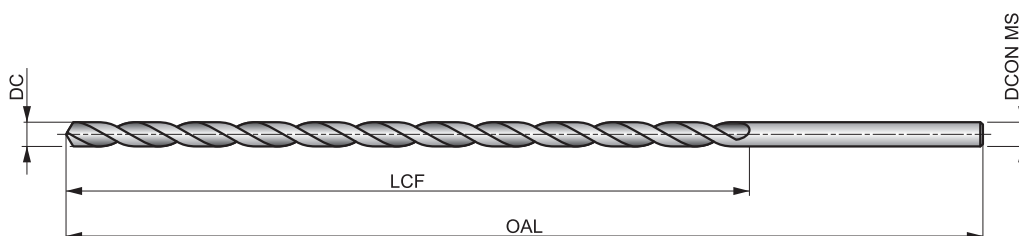


# A125



## Broca HSS Serie Extra Larga, Acabado Templado al Vapor

Con acabado templado al vapor y recomendada para agujeros muy profundos o de difícil acceso. Punta convencional a 118°, que proporciona resistencia y ahorra costes en reafilados fáciles. El acabado templado al vapor retiene el fluido de corte y evita la soldadura de la viruta a la herramienta. Menos adecuado para el taladrado manual.



HSS	BS 328	10×D
118°	ST	
λ 20-35°	R	DC h8

Grupo de Material de la pieza adecuado y condiciones de velocidad de corte iniciales (m/min) y código de avance alfabético. Tablas con avance por revolución a partir de la pag.71.

<b>P1.1</b> ■ 21 E	<b>P1.2</b> ■ 24 E	<b>P1.3</b> ■ 25 E	<b>P2.1</b> ■ 18 E	<b>P2.2</b> ■ 16 C	<b>P2.3</b> ■ 14 A	<b>P3.1</b> ■ 9 C	<b>P3.2</b> ■ 7 C	<b>P3.3</b> ■ 6 A	<b>P4.1</b> ■ 5 C	<b>P4.2</b> ■ 4 A	<b>P4.3</b> ■ 4 A	<b>M1.1</b> ■ 12 C	<b>M1.2</b> ■ 10 C
<b>M2.1</b> ■ 11 C	<b>M2.2</b> ■ 9 C	<b>M3.1</b> ■ 5 E	<b>M3.2</b> ■ 4 E	<b>M3.3</b> ■ 4 E	<b>M4.1</b> ■ 8 A	<b>K1.1</b> ■ 22 G	<b>K1.2</b> ■ 16 D	<b>K1.3</b> ■ 12 D	<b>K2.1</b> ■ 16 C	<b>K2.2</b> ■ 13 C	<b>K2.3</b> ■ 10 C	<b>K3.1</b> ■ 14 C	<b>K3.2</b> ■ 11 C
<b>K3.3</b> ■ 9 C	<b>K4.1</b> ■ 13 C	<b>K4.2</b> ■ 10 C	<b>K4.3</b> ■ 7 C	<b>K4.4</b> ■ 6 C	<b>K4.5</b> ■ 5 C	<b>K5.1</b> ■ 15 C	<b>K5.2</b> ■ 11 C	<b>K5.3</b> ■ 9 C	<b>N1.1</b> ■ 24 H	<b>N1.2</b> ■ 18 H	<b>N1.3</b> ■ 12 G	<b>N2.1</b> ■ 34 F	<b>N2.2</b> ■ 30 F
<b>N2.3</b> ■ 22 F	<b>N3.1</b> ■ 56 F	<b>N3.2</b> ■ 33 G	<b>N3.3</b> ■ 17 D	<b>N4.1</b> ■ 30 H	<b>N4.2</b> ■ 26 F	<b>N4.3</b> ■ 10 D	<b>S1.1</b> ■ 11 D	<b>S1.2</b> ■ 9 B	<b>S1.3</b> ■ 5 A	<b>S2.1</b> ■ 5 C	<b>S2.2</b> ■ 4 A	<b>S3.1</b> ■ 4 C	<b>S3.2</b> ■ 3 A
<b>S4.1</b> ■ 3 C	<b>S4.2</b> ■ 2 A												

DC <= 2.2mm; 5/64" Brillante

Producto	DC (inch)	DC (mm)	DC (inch)	LCF (mm)	OAL (mm)	DCON MS (mm)
A1251.4X160	-	1.40	0.0551	100.0	160.0	1.40
A1251.5X125	-	1.50	0.0591	80.0	125.0	1.50
A1251.5X160	-	1.50	0.0591	100.0	160.0	1.50
A1251/16X125	1/16	1.59	0.0625	80.0	125.0	1.59
A1251/16X160	1/16	1.59	0.0625	100.0	160.0	1.59
A1251.8X160	-	1.80	0.0709	100.0	160.0	1.80
A1255/64X125	5/64	1.98	0.0781	80.0	125.0	1.98
A1255/64X160	5/64	1.98	0.0781	100.0	160.0	1.98
A1252.0X125	-	2.00	0.0787	80.0	125.0	2.00
A1252.0X160	-	2.00	0.0787	100.0	160.0	2.00
A1252.2X160	-	2.20	0.0866	100.0	160.0	2.20
A1253/32X125	3/32	2.38	0.0938	80.0	125.0	2.38
A1253/32X160	3/32	2.38	0.0938	100.0	160.0	2.38
A1252.5X125	-	2.50	0.0984	80.0	125.0	2.50
A1252.5X160	-	2.50	0.0984	100.0	160.0	2.50
A1257/64X125	7/64	2.78	0.1094	80.0	125.0	2.78
A1257/64X160	7/64	2.78	0.1094	100.0	160.0	2.78
A1253.0X160	-	3.00	0.1181	100.0	160.0	3.00
A1253.0X200	-	3.00	0.1181	150.0	200.0	3.00
A1253.0X250	-	3.00	0.1181	200.0	250.0	3.00
A1251/8X160	1/8	3.18	0.1252	100.0	160.0	3.18
A1251/8X200	1/8	3.18	0.1252	150.0	200.0	3.18
A1251/8X250	1/8	3.18	0.1252	200.0	250.0	3.18
A1251/8X315	1/8	3.18	0.1252	250.0	310.0	3.18
A1253.3X160	-	3.30	0.1299	100.0	160.0	3.30
A1253.5X160	-	3.50	0.1378	100.0	160.0	3.50

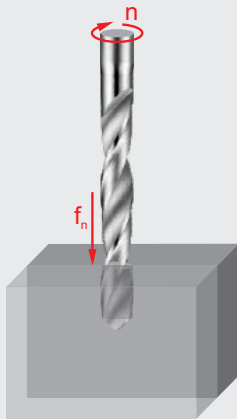
Producto	DC (inch)	DC (mm)	DC (inch)	LCF (mm)	OAL (mm)	DCON MS (mm)
A1253.5X200	-	3.50	0.1378	150.0	200.0	3.50
A1253.5X250	-	3.50	0.1378	200.0	250.0	3.50
A1259/64X160	9/64	3.57	0.1406	100.0	160.0	3.57
A1259/64X200	9/64	3.57	0.1406	150.0	200.0	3.57
A1259/64X315	9/64	3.57	0.1406	250.0	310.0	3.57
A1255/32X160	5/32	3.97	0.1563	100.0	160.0	3.97
A1255/32X200	5/32	3.97	0.1563	150.0	200.0	3.97
A1255/32X250	5/32	3.97	0.1563	200.0	250.0	3.97
A1255/32X315	5/32	3.97	0.1563	250.0	310.0	3.97
A1254.0X160	-	4.00	0.1575	100.0	160.0	4.00
A1254.0X200	-	4.00	0.1575	150.0	200.0	4.00
A1254.0X250	-	4.00	0.1575	200.0	250.0	4.00
A1254.0X315	-	4.00	0.1575	250.0	310.0	4.00
A12511/64X160	11/64	4.37	0.1719	100.0	160.0	4.37
A12511/64X200	11/64	4.37	0.1719	150.0	200.0	4.37
A12511/64X315	11/64	4.37	0.1719	250.0	310.0	4.37
A1254.5X160	-	4.50	0.1772	100.0	160.0	4.50
A1254.5X200	-	4.50	0.1772	150.0	200.0	4.50
A1254.5X250	-	4.50	0.1772	200.0	250.0	4.50
A1254.5X315	-	4.50	0.1772	250.0	310.0	4.50
A1253/16X160	3/16	4.76	0.1875	100.0	160.0	4.76
A1253/16X200	3/16	4.76	0.1875	150.0	200.0	4.76
A1253/16X250	3/16	4.76	0.1875	200.0	250.0	4.76
A1253/16X315	3/16	4.76	0.1875	250.0	310.0	4.76
A1253/16X400	3/16	4.76	0.1875	300.0	400.0	4.76
A1255.0X160	-	5.00	0.1969	100.0	160.0	5.00



Producto	DC	DC	DC	LCF	OAL	DCON MS
	(inch)	(mm)	(inch)	(mm)	(mm)	(mm)
A1255.0X200	–	5.00	0.1969	150.0	200.0	5.00
A1255.0X250	–	5.00	0.1969	200.0	250.0	5.00
A1255.0X315	–	5.00	0.1969	250.0	310.0	5.00
A1255.0X400	–	5.00	0.1969	300.0	400.0	5.00
A12513/64X200	13/64	5.16	0.2031	150.0	200.0	5.16
A12513/64X250	13/64	5.16	0.2031	200.0	250.0	5.16
A12513/64X315	13/64	5.16	0.2031	250.0	310.0	5.16
A1255.5X200	–	5.50	0.2165	150.0	200.0	5.50
A1255.5X250	–	5.50	0.2165	200.0	250.0	5.50
A1255.5X315	–	5.50	0.2165	250.0	310.0	5.50
A1257/32X200	7/32	5.56	0.2188	150.0	200.0	5.56
A1257/32X250	7/32	5.56	0.2188	200.0	250.0	5.56
A1257/32X315	7/32	5.56	0.2188	250.0	310.0	5.56
A12515/64X200	15/64	5.95	0.2344	150.0	200.0	5.95
A12515/64X250	15/64	5.95	0.2344	200.0	250.0	5.95
A12515/64X315	15/64	5.95	0.2344	250.0	310.0	5.95
A1256.0X200	–	6.00	0.2362	150.0	200.0	6.00
A1256.0X250	–	6.00	0.2362	200.0	250.0	6.00
A1256.0X315	–	6.00	0.2362	250.0	310.0	6.00
A1256.0X400	–	6.00	0.2362	300.0	400.0	6.00
A1251/4X200	1/4	6.35	0.2500	150.0	200.0	6.35
A1251/4X250	1/4	6.35	0.2500	200.0	250.0	6.35
A1251/4X315	1/4	6.35	0.2500	250.0	310.0	6.35
A1251/4X400	1/4	6.35	0.2500	300.0	400.0	6.35
A1251/4X500	1/4	6.35	0.2500	400.0	460.0	6.35
A1256.5X200	–	6.50	0.2559	150.0	200.0	6.50
A1256.5X250	–	6.50	0.2559	200.0	250.0	6.50
A1256.5X315	–	6.50	0.2559	250.0	310.0	6.50
A12517/64X200	17/64	6.75	0.2656	150.0	200.0	6.75
A12517/64X250	17/64	6.75	0.2656	200.0	250.0	6.75
A12517/64X315	17/64	6.75	0.2656	250.0	310.0	6.75
A12517/64X500	17/64	6.75	0.2656	400.0	460.0	6.75
A1257.0X200	–	7.00	0.2756	150.0	200.0	7.00
A1257.0X250	–	7.00	0.2756	200.0	250.0	7.00
A1257.0X315	–	7.00	0.2756	250.0	310.0	7.00
A1259/32X200	9/32	7.14	0.2813	150.0	200.0	7.14
A1259/32X250	9/32	7.14	0.2813	200.0	250.0	7.14
A1259/32X315	9/32	7.14	0.2813	250.0	310.0	7.14
A1259/32X500	9/32	7.14	0.2813	400.0	460.0	7.14
A1257.5X200	–	7.50	0.2953	150.0	200.0	7.50
A1257.5X250	–	7.50	0.2953	200.0	250.0	7.50
A1257.5X315	–	7.50	0.2953	250.0	310.0	7.50
A12519/64X315	19/64	7.54	0.2969	250.0	310.0	7.54
A12519/64X500	19/64	7.54	0.2969	400.0	460.0	7.54
A1255/16X200	5/16	7.94	0.3125	150.0	200.0	7.94
A1255/16X250	5/16	7.94	0.3125	200.0	250.0	7.94
A1255/16X315	5/16	7.94	0.3125	250.0	310.0	7.94
A1255/16X400	5/16	7.94	0.3125	300.0	400.0	7.94
A1255/16X500	5/16	7.94	0.3125	400.0	460.0	7.94
A1258.0X250	–	8.00	0.3150	200.0	250.0	8.00
A1258.0X315	–	8.00	0.3150	250.0	310.0	8.00
A1258.0X400	–	8.00	0.3150	300.0	400.0	8.00
A12521/64X315	21/64	8.33	0.3281	250.0	310.0	8.33
A12521/64X500	21/64	8.33	0.3281	400.0	460.0	8.33
A1258.5X250	–	8.50	0.3346	200.0	250.0	8.50
A1258.5X315	–	8.50	0.3346	250.0	310.0	8.50
A12511/32X250	11/32	8.73	0.3438	200.0	250.0	8.73
A12511/32X315	11/32	8.73	0.3438	250.0	310.0	8.73
A12511/32X400	11/32	8.73	0.3438	300.0	400.0	8.73
A12511/32X500	11/32	8.73	0.3438	400.0	460.0	8.73
A1259.0X250	–	9.00	0.3543	200.0	250.0	9.00
A1259.0X315	–	9.00	0.3543	250.0	310.0	9.00
A1259.0X400	–	9.00	0.3543	300.0	400.0	9.00
A12523/64X315	23/64	9.13	0.3594	250.0	310.0	9.13
A12523/64X500	23/64	9.13	0.3594	400.0	460.0	9.13
A1259.5X250	–	9.50	0.3740	200.0	250.0	9.50
A1259.5X315	–	9.50	0.3740	250.0	310.0	9.50
A1253/8X250	3/8	9.52	0.3750	200.0	250.0	9.52
A1253/8X315	3/8	9.52	0.3750	250.0	310.0	9.52
A1253/8X400	3/8	9.52	0.3750	300.0	400.0	9.52

Producto	DC	DC	DC	LCF	OAL	DCON MS
	(inch)	(mm)	(inch)	(mm)	(mm)	(mm)
A1253/8X500	3/8	9.52	0.3750	400.0	460.0	9.52
A12525/64X315	25/64	9.92	0.3906	250.0	310.0	9.92
A12525/64X500	25/64	9.92	0.3906	400.0	460.0	9.92
A12510.0X250	–	10.00	0.3937	200.0	250.0	10.00
A12510.0X315	–	10.00	0.3937	250.0	310.0	10.00
A12510.0X400	–	10.00	0.3937	300.0	400.0	10.00
A12513/32X250	13/32	10.32	0.4063	200.0	250.0	10.32
A12513/32X315	13/32	10.32	0.4063	250.0	310.0	10.32
A12513/32X500	13/32	10.32	0.4063	400.0	460.0	10.32
A12510.5X250	–	10.50	0.4134	200.0	250.0	10.50
A12510.5X315	–	10.50	0.4134	250.0	310.0	10.50
A12510.5X400	–	10.50	0.4134	300.0	400.0	10.50
A12527/64X315	27/64	10.72	0.4219	250.0	310.0	10.72
A12511.0X250	–	11.00	0.4331	200.0	250.0	11.00
A12511.0X315	–	11.00	0.4331	250.0	310.0	11.00
A12511.0X400	–	11.00	0.4331	300.0	400.0	11.00
A1257/16X250	7/16	11.11	0.4375	200.0	250.0	11.11
A1257/16X315	7/16	11.11	0.4375	250.0	310.0	11.11
A1257/16X400	7/16	11.11	0.4375	300.0	400.0	11.11
A1257/16X500	7/16	11.11	0.4375	400.0	460.0	11.11
A12529/64X315	29/64	11.51	0.4531	250.0	310.0	11.51
A12529/64X500	29/64	11.51	0.4531	400.0	460.0	11.51
A12515/32X250	15/32	11.91	0.4688	200.0	250.0	11.91
A12515/32X315	15/32	11.91	0.4688	250.0	310.0	11.91
A12515/32X500	15/32	11.91	0.4688	400.0	460.0	11.91
A12512.0X250	–	12.00	0.4724	200.0	250.0	12.00
A12512.0X315	–	12.00	0.4724	250.0	310.0	12.00
A12512.0X400	–	12.00	0.4724	300.0	400.0	12.00
A12531/64X315	31/64	12.30	0.4844	250.0	310.0	12.30
A12531/64X500	31/64	12.30	0.4844	400.0	460.0	12.30
A1251/2X250	1/2	12.70	0.5000	200.0	250.0	12.70
A1251/2X315	1/2	12.70	0.5000	250.0	310.0	12.70
A1251/2X400	1/2	12.70	0.5000	300.0	400.0	12.70
A1251/2X500	1/2	12.70	0.5000	400.0	460.0	12.70
A12513.0X315	–	13.00	0.5118	250.0	310.0	13.00
A12513.0X400	–	13.00	0.5118	300.0	400.0	13.00
A12533/64X315	33/64	13.10	0.5156	250.0	310.0	13.10
A12533/64X500	33/64	13.10	0.5156	400.0	460.0	13.10
A12517/32X315	17/32	13.49	0.5313	250.0	310.0	13.49
A12517/32X500	17/32	13.49	0.5313	400.0	460.0	13.49
A12535/64X315	35/64	13.89	0.5469	250.0	310.0	13.89
A12535/64X500	35/64	13.89	0.5469	400.0	460.0	13.89
A12514.0X315	–	14.00	0.5512	250.0	310.0	14.00
A12514.0X400	–	14.00	0.5512	300.0	400.0	14.00
A1259/16X315	9/16	14.29	0.5625	250.0	310.0	14.29
A1259/16X500	9/16	14.29	0.5625	400.0	460.0	14.29
A12537/64X315	37/64	14.68	0.5781	250.0	310.0	14.68
A12519/32X315	19/32	15.08	0.5938	250.0	310.0	15.08
A12519/32X500	19/32	15.08	0.5938	400.0	460.0	15.08
A12539/64X315	39/64	15.48	0.6094	250.0	310.0	15.48
A12539/64X500	39/64	15.48	0.6094	400.0	460.0	15.48
A1255/8X315	5/8	15.88	0.6250	250.0	310.0	15.88
A1255/8X500	5/8	15.88	0.6250	400.0	460.0	15.88
A12521/32X315	21/32	16.67	0.6563	250.0	310.0	16.67
A12521/32X500	21/32	16.67	0.6563	400.0	460.0	16.67
A12511/16X315	11/16	17.46	0.6875	250.0	310.0	17.46
A12511/16X500	11/16	17.46	0.6875	400.0	460.0	17.46
A12523/32X315	23/32	18.26	0.7188	250.0	310.0	18.26
A12523/32X500	23/32	18.26	0.7188	400.0	460.0	18.26
A1253/4X315	3/4	19.05	0.7500	250.0	310.0	19.05
A1253/4X500	3/4	19.05	0.7500	400.0	460.0	19.05
A12525/32X500	25/32	19.84	0.7813	400.0	460.0	19.84
A12513/16X500	13/16	20.64	0.8125	400.0	460.0	20.64
A1257/8X500	7/8	22.22	0.8750	400.0	460.0	22.22
A12515/16X500	15/16	23.81	0.9375	400.0	460.0	23.81
A1251X500	1"	25.40	1.0000	400.0	460.0	25.40

## TABLA DE VELOCIDADES DE AVANCE DE TALADRADO



Avance por revolución ( $f_n$  en mm/rev)  
 Dependiendo de las condiciones de trabajo puede ser necesario ajustar estos valores  $\pm 25\%$

### Cómo utilizar esta tabla para encontrar el valor de avance por revolución ( $f_n$ ):

1. Localice su código alfa en la página del producto (ejemplo: 46J, «J» es el código alfa).
2. Localice en la fila superior de la tabla el diámetro más adecuado para su aplicación de corte.
3. Localice su código alfa en la columna de la izquierda de la tabla.
4. La intersección (celda) del diámetro y el código alfa es el avance por revolución ( $f_n$ ).

		ø DC (mm)																		
		0.15	0.50	1.00	2.00	3.00	4.00	5.00	6.00	8.00	10.00	12.00	15.00	16.00	20.00	25.00	30.00	40.00	50.00	100.00
Avances	A	0.003	0.006	0.012	0.023	0.029	0.032	0.036	0.042	0.054	0.062	0.069	0.082	0.086	0.110	0.125	0.135	0.155	0.175	0.263
	B	0.004	0.007	0.014	0.028	0.037	0.041	0.046	0.053	0.067	0.080	0.090	0.103	0.108	0.135	0.153	0.165	0.188	0.208	0.312
	C	0.004	0.008	0.015	0.032	0.044	0.050	0.056	0.064	0.080	0.098	0.110	0.125	0.130	0.160	0.180	0.195	0.220	0.240	0.360
	D	0.004	0.008	0.016	0.038	0.053	0.060	0.068	0.078	0.098	0.119	0.130	0.149	0.155	0.188	0.210	0.228	0.253	0.275	0.413
	E	0.004	0.009	0.017	0.043	0.062	0.071	0.080	0.092	0.115	0.140	0.150	0.173	0.180	0.215	0.240	0.260	0.285	0.310	0.465
	F	0.005	0.009	0.018	0.050	0.073	0.084	0.095	0.109	0.138	0.165	0.178	0.202	0.210	0.248	0.275	0.295	0.320	0.343	0.515
	G	0.005	0.010	0.019	0.056	0.084	0.096	0.109	0.126	0.160	0.190	0.205	0.231	0.240	0.280	0.310	0.330	0.355	0.375	0.563
	H	0.005	0.010	0.020	0.066	0.102	0.116	0.130	0.150	0.190	0.228	0.243	0.271	0.280	0.320	0.355	0.375	0.398	0.418	0.627
	I	0.005	0.011	0.021	0.076	0.119	0.134	0.150	0.173	0.220	0.265	0.280	0.310	0.320	0.360	0.400	0.420	0.440	0.460	0.690
	J	0.006	0.012	0.024	0.084	0.135	0.152	0.170	0.197	0.250	0.298	0.315	0.349	0.360	0.405	0.445	0.465	0.485	0.503	0.755
	K	0.007	0.013	0.026	0.092	0.150	0.170	0.190	0.220	0.280	0.330	0.350	0.388	0.400	0.450	0.490	0.510	0.530	0.545	0.818
	L	0.007	0.014	0.028	0.101	0.165	0.186	0.208	0.240	0.305	0.360	0.385	0.419	0.430	0.485	0.525	0.545	0.568	0.588	0.882
	M	0.008	0.015	0.030	0.110	0.180	0.202	0.225	0.260	0.330	0.390	0.420	0.450	0.460	0.520	0.560	0.580	0.605	0.630	0.945
	N	0.008	0.016	0.032	0.119	0.195	0.218	0.242	0.280	0.355	0.420	0.455	0.481	0.490	0.555	0.595	0.615	0.642	0.672	1.008
	S	0.002	0.004	0.008	0.014	0.020	0.025	0.030	0.037	0.050	0.080	0.100	0.123	0.130	0.150	0.170	0.190	0.220	0.240	
	T	0.004	0.008	0.015	0.028	0.040	0.050	0.060	0.070	0.090	0.110	0.130	0.160	0.170	0.190	0.210	0.230	0.260	0.275	
	U	0.007	0.013	0.026	0.048	0.070	0.080	0.090	0.107	0.140	0.170	0.200	0.223	0.230	0.240	0.270	0.300	0.360	0.375	
	V	0.010	0.019	0.038	0.069	0.100	0.115	0.130	0.153	0.200	0.250	0.280	0.310	0.320	0.340	0.400	0.440	0.510	0.530	
	W	0.012	0.025	0.049	0.089	0.130	0.150	0.170	0.200	0.260	0.330	0.380	0.418	0.430	0.450	0.470	0.490	0.520	0.540	
	X	0.014	0.028	0.056	0.103	0.150	0.180	0.210	0.250	0.330	0.420	0.480	0.533	0.550	0.580					
	Y	0.017	0.034	0.068	0.124	0.180	0.220	0.260	0.317	0.430	0.550	0.700	0.700	0.700	0.740					
Z	0.024	0.047	0.094	0.172	0.250	0.325	0.400	0.533	0.800	1.000	1.100	1.175	1.200	1.200						