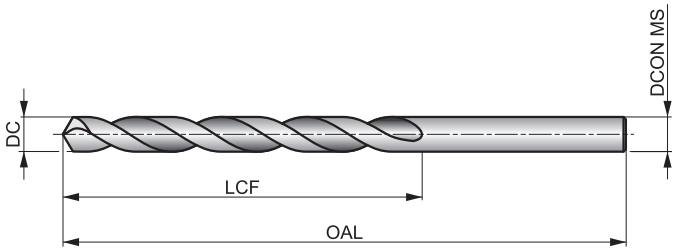
A110

DORMER

Broca HSS Serie Larga, con Acabado Templado al Vapor

Para taladrar agujeros más profundos. La punta convencional a 118° proporciona resistencia y es fácil de reafilar, lo que la hace muy rentable. Adecuado para taladrar muchos materiales. El acabado templado al vapor retiene el fluido de corte y evita la soldadura de la viruta a la herramienta. Para taladrados manuales y máquinas.



HSS	DIN 340	6×D
118°	ST	
λ20-35°	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.

P1.1	P1.2	P1.3	P2.1	P2.2	P2.3	P3.1	P3.2	P3.3	P4.1	P4.2	P4.3	M1.1	M1.2
■27 G	■30 G	■31 G	■23 G	■20 E	◪18 D	◪13 E	◪11 E	◪9 D	◪8 E	◪7 D	◪5 B	◪14 D	◪12 D
M2.1	**M2.2**	**M3.1**	**M3.2**	**M3.3**	**M4.1**	**K1.1**	**K1.2**	**K1.3**	**K2.1**	**K2.2**	**K2.3**	**K3.1**	**K3.2**
◪12 D	◪10 D	◪7 F	◪6 F	◪5 F	◪4 B	◪28 H	◪21 E	◪16 E	◪18 D	◪15 D	◪12 D	◪16 D	◪12 D
K3.3	**K4.1**	**K4.2**	**K4.3**	**K4.4**	**K4.5**	**K5.1**	**K5.2**	**K5.3**	**N1.1**	**N1.2**	**N1.3**	**N2.1**	**N2.2**
◪10 D	◪15 D	◪11 D	◪8 D	◪7 D	◪6 D	◪17 D	◪13 D	◪10 D	◪32 I	◪24 I	◪16 H	◪42 G	◪37 G
N2.3	**N3.1**	**N3.2**	**N3.3**	**N4.1**	**N4.2**	**N4.3**	**S1.1**	**S1.2**	**S1.3**	**S2.1**	**S2.2**	**S3.1**	**S3.2**
◪27 G	◪54 G	◪32 H	◪16 E	◪35 I	◪26 G	◪12 E	◪17 E	◪9 C	◪4 A	◪5 D	◪4 A	◪4 D	◪3 A
S4.1	**S4.2**												
◪3 D	◪2 A												

DC <= 1mm; 1/16" Brillante

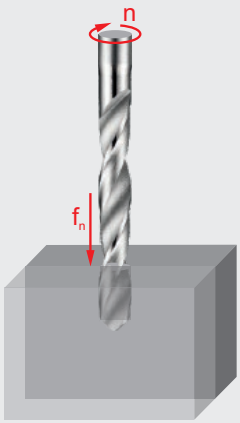
Producto	DC (inch)	DC (mm)	DC (inch)	LCF (mm)	OAL (mm)	DCON MS (mm)
A110.5	–	0.50	0.0197	12.0	32.0	0.50
A110.6	–	0.60	0.0236	15.0	35.0	0.60
A110.7	–	0.70	0.0276	21.0	42.0	0.70
A1101/32	1/32	0.79	0.0313	25.0	46.0	0.79
A110.8	–	0.80	0.0315	25.0	46.0	0.80
A110.9	–	0.90	0.0354	29.0	51.0	0.90
A1101.0	–	1.00	0.0394	33.0	56.0	1.00
A1101.1	–	1.10	0.0433	37.0	60.0	1.10
A1101.2	–	1.20	0.0472	41.0	65.0	1.20
A1101.3	–	1.30	0.0512	41.0	65.0	1.30
A1101.4	–	1.40	0.0551	45.0	70.0	1.40
A1101.5	–	1.50	0.0591	45.0	70.0	1.50
A1101/16	1/16	1.59	0.0625	50.0	76.0	1.59
A1101.6	–	1.60	0.0630	50.0	76.0	1.60
A1101.7	–	1.70	0.0669	50.0	76.0	1.70
A1101.75	–	1.75	0.0689	53.0	80.0	1.75
A1101.8	–	1.80	0.0709	53.0	80.0	1.80
A1101.9	–	1.90	0.0748	53.0	80.0	1.90
A1105/64	5/64	1.98	0.0781	56.0	85.0	1.98
A1102.0	–	2.00	0.0787	56.0	85.0	2.00
A1102.05	–	2.05	0.0807	56.0	85.0	2.05
A1102.1	–	2.10	0.0827	56.0	85.0	2.10
A1102.2	–	2.20	0.0866	59.0	90.0	2.20
A1102.25	–	2.25	0.0886	59.0	90.0	2.25

Producto	DC (inch)	DC (mm)	DC (inch)	LCF (mm)	OAL (mm)	DCON MS (mm)
A1102.3	–	2.30	0.0906	59.0	90.0	2.30
A1103/32	3/32	2.38	0.0938	62.0	95.0	2.38
A1102.4	–	2.40	0.0945	62.0	95.0	2.40
A1102.5	–	2.50	0.0984	62.0	95.0	2.50
A1102.6	–	2.60	0.1024	62.0	95.0	2.60
A1102.7	–	2.70	0.1063	66.0	100.0	2.70
A1107/64	7/64	2.78	0.1094	66.0	100.0	2.78
A1102.8	–	2.80	0.1102	66.0	100.0	2.80
A1102.9	–	2.90	0.1142	66.0	100.0	2.90
A1103.0	–	3.00	0.1181	66.0	100.0	3.00
A1103.1	–	3.10	0.1220	69.0	106.0	3.10
A1101/8	1/8	3.18	0.1250	69.0	106.0	3.18
A1103.2	–	3.20	0.1260	69.0	106.0	3.20
A1103.25	–	3.25	0.1280	69.0	106.0	3.25
A1103.3	–	3.30	0.1299	69.0	106.0	3.30
A1103.4	–	3.40	0.1339	73.0	112.0	3.40
A1103.5	–	3.50	0.1378	73.0	112.0	3.50
A1109/64	9/64	3.57	0.1406	73.0	112.0	3.57
A1103.6	–	3.60	0.1417	73.0	112.0	3.60
A1103.7	–	3.70	0.1457	73.0	112.0	3.70
A1103.75	–	3.75	0.1476	73.0	112.0	3.75
A1103.8	–	3.80	0.1496	78.0	119.0	3.80
A1103.9	–	3.90	0.1535	78.0	119.0	3.90
A1105/32	5/32	3.97	0.1563	78.0	119.0	3.97

Producto	DC	DC	DC	LCF	OAL	DCON MS
	(inch)	(mm)	(inch)	(mm)	(mm)	(mm)
A1104.0	–	4.00	0.1575	78.0	119.0	4.00
A1104.1	–	4.10	0.1614	78.0	119.0	4.10
A1104.2	–	4.20	0.1654	78.0	119.0	4.20
A1104.25	–	4.25	0.1673	78.0	119.0	4.25
A1104.3	–	4.30	0.1693	82.0	126.0	4.30
A11011/64	11/64	4.37	0.1719	82.0	126.0	4.37
A1104.4	–	4.40	0.1732	82.0	126.0	4.40
A1104.5	–	4.50	0.1772	82.0	126.0	4.50
A1104.6	–	4.60	0.1811	82.0	126.0	4.60
A1104.7	–	4.70	0.1850	82.0	126.0	4.70
A1104.75	–	4.75	0.1870	82.0	126.0	4.75
A1103/16	3/16	4.76	0.1875	87.0	132.0	4.76
A1104.8	–	4.80	0.1890	87.0	132.0	4.80
A1104.9	–	4.90	0.1929	87.0	132.0	4.90
A1105.0	–	5.00	0.1969	87.0	132.0	5.00
A1105.1	–	5.10	0.2008	87.0	132.0	5.10
A11013/64	13/64	5.16	0.2031	87.0	132.0	5.16
A1105.2	–	5.20	0.2047	87.0	132.0	5.20
A1105.25	–	5.25	0.2067	87.0	132.0	5.25
A1105.3	–	5.30	0.2087	87.0	132.0	5.30
A1105.4	–	5.40	0.2126	91.0	139.0	5.40
A1105.5	–	5.50	0.2165	91.0	139.0	5.50
A1107/32	7/32	5.56	0.2188	91.0	139.0	5.56
A1105.6	–	5.60	0.2205	91.0	139.0	5.60
A1105.7	–	5.70	0.2244	91.0	139.0	5.70
A1105.75	–	5.75	0.2264	91.0	139.0	5.75
A1105.8	–	5.80	0.2283	91.0	139.0	5.80
A1105.9	–	5.90	0.2323	91.0	139.0	5.90
A11015/64	15/64	5.95	0.2344	91.0	139.0	5.95
A1106.0	–	6.00	0.2362	91.0	139.0	6.00
A1106.1	–	6.10	0.2402	97.0	148.0	6.10
A1106.2	–	6.20	0.2441	97.0	148.0	6.20
A1106.25	–	6.25	0.2461	97.0	148.0	6.25
A1106.3	–	6.30	0.2480	97.0	148.0	6.30
A1101/4	1/4	6.35	0.2500	97.0	148.0	6.35
A1106.4	–	6.40	0.2520	97.0	148.0	6.40
A1106.5	–	6.50	0.2559	97.0	148.0	6.50
A1106.6	–	6.60	0.2598	97.0	148.0	6.60
A1106.7	–	6.70	0.2638	97.0	148.0	6.70
A11017/64	17/64	6.75	0.2656	102.0	156.0	6.75
A1106.75	–	6.75	0.2657	102.0	156.0	6.75
A1106.8	–	6.80	0.2677	102.0	156.0	6.80
A1106.9	–	6.90	0.2717	102.0	156.0	6.90
A1107.0	–	7.00	0.2756	102.0	156.0	7.00
A1107.1	–	7.10	0.2795	102.0	156.0	7.10
A1109/32	9/32	7.14	0.2813	102.0	156.0	7.14
A1107.2	–	7.20	0.2835	102.0	156.0	7.20
A1107.25	–	7.25	0.2854	102.0	156.0	7.25
A1107.3	–	7.30	0.2874	102.0	156.0	7.30
A1107.4	–	7.40	0.2913	102.0	156.0	7.40
A1107.5	–	7.50	0.2953	102.0	156.0	7.50
A1107.6	–	7.60	0.2992	109.0	165.0	7.60
A1107.7	–	7.70	0.3031	109.0	165.0	7.70
A1107.75	–	7.75	0.3051	109.0	165.0	7.75
A1107.8	–	7.80	0.3071	109.0	165.0	7.80
A1107.9	–	7.90	0.3110	109.0	165.0	7.90
A1105/16	5/16	7.94	0.3125	109.0	165.0	7.94
A1108.0	–	8.00	0.3150	109.0	165.0	8.00
A1108.1	–	8.10	0.3189	109.0	165.0	8.10
A1108.2	–	8.20	0.3228	109.0	165.0	8.20
A1108.25	–	8.25	0.3248	109.0	165.0	8.25
A1108.3	–	8.30	0.3268	109.0	165.0	8.30
A1108.4	–	8.40	0.3307	109.0	165.0	8.40
A1108.5	–	8.50	0.3346	109.0	165.0	8.50
A1108.6	–	8.60	0.3386	115.0	175.0	8.60

Producto	DC	DC	DC	LCF	OAL	DCON MS
	(inch)	(mm)	(inch)	(mm)	(mm)	(mm)
A1108.7	–	8.70	0.3425	115.0	175.0	8.70
A11011/32	11/32	8.73	0.3438	115.0	175.0	8.73
A1108.75	–	8.75	0.3445	115.0	175.0	8.75
A1108.8	–	8.80	0.3465	115.0	175.0	8.80
A1108.9	–	8.90	0.3504	115.0	175.0	8.90
A1109.0	–	9.00	0.3543	115.0	175.0	9.00
A1109.1	–	9.10	0.3583	115.0	175.0	9.10
A1109.2	–	9.20	0.3622	115.0	175.0	9.20
A1109.25	–	9.25	0.3642	115.0	175.0	9.25
A1109.3	–	9.30	0.3661	115.0	175.0	9.30
A1109.4	–	9.40	0.3701	115.0	175.0	9.40
A1109.5	–	9.50	0.3740	115.0	175.0	9.50
A1103/8	3/8	9.52	0.3750	121.0	184.0	9.52
A1109.6	–	9.60	0.3780	121.0	184.0	9.60
A1109.7	–	9.70	0.3819	121.0	184.0	9.70
A1109.75	–	9.75	0.3839	121.0	184.0	9.75
A1109.8	–	9.80	0.3858	121.0	184.0	9.80
A1109.9	–	9.90	0.3898	121.0	184.0	9.90
A11010.0	–	10.00	0.3937	121.0	184.0	10.00
A11010.1	–	10.10	0.3976	121.0	184.0	10.10
A11010.2	–	10.20	0.4016	121.0	184.0	10.20
A11010.25	–	10.25	0.4035	121.0	184.0	10.25
A11010.3	–	10.30	0.4055	121.0	184.0	10.30
A11013/32	13/32	10.32	0.4063	121.0	184.0	10.32
A11010.5	–	10.50	0.4134	121.0	184.0	10.50
A11010.75	–	10.75	0.4232	128.0	195.0	10.75
A11010.8	–	10.80	0.4252	128.0	195.0	10.80
A11011.0	–	11.00	0.4331	128.0	195.0	11.00
A1107/16	7/16	11.11	0.4375	128.0	195.0	11.11
A11011.25	–	11.25	0.4429	128.0	195.0	11.25
A11011.4	–	11.40	0.4488	128.0	195.0	11.40
A11011.5	–	11.50	0.4528	128.0	195.0	11.50
A11011.75	–	11.75	0.4626	128.0	195.0	11.75
A11012.0	–	12.00	0.4724	134.0	205.0	12.00
A11012.1	–	12.10	0.4764	134.0	205.0	12.10
A11012.25	–	12.25	0.4823	134.0	205.0	12.25
A11012.5	–	12.50	0.4921	134.0	205.0	12.50
A1101/2	1/2	12.70	0.5000	134.0	205.0	12.70
A11013.0	–	13.00	0.5118	134.0	205.0	13.00
A11017/32	17/32	13.49	0.5313	140.0	214.0	13.49
A11013.5	–	13.50	0.5315	140.0	214.0	13.50
A11014.0	–	14.00	0.5512	140.0	214.0	14.00
A1109/16	9/16	14.29	0.5625	144.0	220.0	14.29
A11014.5	–	14.50	0.5709	144.0	220.0	14.50
A11015.0	–	15.00	0.5906	144.0	220.0	15.00
A11015.5	–	15.50	0.6102	149.0	227.0	15.50
A1105/8	5/8	15.88	0.6250	149.0	227.0	15.88
A11016.0	–	16.00	0.6299	149.0	227.0	16.00
A11016.5	–	16.50	0.6496	154.0	235.0	16.50
A11017.0	–	17.00	0.6693	154.0	235.0	17.00
A11011/16	11/16	17.46	0.6875	158.0	241.0	17.46
A11017.5	–	17.50	0.6890	158.0	241.0	17.50
A11018.0	–	18.00	0.7087	158.0	241.0	18.00
A11018.5	–	18.50	0.7283	162.0	247.0	18.50
A11019.0	–	19.00	0.7480	162.0	247.0	19.00
A1103/4	3/4	19.05	0.7500	166.0	254.0	19.05
A11019.5	–	19.50	0.7677	166.0	254.0	19.50
A11020.0	–	20.00	0.7874	166.0	254.0	20.00
A11021.0	–	21.00	0.8268	171.0	261.0	21.00
A11022.0	–	22.00	0.8661	176.0	268.0	22.00
A1107/8	7/8	22.22	0.8750	176.0	268.0	22.22
A11015/16	15/16	23.81	0.9375	185.0	282.0	23.81
A1101	1″	25.40	1.0000	190.0	290.0	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 ± 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					