6mm	62mm	20mm	17mm	36mm	63155
31	0.1200		1/8	2	5/8	9/16	1-1/4	51759
3,1 mm	0.1220		6mm	62mm	20mm	17mm	36mm	63741
1/8	0.1250		1/4	2-1/2	3/4	21/32	1-7/16	51330
3,2 mm	0.1260	M3,5 X 0,35	6mm	62mm	20mm	17mm	36mm	63156
30	0.1285		1/4	2-1/2	3/4	21/32	1-7/16	51278
3,3 mm	0.1299	M4 X 0,7	6mm	62mm	20mm	17mm	36mm	63157
3,4 mm	0.1339		6mm	62mm	20mm	17mm	36mm	63158
29	0.1360	8-32,8-36	1/4	2-1/2	3/4	21/32	1-7/16	51331
3,5 mm	0.1378	M4 X 0,5	6mm	62mm	20mm	17mm	36mm	63159
28	0.1405	8-40	1/4	2-1/2	3/4	21/32	1-7/16	51760
9/64	0.1406		1/4	2-1/2	3/4	21/32	1-7/16	51332
3,6 mm	0.1417	M4 X 0,35	6mm	62mm	20mm	17mm	36mm	63160
27	0.1440		1/4	2-1/2	3/4	21/32	1-7/16	51761
3,7 mm	0.1457	M4.5 X 0,75	6mm	62mm	20mm	17mm	36mm	63161
26	0.1470	3/16-24	1/4	2-1/2	3/4	21/32	1-7/16	51762
25	0.1495	10-24	1/4	2-5/8	7/8	23/32	1-7/16	51333
3,8 mm	0.1496		6mm	66mm	24mm	21mm	36mm	63472
24	0.1520	10-28	1/4	2-5/8	7/8	23/32	1-7/16	51763
3,9 mm	0.1535		6mm	66mm	24mm	21mm	36mm	63743
23	0.1540		1/4	2-5/8	7/8	23/32	1-7/16	51764
5/32	0.1562		1/4	2-5/8	7/8	23/32	1-7/16	51334
22	0.1570	10-30	1/4	2-5/8	7/8	23/32	1-7/16	51765

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Tolerances (inch)			Tolerances (mm)		
Diameter	d <sub>1</sub>	d <sub>2</sub>	Diameter	d <sub>1</sub>	d <sub>2</sub>
≤ 3/4	+0.001/+0.0005	h6	≤ 3	+0,0025/+0,0127	h6
> 3/4 – 1/4	+0.002/+0.0006	h6	> 3 – 6	+0,0050/+0,0152	h6
> 1/4 – 3/8	+0.002/+0.0008	h6	> 6 – 10	+0,0050/+0,0200	h6
> 3/8 – 3/4	+0.003/+0.0011	h6	> 10 – 18	+0,0076/+0,0254	h6
> 3/4 – 1	+0.003/+0.0011	h6	> 18 – 30	+0,0076/+0,0279	h6

Cutting Diameter d <sub>1</sub>	Decimal Equivalent	Tap Size Reference Only	Shank Diameter d <sub>2</sub>	Overall Length l <sub>1</sub>	Flute Length l <sub>2</sub>	Min.Cleared Length l <sub>3</sub>	Shank Length l <sub>4</sub>	Ti-NAMITE-A (AITiN) EDP No.
4,0 mm	0.1575	M4,5 X 0,5	6mm	66mm	24mm	21mm	36mm	63162
21	0.1590	10-32	1/4	2-5/8	7/8	23/32	1-7/16	51335
20	0.1610	13/64-24	1/4	2-5/8	7/8	23/32	1-7/16	51279
4,1 mm	0.1614		6mm	66mm	24mm	21mm	36mm	63744
4,2 mm	0.1654	M5 / M5 X 0,75	6mm	66mm	24mm	21mm	36mm	63163
19	0.1660		1/4	2-5/8	7/8	23/32	1-7/16	51766
4,3 mm	0.1693		6mm	66mm	24mm	21mm	36mm	63164
18	0.1695		1/4	2-5/8	7/8	23/32	1-7/16	51767
11/64	0.1719		1/4	2-5/8	7/8	23/32	1-7/16	51336
17	0.1730		1/4	2-5/8	7/8	23/32	1-7/16	51768
4,4 mm	0.1732		6mm	66mm	24mm	21mm	36mm	63745
16	0.1770	12-24	1/4	2-5/8	7/8	23/32	1-7/16	51769
4,5 mm	0.1772	M5 X 0,5	6mm	66mm	24mm	21mm	36mm	63165
15	0.1800		1/4	2-5/8	7/8	23/32	1-7/16	51770
4,6 mm	0.1811	12-28	6mm	66mm	24mm	21mm	36mm	63166
14	0.1820		1/4	2-5/8	7/8	23/32	1-7/16	51771
13	0.1850	12-32	1/4	2-5/8	7/8	23/32	1-7/16	51772
4,7 mm	0.1850		6mm	66mm	24mm	21mm	36mm	63746
3/16	0.1875		1/4	2-5/8	1	53/64	1-7/16	51337
12	0.1890	7/32-32	1/4	2-5/8	1	53/64	1-7/16	51773
4,8 mm	0.1890		6mm	66mm	28mm	24mm	36mm	63167
11	0.1910		1/4	2-5/8	1	53/64	1-7/16	51774
4,9 mm	0.1929		6mm	66mm	28mm	24mm	36mm	63747
10	0.1935	14-20	1/4	2-5/8	1	53/64	1-7/16	51775
9	0.1960		1/4	2-5/8	1	53/64	1-7/16	51776
5,0 mm	0.1969	M6 X 1	6mm	66mm	28mm	24mm	36mm	63168
8	0.1990		1/4	2-5/8	1	53/64	1-7/16	51777
5,1 mm	0.2008		6mm	66mm	28mm	24mm	36mm	63748
7	0.2010	1/4-20	1/4	2-5/8	1	53/64	1-7/16	51338
13/64	0.2031		1/4	2-5/8	1	53/64	1-7/16	51339
6	0.2040		1/4	2-5/8	1	53/64	1-7/16	51778
5,2 mm	0.2047	M6 X 0,75	6mm	66mm	28mm	24mm	36mm	63749
5	0.2055		1/4	2-5/8	1	53/64	1-7/16	51779
5,25 mm	0.2067		6mm	66mm	28mm	24mm	36mm	63169
5,3 mm	0.2087		6mm	66mm	28mm	24mm	36mm	63170
4	0.2090	1/4-24	1/4	2-5/8	1	53/64	1-7/16	51780
5,4 mm	0.2126		6mm	66mm	28mm	24mm	36mm	63750

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**Series 135 3xD**



Hi-PerCarb High Performance  
Double Margin Drills for depths  
up to 3xD

**Serie 135 3xD**



Brocas Hi-PerCarb de alto  
rendimiento de doble margen  
para profundidades de hasta  
3xD

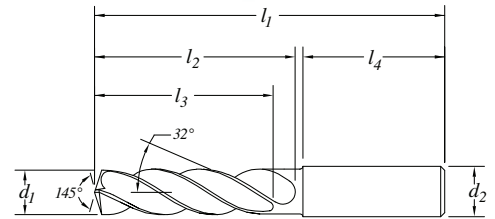
**Série 135 3xD**



Forets double marge haute  
performance Hi-PerCarb pour  
profondeurs jusqu'à 3xD

Hi-PerCarb Drills for Depths up to 3xD

Series **135 3xD**



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	0.2130	1/4-28	1/4	2-5/8	1	53/64	1-7/16	51340
5,5 mm	0.2165	M6 X 0,5	6mm	66mm	28mm	24mm	36mm	63171
7/32	0.2188	1/4-32	1/4	2-5/8	1	53/64	1-7/16	51341
5,6 mm	0.2205		6mm	66mm	28mm	24mm	36mm	63751
2	0.2210		1/4	2-5/8	1	53/64	1-7/16	51781
5,7 mm	0.2244		6mm	66mm	28mm	24mm	36mm	63752
1	0.2280		1/4	2-5/8	1	53/64	1-7/16	51782
5,8 mm	0.2283		6mm	66mm	28mm	24mm	36mm	63172
5,9 mm	0.2323		6mm	66mm	28mm	24mm	36mm	63753
A	0.2340		1/4	2-5/8	1	53/64	1-7/16	51601
15/64	0.2344		1/4	2-5/8	1	53/64	1-7/16	51342
6,0	0.2362	M7 X 1	6mm	66mm	28mm	24mm	36mm	63173
B	0.2380		1/4	3-1/8	1-5/16	1-3/64	1-7/16	51602
6,1 mm	0.2402		8mm	79mm	34mm	28mm	36mm	63754
C	0.2420		1/4	3-1/8	1-5/16	1-3/64	1-7/16	51603
6,2 mm	0.2441		8mm	79mm	34mm	28mm	36mm	63755
D	0.2460		1/4	3-1/8	1-5/16	1-3/64	1-7/16	51604
6,25 mm	0.2461	M7 X 0,75	8mm	79mm	34mm	28mm	36mm	63174
6,3 mm	0.2480		8mm	79mm	34mm	28mm	36mm	63756
1/4	0.2500		1/4	3-1/8	1-5/16	1-3/64	1-7/16	51343
E	0.2500		1/4	3-1/8	1-5/16	1-3/64	1-7/16	51605
6,4 mm	0.2520		8mm	79mm	34mm	28mm	36mm	63175
6,5 mm	0.2559		8mm	79mm	34mm	28mm	36mm	63213
F	0.2570	5/16-18	5/16	3-1/8	1-5/16	1-3/64	1-7/16	51344
6,6 mm	0.2598		8mm	79mm	34mm	28mm	36mm	63757
G	0.2610		5/16	3-1/8	1-5/16	1-3/64	1-7/16	51606
6,7 mm	0.2638		8mm	79mm	34mm	28mm	36mm	63758
17/64	0.2656	5/16-20	5/16	3-1/8	1-5/16	1-3/64	1-7/16	51345
H	0.2660		5/16	3-1/8	1-5/16	1-3/64	1-7/16	51607
6,8 mm	0.2677	M8 X 1,25	8mm	79mm	34mm	28mm	36mm	63176
6,9 mm	0.2717		8mm	79mm	34mm	28mm	36mm	63759
I	0.2720	5/16-24	5/16	3-1/8	1-5/16	1-3/64	1-7/16	51346
7,0 mm	0.2756	M8 X 1	8mm	79mm	34mm	28mm	36mm	63177
J	0.2770		5/16	3-1/8	1-5/16	1-3/64	1-7/16	51608
7,1 mm	0.2795		8mm	79mm	41mm	34mm	36mm	63760
K	0.2810		5/16	3-1/8	1-9/16	1-3/16	1-7/16	51609
9/32	0.2812	5/16-32	5/16	3-1/8	1-9/16	1-3/16	1-7/16	51347
7,2 mm	0.2835		8mm	79mm	41mm	34mm	36mm	63761
7,25 mm	0.2854	M8 X 0,75	8mm	79mm	41mm	34mm	36mm	63178
7,3 mm	0.2874		8mm	79mm	41mm	34mm	36mm	63762

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Tolerances (inch)

Diameter	d <sub>1</sub>	d <sub>2</sub>
≤ 3/4	+0.001/+0.0005	h6
> 3/4 – 1/4	+0.002/+0.0006	h6
> 1/4 – 3/8	+0.002/+0.0008	h6
> 3/8 – 3/4	+0.003/+0.0011	h6
> 3/4 – 1	+0.003/+0.0011	h6

Cutting Diameter	Decimal Equivalent	Tap Size Reference Only	Shank Diameter	Overall Length	Flute Length	Min.Cleared Length	Shank Length	Ti-NAMITE-A (AITiN) EDP No.
d <sub>1</sub>			d <sub>2</sub>	l <sub>1</sub>	l <sub>2</sub>	l <sub>3</sub>	l <sub>4</sub>	
L	0.2900		5/16	3-1/8	1-9/16	1-3/16	1-7/16	51610
7,4 mm	0.2913		8mm	79mm	41mm	34mm	36mm	63763
M	0.2950		5/16	3-1/8	1-9/16	1-3/16	1-7/16	51611
7,5 mm	0.2953	M8 X 0,5	8mm	79mm	41mm	34mm	36mm	63179
19/64	0.2969		5/16	3-1/8	1-9/16	1-3/16	1-7/16	51348
7,6 mm	0.2992		8mm	79mm	41mm	34mm	36mm	63764
N	0.3020		5/16	3-1/8	1-9/16	1-3/16	1-7/16	51612
7,7 mm	0.3031		8mm	79mm	41mm	34mm	36mm	63765
7,8 mm	0.3071	M9 X 1,25	8mm	79mm	41mm	34mm	36mm	63180
7,9 mm	0.3110		8mm	79mm	41mm	34mm	36mm	63766
5/16	0.3125	3/8-16	5/16	3-1/8	1-9/16	1-3/16	1-7/16	51349
8,0 mm	0.3150	M9 x 1	8mm	79mm	41mm	34mm	36mm	63181
O	0.3160		3/8	3-1/2	1-27/32	1-37/64	1-9/16	51613
8,1 mm	0.3189		10mm	89mm	47mm	40mm	40mm	63767
8,2 mm	0.3228		10mm	89mm	47mm	40mm	40mm	63768
P	0.3230		3/8	3-1/2	1-27/32	1-37/64	1-9/16	51614
8,3 mm	0.3268		10mm	89mm	47mm	40mm	40mm	63769
21/64	0.3281	3/8-20	3/8	3-1/2	1-27/32	1-37/64	1-9/16	51350
8,4 mm	0.3307		10mm	89mm	47mm	40mm	40mm	63182
Q	0.3320	3/8-24	3/8	3-1/2	1-27/32	1-37/64	1-9/16	51351
8,5 mm	0.3346	M10 X 1,5	10mm	89mm	47mm	40mm	40mm	63183
8,6 mm	0.3386		10mm	89mm	47mm	40mm	40mm	63770
R	0.3390		3/8	3-1/2	1-27/32	1-37/64	1-9/16	51615
8,7 mm	0.3425		10mm	89mm	47mm	40mm	40mm	63771
11/32	0.3438	3/8-32	3/8	3-1/2	1-27/32	1-37/64	1-9/16	51352
8,8 mm	0.3465	M10 X 1,25	10mm	89mm	47mm	40mm	40mm	63184
S	0.3480		3/8	3-1/2	1-27/32	1-37/64	1-9/16	51616
8,9 mm	0.3504		10mm	89mm	47mm	40mm	40mm	63772
9,0 mm	0.3543	M10 X 1	10mm	89mm	47mm	40mm	40mm	63185
T	0.3580		3/8	3-1/2	1-27/32	1-37/64	1-9/16	51617
9,1 mm	0.3583		10mm	89mm	47mm	40mm	40mm	63773
23/64	0.3594		3/8	3-1/2	1-27/32	1-37/64	1-9/16	51353
9,2 mm	0.3622	M10 X 0,75	10mm	89mm	47mm	40mm	40mm	63774
9,25 mm	0.3642		10mm	89mm	47mm	40mm	40mm	63186
9,3 mm	0.3661		10mm	89mm	47mm	40mm	40mm	63775
U	0.3680	7/16-14	3/8	3-1/2	1-27/32	1-37/64	1-9/16	51354
9,4 mm	0.3701		10mm	89mm	47mm	40mm	40mm	63776
9,5 mm	0.3740	M10 X 0,5	10mm	89mm	47mm	40mm	40mm	63187
3/8	0.3750		3/8	3-1/2	1-27/32	1-37/64	1-9/16	51355

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### Series 135 3xD



Hi-PerCarb High Performance  
Double Margin Drills for depths  
up to 3xD

### Serie 135 3xD



Brocas Hi-PerCarb de alto  
rendimiento de doble margen  
para profundidades de hasta  
3xD

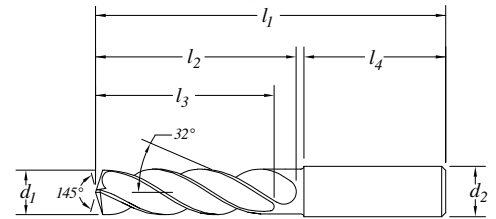
### Série 135 3xD



Forets double marge haute  
performance Hi-PerCarb pour  
profondeurs jusqu'à 3xD

## Hi-PerCarb Drills for Depths up to 3xD

Series **135 3xD**



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.
V	0.3770		1/2	3-1/2	1-27/32	1-37/64	1-9/16	51618
9,6 mm	0.3780		10mm	89mm	47mm	40mm	40mm	63777
9,7 mm	0.3819		10mm	89mm	47mm	40mm	40mm	63778
9,8 mm	0.3858		10mm	89mm	47mm	40mm	40mm	63779
W	0.3860		1/2	3-1/2	1-27/32	1-37/64	1-9/16	51619
9,9 mm	0.3898		10mm	89mm	47mm	40mm	40mm	63780
25/64	0.3906	7/16-20	1/2	3-1/2	1-27/32	1-37/64	1-9/16	51356
10,0 mm	0.3937		10mm	89mm	47mm	40mm	40mm	63188
X	0.3970	7/16-24	1/2	4-1/16	2-3/16	1-51/64	1-49/64	51620
10,1 mm	0.3976		12mm	102mm	55mm	45mm	45mm	63781
10,2 mm	0.4016	M12 X 1,75	12mm	102mm	55mm	45mm	45mm	63189
Y	0.4040	7/16-28	1/2	4-1/16	2-3/16	1-51/64	1-49/64	51621
10,3 mm	0.4055		12mm	102mm	55mm	45mm	45mm	63782
13/32	0.4062		1/2	4-1/16	2-3/16	1-51/64	1-49/64	51357
10,4 mm	0.4094		12mm	102mm	55mm	45mm	45mm	63783
Z	0.4130		1/2	4-1/16	2-3/16	1-51/64	1-49/64	51622
10,5 mm	0.4134	M12 X 1,5	12mm	102mm	55mm	45mm	45mm	63190
10,6 mm	0.4173		12mm	102mm	55mm	45mm	45mm	63784
10,7 mm	0.4213		12mm	102mm	55mm	45mm	45mm	63785
27/64	0.4219	1/2-13	1/2	4-1/16	2-3/16	1-51/64	1-49/64	51358
10,8 mm	0.4252	M12 X 1,25	12mm	102mm	55mm	45mm	45mm	63191
10,9 mm	0.4291		12mm	102mm	55mm	45mm	45mm	63786
11,0 mm	0.4331	M12 X 1	12mm	102mm	55mm	45mm	45mm	63192
11,1 mm	0.4370		12mm	102mm	55mm	45mm	45mm	63787
7/16	0.4375	1/4-18 NPT	1/2	4-1/16	2-3/16	1-51/64	1-49/64	51359
11,2 mm	0.4409		12mm	102mm	55mm	45mm	45mm	63788
11,25 mm	0.4429		12mm	102mm	55mm	45mm	45mm	63193
11,3 mm	0.4449		12mm	102mm	55mm	45mm	45mm	63789
11,4 mm	0.4488		12mm	102mm	55mm	45mm	45mm	63790
11,5 mm	0.4528	M12 X 0,5	12mm	102mm	55mm	45mm	45mm	63194
29/64	0.4531	1/2-20	1/2	4-1/16	2-3/16	1-51/64	1-49/64	51360
11,6 mm	0.4567		12mm	102mm	55mm	45mm	45mm	63791
11,7 mm	0.4606		12mm	102mm	55mm	45mm	45mm	63792
11,8 mm	0.4646		12mm	102mm	55mm	45mm	45mm	63793
11,9 mm	0.4685		12mm	102mm	55mm	45mm	45mm	63794
15/32	0.4688	1/2-28	1/2	4-1/16	2-3/16	1-51/64	1-49/64	51361
12,0 mm	0.4724	M14 X 2	12mm	102mm	55mm	45mm	45mm	63195
31/64	0.4844	9/16-12	1/2	4-1/4	2-5/16	1-7/8	1-49/64	51362
12,5 mm	0.4921	M14 X 1,5	14mm	107mm	60mm	49mm	45mm	63196

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Tolerances (inch)			Tolerances (mm)		
Diameter	d <sub>1</sub>	d <sub>2</sub>	Diameter	d <sub>1</sub>	d <sub>2</sub>
≤ 3/4	+0.001/+0.0005	h6	≤ 3	+0,0025/+0,0127	h6
> 3/4 – 1/4	+0.002/+0.0006	h6	> 3 – 6	+0,0050/+0,0152	h6
> 1/4 – 3/8	+0.002/+0.0008	h6	> 6 – 10	+0,0050/+0,0200	h6
> 3/8 – 3/4	+0.003/+0.0011	h6	> 10 – 18	+0,0076/+0,0254	h6
> 3/4 – 1	+0.003/+0.0011	h6	> 18 – 30	+0,0076/+0,0279	h6

Cutting Diameter d <sub>1</sub>	Decimal Equivalent	Tap Size Reference Only	Shank Diameter d <sub>2</sub>	Overall Length l <sub>1</sub>	Flute Length l <sub>2</sub>	Min.Cleared Length l <sub>3</sub>	Shank Length l <sub>4</sub>	Ti-NAMITE-A (AITiN) EDP No.
1/2	0.5000		1/2	4-1/4	2-5/16	1-7/8	1-49/64	51363
12,8 mm	0.5039	M14 X 1,25	14mm	107mm	60mm	49mm	45mm	63197
13,0 mm	0.5118	M14 X 1	14mm	107mm	60mm	49mm	45mm	63198
33/64	0.5156	9/16-18	5/8	4-1/4	2-5/16	1-7/8	1-49/64	51364
17/32	0.5312	5/8-11	5/8	4-1/4	2-5/16	1-7/8	1-49/64	51365
13,5 mm	0.5315		14mm	107mm	60mm	49mm	45mm	63199
35/64	0.5469	5/8-12	5/8	4-1/4	2-5/16	1-7/8	1-49/64	51783
14,0 mm	0.5512	M16 X 2	14mm	107mm	60mm	49mm	45mm	63200
9/16	0.5625		5/8	4-9/16	2-1/2	2	1-57/64	51366
14,5 mm	0.5709	M16 X 1,5	16mm	115mm	65mm	51mm	48mm	63201
37/64	0.5781	5/8-18	5/8	4-9/16	2-1/2	2	1-57/64	51367
15,0 mm	0.5906	M16 X 1	16mm	115mm	65mm	51mm	48mm	63202
19/32	0.5938	11/16-11	5/8	4-9/16	2-1/2	2	1-57/64	51784
39/64	0.6094	11/16-12	5/8	4-9/16	2-1/2	2	1-57/64	51785
15,5 mm	0.6102	M18 X 2,5	16mm	115mm	65mm	51mm	48mm	63203
5/8	0.6250	11/16-16	5/8	4-9/16	2-1/2	2	1-57/64	51368
16,0 mm	0.6299		16mm	115mm	65mm	51mm	48mm	63204
41/64	0.6406	11/16-24	3/4	4-7/8	2-3/4	2-5/16	1-57/64	51786
16,5 mm	0.6496	M18 X 1,5	18mm	123mm	73mm	58mm	48mm	63205
21/32	0.6562	3/4-10	3/4	4-7/8	2-3/4	2-5/16	1-57/64	51369
17,0 mm	0.6693		18mm	123mm	73mm	58mm	48mm	63206
43/64	0.6719	3/4-12	3/4	4-7/8	2-3/4	2-5/16	1-57/64	51787
11/16	0.6875	3/4-16	3/4	4-7/8	2-3/4	2-5/16	1-57/64	51370
17,5 mm	0.6890	M20 X 2,5	18mm	123mm	73mm	58mm	48mm	63207
45/64	0.7031	3/4-20, 1/2-14	3/4	4-7/8	2-3/4	2-5/16	1-57/64	51788
18,0 mm	0.7087		18mm	123mm	73mm	58mm	48mm	63208
23/32	0.7188		3/4	4-7/8	2-3/4	2-5/16	1-57/64	51789
18,5 mm	0.7283	M20 X 1,5	20mm	131mm	79mm	63mm	50mm	63209
47/64	0.7344	13/16-12	3/4	4-7/8	2-3/4	2-5/16	1-57/64	51790
19,0 mm	0.7480		20mm	131mm	79mm	63mm	50mm	63210
3/4	0.7500	13/16-16	3/4	5-1/4	3-1/16	2-7/16	1-31/32	51371
49/64	0.7656	7/8-9	7/8	5-1/4	3-1/16	2-7/16	1-31/32	51372
19,5 mm	0.7677	M22 X 2,5	20mm	131mm	79mm	63mm	50mm	63211
25/32	0.7812		7/8	6	3-11/16	2-11/16	2-1/8	51791
20,0 mm	0.7874		20mm	131mm	79mm	63mm	50mm	63212
51/64	0.7969	7/8-12	7/8	6	3-11/16	2-11/16	2-1/8	51792
13/16	0.8125	7/8-14	7/8	6	3-11/16	2-11/16	2-1/8	51373
7/8	0.8750	15/16-16, 1-8	7/8	6	3-11/16	2-11/16	2-1/8	51374
59/64	0.9219	1-12	1	6	3-11/16	2-11/16	2-1/8	51375

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Double Margin Drills for depths  
up to 5xD

### Serie 135 5xD



Brocas Hi-PerCarb de alto  
rendimiento de doble margen  
para profundidades de hasta  
5xD

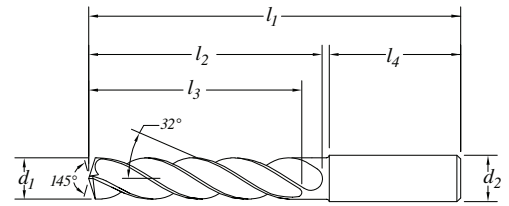
### Série 135 5xD



Forets double marge haute  
performance Hi-PerCarb pour  
profondeurs jusqu'à 5xD

## Hi-PerCarb Drills for Depths up to 5xD

Series **135 5xD**



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.
1/8	0.1250		1/4	3	1	53/64	1-15/16	51580
30	0.1285		1/4	3	1	53/64	1-15/16	51581
29	0.1360	8-32,8-36	1/4	3	1	53/64	1-15/16	51582
9/64	0.1406		1/4	3	1	53/64	1-15/16	51583
25	0.1495	10-24	1/4	3-1/4	1-1/4	1-5/64	1-15/16	51584
5/32	0.1562		1/4	3-1/4	1-1/4	1-5/64	1-15/16	51585
21	0.1590	10-32	1/4	3-1/4	1-1/4	1-5/64	1-15/16	51586
20	0.1610	13/64-24	1/4	3-1/4	1-1/4	1-5/64	1-15/16	51587
11/64	0.1719		1/4	3-1/4	1-1/4	1-5/64	1-15/16	51588
3/16	0.1875		1/4	3-1/4	1-3/4	1-37/64	1-7/16	51589
7	0.2010	1/4-20	1/4	3-1/4	1-3/4	1-37/64	1-7/16	51506
13/64	0.2031		1/4	3-1/4	1-3/4	1-37/64	1-7/16	51507
5	0.2055		1/4	3-1/4	1-3/4	1-37/64	1-7/16	51590
4	0.2090	1/4-24	1/4	3-1/4	1-3/4	1-37/64	1-7/16	51508
3	0.2130	1/4-28	1/4	3-1/4	1-3/4	1-37/64	1-7/16	51509
7/32	0.2188	1/4-32	1/4	3-1/4	1-3/4	1-37/64	1-7/16	51510
15/64	0.2344		1/4	3-1/4	1-3/4	1-37/64	1-7/16	51591
1/4	0.2500		1/4	3-5/8	2-5/64	1-51/64	1-7/16	51511
F	0.2570	5/16-18	5/16	3-5/8	2-5/64	1-51/64	1-7/16	51512
17/64	0.2656	5/16-20	5/16	3-5/8	2-5/64	1-51/64	1-7/16	51513
I	0.2720	5/16-24	5/16	3-5/8	2-5/64	1-51/64	1-7/16	51514
9/32	0.2812	5/16-32	5/16	3-5/8	2-5/64	1-51/64	1-7/16	51515
19/64	0.2969		5/16	3-5/8	2-5/64	1-51/64	1-7/16	51516
5/16	0.3125	3/8-16	5/16	3-5/8	2-5/64	1-51/64	1-7/16	51517
P	0.3230		3/8	4	2-13/32	2-1/8	1-9/16	51518
21/64	0.3281	3/8-20	3/8	4	2-13/32	2-1/8	1-9/16	51519
Q	0.3320	3/8-24	3/8	4	2-13/32	2-1/8	1-9/16	51520
11/32	0.3438	3/8-32	3/8	4	2-13/32	2-1/8	1-9/16	51521
S	0.3480		3/8	4	2-13/32	2-1/8	1-9/16	51522
23/64	0.3594		3/8	4	2-13/32	2-1/8	1-9/16	51523

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# Series 135 5xD

## Hi-PerCarb Drills for Depths up to 5xD

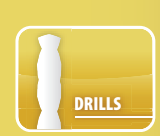
### Tolerances (inch)

Diameter	d <sub>1</sub>	d <sub>2</sub>
≤ 3/4	+0.001/+0.0005	h6
> 3/4 – 1/4	+0.002/+0.0006	h6
> 1/4 – 3/8	+0.002/+0.0008	h6
> 3/8 – 3/4	+0.003/+0.0011	h6

Cutting Diameter d <sub>1</sub>	Decimal Equivalent	Tap Size Reference Only	Shank Diameter d <sub>2</sub>	Overall Length l <sub>1</sub>	Flute Length l <sub>2</sub>	Min.Cleared Length l <sub>3</sub>	Shank Length l <sub>4</sub>	Ti-NAMITE-A (AITiN) EDP No.
U	0.3680	7/16-14	3/8	4	2-13/32	2-1/8	1-9/16	51524
3/8	0.3750		3/8	4	2-13/32	2-1/8	1-9/16	51525
W	0.3860		1/2	4	2-13/32	2-1/8	1-9/16	51526
25/64	0.3906	7/16-20	1/2	4	2-13/32	2-1/8	1-9/16	51527
13/32	0.4062		1/2	4-11/16	2-3/4	2-23/64	1-49/64	51528
27/64	0.4219	1/2-13	1/2	4-11/16	2-3/4	2-23/64	1-49/64	51529
7/16	0.4375	1/4-18 NPT	1/2	4-11/16	2-3/4	2-23/64	1-49/64	51530
29/64	0.4531	1/2-20	1/2	4-11/16	2-3/4	2-23/64	1-49/64	51531
15/32	0.4688	1/2-28	1/2	4-11/16	2-3/4	2-23/64	1-49/64	51532
31/64	0.4844	9/16-12	1/2	4-7/8	3-1/32	2-19/32	1-49/64	51533
1/2	0.5000		1/2	4-7/8	3-1/32	2-19/32	1-49/64	51534
33/64	0.5156	9/16-18	5/8	4-7/8	3-1/32	2-19/32	1-49/64	51535
17/32	0.5312	5/8-11	5/8	4-7/8	3-1/32	2-19/32	1-49/64	51536
35/64	0.5469	5/8-12	5/8	4-7/8	3-1/32	2-19/32	1-49/64	51537
9/16	0.5625		5/8	5-1/4	3-1/4	2-3/4	1-57/64	51538
37/64	0.5781	5/8-18	5/8	5-1/4	3-1/4	2-3/4	1-57/64	51539
19/32	0.5938	11/16-11	5/8	5-1/4	3-1/4	2-3/4	1-57/64	51592
39/64	0.6094	11/16-12	5/8	5-1/4	3-1/4	2-3/4	1-57/64	51593
5/8	0.6250	11/16-16	5/8	5-1/4	3-1/4	2-3/4	1-57/64	51540
41/64	0.6406	11/16-24	3/4	5-5/8	3-5/8	3-3/16	1-57/64	51594
21/32	0.6562	3/4-10	3/4	5-5/8	3-5/8	3-3/16	1-57/64	51541
43/64	0.6719	3/4-12	3/4	5-5/8	3-5/8	3-3/16	1-57/64	51595
11/16	0.6875	3/4-16	3/4	5-5/8	3-5/8	3-3/16	1-57/64	51542
45/64	0.7031	3/4-20, 1/2-14 NPT	3/4	5-5/8	3-5/8	3-3/16	1-57/64	51543
23/32	0.7188		3/4	6	4	3-3/8	1-31/32	51596
47/64	0.7344	13/16-12	3/4	6	4	3-3/8	1-31/32	51544
3/4	0.7500	13/16-16	3/4	6	4	3-3/8	1-31/32	51545



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## ICe-Carb Internal Coolant Drills for Depths up to 8XD

### *Features & Benefits:*

- Drilling depths up to 8xD: Eliminates the need for pecking in most applications
- Internal coolant for achieving higher cutting parameters and greater chip control
- 140 degree self-centering point angle
- Unique geometry features that enhance coolant flow and chip removal
- Corner protection added for increased tool life
- Ti-NAMITE-A (AlTiN) coated for higher thermal stability and greater wear resistance in deep hole drilling
- Excellent results in Stainless Steel, Alloyed Steel, Cast Iron, Low Carbon Steel, Tool Steel, Inconel, Titanium





## Brocas I Ce-Carb con refrigerante interno para profundidades de hasta 8XD

### *Características y ventajas:*

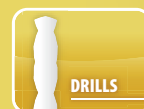
- Profundidades de perforación de hasta 8xD: Eliminan la necesidad de ciclos de perforación y retroceso (pecking) en la mayoría de las aplicaciones
- Refrigerante interno para lograr mejores parámetros de corte y mayor control de las virutas
- Punta autocentrada con un ángulo de 140 grados
- Características geométricas únicas que mejoran el flujo del refrigerante y el arranque de viruta
- Agregado de protección de esquinas para prolongar la vida útil de la herramienta
- Recubiertas con Ti-NAMITE-A (AlTiN) para lograr mayor estabilidad térmica y mayor resistencia al desgaste en la perforación de agujeros profundos
- Excelentes resultados en acero inoxidable, aceros aleados, hierro fundido, acero con bajo contenido de carbono, acero para herramientas, Inconel y titanio

## Forets I Ce-Carb à refroidissement interne pour profondeurs jusqu'à 8XD

### *Caractéristiques et avantages :*

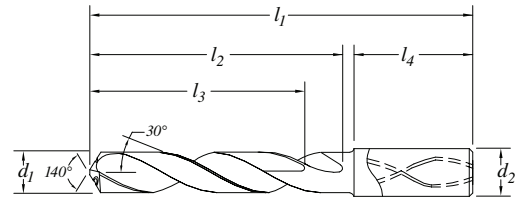
- Profondeurs de perforation jusqu'à 8xD (élimine la nécessité du picotage dans la plupart des applications)
- Refroidissement interne permettant d'avoir de meilleurs paramètres de découpage et un meilleur contrôle des copeaux
- Angle au sommet de 140 degrés avec auto-centrage
- Géométrie unique avec écoulement amélioré du liquide de refroidissement et enlèvement plus efficace des copeaux
- Protection de coin ajoutée pour augmenter la longévité des outils
- Revêtement Ti-NAMITE-A (AlTiN) pour une stabilité thermique accrue et une meilleure résistance à l'usure lors des perforations profondes
- Excellents résultats sur l'acier inoxydable, les alliages d'acier, la fonte, l'acier à faible teneur en carbone, l'acier d'outillage, l'Inconel et le titane

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## ICe-Carb Internal Coolant Drills for Depths up to 5xD

Series **140 5xD**



### Series 140 5xD



ICe-Carb Internal Coolant Drills for  
Depths up to 5xD

### Serie 140 5xD



Brocas ICe-Carb con refrigerante  
interno para profundidades de hasta  
5xD

### Série 140 5xD



Forets ICe-Carb à refroidissement  
interne pour profondeurs jusqu'à  
5xD

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	Shank Length $l_4$ mm	Ti-NAMITE-A (AlTiN) EDP No.
3,0 mm	0.1181		6	66	28	23	36	63901
3,1 mm	0.1220		6	66	28	23	36	63902
1/8	0.1250		6	66	28	23	36	51901
3,2 mm	0.1260	M3,5 X 0,35	6	66	28	23	36	63903
3,3 mm	0.1299	M4 X 0,7	6	66	28	23	36	63904
3,4 mm	0.1339		6	66	28	23	36	63905
29	0.1360	8-32,8-36	6	66	28	23	36	51902
3,5 mm	0.1378	M4 X 0,5	6	66	28	23	36	63906
9/64	0.1406		6	66	28	23	36	51903
3,6 mm	0.1417	M4 X 0,35	6	66	28	23	36	63907
3,7 mm	0.1457	M4,5 X 0,75	6	66	28	23	36	63908
3,8 mm	0.1496	10-24	6	74	36	29	36	51904
3,9 mm	0.1535		6	74	36	29	36	63909
5/32	0.1562		6	74	36	29	36	51905
4,0 mm	0.1575	M4,5 X 0,5	6	74	36	29	36	63910
21	0.1590	10-32	6	74	36	29	36	51906
4,1 mm	0.1614		6	74	36	29	36	63911
4,2 mm	0.1654	M5 / M5 x 0,75	6	74	36	29	36	63912
4,3 mm	0.1693		6	74	36	29	36	63913
11/64	0.1719		6	74	36	29	36	51907
4,4 mm	0.1732	12-24	6	74	36	29	36	63914
4,5 mm	0.1772	M5 X 0,5	6	74	36	29	36	63915
4,6 mm	0.1811	12-28	6	74	36	29	36	63916
4,7 mm	0.1850	12-32	6	74	36	29	36	63917
3/16	0.1875		6	82	44	35	36	51908
4,8 mm	0.1890	7/32-32	6	82	44	35	36	63918
4,9 mm	0.1929		6	82	44	35	36	63919
5,0 mm	0.1969	M6 X 1	6	82	44	35	36	63920
5,1 mm	0.2008	1/4-20	6	82	44	35	36	63900
13/64	0.2031		6	82	44	35	36	51910
5,2 mm	0.2047	M6 X 0,75	6	82	44	35	36	63921
5,3 mm	0.2087		6	82	44	35	36	63922
5,4 mm	0.2126		6	82	44	35	36	63998
5,5 mm	0.2165	M6 X 0,5	6	82	44	35	36	63923
7/32	0.2188	1/4-32	6	82	44	35	36	51912
5,6 mm	0.2205		6	82	44	35	36	63924

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Series **140 5xD**

**ICe-Carb Internal Coolant Drills  
for Depths up to 5xD**



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Diameter	Tolerances (inch)	
	d <sub>1</sub>	d <sub>2</sub>
≥ 1/8 – 1/4	+0.002/+0.006	h6
> 1/4 – 3/8	+0.002/+0.008	h6
> 3/8 – 3/4	+0.003/+0.011	h6

Diameter	Tolerances (mm)	
	d <sub>1</sub>	d <sub>2</sub>
≤ 3	+0,0025/+0,0127	h6
> 3 – 6	+0,0050/+0,0152	h6
> 6 – 10	+0,0050/+0,0200	h6
> 10 – 18	+0,0076/+0,0254	h6
> 18 – 30	+0,0076/+0,0279	h6

Cutting Diameter d <sub>1</sub> mm	Decimal Equivalent	Tap Size Reference Only	Shank Diameter d <sub>2</sub> mm	Overall Length l <sub>1</sub> mm	Flute Length l <sub>2</sub> mm	Min. Cleared Length l <sub>3</sub> mm	Shank Length l <sub>4</sub> mm	Ti-NAMITE-A (AlTiN) EDP No.
5,8 mm	0.2283		6	82	44	35	36	63926
5,9 mm	0.2323		6	82	44	35	36	63927
15/64	0.2344		6	82	44	35	36	51913
6,0 mm	0.2362	M7 X 1	6	82	44	35	36	63928
6,1 mm	0.2402		8	91	53	43	36	63929
6,2 mm	0.2441	M7 X 0,75	8	91	53	43	36	63930
6,3 mm	0.2480		8	91	53	43	36	63931
1/4	0.2500		8	91	53	43	36	51914
6,4 mm	0.2520		8	91	53	43	36	63932
6,5 mm	0.2559		8	91	53	43	36	63933
F	0.2570	5/16-18	8	91	53	43	36	51915
6,6 mm	0.2598		8	91	53	43	36	63934
6,7 mm	0.2638		8	91	53	43	36	63935
17/64	0.2657	5/16-20	8	91	53	43	36	51916
6,8 mm	0.2677	M8 X 1,25	8	91	53	43	36	63936
6,9 mm	0.2717	5/16-24	8	91	53	43	36	63999
7,0 mm	0.2756	M8 X 1	8	91	53	43	36	63937
7,1 mm	0.2795		8	91	53	43	36	63938
9/32	0.2812	5/16-32	8	91	53	43	36	51918
7,2 mm	0.2835	M8 X 0,75	8	91	53	43	36	63939
7,3 mm	0.2874		8	91	53	43	36	63940
7,4 mm	0.2913		8	91	53	43	36	63941
7,5 mm	0.2953	M8 X 0,5	8	91	53	43	36	63942
19/64	0.2969		8	91	53	43	36	51919
7,6 mm	0.2992		8	91	53	43	36	63943
7,7 mm	0.3031		8	91	53	43	36	63944
7,8 mm	0.3071	M9 X 1,25	8	91	53	43	36	63945
7,9 mm	0.3110		8	91	53	43	36	63946
5/16	0.3125	3/8-16	8	91	53	43	36	51920
8,0 mm	0.3150	M9 X 1	8	91	53	43	36	63947
8,1 mm	0.3189		10	103	61	49	40	63948
8,2 mm	0.3228		10	103	61	49	40	63949
8,3 mm	0.3268		10	103	61	49	40	63950
21/64	0.3281	3/8-20	10	103	61	49	40	51921
8,4 mm	0.3307		10	103	61	49	40	63951

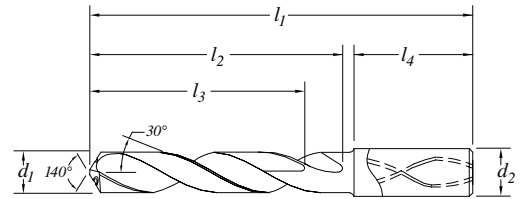
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## ICe-Carb Internal Coolant Drills for Depths up to 5xD

Series **140 5xD**



### Series 140 5xD



ICe-Carb Internal Coolant Drills for  
Depths up to 5xD

### Serie 140 5xD



Brocas ICe-Carb con refrigerante  
interno para profundidades de hasta  
5xD

### Série 140 5xD



Forets ICe-Carb à refroidissement  
interne pour profondeurs jusqu'à  
5xD

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	Shank Length $l_4$ mm	Ti-NAMITE-A (AlTiN) EDP No.
Q	0.3320	3/8-24	10	103	61	49	40	51922
8,5 mm	0.3346	M10 X 1,5	10	103	61	49	40	63952
8,6 mm	0.3386		10	103	61	49	40	63953
8,7 mm	0.3425		10	103	61	49	40	63954
11/32	0.3438	3/8-32	10	103	61	49	40	51923
8,8 mm	0.3465	M10 X 1,25	10	103	61	49	40	63955
8,9 mm	0.3504		10	103	61	49	40	63956
9,0 mm	0.3543	M10 X 1	10	103	61	49	40	63957
9,1 mm	0.3583		10	103	61	49	40	63958
23/64	0.3594		10	103	61	49	40	51924
9,2 mm	0.3622	M10 X 0,75	10	103	61	49	40	63959
9,3 mm	0.3661		10	103	61	49	40	63960
U	0.3680	7/16-14	10	103	61	49	40	51925
9,4 mm	0.3701		10	103	61	49	40	63961
9,5 mm	0.3740	M11 / M10 X 0,5	10	103	61	49	40	63962
3/8	0.3750		10	103	61	49	40	51926
9,6 mm	0.3780		10	103	61	49	40	63963
9,7 mm	0.3819		10	103	61	49	40	63964
9,8 mm	0.3858		10	103	61	49	40	63965
9,9 mm	0.3898		10	103	61	49	40	63966
25/64	0.3906	7/16-20	10	103	61	49	40	51927
10,0 mm	0.3937		10	103	61	49	40	63967
10,1 mm	0.3976		12	118	71	56	45	63968
10,2 mm	0.4016	M12 X 1,75	12	118	71	56	45	63969
10,3 mm	0.4055		12	118	71	56	45	63970
13/32	0.4062		12	118	71	56	45	51928
10,4 mm	0.4094		12	118	71	56	45	63971
10,5 mm	0.4134	M12 X 1,5	12	118	71	56	45	63972
10,6 mm	0.4173		12	118	71	56	45	63973
10,7 mm	0.4213		12	118	71	56	45	63974
27/64	0.4219	1/2-13	12	118	71	56	45	51929
10,8 mm	0.4252	M12 X 1,25	12	118	71	56	45	63975
10,9 mm	0.4291		12	118	71	56	45	63976

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# Series 140 5xD

## ICe-Carb Internal Coolant Drills for Depths up to 5xD



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Diameter	Tolerances (inch)	
	d <sub>1</sub>	d <sub>2</sub>
≥ 1/8 – 1/4	+0.002/+0.0006	h6
> 1/4 – 3/8	+0.002/+0.0008	h6
> 3/8 – 3/4	+0.003/+0.0011	h6

Diameter	Tolerances (mm)	
	d <sub>1</sub>	d <sub>2</sub>
≤ 3	+0,0025/+0,0127	h6
> 3 – 6	+0,0050/+0,0152	h6
> 6 – 10	+0,0050/+0,0200	h6
> 10 – 18	+0,0076/+0,0254	h6
> 18 – 30	+0,0076/+0,0279	h6

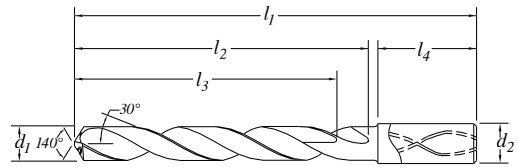
Cutting Diameter d <sub>1</sub> mm	Decimal Equivalent	Tap Size Reference Only	Shank Diameter d <sub>2</sub> mm	Overall Length l <sub>1</sub> mm	Flute Length l <sub>2</sub> mm	Min. Cleared Length l <sub>3</sub> mm	Shank Length l <sub>4</sub> mm	Ti-NAMITE-A (AlTiN) EDP No.
11,1 mm	0.4370		12	118	71	56	45	63978
7/16	0.4375	1/4-18NPT	12	118	71	56	45	51930
11,2 mm	0.4409		12	118	71	56	45	63979
11,3 mm	0.4449		12	118	71	56	45	63980
11,4 mm	0.4488		12	118	71	56	45	63981
11,5 mm	0.4528	M12 X 0,5	12	118	71	56	45	64000
11,6 mm	0.4567		12	118	71	56	45	63982
11,7 mm	0.4606		12	118	71	56	45	63983
11,8 mm	0.4646		12	118	71	56	45	63984
11,9 mm	0.4685		12	118	71	56	45	63985
15/32	0.4688	1/2-28	12	118	71	56	45	51932
12,0 mm	0.4724	M14 X 2	12	118	71	56	45	63986
31/64	0.4844	9/16-12	14	124	77	60	45	51933
12,5 mm	0.4921	M14 X 1,5	14	124	77	60	45	63987
1/2	0.5000		14	124	77	60	45	51934
12,8 mm	0.5039	M14 X 1,25	14	124	77	60	45	63988
13,0 mm	0.5118	M14 X 1	14	124	77	60	45	63989
33/64	0.5156	9/16-18	14	124	77	60	45	51935
13,5 mm	0.5315	5/8-11	14	124	77	60	45	64001
13,8 mm	0.5433		14	124	77	60	45	63990
14,0 mm	0.5512	M16 X 2	14	124	77	60	45	63991
9/16	0.5625		16	133	83	63	48	51937
14,5 mm	0.5709	M16 X 1,5	16	133	83	63	48	63992
37/64	0.5781	5/8-18	16	133	83	63	48	51938
14,8 mm	0.5827		16	133	83	63	48	63993
15,0 mm	0.5906	M16 X 1	16	133	83	63	48	63994
15,5 mm	0.6102	M18 X 2,5	16	133	83	63	48	63995
15,8 mm	0.6220		16	133	83	63	48	63996
5/8	0.6250	11/16-16	16	133	83	63	48	51939
16,0 mm	0.6299		16	133	83	63	48	63997
21/32	0.6562	3/4-10	18	143	93	71	48	51940
11/16	0.6875	3/4-16	18	143	93	71	48	51941
3/4	0.7500	13/16-16	20	153	101	77	50	51942

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## ICe-Carb Internal Coolant Drills for Depths up to 8xD

Series **140 8xD**



### Series 140 8xD



ICe-Carb Internal Coolant Drills for  
Depths up to 8xD

### Serie 140 8xD



Brocas ICe-Carb con refrigerante  
interno para profundidades de hasta  
8xD

### Série 140 8xD



Forets ICe-Carb à refroidissement  
interne pour profondeurs jusqu'à  
8xD

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	Shank Length $l_4$ mm	Ti-NAMITE-A (AlTiN) EDP No.
3,0 mm	0.1181		6	72	34	29	36	63575
3,1 mm	0.1220		6	72	34	29	36	63576
1/8	0.1250		6	72	34	29	36	51801
3,2 mm	0.1260	M3,5 X 0,35	6	72	34	29	36	63577
3,3 mm	0.1299	M4 X 0,7	6	72	34	29	36	63578
3,4 mm	0.1339		6	72	34	29	36	63579
29	0.1360	8-32,8-36	6	72	34	29	36	51802
3,5 mm	0.1378	M4 X 0,5	6	72	34	29	36	63580
9/64	0.1406		6	72	34	29	36	51803
3,6 mm	0.1417	M4 X 0,35	6	72	34	29	36	63581
3,7 mm	0.1457	M4,5 X 0,75	6	72	34	29	36	63582
3,8 mm	0.1496	10-24	6	81	43	36	36	63583
3,9 mm	0.1535		6	81	43	36	36	63584
5/32	0.1562		6	81	43	36	36	51804
4,0 mm	0.1575	M4,5 X 0,5	6	81	43	36	36	63585
21	0.1590	10-32	6	81	43	36	36	51805
4,1 mm	0.1614		6	81	43	36	36	63586
4,2 mm	0.1654	M5 / M5 X 0,75	6	81	43	36	36	63587
4,3 mm	0.1693		6	81	43	36	36	63588
11/64	0.1719		6	81	43	36	36	51806
4,4 mm	0.1732	12-24	6	81	43	36	36	63589
4,5 mm	0.1772	M5 X 0,5	6	81	43	36	36	63590
4,6 mm	0.1811	12-28	6	81	43	36	36	63591
4,7 mm	0.1850	12-32	6	81	43	36	36	63592
3/16	0.1875		6	95	57	48	36	51807
4,8 mm	0.1890	7/32-32	6	95	57	48	36	63593
4,9 mm	0.1929		6	95	57	48	36	63594
5,0 mm	0.1969	M6 X 1	6	95	57	48	36	63595
5,1 mm	0.2008	1/4-20	6	95	57	48	36	63596
13/64	0.2031		6	95	57	48	36	51808
5,2 mm	0.2047	M6 X 0,75	6	95	57	48	36	63597
5,3 mm	0.2087		6	95	57	48	36	63598
5,4 mm	0.2126		6	95	57	48	36	63599
5,5 mm	0.2165	M6 X 0,5	6	95	57	48	36	63600
7/32	0.2188	1/4-32	6	95	57	48	36	51809
5,6 mm	0.2205		6	95	57	48	36	63601

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Series **140 8xD**

**ICe-Carb Internal Coolant Drills  
for Depths up to 8xD**



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Diameter	Tolerances (inch)	
	d <sub>1</sub>	d <sub>2</sub>
≥ 1/8 – 1/4	+0.002/+0.006	h6
> 1/4 – 3/8	+0.002/+0.008	h6
> 3/8 – 3/4	+0.003/+0.011	h6

Diameter	Tolerances (mm)	
	d <sub>1</sub>	d <sub>2</sub>
≤ 3	+0,0025/+0,0127	h6
> 3 – 6	+0,0050/+0,0152	h6
> 6 – 10	+0,0050/+0,0200	h6
> 10 – 18	+0,0076/+0,0254	h6
> 18 – 30	+0,0076/+0,0279	h6

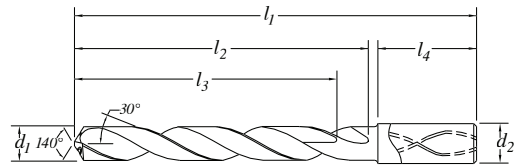
Cutting Diameter d <sub>1</sub> mm	Decimal Equivalent	Tap Size Reference Only	Shank Diameter d <sub>2</sub> mm	Overall Length l <sub>1</sub> mm	Flute Length l <sub>2</sub> mm	Min. Cleared Length l <sub>3</sub> mm	Shank Length l <sub>4</sub> mm	Ti-NAMITE-A (AlTiN) EDP No.
5,8 mm	0.2283		6	95	57	48	36	63603
5,9 mm	0.2323		6	95	57	48	36	63604
15/64	0.2344		6	95	57	48	36	51810
6,0 mm	0.2362	M7 X 1	6	95	57	48	36	63605
6,1 mm	0.2402		8	114	76	64	36	63606
6,2 mm	0.2441	M7 X 0,75	8	114	76	64	36	63607
6,3 mm	0.2480		8	114	76	64	36	63608
1/4	0.2500		8	114	76	64	36	51811
6,4 mm	0.2520		8	114	76	64	36	63609
6,5 mm	0.2559		8	114	76	64	36	63610
F	0.2570	5/16-18	8	114	76	64	36	51812
6,6 mm	0.2598		8	114	76	64	36	63611
6,7 mm	0.2638		8	114	76	64	36	63612
17/64	0.2657	5/16-20	8	114	76	64	36	51813
6,8 mm	0.2677	M8 X 1,25	8	114	76	64	36	63613
6,9 mm	0.2717		8	114	76	64	36	63614
7,0 mm	0.2756	M8 X 1	8	114	76	64	36	63615
7,1 mm	0.2795		8	114	76	64	36	63616
9/32	0.2812	5/16-32	8	114	76	64	36	51814
7,2 mm	0.2835	M8 X 0,75	8	114	76	64	36	63617
7,3 mm	0.2874		8	114	76	64	36	63618
7,4 mm	0.2913		8	114	76	64	36	63619
7,5 mm	0.2953	M8 X 0,5	8	114	76	64	36	63620
19/64	0.2969		8	114	76	64	36	51815
7,6 mm	0.2992		8	114	76	64	36	63621
7,7 mm	0.3031		8	114	76	64	36	63622
7,8 mm	0.3071	M9 X 1,25	8	114	76	64	36	63623
7,9 mm	0.3110		8	114	76	64	36	63624
5/16	0.3125	3/8-16	8	114	76	64	36	51816
8,0 mm	0.3150	M9 X 1	8	114	76	64	36	63625
8,1 mm	0.3189		10	142	95	80	40	63626
8,2 mm	0.3228		10	142	95	80	40	63627
8,3 mm	0.3268		10	142	95	80	40	63628
21/64	0.3281	3/8-20	10	142	95	80	40	51817
8,4 mm	0.3307		10	142	95	80	40	63629

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## ICe-Carb Internal Coolant Drills for Depths up to 8xD

Series **140 8xD**



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	Shank Length $l_4$ mm	Ti-NAMITE-A (AlTiN) EDP No.
Q	0.3320	3/8-24	10	142	95	80	40	51818
8,5 mm	0.3346	M10 X 1,5	10	142	95	80	40	63630
8,6 mm	0.3386		10	142	95	80	40	63631
8,7 mm	0.3425		10	142	95	80	40	63632
11/32	0.3438	3/8-32	10	142	95	80	40	51819
8,8 mm	0.3465	M10 X 1,25	10	142	95	80	40	63633
8,9 mm	0.3504		10	142	95	80	40	63634
9,0 mm	0.3543	M10 X 1	10	142	95	80	40	63635
9,1 mm	0.3583		10	142	95	80	40	63636
23/64	0.3594		10	142	95	80	40	51820
9,2 mm	0.3622	M10 X 0,75	10	142	95	80	40	63637
9,3 mm	0.3661		10	142	95	80	40	63638
U	0.3680	7/16-14	10	142	95	80	40	51821
9,4 mm	0.3701		10	142	95	80	40	63639
9,5 mm	0.3740	M11 / M10 X 0,5	10	142	95	80	40	63640
3/8	0.3750		10	142	95	80	40	51822
9,6 mm	0.3780		10	142	95	80	40	63641
9,7 mm	0.3819		10	142	95	80	40	63642
9,8 mm	0.3858		10	142	95	80	40	63643
9,9 mm	0.3898		10	142	95	80	40	63644
25/64	0.3906	7/16-20	10	142	95	80	40	51823
10,0 mm	0.3937		10	142	95	80	40	63645
10,1 mm	0.3976		12	162	114	96	45	63646
10,2 mm	0.4016	M12 X 1,75	12	162	114	96	45	63647
10,3 mm	0.4055		12	162	114	96	45	63648
13/32	0.4062		12	162	114	96	45	51824
10,4 mm	0.4094		12	162	114	96	45	63649
10,5 mm	0.4134	M12 X 1,5	12	162	114	96	45	63650
10,6 mm	0.4173		12	162	114	96	45	63651
10,7 mm	0.4213		12	162	114	96	45	63652
27/64	0.4219	1/2-13	12	162	114	96	45	51825
10,8 mm	0.4252	M12 X 1,25	12	162	114	96	45	63653
10,9 mm	0.4291		12	162	114	96	45	63654

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### Series 140 8xD



ICe-Carb Internal Coolant Drills for  
Depths up to 8xD

### Serie 140 8xD



Brocas ICe-Carb con refrigerante  
interno para profundidades de hasta  
8xD

### Série 140 8xD



Forets ICe-Carb à refroidissement  
interne pour profondeurs jusqu'à  
8xD

# Series 140 8xD

## ICe-Carb Internal Coolant Drills for Depths up to 8xD



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Diameter	Tolerances (inch)	
	d <sub>1</sub>	d <sub>2</sub>
≥ 1/8 – 1/4	+0.002/+0.0006	h6
> 1/4 – 3/8	+0.002/+0.0008	h6
> 3/8 – 3/4	+0.003/+0.0011	h6

Diameter	Tolerances (mm)	
	d <sub>1</sub>	d <sub>2</sub>
≤ 3	+0,0025/+0,0127	h6
> 3 – 6	+0,0050/+0,0152	h6
> 6 – 10	+0,0050/+0,0200	h6
> 10 – 18	+0,0076/+0,0254	h6
> 18 – 30	+0,0076/+0,0279	h6

Cutting Diameter d <sub>1</sub> mm	Decimal Equivalent	Tap Size Reference Only	Shank Diameter d <sub>2</sub> mm	Overall Length l <sub>1</sub> mm	Flute Length l <sub>2</sub> mm	Min. Cleared Length l <sub>3</sub> mm	Shank Length l <sub>4</sub> mm	Ti-NAMITE-A (AlTiN) EDP No.
11,1 mm	0.4370		12	162	114	96	45	63656
7/16	0.4375	1/4-18NPT	12	162	114	96	45	51826
11,2 mm	0.4409		12	162	114	96	45	63657
11,3 mm	0.4449		12	162	114	96	45	63658
11,4 mm	0.4488		12	162	114	96	45	63659
11,5 mm	0.4528	M12 X 0,5	12	162	114	96	45	63660
11,6 mm	0.4567		12	162	114	96	45	63661
11,7 mm	0.4606		12	162	114	96	45	63662
11,8 mm	0.4646		12	162	114	96	45	63663
11,9 mm	0.4685		12	162	114	96	45	63664
15/32	0.4688	1/2-28	12	162	114	96	45	51827
12,0 mm	0.4724	M14 X 2	12	162	114	96	45	63665
31/64	0.4844	9/16-12	14	178	133	112	45	51828
12,5 mm	0.4921	M14 X 1,5	14	178	133	112	45	63666
1/2	0.5000		14	178	133	112	45	51829
12,8 mm	0.5039	M14 X 1,25	14	178	133	112	45	63667
13,0 mm	0.5118	M14 X 1	14	178	133	112	45	63668
33/64	0.5156	9/16-18	14	178	133	112	45	51830
13,5 mm	0.5315	5/8-11	14	178	133	112	45	63669
13,8 mm	0.5433		14	178	133	112	45	63670
14,0 mm	0.5512	M16 X 2	14	178	133	112	45	63671
9/16	0.5625		16	203	152	128	48	51831
14,5 mm	0.5709	M16 X 1,5	16	203	152	128	48	63672
37/64	0.5781	5/8-18	16	203	152	128	48	51832
14,8 mm	0.5827		16	203	152	128	48	63673
15,0 mm	0.5906	M16 X 1	16	203	152	128	48	63674
15,5 mm	0.6102	M18 X 2,5	16	203	152	128	48	63675
15,8 mm	0.6220		16	203	152	128	48	63676
5/8	0.6250	11/16-16	16	203	152	128	48	51833
16,0 mm	0.6299		16	203	152	128	48	63677
21/32	0.6562	3/4-10	18	222	171	144	48	51834
11/16	0.6875	3/4-16	18	222	171	144	48	51835
3/4	0.7500	13/16-16	20	243	190	160	50	51836

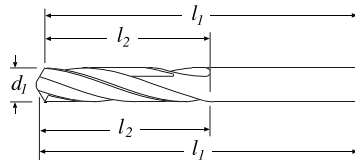
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## 2 Flute – Regular and Fast Spiral

Fractional & Metric<sup>†</sup> **101, 125**



101

### 101 – 2 Flute – 20° Spiral

### 125 – 2 Flute – 35° Spiral

Micrograin Solid Carbide  
Standard Lengths, 118° Four  
Facet Drill Point

† 101 Metric – Technical Recommendations: 270

### 101 – 2 Filos – Hélice 20°

### 125 – 2 Filos – Hélice 35°

Carburo sólido con micrograno  
Longitudes standard, ángulo de punta  
118°, afilado frontal a 4 facetas

† 101 Métrica – Recomendaciones Técnicas: 270

### 101 – 2 Dents – Hélice, 20°

### 125 – 2 Dents – Hélice, 35°

Carbure monobloc, micrograin  
Série courte standard, pointe quatre  
faces 118°

† 101 Métrique – Préconisations : 270

Size d <sub>1</sub>	Decimal Equiv.	Flute Length l <sub>2</sub>	Overall Length l <sub>1</sub>	Uncoated		Ti-NAMITE-A (AlTiN)	
				Series 101 EDP No.	Series 125 EDP No.	Series 101 EDP No.	Series 125 EDP No.
80	.0135	3/16	3/4	51080	52080	57076	57214
79	.0145	3/16	3/4	51079	52079	57077	57215
1/64	.0156	3/16	3/4	51101	–	57078	–
78	.0160	3/16	3/4	51078	52078	57079	57216
77	.0180	3/16	3/4	51077	52077	57080	57217
76	.0200	1/4	7/8	51076	52076	57081	57218
75	.0210	1/4	7/8	51075	52075	57082	57219
74	.0225	1/4	7/8	51074	52074	57083	57220
73	.0240	1/4	7/8	51073	52073	57084	57221
72	.0250	5/16	1	51072	52072	57085	57222
71	.0260	5/16	1	51071	52071	57086	57223
0.7 mm	.0276	12 mm	31 mm	61001	–	68268	–
70	.0280	1/2	1-1/4	51070	52070	57087	57224
69	.0292	1/2	1-1/4	51069	52069	57088	57225
68	.0310	1/2	1-1/4	51068	52068	57089	57226
1/32	.0312	1/2	1-1/4	51102	52102	57090	57227
0.8 mm	.0315	12 mm	31 mm	61003	–	68269	–
67	.0320	1/2	1-1/4	51067	52067	57091	57228
66	.0330	1/2	1-1/4	51066	52066	57092	57229
65	.0350	5/8	1-3/8	51065	52065	57093	57230
0.9 mm	.0354	16 mm	35 mm	61005	–	68270	–
64	.0360	5/8	1-3/8	51064	52064	57094	57231
63	.0370	5/8	1-3/8	51063	52063	57095	57232
62	.0380	5/8	1-3/8	51062	52062	57096	57233
61	.0390	5/8	1-3/8	51061	52061	57097	57234
1.0 mm	.0394	12 mm	34 mm	61007	–	68271	–
60	.0400	3/4	1-1/2	51060	52060	57098	57235
59	.0410	3/4	1-1/2	51059	52059	57099	57236
58	.0420	3/4	1-1/2	51058	52058	57100	57237
57	.0430	3/4	1-1/2	51057	52057	57101	57238
1.1 mm	.0433	14 mm	36 mm	61052	–	68294	–
56	.0465	3/4	1-1/2	51056	52056	57102	57239
3/64	.0469	3/4	1-1/2	51103	52103	57103	57240
1.2 mm	.0472	16 mm	38 mm	61053	–	68295	–
1.3 mm	.0512	16 mm	38 mm	61054	–	68296	–
55	.0520	3/4	1-1/2	51055	52055	57104	57241
54	.0550	3/4	1-1/2	51054	52054	57105	57242
1.4 mm	.0551	18 mm	40 mm	61055	–	68297	–
1.5 mm	.0591	18 mm	40 mm	61009	–	68272	–
53	.0595	3/4	1-1/2	51053	52053	57106	57243
*1/16	.0625	3/4	1-1/2	51104	52104	57107	57244
1.6 mm	.0630	20 mm	43 mm	61056	–	68298	–
52	.0635	3/4	1-1/2	51052	52052	57108	57245
1.7 mm	.0669	22 mm	46 mm	61057	–	68299	–
51	.0670	3/4	1-1/2	51051	52051	57109	57246
50	.0700	7/8	1-3/4	51050	52050	57110	57247
1.8 mm	.0709	22 mm	46 mm	61058	–	68300	–
49	.0730	7/8	1-3/4	51049	52049	57111	57248
1.9 mm	.0748	22 mm	46 mm	61059	–	68301	–
48	.0760	7/8	1-3/4	51048	52048	57112	57249
5/64	.0781	7/8	1-3/4	51105	52105	57113	57250
47	.0785	7/8	1-3/4	51047	52047	57114	57251
2.0 mm	.0787	24 mm	49 mm	61011	–	68273	–
46	.0810	7/8	1-3/4	51046	52046	57115	57252
45	.0820	7/8	1-3/4	51045	52045	57116	57253
2.1 mm	.0827	24 mm	49 mm	61060	–	68302	–
44	.0860	1	2	51044	52044	57117	57254
2.2 mm	.0866	27 mm	53 mm	61061	–	68303	–
43	.0890	1	2	51043	52043	57118	57255
2.3 mm	.0906	27 mm	53 mm	61062	–	68304	–

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# Fractional & Metric<sup>†</sup> 101, 125

## 2 Flute – Regular and Fast Spiral



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### TOLERANCES (inch)

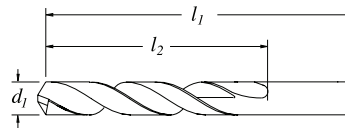
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### TOLERANCES (mm)

$d_1 = +0.0000 / -0.0127$



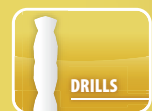
125



Size $d_1$	Decimal Equiv.	Flute Length $l_2$	Overall Length $l_1$	Uncoated		Ti-NAMITE-A (AlTiN)	
				Series 101 EDP No.	Series 125 EDP No.	Series 101 EDP No.	Series 125 EDP No.
42	.0935	1	2	51042	52042	57119	57256
3/32	.0938	1	2	51106	52106	57120	57257
2.4 mm	.0945	30 mm	57 mm	61063	—	68305	—
41	.0960	1	2	51041	52041	57121	57258
40	.0980	1	2	51040	52040	57122	57259
2.5 mm	.0984	30 mm	57 mm	61013	—	68274	—
39	.0995	1-1/4	2-1/4	51039	52039	57123	57260
38	.1015	1-1/4	2-1/4	51038	52038	57124	57261
2.6 mm	.1024	30 mm	57 mm	61064	—	68306	—
37	.1040	1-1/4	2-1/4	51037	52037	57125	57262
2.7 mm	.1063	33 mm	61 mm	61065	—	68307	—
36	.1065	1-1/4	2-1/4	51036	52036	57126	57263
7/64	.1094	1-1/4	2-1/4	51107	52107	57127	57264
35	.1100	1-1/4	2-1/4	51035	52035	57128	57265
2.8 mm	.1102	33 mm	61 mm	61066	—	68308	—
34	.1110	1-1/4	2-1/4	51034	52034	57129	57266
33	.1130	1-1/4	2-1/4	51033	52033	57130	57267
2.9 mm	.1142	33 mm	61 mm	61067	—	68309	—
32	.1160	1-1/4	2-1/4	51032	52032	57131	57268
3.0 mm	.1181	33 mm	61 mm	61015	—	68275	—
31	.1200	1-1/4	2-1/4	51031	52031	57132	57269
3.1 mm	.1220	36 mm	65 mm	61068	—	68310	—
*1/8	.1250	1-1/4	2-1/4	51108	52108	57133	57270
3.2 mm	.1260	36 mm	65 mm	61069	—	68311	—
30	.1285	1-1/4	2-1/4	51030	52030	57134	57271
3.3 mm	.1299	36 mm	65 mm	61070	—	68312	—
3.4 mm	.1339	39 mm	70 mm	61071	—	68313	—
29	.1360	1-3/8	2-1/4	51029	52029	57135	57272
3.5 mm	.1378	39 mm	70 mm	61017	—	68276	—
28	.1405	1-3/8	2-1/2	51028	52028	57136	57273
9/64	.1406	1-3/8	2-1/2	51109	52109	57137	57274
3.6 mm	.1417	39 mm	70 mm	61072	—	68314	—
27	.1440	1-3/8	2-1/2	51027	52027	57138	57275
3.7 mm	.1457	39 mm	70 mm	61073	—	68315	—
26	.1470	1-3/8	2-1/2	51026	52026	57139	57276
25	.1495	1-3/8	2-1/2	51025	52025	57140	57277
3.8 mm	.1496	43 mm	75 mm	61074	—	68316	—
24	.1520	1-3/8	2-1/2	51024	52024	57141	57278
3.9 mm	.1535	43 mm	75 mm	61075	—	68317	—
23	.1540	1-3/8	2-1/2	51023	52023	57142	57279
5/32	.1562	1-3/8	2-1/2	51110	52110	57143	57280
22	.1570	1-3/8	2-1/2	51022	52022	57144	57281
4.0 mm	.1575	43 mm	75 mm	61019	—	68277	—
21	.1590	1-3/8	2-1/2	51021	52021	57145	57282
20	.1610	1-3/8	2-1/2	51020	52020	57146	57283
4.1 mm	.1614	43 mm	75 mm	61076	—	68318	—
4.2 mm	.1654	43 mm	75 mm	61077	—	68319	—
19	.1660	1-5/8	2-3/4	51019	52019	57147	57284
4.3 mm	.1693	47 mm	80 mm	61078	—	68320	—
18	.1695	1-5/8	2-3/4	51018	52018	57148	57285
11/64	.1719	1-5/8	2-3/4	51111	52111	57149	57286
17	.1730	1-5/8	2-3/4	51017	52017	57150	57287
4.4 mm	.1732	47 mm	80 mm	61079	—	68321	—
16	.1770	1-5/8	2-3/4	51016	52016	57151	57288
4.5 mm	.1772	47 mm	80 mm	61021	—	68278	—
15	.1800	1-5/8	2-3/4	51015	52015	57152	57289
4.6 mm	.1811	47 mm	80 mm	61080	—	68322	—
14	.1820	1-5/8	2-3/4	51014	52014	57153	57290
4.7 mm	.1850	47 mm	80 mm	61081	—	68323	—
13	.1850	1-5/8	2-3/4	51013	52013	57154	57291
*3/16	.1875	1-5/8	2-3/4	51112	52112	57155	57292
4.8 mm	.1890	52 mm	86 mm	61082	—	68324	—

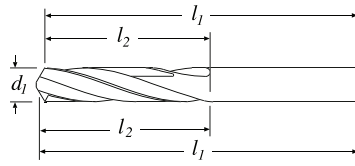
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## 2 Flute – Regular and Fast Spiral

Fractional & Metric<sup>†</sup> **101, 125**



101

### 101 – 2 Flute – 20° Spiral

### 125 – 2 Flute – 35° Spiral

Micrograin Solid Carbide  
Standard Lengths, 118° Four  
Facet Drill Point

† 101 Metric – Technical Recommendations: 270

### 101 – 2 Filos – Hélice 20°

### 125 – 2 Filos – Hélice 35°

Carburo sólido con micrograno  
Longitudes standard, ángulo de punta  
118°, afilado frontal a 4 facetas

† 101 Métrica – Recomendaciones Técnicas: 270

### 101 – 2 Dents – Hélice, 20°

### 125 – 2 Dents – Hélice, 35°

Carbure monobloc, micrograin  
Série courte standard, pointe quatre  
faces 118°

† 101 Métrique – Préconisations : 270

Size $d_1$	Decimal Equiv.	Flute Length $l_2$	Overall Length $l_1$	Uncoated		Ti-NAMITE-A (AlTiN)	
				Series 101 EDP No.	Series 125 EDP No.	Series 101 EDP No.	Series 125 EDP No.
12	.1890	1-5/8	2-3/4	51012	52012	57156	57293
11	.1910	1-5/8	2-3/4	51011	52011	57157	57294
4.9 mm	.1929	52 mm	86 mm	61083	–	68325	–
10	.1935	1-5/8	2-3/4	51010	52010	57158	57295
9	.1960	1-3/4	3	51009	52009	57159	57296
5.0 mm	.1969	52 mm	86 mm	61023	–	68279	–
8	.1990	1-3/4	3	51008	52008	57160	57297
5.1 mm	.2008	52 mm	86 mm	61084	–	68326	–
7	.2010	1-3/4	3	51007	52007	57161	57298
13/64	.2031	1-3/4	3	51113	52113	57162	57299
6	.2040	1-3/4	3	51006	52006	57163	57300
5.2 mm	.2047	52 mm	86 mm	61085	–	68327	–
5	.2055	1-3/4	3	51005	52005	57164	57301
5.3 mm	.2087	52 mm	86 mm	61086	–	68328	–
4	.2090	1-3/4	3	51004	52004	57165	57302
5.4 mm	.2126	57 mm	93 mm	61087	–	68329	–
3	.2130	1-3/4	3	51003	52003	57166	57303
5.5 mm	.2165	57 mm	93 mm	61025	–	68280	–
7/32	.2188	1-3/4	3	51114	52114	57167	57304
5.6 mm	.2205	57 mm	93 mm	61088	–	68330	–
2	.2210	1-3/4	3	51002	52002	57168	57305
5.7 mm	.2244	57 mm	93 mm	61089	–	68331	–
1	.2280	1-3/4	3	51001	52001	57169	57306
5.8 mm	.2283	57 mm	93 mm	61090	–	68332	–
5.9 mm	.2323	57 mm	93 mm	61091	–	68333	–
A	.2340	2	3-1/4	51201	52201	57170	57307
15/64	.2344	2	3-1/4	51115	52115	57171	57308
6.0 mm	.2362	57 mm	93 mm	61027	–	68281	–
B	.2380	2	3-1/4	51202	52202	57172	57309
6.1 mm	.2402	63 mm	101 mm	61092	–	68334	–
C	.2420	2	3-1/4	51203	52203	57173	57310
6.2 mm	.2441	63 mm	101 mm	61093	–	68335	–
D	.2460	2	3-1/4	51204	52204	57174	57311
6.3 mm	.2480	63 mm	101 mm	61094	–	68336	–
*E	.2500	2	3-1/4	51205	52205	57175	57312
1/4	.2500	2	3-1/4	51116	52116	57176	57313
6.4 mm	.2520	63 mm	101 mm	61095	–	68337	–
6.5 mm	.2559	63 mm	101 mm	61029	–	68282	–
F	.2570	2	3-1/4	51206	52206	57177	57314
6.6 mm	.2598	63 mm	101 mm	61096	–	68338	–
G	.2610	2-1/8	3-1/2	51207	52207	57178	57315
6.7 mm	.2638	63 mm	101 mm	61097	–	68339	–
17/64	.2656	2-1/8	3-1/2	51117	52117	57179	57316
H	.2660	2-1/8	3-1/2	51208	52208	57180	57317
6.8 mm	.2677	69 mm	109 mm	61098	–	68340	–
6.9 mm	.2717	69 mm	109 mm	61099	–	68341	–
I	.2720	2-1/8	3-1/2	51209	52209	57181	57318
7.0 mm	.2756	69 mm	109 mm	61031	–	68283	–
J	.2770	2-1/8	3-1/2	51210	52210	57182	57319
7.1 mm	.2795	69 mm	109 mm	61100	–	68342	–
K	.2810	2-1/8	3-1/2	51211	52211	57183	57320
9/32	.2812	2-1/8	3-1/2	51118	52118	57184	57321
7.2 mm	.2835	69 mm	109 mm	61101	–	68343	–
7.3 mm	.2874	69 mm	109 mm	61102	–	68344	–
L	.2900	2-1/8	3-1/2	51212	52212	57185	57322
7.4 mm	.2913	69 mm	109 mm	61103	–	68345	–
M	.2950	2-3/8	3-3/4	51213	52213	57186	57323
7.5 mm	.2953	69 mm	109 mm	61033	–	68284	–
19/64	.2969	2-3/8	3-3/4	51119	52119	57187	57324
7.6 mm	.2992	75 mm	117 mm	61104	–	68346	–

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# Fractional & Metric† 101, 125

## 2 Flute – Regular and Fast Spiral



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### TOLERANCES (inch)

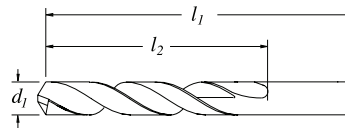
$$d_1 = +.0000 / -.0005$$

### TOLERANCES (mm)

$$d_1 = +0.0000 / -0.0127$$



125



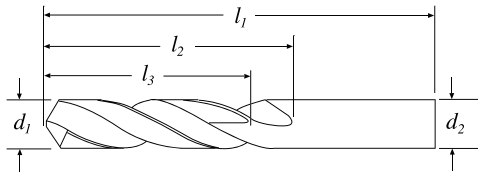
Size $d_1$	Decimal Equiv.	Flute Length $l_2$	Overall Length $l_1$	Uncoated		Ti-NAMITE-A (AlTiN)	
				Series 101 EDP No.	Series 125 EDP No.	Series 101 EDP No.	Series 125 EDP No.
N	.3020	2-3/8	3-3/4	51214	52214	57188	57325
7.7 mm	.3031	75 mm	117 mm	61105	—	68347	—
7.8 mm	.3071	75 mm	117 mm	61106	—	68348	—
7.9 mm	.3110	75 mm	117 mm	61107	—	68349	—
*5/16	.3125	2-3/8	3-3/4	51120	52120	57189	57326
8.0 mm	.3150	75 mm	117 mm	61035	—	68285	—
O	.3160	2-3/8	3-3/4	51215	52215	57190	57327
8.1 mm	.3189	75 mm	117 mm	61108	—	68350	—
8.2 mm	.3228	75 mm	117 mm	61109	—	68351	—
P	.3230	2-3/8	3-3/4	51216	52216	57191	57328
8.3 mm	.3268	75 mm	117 mm	61110	—	68352	—
21/64	.3281	2-1/2	4	51121	52121	57192	57329
8.4 mm	.3307	75 mm	117 mm	61111	—	68353	—
Q	.3320	2-1/2	4	51217	52217	57193	57330
8.5 mm	.3346	75 mm	117 mm	61037	—	68286	—
8.6 mm	.3386	81 mm	125 mm	61112	—	68354	—
R	.3390	2-1/2	4	51218	52218	57194	57331
8.7 mm	.3425	81 mm	125 mm	61113	—	68355	—
11/32	.3438	2-1/2	4	51122	52122	57195	57332
8.8 mm	.3465	81 mm	125 mm	61114	—	68356	—
S	.3480	2-1/2	4	51219	52219	57196	57333
8.9 mm	.3504	81 mm	125 mm	61115	—	68357	—
9.0 mm	.3543	81 mm	125 mm	61039	—	68287	—
T	.3580	2-3/4	4-1/4	51220	52220	57197	57334
9.1 mm	.3583	81 mm	125 mm	61116	—	68358	—
23/64	.3594	2-3/4	4-1/4	51123	52123	57198	57335
9.2 mm	.3622	81 mm	125 mm	61117	—	68359	—
9.3 mm	.3661	81 mm	125 mm	61118	—	68360	—
U	.3680	2-3/4	4-1/4	51221	52221	57199	57336
9.4 mm	.3701	81 mm	125 mm	61119	—	68361	—
9.5 mm	.3740	81 mm	125 mm	61041	—	68288	—
*3/8	.3750	2-3/4	4-1/4	51124	52124	57200	57337
V	.3770	2-3/4	4-1/4	51222	52222	57201	57338
9.6 mm	.3780	87 mm	133 mm	61120	—	68362	—
9.7 mm	.3819	87 mm	133 mm	61121	—	68363	—
9.8 mm	.3858	87 mm	133 mm	61122	—	68364	—
W	.3860	2-7/8	4-1/2	51223	52223	57202	57339
9.9 mm	.3898	87 mm	133 mm	61123	—	68365	—
25/64	.3906	2-7/8	4-1/2	51125	52125	57203	57340
10.0 mm	.3937	87 mm	133 mm	61043	—	68289	—
X	.3970	2-7/8	4-1/2	51224	52224	57204	57341
10.2 mm	.4015	87 mm	133 mm	61124	—	68366	—
Y	.4040	2-7/8	4-1/2	51225	52225	57205	57342
13/32	.4062	2-7/8	4-1/2	51126	52126	57206	57343
Z	.4130	2-7/8	4-1/2	51226	52226	57207	57344
10.5 mm	.4134	87 mm	133 mm	61045	—	68290	—
27/64	.4219	2-7/8	4-1/2	51127	52127	57208	57345
11.0 mm	.4331	94 mm	142 mm	61047	—	68291	—
7/16	.4375	2-7/8	4-1/2	51128	52128	57209	57346
11.5 mm	.4528	94 mm	142 mm	61049	—	68292	—
29/64	.4531	3	4-3/4	51129	52129	57210	57347
15/32	.4688	3	4-3/4	51130	52130	57211	57348
12.0 mm	.4724	101 mm	151 mm	61051	—	68293	—
31/64	.4844	3	4-3/4	51131	52131	57212	57349
1/2	.5000	3	4-3/4	51132	52132	57213	57350
				61175	—	68351	—
				—	62175	—	57352

\* Series 101 Set  
\* Series 125 Set



## 2 Flute – Single End – Short Length – DIN 6539

Metric Series **108M Plus**



### Series 108M



DIN 6539 – Short Length Drills  
Micrograin Solid Carbide  
Short Length, 145° Four Facet Point,  
27° Spiral

### Serie 108M



Brocas DIN 6539 serie corta  
Metal duro con micrograno  
Longitud corta, punta de cuatro  
caras y 145°, hélice derecha (27°)

### Série 108M



Forets courts – DIN 6539  
Carbure monobloc, micrograin  
Court–Angle d'entrée à quatre  
facettes, 145° – Hélice à droite, 27°

Size	Overall Length	Flute Length	Length of Cut	Uncoated	Ti-NAMITE-A
$d_1$	$l_1$	$l_2$	$l_3$	EDP No.	(AlTiN) EDP No.
mm	mm	mm	mm		
0,5	20	3	–	62001	68643
0,55	21	3,5	–	62003	68644
0,6	21	3,5	–	62005	68645
0,65	22	4	–	62007	68646
0,7	23	4,5	–	62009	68647
0,75	23	4,5	–	62011	68648
0,8	24	5	–	62013	68649
0,85	24	5	–	62015	68650
0,9	25	5,5	–	62017	68651
0,95	25	5,5	–	62019	68652
1,0	26	6	–	62021	68653
1,05	26	6	–	62023	68654
1,1	28	7	–	62025	68655
1,15	28	7	–	62027	68656
1,2	30	8	–	62029	68657
1,25	30	8	–	62031	68658
1,3	30	8	–	62033	68659
1,35	32	9	–	62035	68660
1,4	32	9	–	62037	68661
1,45	32	9	–	62039	68662
1,5	32	9	–	62041	68663
1,6	34	10	–	62043	68664
1,7	34	10	–	62045	68665
1,8	36	11	–	62047	68666
1,9	36	11	–	62049	68667
2,0	38	12	9	62051	68668
2,1	38	12	9	62053	68669
2,2	40	13	10	62055	68670
2,3	40	13	10	62057	68671
2,4	43	14	11	62059	68672
2,5	43	14	11	62061	68673
2,6	43	14	11	62063	68674
2,7	46	16	12	62065	68675
2,8	46	16	12	62067	68676
2,9	46	16	12	62069	68677
3,0	46	16	12	62071	68678
3,1	49	18	14	62073	68679
3,2	49	18	14	62075	68680
3,3	49	18	14	62077	68681
3,4	52	20	15	62079	68682
3,5	52	20	15	62081	68683
3,6	52	20	15	62083	68684
3,7	52	20	15	62085	68685
3,8	55	22	17	62087	68686
3,9	55	22	17	62089	68687
4,0	55	22	17	62091	68688
4,1	55	22	17	62093	68689
4,2	55	22	17	62095	68690

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**d TOLERANCES h7**

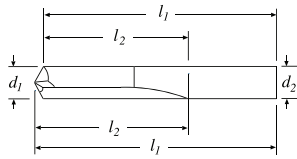
mm	mm
≤ 3	+0,000/-0,010
> 3 – 6	+0,000/-0,012
> 6 – 10	+0,000/-0,015
> 10 – 18	+0,000/-0,018
> 18 – 30	+0,000/-0,021
d <sub>2</sub> =h6	

Size	Overall Length	Flute Length	Length of Cut	Uncoated EDP No.	Ti-NAMITE-A (AlTiN) EDP No.
d <sub>1</sub> mm	l <sub>1</sub> mm	l <sub>2</sub> mm	l <sub>3</sub> mm		
4,3	58	24	18	62097	68691
4,4	58	24	18	62099	68692
4,5	58	24	18	62101	68693
4,6	58	24	18	62103	68694
4,7	58	24	18	62105	68695
4,8	62	26	20	62107	68696
4,9	62	26	20	62109	68697
5,0	62	26	20	62111	68698
5,1	62	26	20	62113	68699
5,2	62	26	20	62115	68700
5,3	62	26	20	62117	68701
5,4	66	28	21	62119	68702
5,5	66	28	21	62121	68703
5,6	66	28	21	62123	68704
5,7	66	28	21	62125	68705
5,8	66	28	21	62127	68706
5,9	66	28	21	62129	68707
6,0	66	28	21	62131	68708
6,1	70	31	23	62133	68709
6,2	70	31	23	62135	68710
6,3	70	31	23	62137	68711
6,4	70	31	23	62139	68712
6,5	70	31	23	62141	68713
6,8	70	31	23	62142	68603
7,0	74	34	25	62143	68718
7,5	74	34	25	62145	68723
7,8	79	37	27	62146	68604
8,0	79	37	27	62147	68728
8,5	79	37	27	62149	68733
9,0	84	40	29	62151	68738
9,5	84	40	29	62153	68743
9,8	89	43	31	62154	68606
10,0	89	43	31	62155	68748
10,2	89	43	31	62156	68607
10,5	89	43	31	62066	68753
11,0	95	47	33	62157	68758
11,5	95	47	33	62084	68763
11,8	102	51	35	62158	68608
12,0	102	51	35	62159	68768
12,5	102	51	35	62102	68773
13	102	51	35	62112	68778
13,8	107	54	37	62164	68609
14	107	54	37	62116	68780
14,5	111	56	38	62166	68611
14,8	111	56	38	62167	68612
15,0	111	56	38	62168	68613
15,8	115	58	38	62170	68614
16,0	115	58	38	62171	68616

**DRILLS**  
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## 2 Flute – Single End – Straight Flute



### Series 106 – Straight Flute Drills



Micrograin Solid Carbide  
For Drilling Hardened Materials –  
Straight Flute – 140° Point Angle

### Serie 106 – con fillos rectos



Carburo sólido con micrograno  
Para el mecanizado de materiales  
duro – Angulo punta 140°

### Série 106 – Forets à arête droite



Carbure monobloc, micrograin  
Pour le perçage des matières  
trempés – Arête droite – Angle  
d'entrée, 140°

Size $d_1$	Decimal Equiv.	Flute Length $l_2$	Overall Length $l_1$	Uncoated EDP No.	Ti-NAMITE-A (AlTiN) EDP No.
1 mm	.0394	6 mm	26 mm	66001	66002
60	.0400	1/2	1-1/2	56060	56269
59	.0410	1/2	1-1/2	56059	56268
58	.0420	1/2	1-1/2	56058	56267
57	.0430	1/2	1-1/2	56057	56266
56	.0465	1/2	1-1/2	56056	56265
3/64	.0469	1/2	1-1/2	56103	56135
55	.0520	1/2	1-1/2	56055	56264
54	.0550	1/2	1-1/2	56054	56263
1,5 mm	.0591	9 mm	32 mm	66003	66004
53	.0595	1/2	1-1/2	56053	56262
1/16	.0625	5/8	1-1/2	56104	56136
52	.0635	11/16	1-11/16	56052	56261
51	.0670	11/16	1-11/16	56051	56260
50	.0700	11/16	1-11/16	56050	56259
49	.0730	11/16	1-11/16	56049	56258
48	.0760	11/16	1-11/16	56048	56257
5/64	.0781	11/16	1-11/16	56105	56137
47	.0785	3/4	1-3/4	56047	56256
2 mm	.0787	12 mm	38 mm	66005	66006
46	.0810	3/4	1-3/4	56046	56255
45	.0820	3/4	1-3/4	56045	56254
44	.0860	3/4	1-3/4	56044	56253
43	.0890	3/4	1-3/4	56043	56252
42	.0935	3/4	1-3/4	56042	56251
3/32	.0938	3/4	1-3/4	56106	56138
41	.0960	13/16	1-13/16	56041	56250
40	.0980	13/16	1-13/16	56040	56249
2,5 mm	.0984	14 mm	43 mm	66007	66008
39	.0995	13/16	1-13/16	56039	56248
38	.1015	13/16	1-13/16	56038	56247
37	.1040	13/16	1-13/16	56037	56246
36	.1065	13/16	1-13/16	56036	56245
7/64	.1094	13/16	1-13/16	56107	56139
35	.1100	7/8	1-7/8	56035	56244
34	.1110	7/8	1-7/8	56034	56243
33	.1130	7/8	1-7/8	56033	56242
32	.1160	7/8	1-7/8	56032	56241
3 mm	.1181	16 mm	46 mm	66009	66010
31	.1200	7/8	1-7/8	56031	56240
1/8	.1250	7/8	1-7/8	56108	56140
30	.1285	15/16	1-15/16	56030	56239
29	.1360	15/16	1-15/16	56029	56238
3,5 mm	.1378	20 mm	52 mm	66011	66012
28	.1405	15/16	1-15/16	56028	56237
9/64	.1406	15/16	1-15/16	56109	56141
27	.1440	1	2-1/16	56027	56236
26	.1470	1	2-1/16	56026	56235
25	.1495	1	2-1/16	56025	56234
24	.1520	1	2-1/16	56024	56233
23	.1540	1	2-1/16	56023	56232
5/32	.1562	1	2-1/16	56110	56142
22	.1570	1-1/16	2-1/8	56022	56231
4 mm	.1575	22 mm	55 mm	66013	66014
21	.1590	1-1/16	2-1/8	56021	56230
20	.1610	1-1/16	2-1/8	56020	56229
19	.1660	1-1/16	2-1/8	56019	56228

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**2 Flute – Single End – Straight Flute**

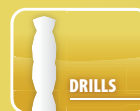
**TOLERANCES**

d<sub>1</sub>=+.0000-.0005

d<sub>2</sub>=h6

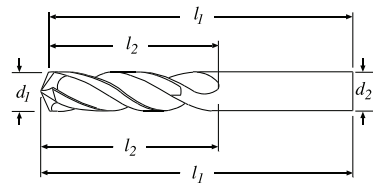
Size d <sub>1</sub>	Decimal Equiv.	Flute Length l <sub>2</sub>	Overall Length l <sub>1</sub>	Uncoated EDP No.	Ti-NAMITE-A (AlTiN) EDP No.
18	.1695	1-1/16	2-1/8	56018	56227
11/64	.1719	1-1/16	2-1/8	56111	56143
17	.1730	1-1/8	2-3/16	56017	56226
16	.1770	1-1/8	2-3/16	56016	56225
4,5 mm	.1772	24 mm	58 mm	66015	66016
15	.1800	1-1/8	2-3/16	56015	56224
14	.1820	1-1/8	2-3/16	56014	56223
13	.1850	1-1/8	2-3/16	56013	56222
3/16	.1875	1-1/8	2-3/16	56112	56144
12	.1890	1-1/8	2-3/16	56012	56221
11	.1910	1-1/8	2-3/16	56011	56220
10	.1935	1-1/8	2-3/16	56010	56219
9	.1960	1-3/16	2-1/4	56009	56218
5 mm	.1969	26 mm	62 mm	66017	66018
8	.1990	1-3/16	2-1/4	56008	56217
7	.2010	1-3/16	2-1/4	56007	56216
13/64	.2031	1-3/16	2-1/4	56113	56145
6	.2040	1-1/4	2-3/8	56006	56215
5	.2055	1-1/4	2-3/8	56005	56214
4	.2090	1-1/4	2-3/8	56004	56213
3	.2130	1-1/4	2-3/8	56003	56212
5,5 mm	.2165	28 mm	66 mm	66019	66020
7/32	.2188	1-1/4	2-3/8	56114	56146
2	.2210	1-5/16	2-7/16	56002	56211
1	.2280	1-5/16	2-7/16	56001	56210
15/64	.2344	1-5/16	2-7/16	56115	56147
6 mm	.2362	28 mm	66 mm	66021	66045
1/4	.2500	1-3/8	2-1/2	56116	56148
6,5 mm	.2559	31 mm	70 mm	66022	66046
17/64	.2656	1-7/16	2-5/8	56117	56149
7 mm	.2756	34 mm	74 mm	66023	66024
9/32	.2812	1-1/2	2-11/16	56118	56150
7,5 mm	.2953	34 mm	74 mm	66025	66026
19/64	.2969	1-9/16	2-3/4	56119	56151
5/16	.3125	1-5/8	2-13/16	56120	56152
8 mm	.3150	37 mm	79 mm	66027	66028
21/64	.3281	1-11/16	2-15/16	56121	56153
8,5 mm	.3346	37 mm	79 mm	66029	66030
11/32	.3438	1-11/16	3	56122	56154
9 mm	.3543	40 mm	84 mm	66031	66032
23/64	.3594	1-3/4	3-1/16	56123	56155
9,5 mm	.3740	40 mm	84 mm	66033	66034
3/8	.3750	1-13/16	3-1/8	56124	56156
25/64	.3906	1-7/8	3-1/4	56125	56157
10 mm	.3937	43 mm	89 mm	66035	66036
13/32	.4062	1-15/16	3-5/16	56126	56158
10,5 mm	.4134	43 mm	89 mm	66037	66038
27/64	.4219	2	3-3/8	56127	56159
11 mm	.4331	47 mm	95 mm	66039	66040
7/16	.4375	2-1/16	3-7/16	56128	56160
11,5 mm	.4528	47 mm	95 mm	66041	66042
29/64	.4531	2-1/8	3-9/16	56129	56161
15/32	.4688	2-1/8	3-5/8	56130	56162
12 mm	.4724	51 mm	102 mm	66043	66044
31/64	.4844	2-3/16	3-11/16	56131	56163
1/2	.5000	2-1/4	3-3/4	56132	56164

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### 3 Flute – Single End



#### Series 103 – 3 Flute Drills

Micrograin Solid Carbide  
For Cast Iron, High Silicon  
Aluminum, Alloy Steel and  
Nonferrous Materials 150° Point  
Angle, 30° Spiral – Drills cast iron,  
high silicon aluminum, alloy steel  
and nonferrous materials – Greater  
hole dimensional accuracy at higher  
production rates – Reduces drill  
deflection compared to HSS, Cobalt  
and other carbide drills

#### Serie 103 – Brocas de 3 filos

Carburo sólido con micrograno  
Para hierro fundido, aluminio con  
alto contenido de silicón, aleaciones  
de acero y materiales no ferrosos  
Ángulo punta 150°, hélice 30° –  
Taladro de fundición, aluminio con  
alto contenido de silicio, aceros  
aleados y materiales no ferrosos –  
Mayor precisión de agujero a las más  
altas proporciones de producción  
– Reducción de la desviación de la  
broca en comparación con las brocas  
de HSS, de cobalto y otras brocas de  
carburo sólido.

Size d <sub>1</sub>	Decimal Equiv.	Flute Length l <sub>2</sub>	Overall Length l <sub>1</sub>	Uncoated EDP No.	Ti-NAMITE-A (AlTiN) EDP No.
36	.1065	1-1/4	2-1/4	53036	58011
7/64	.1094	1-1/4	2-1/4	53107	58012
35	.1100	1-1/4	2-1/4	53035	58013
34	.1110	1-1/4	2-1/4	53034	58014
33	.1130	1-1/4	2-1/4	53033	58015
32	.1160	1-1/4	2-1/4	53032	58016
3 mm	.1181	16 mm	46 mm	63000	68965
31	.1200	1-1/4	2-1/4	53031	58017
3.1 mm	.1220	18 mm	49 mm	63044	68966
1/8	.1250	1-1/4	2-1/4	53108	58018
3.2 mm	.1260	18 mm	49 mm	63045	68967
30	.1285	1-1/4	2-1/4	53030	58019
3.3 mm	.1299	18 mm	49 mm	63001	68968
3.4 mm	.1339	20 mm	52 mm	63046	68969
29	.1360	1-3/8	2-1/2	53029	58020
3.5 mm	.1378	20 mm	52 mm	63002	68970
28	.1405	1-3/8	2-1/2	53028	58021
9/64	.1406	1-3/8	2-1/2	53109	58022
3.6 mm	.1417	20 mm	52 mm	63047	68971
27	.1440	1-3/8	2-1/2	53027	58023
3.7 mm	.1457	20 mm	52 mm	63003	68972
26	.1470	1-3/8	2-1/2	53026	58024
25	.1495	1-3/8	2-1/2	53025	58025
3.8 mm	.1496	22 mm	55 mm	63048	68973
24	.1520	1-3/8	2-1/2	53024	58026
3.9 mm	.1535	22 mm	55 mm	63049	68974
23	.1540	1-3/8	2-1/2	53023	58027
5/32	.1562	1-3/8	2-1/2	53110	58028
22	.1570	1-3/8	2-1/2	53022	58029
4 mm	.1575	22 mm	55 mm	63004	68975
21	.1590	1-3/8	2-1/2	53021	58030
20	.1610	1-3/8	2-1/2	53020	58031
4.1 mm	.1614	22 mm	55 mm	63050	68976
4.2 mm	.1654	22 mm	55 mm	63005	68977
19	.1660	1-5/8	2-3/4	53019	58032
4.3 mm	.1693	24 mm	58 mm	63051	68978
18	.1695	1-5/8	2-3/4	53018	58033
11/64	.1719	1-5/8	2-3/4	53111	58034
17	.1730	1-5/8	2-3/4	53017	58035
4.4 mm	.1732	24 mm	58 mm	63052	68979
16	.1770	1-5/8	2-3/4	53016	58036
4.5 mm	.1772	24 mm	58 mm	63006	68980
15	.1800	1-5/8	2-3/4	53015	58037
4.6 mm	.1811	24 mm	58 mm	63053	68981
14	.1820	1-5/8	2-3/4	53014	58038
13	.1850	1-5/8	2-3/4	53013	58039
4.7 mm	.1850	26 mm	62 mm	63054	68982
3/16	.1875	1-5/8	2-3/4	53112	58040
12	.1890	1-5/8	2-3/4	53012	58041
4.8 mm	.1890	26 mm	62 mm	63055	68983
11	.1910	1-5/8	2-3/4	53011	58042
4.9 mm	.1929	26 mm	62 mm	63056	68984
10	.1935	1-5/8	2-3/4	53010	58043
9	.1960	1-3/4	3	53009	58044
5 mm	.1969	26 mm	62 mm	63007	68985
8	.1990	1-3/4	3	53008	58045
5.1 mm	.2008	26 mm	62 mm	63057	68986
7	.2010	1-3/4	3	53007	58046
13/64	.2031	1-3/4	3	53113	58047
6	.2040	1-3/4	3	53006	58048
5.2 mm	.2047	26 mm	62 mm	63008	68987

→ continued on next page

**TOLERANCES**

d<sub>1</sub>=+.0000-.0005

d<sub>2</sub>=h6

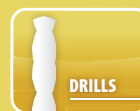
Size d <sub>1</sub>	Decimal Equiv.	Flute Length l <sub>2</sub>	Overall Length l <sub>1</sub>	Uncoated EDP No.	Ti-NAMITE-A (AlTiN) EDP No.
5	.2055	1-3/4	3	53005	58049
5.3 mm	.2087	26 mm	62 mm	63058	68988
4	.2090	1-3/4	3	53004	58050
5.4 mm	.2126	28 mm	66 mm	63059	68989
3	.2130	1-3/4	3	53003	58051
5.5 mm	.2165	28 mm	66 mm	63009	68990
7/32	.2188	1-3/4	3	53114	58052
5.6 mm	.2205	28 mm	66 mm	63060	68991
2	.2210	1-3/4	3	53002	58053
5.7 mm	.2244	28 mm	66 mm	63061	68992
1	.2280	1-3/4	3	53001	58054
5.8 mm	.2283	28 mm	66 mm	63062	68993
5.9 mm	.2323	28 mm	66 mm	63063	68994
A	.2340	2	3-1/4	53201	58055
15/64	.2344	2	3-1/4	53115	58056
6 mm	.2362	28 mm	66 mm	63010	68995
B	.2380	2	3-1/4	53202	58057
6.1 mm	.2402	31 mm	70 mm	63064	68996
C	.2420	2	3-1/4	53203	58058
6.2 mm	.2441	31 mm	70 mm	63011	68997
D	.2460	2	3-1/4	53204	58059
6.3 mm	.2480	31 mm	70 mm	63065	68998
E	.2500	2	3-1/4	53205	58060
1/4	.2500	2	3-1/4	53116	58061
6.4 mm	.2520	31 mm	70 mm	63066	68999
6.5 mm	.2559	31 mm	70 mm	63012	69000
F	.2570	2	3-1/4	53206	58062
6.6 mm	.2598	31 mm	70 mm	63067	69001
G	.2610	2-1/8	3-1/2	53207	58063
6.7 mm	.2638	31 mm	70 mm	63068	69002
17/64	.2656	2-1/8	3-1/2	53117	58064
H	.2660	2-1/8	3-1/2	53208	58065
6.8 mm	.2677	34 mm	74 mm	63013	69003
6.9 mm	.2717	34 mm	74 mm	63069	69004
I	.2720	2-1/8	3-1/2	53209	58066
7 mm	.2756	34 mm	74 mm	63014	69005
J	.2770	2-1/8	3-1/2	53210	58067
7.1 mm	.2795	34 mm	74 mm	63070	69006
K	.2810	2-1/8	3-1/2	53211	58068
9/32	.2812	2-1/8	3-1/2	53118	58069
7.2 mm	.2835	34 mm	74 mm	63015	69007
7.3 mm	.2874	34 mm	74 mm	63071	69008
L	.2900	2-1/8	3-1/2	53212	58070
7.4 mm	.2913	34 mm	74 mm	63072	69009
M	.2950	2-3/8	3-3/4	53213	58071
7.5 mm	.2953	34 mm	74 mm	63016	69010
19/64	.2969	2-3/8	3-3/4	53119	58072
7.6 mm	.2992	37 mm	79 mm	63073	69011
N	.3020	2-3/8	3-3/4	53214	58073
7.7 mm	.3031	37 mm	79 mm	63074	69012
7.8 mm	.3071	37 mm	79 mm	63075	69013
7.9 mm	.3110	37 mm	79 mm	63076	69014
5/16	.3125	2-3/8	3-3/4	53120	58074
8 mm	.3150	37 mm	79 mm	63017	69015
O	.3160	2-3/8	3-3/4	53215	58075
8.1 mm	.3189	37 mm	79 mm	63077	69016
8.2 mm	.3228	37 mm	79 mm	63018	69017
P	.3230	2-3/8	3-3/4	53216	58076
8.3 mm	.3268	37 mm	79 mm	63078	69018
21/64	.3281	2-1/2	4	53121	58077
8.4 mm	.3307	37 mm	79 mm	63019	69019

**Série 103 - Forets à  
3 arêtes**



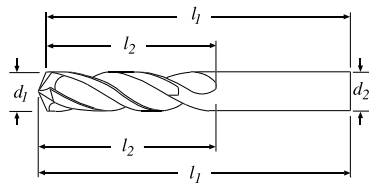
Carbure monobloc, micrograin  
Pour fonte, aluminium à grande  
teneur en silice, acier allié et  
métaux non-ferreux Angle d'entrée,  
150° - Hélice, 30° - Forets pour  
fonte, aluminium à forte teneur en  
silicium, acier allié et métaux non  
ferreux - Plus grande précision de  
dimension du trou à des vitesses  
de production élevées - Réduit la  
déviation du foret comparée aux  
forets en aciers rapides, au cobalt et  
autres forets au carbure.

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continued on next page

### 3 Flute – Single End



#### TOLERANCES

$$d_1 = +.0000 - .0005$$

$$d_2 = h6$$



#### Series 103 – 3 Flute Drills

#### Serie 103 – Brocas de 3 filos

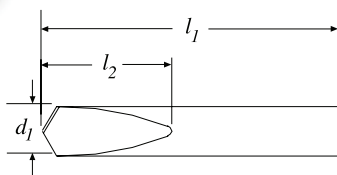
#### Série 103 – Forets à 3 arêtes

Size	Decimal Equiv.	Flute Length	Overall Length	Uncoated EDP No.	Ti-NAMITE-A (AlTiN) EDP No.
$d_1$		$l_2$	$l_1$		
Q	.3320	2-1/2	4	53217	58078
8.5 mm	.3346	37 mm	79 mm	63020	69020
8.6 mm	.3386	40 mm	84 mm	63021	69021
R	.3390	2-1/2	4	53218	58079
8.7 mm	.3425	40 mm	84 mm	63079	69022
11/32	.3438	2-1/2	4	53122	58080
8.8 mm	.3465	40 mm	84 mm	63022	69023
S	.3480	2-1/2	4	53219	58081
8.9 mm	.3504	40 mm	84 mm	63080	69024
9 mm	.3543	40 mm	84 mm	63023	69025
T	.3580	2-3/4	4-1/4	53220	58082
9.1 mm	.3583	40 mm	84 mm	63081	69026
23/64	.3594	2-3/4	4-1/4	53123	58083
9.2 mm	.3622	40 mm	84 mm	63024	69027
9.3 mm	.3661	40 mm	84 mm	63082	69028
U	.3680	2-3/4	4-1/4	53221	58084
9.4 mm	.3701	40 mm	84 mm	63083	69029
9.5 mm	.3740	40 mm	84 mm	63025	69030
3/8	.3750	2-3/4	4-1/4	53124	58085
V	.3770	2-3/4	4-1/4	53222	58086
9.6 mm	.3780	43 mm	89 mm	63084	69031
9.7 mm	.3819	43 mm	89 mm	63085	69032
9.8 mm	.3858	43 mm	89 mm	63086	69033
W	.3860	2-7/8	4-1/2	53223	58087
9.9 mm	.3898	43 mm	89 mm	63087	69034
25/64	.3906	2-7/8	4-1/2	53125	58088
10 mm	.3937	43 mm	89 mm	63026	69035
X	.3970	2-7/8	4-1/2	53224	58089
10.1 mm	.3976	43 mm	89 mm	63088	69036
10.2 mm	.4016	43 mm	89 mm	63027	69037
Y	.4040	2-7/8	4-1/2	53225	58090
13/32	.4062	2-7/8	4-1/2	53126	58091
10.4 mm	.4094	43 mm	89 mm	63028	69038
Z	.4130	2-7/8	4-1/2	53226	58092
10.5 mm	.4134	43 mm	89 mm	63029	69039
10.7 mm	.4213	47 mm	95 mm	63030	69040
27/64	.4219	2-7/8	4-1/2	53127	58093
10.8 mm	.4252	47 mm	95 mm	63031	69041
11 mm	.4331	47 mm	95 mm	63032	69042
7/16	.4375	2-7/8	4-1/2	53128	58094
11.5 mm	.4528	47 mm	95 mm	63033	69043
29/64	.4531	3	4-3/4	53129	58095
15/32	.4688	3	4-3/4	53130	58096
12 mm	.4724	51 mm	102 mm	63034	69044
31/64	.4844	3	4-3/4	53131	58097
12.5 mm	.4921	51 mm	102 mm	63035	69045
1/2	.5000	3	4-3/4	53132	58098
12.8 mm	.5039	51 mm	102 mm	63036	69046
13 mm	.5118	51 mm	102 mm	63089	69047
33/64	.5156	3	4-3/4	53135	58099
13.1 mm	.5157	51 mm	102 mm	63037	69048
13.5 mm	.5315	54 mm	107 mm	63090	69049
14 mm	.5512	54 mm	107 mm	63038	69050
9/16	.5625	3	4-3/4	53136	58100
14.3 mm	.5630	56 mm	111 mm	63039	69051
14.5 mm	.5709	56 mm	111 mm	63040	69052
15 mm	.5906	56 mm	111 mm	63091	69053
5/8	.6250	3-1/2	5-3/4	53133	58101
11/16	.6875	3-1/2	5-3/4	53137	58102
17.5 mm	.6890	62 mm	123 mm	63041	69054
3/4	.7500	4-1/2	5-3/4	53134	58103
19.5 mm	.7677	66 mm	131 mm	63042	69055
20 mm	.7874	66 mm	131 mm	63043	69056

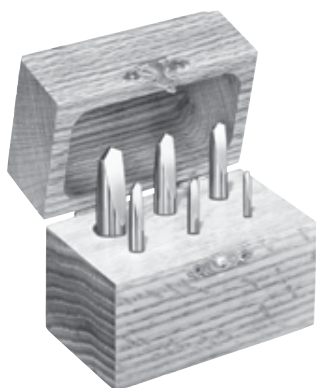


## Single End – Flat Drill

**TOLERANCES**  
 $d_1 = +.0000 - .0005$



Diameter $d_1$	Flute Length $l_2$	Overall Length $l_1$	Uncoated EDP No.
1/32	3/16	1-1/4	54102
1/16	5/16	1-1/2	54104
3/32	7/16	1-1/2	54106
*1/8	1/2	1-1/2	54108
5/32	9/16	2	54110
*3/16	11/16	2	54112
7/32	11/16	2	54114
*1/4	13/16	2	54116
9/32	7/8	2-1/2	54118
*5/16	7/8	2-1/2	54120
11/32	15/16	2-1/2	54122
*3/8	1-1/8	2-1/2	54124
13/32	1-1/8	2-1/2	54126
7/16	1-3/16	2-3/4	54128
15/32	1-3/16	3	54130
*1/2	1-5/16	3	54132
* Series 104 Set			54175



### Series 104 – Flat Drill

Micrograin Solid Carbide  
 118° Point Angle

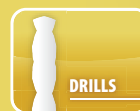
### Serie 104 – Brocas Planas

Carburo sólido con micrograno  
 Para el mecanizado de materiales  
 duro Angulo punta 118°

### Série 104 – Forets à langue d'aspic

Carbure monobloc, micrograin  
 Point à 118°

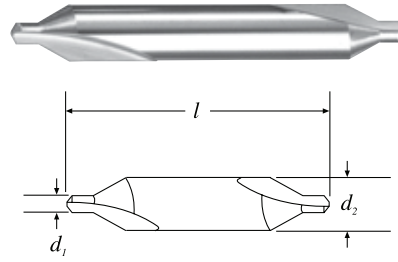
**DRILLS**  
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## Double End – Combined Drill and Countersink

Fractional Series

# 301



### TOLERANCES

$d_1 = +.003 - .000$   
 $d_2 = -.0001 - .0005$

### Series 301 – Combined Drill and Countersink



Micrograin Solid Carbide  
60° Included Angle, Double End

### Serie 301 – Broca de centros



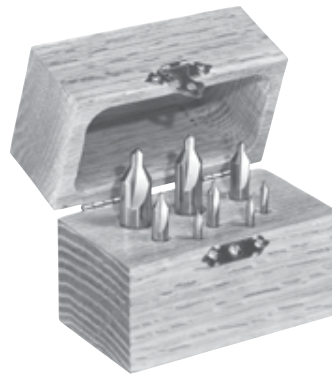
Carburo sólido con micrograno  
Angulo doble punta 60°

### Série 301 – Forêt à centrer



Carbure monobloc, micrograin  
Angle de dégagement, 60°

Sizes	Body Diameter $d_2$	Drill Diameter $d_1$	Aprox. Overall Length l	Uncoated EDP No.	Ti-NAMITE-A (AlTiN) EDP No.
*00	1/8	0.025	1-1/2	57005	57015
*0	1/8	1/32	1-1/2	57006	57016
*1	1/8	3/64	1-1/2	57007	57017
*2	3/16	5/64	1-7/8	57008	57018
*3	1/4	7/64	2	57009	57019
*4	5/16	1/8	2-1/8	57010	57020
*5	7/16	3/16	2-3/4	57011	57021
*6	1/2	7/32	3	57012	57022
* Series 301 Set				57075	



Metric Series

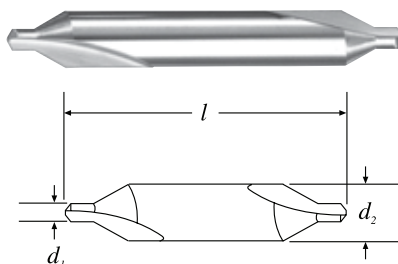
**301M**

## Double End – Combined Drill and Countersink – DIN 333



www.sgstool.com

d <sub>1</sub> TOLERANCES		d <sub>2</sub> TOLERANCES h9	
mm	mm	mm	mm
0,5 – 2,5	=+0,140–0,000	0,5 – 3	=+0,000–0,025
>2,5 – 5	=+0,000–0,012	>3 – 5	=+0,000–0,030



Size	Body Diameter	Overall Length	Uncoated EDP No.	Ti-NAMITE-A (AlTiN) EDP No.
d <sub>1</sub> mm	d <sub>2</sub> mm	l mm		
0,5	3,15	20	67005	67035
0,8	3,15	20	67007	67037
1	3,15	31,5	67009	67039
1,25	3,15	31,5	67011	67041
1,6	4	35,5	67013	67043
2	5	40	67015	67045
2,5	6,3	45	67017	67047
3,15	8	50	67019	67049
4	10	56	67021	67051
5	12,5	63	67023	67053

### 301M DIN 333 – Combined Drill and Countersink

Micrograin Solid Carbide  
60° Included Angle, Double End

### 301M DIN 333 – Broca de centros

Carburo sólido con micrograno  
Angulo doble punta 60°

### 301M DIN 333 – Foret à centrer

Carbure monobloc, micrograin  
Angle de dégagement, 60°

**DRILLS**  
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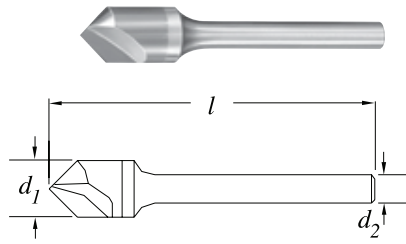




## Countersink – Single Flute – Single End

Fractional Series

**601**



### TOLERANCES

INCLUDED ANGLE = +1°/-1°  
 $d_1 = 1/8 - 1/4 = +.0000 - .0005$   
 $d_1 = 3/8 - 1 = +.003 - .000$

### Series 601 – Single Flute Countersink



Micrograin Solid Carbide  
 Eccentric relief design – Use on soft materials

### Serie 601 – Avellanador de un filo Countersink



Carburo sólido con micrograno  
 Diseño de destalonado excéntrico – utilización en materiales blandos

### Série 601 – Foret aléteur à goujure unique



Carbure monobloc, micrograin  
 Conception à dépouille excentrique – Utilisation sur matériaux tendres

### Series 603 – 3 Flute Countersink



Micrograin Solid Carbide  
 Eccentric relief design – Use on general purpose materials

### Serie 603 – Avellanador de 3 filos



Carburo sólido con micrograno  
 Diseño de destalonado excéntrico – utilización en materiales de uso general

### Série 603 – Foret aléteur à 3 dents



Carbure monobloc, micrograin  
 Conception à dépouille excentrique – Utilisation sur matériaux universels

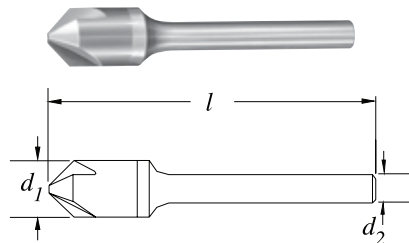
Cutter Diameter $d_1$	Shank Diameter $d_2$	Overall Length $l$	Uncoated		
			60° EDP No.	82° EDP No.	90° EDP No.
1/8	1/8	1-1/2	74001	74101	74201
3/16	3/16	2	74004	74104	74204
1/4	1/4	2	74007	74107	74207
*3/8	1/4	2-13/16	74010	74110	74210
*1/2	1/4	2-7/8	74013	74113	74213
*5/8	3/8	3	74016	74116	74216
*3/4	1/2	3	74019	74119	74219
*1	1/2	3-1/4	74022	74122	74222

\*Steel Shank • Con mango de acero • Avec queue en acier

## Countersink – 3 Flute – Single End

Fractional Series

**603**



### TOLERANCES

INCLUDED ANGLE = +1°/-1°  
 $d_1 = 1/8 - 1/4 = +.0000 - .0005$   
 $d_1 = 3/8 - 1 = +.003 - .000$

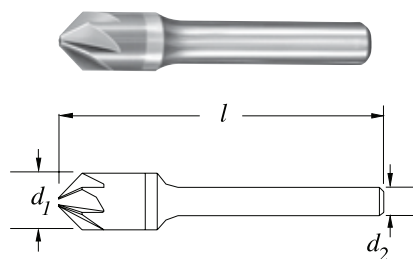
Cutter Diameter $d_1$	Shank Diameter $d_2$	Overall Length $l$	Uncoated		
			60° EDP No.	82° EDP No.	90° EDP No.
1/8	1/8	1-1/2	74025	74125	74225
3/16	3/16	2	74028	74128	74228
1/4	1/4	2	74031	74131	74231
*3/8	1/4	2-13/16	74034	74134	74234
*1/2	1/4	2-7/8	74037	74137	74237
*5/8	3/8	3	74040	74140	74240
*3/4	1/2	3	74043	74143	74243
*1	1/2	3-1/4	74046	74146	74246

\*Steel Shank • Con mango de acero • Avec queue en acier

**Countersink – 6 Flute – Single End**

**TOLERANCES**

INCLUDED ANGLE = +1°/-1°  
 $d_1 = 1/8 - 1/4 = +.0000 - .0005$   
 $d_1 = 3/8 - 1 = +.003 - .000$



Cutter Diameter $d_1$	Shank Diameter $d_2$	Overall Length $l$	Uncoated		
			60° EDP No.	82° EDP No.	90° EDP No.
1/8	1/8	1-1/2	74049	74149	74249
3/16	3/16	2	74052	74152	74252
1/4	1/4	2	74055	74155	74255
*3/8	1/4	2-13/16	74058	74158	74258
*1/2	1/4	2-7/8	74061	74161	74261
*5/8	3/8	3	74064	74164	74264
*3/4	1/2	3	74067	74167	74267
*1	1/2	3-1/4	74070	74170	74270

\*Steel Shank • Con mango de acero • Avec queue en acier

**Series 606 – 6 Flute Countersink**



Micrograin Solid Carbide  
 Conventional relief design – Use on hardened steel

**Serie 606 – Avellanador de 6 filos**



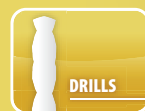
Carburo sólido con micrograno  
 Diseño de destalonado excéntrico – utilización en acero templado

**Série 606 – Foret aléseur à 6 dents**

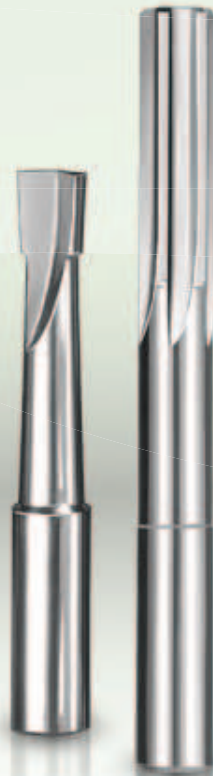
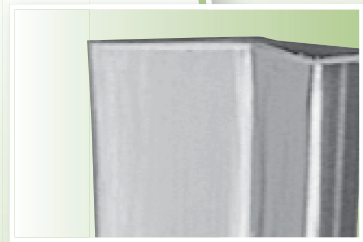


Carbure monobloc, micrograin  
 Conception à dépouille excentrique – Utilisation sur acier trempé

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# MISCELLANEOUS



## **Miscellaneous**

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## **Varios**

Varios	Series	Includes	Page
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## **Divers**

Divers	Series	Includes	Page
Série Courte – Queue Standard Goujures Droites	200		228 – 229
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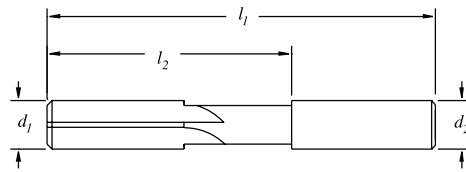
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## Accu-Reamer – Straight Flute

Fractional Series

# 200



### TOLERANCES

$$d_1 = +.0002 - .0000$$

$$d_2 = +.0002 - .0000$$

### Series 200 • 200M Reamers – Fractional/Decimal

Micrograin Solid Carbide  
Short Series Reamer – Common  
shank – Straight Flutes –  
Right Hand Cutting

### Escariadores 200 • 200M – Pulgadas/Milímetros

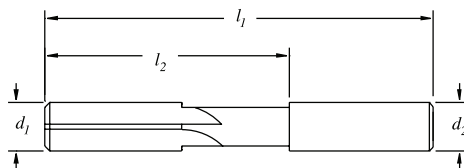
Carburo sólido con micrograno –  
Escariadores de serie corta – mango  
usual Filos rectos – corte a derecha

### Série 200 Alésoirs • 200M – Courts/Décimaux

Carbure monobloc micrograin  
Série courte – Queue standard  
Goujures droites – Coupe à droite

Reamer Diameter $d_1$	Shank Diameter $d_2$	Maximum Ream Length $l_2$	Overall Length $l_1$	No. of Flutes $Z$	Uncoated EDP No.
3/64	3/64	3/4	1-1/2	4	70003
1/16	1/16	3/4	1-1/2	4	70004
5/64	5/64	1	2	4	70005
3/32	3/32	1-1/4	2-1/4	4	70006
7/64	7/64	1-1/4	2-1/4	4	70007
1/8	1/8	1-1/4	2-1/4	4	70008
9/64	9/64	1-1/2	2-1/2	4	70009
5/32	5/32	1-1/2	2-1/2	4	70010
11/64	11/64	1-3/4	2-3/4	4	70011
3/16	3/16	1-3/4	2-3/4	4	70012
13/64	13/64	2	3	4	70013
7/32	7/32	2	3	4	70014
15/64	15/64	2	3	4	70015
1/4	1/4	2	3	4	70016
17/64	17/64	2-1/4	3-1/4	6	70017
9/32	9/32	2-1/4	3-1/4	6	70018
19/64	19/64	2-1/4	3-1/4	6	70019
5/16	5/16	2-1/4	3-1/4	6	70020
21/64	21/64	2-3/8	3-1/2	6	70021
11/32	11/32	2-3/8	3-1/2	6	70022
23/64	23/64	2-3/8	3-1/2	6	70023
3/8	3/8	2-3/8	3-1/2	6	70024
25/64	25/64	2-7/8	4	6	70025
13/32	13/32	2-7/8	4	6	70026
27/64	27/64	2-7/8	4	6	70027
7/16	7/16	2-7/8	4	6	70028
29/64	29/64	2-7/8	4	6	70029
15/32	15/32	2-7/8	4	6	70030
31/64	31/64	2-7/8	4	6	70031
1/2	1/2	2-7/8	4	6	70032

### Accu-Reamer – Straight Flute

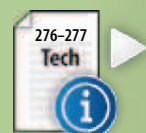


**TOLERANCES**

$d_1 = +.0002 - .0000$

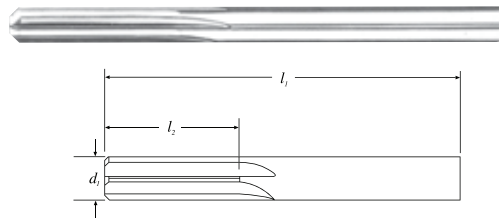
$d_2 = +.0002 - .0000$

Reamer Diameter $d_1$	Shank Diameter $d_2$	Maximum Ream Length $l_2$	Overall Length $l_1$	No. of Flutes $z$
.0470 – .0625	1/16	3/4	1-1/2	4
.0626 – .0781	5/64	1	2	4
.0782 – .0938	3/32	1-1/4	2-1/4	4
.0939 – .1094	7/64	1-1/4	2-1/4	4
.1095 – .1250	1/8	1-1/4	2-1/4	4
.1251 – .1406	9/64	1-1/2	2-1/2	4
.1407 – .1563	5/32	1-1/2	2-1/2	4
.1564 – .1719	11/64	1-3/4	2-3/4	4
.1720 – .1875	3/16	1-3/4	2-3/4	4
.1876 – .2031	13/64	2	3	4
.2032 – .2188	7/32	2	3	4
.2189 – .2344	15/64	2	3	4
.2345 – .2500	1/4	2	3	4
.2501 – .2656	17/64	2-1/4	3-1/4	6
.2657 – .2813	9/32	2-1/4	3-1/4	6
.2814 – .2969	19/64	2-1/4	3-1/4	6
.2970 – .3125	5/16	2-1/4	3-1/4	6
.3126 – .3281	21/64	2-3/8	3-1/2	6
.3282 – .3438	11/32	2-3/8	3-1/2	6
.3439 – .3594	23/64	2-3/8	3-1/2	6
.3595 – .3750	3/8	2-3/8	3-1/2	6
.3751 – .3906	25/64	2-7/8	4	6
.3907 – .4063	13/32	2-7/8	4	6
.4064 – .4219	27/64	2-7/8	4	6
.4220 – .4375	7/16	2-7/8	4	6
.4376 – .4531	29/64	2-7/8	4	6
.4532 – .4688	15/32	2-7/8	4	6
.4689 – .4844	31/64	2-7/8	4	6
.4845 – .5000	1/2	2-7/8	4	6





## Straight Flute



Metric Series **201M**

### TOLERANCES

d=1mm – 6mm = +0,008–0,000  
>6mm – 10mm = +0,011–0,00

### 201M – Reamers



Micrograin Solid Carbide  
Straight Shank, Right Hand Cutting

### Series 801 – Jig Boring Tools



Micrograin Solid Carbide  
Straight Flute – Right Hand Cutting  
– Straight Shank

\*“Minimum Hole Diameter”  
dimensions shown are the  
minimum hole size which can be  
bored.

\*\*“Maximum Depth of Hole”  
dimensions shown are the  
maximum depth that can be bored.

### 201M – Escariadores



Metal duro con micrograno  
Diente recto, corte a derecha

### Herramientas de mandrinar Serie 801



Carburo sólido con micrograno  
Filo recto – corte a derecha –  
mango cilíndrico

\*“Diámetro de agujero mínimo”  
en las dimensiones mostradas son  
la medida mínima de agujero que  
puede ser mandrinado

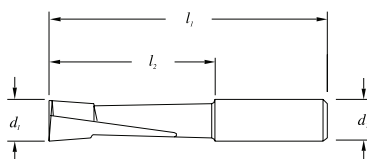
\*\*“Profundidad máxima de  
agujero” en las dimensiones  
mostradas son la profundidad  
máxima que puede ser mandrinada.

Reamer Diameter $d_1$ mm	Overall Length $l_1$ mm	Ream Length $l_2$ mm	Flutes	EDP No.
1	32	6	4	81001
1,5	38	9,5	4	81003
2	44	12,7	4	81005
2,5	50	12,7	4	81007
3	57	16	4	81009
3,5	63	19	4	81011
4	63	19	4	81013
4,5	70	22	4	81015
5	75	25	4	81017
5,5	75	25	4	81019
6	75	25	4	81021
7	82	28	6	81023
8	82	28	6	81025
9	89	31	6	81027
10	89	31	6	81029

Jig Boring Tools

**TOLERANCES**

$$d_1 = +.0001 - .0004$$



Minimum Hole Diameter* $d_1$	Maximum Depth of Hole** $l_2$	Shank Diameter $d_2$	Overall Length $l_1$	Uncoated EDP No.
.090	1/2	1/8	1-1/2	75001
.120	5/8	1/8	1-1/2	75002
.150	3/4	3/16	2	75003
.180	1	3/16	2	75004
.210	1-1/4	1/4	2	75005
.240	1-1/4	1/4	2	75006
.270	1-1/4	5/16	2-1/4	75007
.300	1-1/4	5/16	2-1/4	75008
.330	1-1/2	3/8	2-1/2	75009
.360	1-1/2	3/8	2-1/2	75010

**201M – Alésoirs**



Carbure monobloc, micrograin  
Queue droite – Coupe à droite

**801 Outils à aléser et pointer**



Carbure monobloc micrograin  
Goujure droite – Coupe à droite –  
Queue cylindrique

\* Les dimensions "Diamètre minimum du trou" indiquées représentent la taille de trou minimum qui peut être alésée.

\*\* Les dimensions "Profondeur maximum du trou" indiquées représentent la profondeur maximum qui peut être alésée.

