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Lista 2001 Brocas Jobber Uso General Acero Alta Velocidad

CARACTERISTICAS

ESPECIFICACIONES ANSI	A.A.V.
DIN 338	BRILLANTE
USO GENERAL	EN-NEGRECIDO
ZANCO	38°
	118°

APLICACIONES

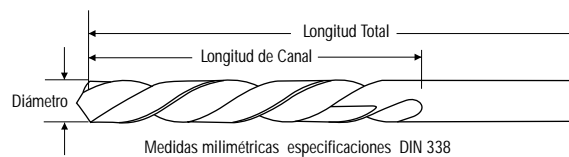
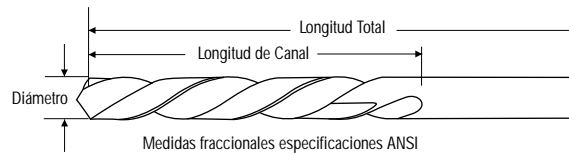
ACERO AL CARBÓN
FUNDICIÓN
ALUMINIO
ALEACIÓN DE COBRE



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Fracc.	Diámetro		Alfabética	Equivalencia		Long. Canal		Long. Total		Ennegrecido
	Num.	Milimétrica		mm	Decimal	Pulg.	mm	Pulg.	mm	
1/64"	80			0.34	0.0135	1/8	3.18	3/4	19.05	C01012
	79			0.36	0.0145	1/8	3.18	3/4	19.05	C01014
	78			0.39	0.0156	3/16	4.76	3/4	19.05	C01016
	77			0.40	0.0160	3/16	4.76	7/8	22.23	C01018
	76			0.45	0.0180	3/16	4.76	7/8	22.23	C01021
	75			0.50	0.0200	3/16	4.76	7/8	22.23	C01024
	74			0.53	0.0210	1/4	6.35	1	25.40	C01025
	73			0.57	0.0225	1/4	6.35	1	25.40	C01027
	72			0.60	0.0240	5/16	7.94	1-1/8	28.58	C01029
	71			0.63	0.0250	5/16	7.94	1-1/8	28.58	C01030
1/32	70			0.66	0.0260	3/8	9.53	1-1/4	31.75	C01032
	69			0.71	0.0280	3/8	9.53	1-1/4	31.75	C01034
	68			0.74	0.0292	1/2	12.70	1-3/8	34.93	C01035
	67			0.78	0.0310	1/2	12.70	1-3/8	34.93	C01037
	66			0.79	0.0312	1/2	12.70	1-3/8	34.93	C01038
	65			0.81	0.0320	1/2	12.70	1-3/8	34.93	C01040
	64			0.83	0.0330	1/2	12.70	1-3/8	34.93	C01041
	63			0.88	0.0350	5/8	15.88	1-1/2	38.10	C01043
	62			0.91	0.060	5/8	15.88	1-1/2	38.10	C01045
	61			0.93	0.0370	5/8	15.88	1-1/2	38.10	C01046
3/64"	60	1.00		0.96	0.0380	5/8	15.88	1-1/2	38.10	C01048
	59	1.05		0.99	0.0390	11/16	17.46	1-5/8	41.28	C01049
	58	1.10		1.00	0.0394	0.71	18.00	1.61	41.00	C01050
	57	1.15		1.02	0.0400	11/16	17.46	1-5/8	41.28	C01051
	56	1.05		1.04	0.0410	11/16	17.46	1-5/8	41.28	C01052
		1.10		1.05	0.0413	0.71	18.00	1.61	41.00	C01053
		1.15		1.07	0.0420	11/16	17.46	1-5/8	41.28	C01054
		1.10		1.09	0.0430	3/4	19.05	1-3/4	44.45	C01055
		1.15		1.10	0.0433	0.748	19.00	1.73	44.00	C01056
		1.15		1.15	0.0453	0.748	19.00	1.73	44.00	C01057
			1.18	0.0465	19.05	19.05	1-3/4	44.45	C01058	
			1.19	0.0469	19.05	19.05	1-3/4	44.45	C01059	

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Zanco Recto

Lista 2001 Brocas Jobber Uso General Acero Alta Velocidad (continuación)

Fracc.	Diámetro		Equivalencia		Long. Canal		Long. Total		Ennegrecido	
	Num.	Milimétrica	Alfabética	mm	Decimal	Pulg.	mm	Pulg.		mm
		1.20		1.20	0.0472	0.87	22.00	1.89	48.00	C01060
		1.25		1.25	0.0492	0.87	22.00	1.89	48.00	C01061
		1.30		1.30	0.0512	0.87	22.00	1.89	48.00	C01062
	55			1.32	0.0520	7/8	22.23	1-7/8	47.63	C01063
		1.35		1.35	0.0531	0.87	22.00	1.89	48.00	C01064
	54			1.40	0.0550	7/8	22.23	1-7/8	47.63	C01065
		1.40		1.40	0.0551	0.87	22.00	1.89	48.00	C01066
		1.45		1.45	0.0571	0.87	22.00	1.89	48.00	C01067
		1.50		1.50	0.0591	0.87	22.00	1.89	48.00	C01068
	53			1.51	0.0595	7/8	22.23	1-7/8	47.63	C01069
		1.55		1.55	0.0610	0.87	22.00	1.89	48.00	C01070
	1/16"			1.59	0.0625	7/8	22.23	1-7/8	47.63	C01071
		1.60		1.60	0.0630	0.87	22.00	1.89	48.00	C01072
	52			1.61	0.0635	7/8	22.23	1-7/8	47.63	C01073
		1.65		1.65	0.0650	0.98	25.00	2.01	51.00	C01074
		1.70		1.70	0.0669	0.98	25.00	2.01	51.00	C01075
	51			1.70	0.0670	1	25.40	2	50.80	C01076
		1.75		1.75	0.0689	0.98	25.00	2.01	51.00	C01077
	50			1.78	0.0700	1	25.40	2	50.80	C01078
		1.80		1.80	0.0709	0.98	25.00	2.01	51.00	C01079
		1.85		1.85	0.0729	0.98	25.00	2.01	51.00	C01080
	49			1.85	0.0730	1	25.40	2	50.80	C01081
		1.90		1.90	0.0748	0.98	25.00	2.01	51.00	C01082
	48			1.93	0.0760	1	25.40	2	50.80	C01083
		1.95		1.95	0.0768	0.98	25.00	2.01	51.00	C01084
	5/64"			1.98	0.0781	1	25.40	2	50.80	C01085
	47			1.99	0.0785	1	25.40	2	50.80	C01086
		2.00		2.00	0.0787	1.14	29.00	2.13	54.00	C01087
		2.05		2.05	0.0807	1.14	29.00	2.13	54.00	C01088
	46			2.06	0.0810	1-1/8	28.58	2-1/8	53.98	C01089
	45			2.08	0.0820	1-1/8	28.58	2-1/8	53.98	C01090
		2.10		2.10	0.0827	1.14	29.00	2.13	54.00	C01091
		2.15		2.15	0.0846	1.14	29.00	2.13	54.00	C01092
	44			2.18	0.0860	1-1/8	28.58	2-1/8	53.98	C01093
		2.20		2.20	0.0866	1.26	32.00	2.13	57.00	C01094
		2.25		2.25	0.0886	1.26	32.00	2.13	57.00	C01095
	43			2.26	0.0890	1-1/4	31.75	2-1/4	57.15	C01096
		2.30		2.30	0.0906	1.26	32.00	2.13	57.00	C01097
		2.35		2.35	0.0925	1.26	32.00	2.13	57.00	C01098
	42			2.37	0.0935	1-1/4	31.75	2-1/4	57.15	C01099
	3/32"			2.38	0.0938	1-1/4	31.75	2-1/4	57.15	C01100
		2.40		2.40	0.0945	1.38	35.00	2.36	60.00	C01101
	41			2.44	0.0960	1-3/8	34.93	2-3/8	60.33	C01102
		2.45		2.45	0.0965	1.38	35.00	2.36	60.00	C01103
	40			2.49	0.0980	1-3/8	34.93	2-3/8	60.33	C01104
		2.50		2.50	0.0984	1.38	35.00	2.36	60.00	C01105
	39			2.53	0.0995	1-3/8	34.93	2-3/8	60.33	C01106
	38			2.58	0.1015	1-7/8	36.51	2-1/2	63.50	C01107
		2.60		2.60	0.1024	1.46	37.00	2.52	64.00	C01108
	37			2.64	0.1040	1-7/16	36.51	2-1/2	63.50	C01109
		2.70		2.70	0.1063	1.46	37.00	2.52	64.00	C01110
	36			2.71	0.1065	1-7/16	36.51	2-1/2	63.50	C01111
		2.75		2.75	0.1083	1.30	33.00	2.40	61.00	C01112
	7/64			2.78	0.1094	1-1/2	38.10	2-5/8	66.68	C01113

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Lista 2001 Brocas Jobber Uso General Acero Alta Velocidad (continuación)

Fracc.	Diámetro		Equivalencia		Long. Canal		Long. Total		Ennegrecido	
	Num.	Milimétrica	Alfabética	mm	Decimal	Pulgs.	mm	Pulgs.		mm
1/8"	35	2.80		2.79	0.1100	1-1/2	38.10	2-5/8	66.68	C01114
					2.80	0.1102	1.50	38.00	2.64	67.00
	34			2.82	0.1110	1-1/2	38.10	2-5/8	66.68	C01116
	33			2.87	0.1130	1-1/2	38.10	2-5/8	66.68	C01117
	32	2.90		2.90	0.1142	1.61	41.00	2.76	70.00	C01118
				2.95	0.1180	1-5/8	41.28	2.3/4	69.85	C01119
	31	3.00		3.00	0.1181	1.61	41.00	2.76	70.00	C01120
				3.05	0.1200	1-5/8	41.28	2-3/4	69.85	C01121
	1/8"	3.10		3.10	0.1220	1.61	41.00	2.76	70.00	C01122
				3.18	0.1250	1-5/8	41.28	2-3/4	69.85	C01123
			3.20	0.1260	1.61	41.00	2.76	70.00	C01124	
			3.25	0.1280	1.61	41.00	2.76	70.00	C01125	
30	3.30		3.26	0.1285	1-5/8	41.28	2-3/4	69.85	C01126	
			3.30	0.1299	1.77	45.00	2.87	73.00	C01127	
			3.40	0.1339	1.77	45.00	2.87	73.00	C01128	
			3.45	0.1360	1-3/4	44.45	2-7/8	73.03	C01129	
29	3.50		3.50	0.1378	1.77	45.00	2.87	73.00	C01130	
			3.57	0.1405	1-3/4	44.45	2-7/8	73.03	C01131	
		9/64"		3.57	0.1406	1-3/4	44.45	2-7/8	73.03	C01132
				3.60	0.1417	1.89	48.00	2.99	76.00	C01133
27	3.70		3.66	0.1440	1-7/8	47.63	3	76.20	C01134	
			3.70	0.1457	1.89	48.00	2.99	76.00	C01135	
26	3.75		3.73	0.1470	1-7/8	47.63	3	76.20	C01136	
			3.75	0.1476	1.89	48.00	2.99	76.00	C01137	
25	3.80		3.80	0.1495	1-7/8	47.63	3	76.20	C01138	
			3.80	0.1496	2.01	51.00	2.99	79.00	C01139	
24	3.90		3.86	0.1520	2	50.80	3-1/8	79.38	C01140	
			3.90	0.1535	2.01	51.00	3.11	79.00	C01141	
		5/32"		3.91	0.1540	2	50.80	3-1/8	79.38	C01142
				3.97	0.1562	2	50.80	3-1/8	79.38	C01143
22	4.00		3.98	0.1570	2	50.80	3-1/8	79.38	C01144	
			4.00	0.1575	2.13	54.00	3.27	83.00	C01145	
21	4.10		4.04	0.1590	2-1/8	53.98	3-1/4	82.55	C01146	
			4.09	0.1610	2-1/8	53.98	3-1/4	82.55	C01147	
19	4.20		4.10	0.1614	2.13	54.00	3.27	83.00	C01148	
			4.20	0.1654	2.13	54.00	3.27	83.00	C01149	
			4.22	0.1660	2-1/8	53.98	3-1/4	82.55	C01150	
			4.25	0.1673	2.13	54.00	3.27	83.00	C01151	
18	4.30		4.30	0.1693	2.13	54.00	3.27	83.00	C01152	
			4.31	0.1695	2-1/8	53.98	3-1/4	82.55	C01153	
		11/64		4.37	0.1719	2-1/8	53.98	3-1/4	82.55	C01154
				4.39	0.1730	2-3/16	55.56	3-3/8	85.73	C01155
17	4.40		4.40	0.1732	2.20	56.00	3.39	86.00	C01156	
			4.50	0.1770	2-3/16	55.56	3-3/8	85.73	C01157	
16	4.50		4.50	0.1772	2.20	56.00	3.39	86.00	C01158	
			4.57	0.1800	2-3/16	55.56	3-3/8	85.73	C01159	
15	4.60		4.60	0.1811	2.20	56.00	3.39	86.00	C01160	
			4.62	0.1820	2-3/16	55.56	3-3/8	85.73	C01161	
14	4.70		4.70	0.1850	2-3/16	58.74	3-1/2	88.90	C01162	
			4.70	0.1850	2.32	59.00	3.50	89.00	C01163	
			4.75	0.1870	2.32	59.00	3.50	89.00	C01164	
			4.76	0.1875	2-5/16	58.74	3-1/2	88.90	C01165	
3/16"	12		4.80	0.1890	2-5/16	58.74	3-1/2	88.90	C01166	
			4.80	0.1890	2.32	59.00	3.50	89.00	C01167	

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Zanco Recto

Lista 2001 Brocas Jobber Uso General Acero Alta Velocidad (continuación)

Fracc.	Diámetro		Equivalencia		Long. Canal		Long. Total		Ennegrecido	
	Num.	Milimétrica	Alfabética	mm	Decimal	Pulg.	mm	Pulg.		mm
	11			4.85	0.1910	2-5/16	58.74	3-1/2	88.90	C01168
		4.90		4.90	0.1929	2.44	62.00	3.62	92.00	C01169
	10			4.91	0.1935	2-7/16	61.91	3-5/8	92.08	C01170
	9			4.98	0.1960	2-7/16	61.91	3-5/8	92.08	C01171
		5.00		5.00	0.1969	2.44	62.00	3.62	92.00	C01172
	8			5.05	0.1990	2-7/16	61.91	3-5/8	92.08	C01173
		5.10		5.10	0.2008	2.44	62.00	3.62	92.00	C01174
	7			5.11	0.2010	2-7/16	61.91	3-5/8	92.08	C01175
13/64"				5.16	0.2031	2-7/16	61.91	3-5/8	92.08	C01176
	6			5.18	0.2040	2-1/2	63.50	3-3/4	95.25	C01177
		5.20		5.20	0.2047	2.52	64.00	3.74	95.00	C01178
	5			5.22	0.2055	2-1/2	63.50	3-3/4	95.25	C01179
		5.25		5.25	0.2067	2.52	64.00	3.74	95.00	C01180
		5.30		5.30	0.2087	2.52	64.00	3.74	95.00	C01181
	4			5.31	0.2090	2-1/2	63.50	3-3/4	95.25	C01182
		5.40		5.40	0.2126	2.52	64.00	3.70	94.00	C01183
	3			5.41	0.2130	2-1/2	63.50	3-3/4	95.25	C01184
		5.50		5.50	0.2165	2.52	64.00	3.74	95.00	C01185
7/32"				5.56	0.2188	2-1/2	63.50	3-3/4	95.25	C01186
		5.60		5.60	0.2205	2.64	67.00	3.86	98.00	C01187
	2			5.61	0.2210	2-5/8	66.68	3-7/8	98.43	C01188
		5.70		5.70	0.2244	2.64	67.00	3.86	98.00	C01189
		5.75		5.75	0.2264	2.64	67.00	3.86	98.00	C01190
	1			5.79	0.2280	2-5/8	66.68	3-7/8	98.43	C01191
		5.80		5.80	0.2283	2.64	67.00	3.86	98.00	C01192
		5.90		5.90	0.2323	2.64	67.00	3.86	98.00	C01193
			A	5.94	0.2340	2-5/8	66.68	3-7/8	98.43	C01194
15/64"				5.95	0.2344	2-5/8	66.68	3-7/8	98.43	C01195
		6.00		6.00	0.2362	2.76	70.00	4.02	102.00	C01196
			B	6.05	0.2380	2-3/4	69.85	4	101.60	C01197
		6.10		6.10	0.2402	2.76	70.00	4.02	102.00	C01198
			C	6.15	0.2420	2-3/4	69.85	4	101.60	C01199
		6.20		6.20	0.2441	2.76	70.00	4.02	102.00	C01200
			D	6.25	0.2480	2-3/4	69.85	4	101.60	C01201
		6.25		6.25	0.2461	2.76	70.00	4.02	102.00	C01202
		6.30		6.30	0.2480	2.76	70.00	4.02	102.00	C01203
1/4"			E	6.35	0.2500	2-3/4	69.85	4	101.60	C01204
		6.40		6.40	0.2520	2.87	73.00	4.13	105.00	C01206
		6.50		6.50	0.2559	2.87	73.00	4.13	105.00	C01207
			F	6.53	0.2570	2-7/8	73.03	4-1/8	104.77	C01208
		6.60		6.60	0.2598	2.87	73.00	4.13	105.00	C01209
			G	6.63	0.2610	2-7/8	73.03	4-1/8	104.77	C01210
		6.70		6.70	0.2638	2.87	73.00	4.13	105.00	C01211
17/64"				6.75	0.2656	2-7/8	73.03	4-1/8	104.77	C01212
		6.75		6.75	0.2657	2.87	73.00	4.13	105.00	C01213
			H	6.76	0.2660	2-7/8	73.03	4-1/8	104.77	C01214
		6.80		6.80	0.2677	2.87	73.00	4.13	105.00	C01215
		6.90		6.90	0.2717	2.87	73.00	4.13	105.00	C01216
			I	6.91	0.2720	2-7/8	73.03	4-1/8	104.77	C01217
		7.00		7.00	0.2756	2.87	73.00	4.13	105.00	C01218
			J	7.04	0.2770	2-7/8	73.03	4-1/8	104.77	C01219
		7.10		7.10	0.2795	2.95	75.00	4.25	108.00	C01220
			K	7.14	0.2810	2-15/16	74.61	4-1/4	107.95	C01221
		7.20		7.20	0.2835	2.95	75.00	4.25	108.00	C01222

Continúa en la siguiente Página



Lista 2001 Brocas Jobber Uso General Acero Alta Velocidad (continuación)

Fracc.	Diámetro		Equivalencia		Long. Canal		Long. Total		Ennegrecido	
	Num.	Milimétrica	Alfabética	mm	Decimal	Pulg.	mm	Pulg.		mm
		7.25		7.25	0.2854	2.95	75.00	4.25	108.00	C01223
		7.30		7.30	0.2874	2.95	75.00	4.25	108.00	C01224
9/32"			L	7.37	0.2900	2-15/16	74.61	4-1/4	107.95	C01225
				7.14	0.2812	2-15/16	74.60	4-1/4	107.95	C01226
		7.40		7.40	0.2913	3.07	78.00	4.37	111.00	C01227
			M	7.49	0.2950	3-1/16	93.66	4-3/8	111.13	C01228
19/64"		7.50		7.50	0.2953	3.07	78.00	4.37	111.00	C01229
				7.54	0.2969	3-1/16	77.79	4-3/8	111.13	C01230
		7.60		7.60	0.2992	3.07	78.00	4.37	111.00	C01231
			N	7.67	0.3020	3-1/16	77.79	4-3/8	111.13	C01232
		7.70		7.70	0.3031	3.19	81.00	4.49	114.00	C01233
		7.75		7.75	0.3051	3.19	81.00	4.49	114.00	C01234
		7.80		7.80	0.3071	3.19	81.00	4.49	114.00	C01235
		7.90		7.90	0.3110	3.19	81.00	4.49	114.00	C01236
5/16"				7.94	0.3125	3-3/16	80.96	4-1/2	114.30	C01237
		8.00		8.00	0.3150	3.19	81.00	4.49	114.00	C01238
			O	8.03	0.3160	3-3/16	80.96	4-1/2	114.30	C01239
		8.10		8.10	0.3189	3.31	84.00	4.49	114.00	C01240
		8.20		8.20	0.3228	3.31	84.00	4.60	117.00	C01241
			P	8.20	0.3230	3-5/16	84.14	4-5/8	117.48	C01242
		8.25		8.25	0.3248	3.31	84.00	4.60	117.00	C01243
		8.30		8.30	0.3268	3.31	84.00	4.60	117.00	C01244
21/64"				8.33	0.3281	3-5/16	84.14	4-5/8	117.48	C01245
		8.40		8.40	0.3307	3.43	87.00	4.76	121.00	C01246
			Q	8.43	0.3320	3-7/16	87.31	4-3/4	120.65	C01247
		8.50		8.50	0.3346	3.43	87.00	4.76	121.00	C01248
		8.60		8.60	0.3386	3.43	87.00	4.76	121.00	C01249
			R	8.61	0.3390	3-7/16	87.31	4-3/4	120.65	C01250
11/32"		8.70		8.70	0.3425	3.43	87.00	4.76	121.00	C01251
				8.73	0.3438	3-7/16	87.31	4-3/4	120.65	C01252
		8.75		8.75	0.3449	3.43	87.00	4.76	121.00	C01253
		8.80		8.80	0.3465	3.50	89.00	4.88	124.00	C01254
			S	8.84	0.3480	3-1/2	88.90	4-7/8	123.83	C01255
		8.90		8.90	0.3504	3.50	89.00	4.88	124.00	C01256
		9.00		9.00	0.3543	3.50	89.00	4.88	124.00	C01257
			T	9.09	0.3580	3-1/2	88.90	4-7/8	123.83	C01258
23/64"		9.10		9.10	0.3583	3.50	89.00	4.88	124.00	C01259
				9.12	0.3594	3.19	81.00	4-29/32	125.00	C01260
		9.20		9.20	0.3622	3.62	92.00	4.99	127.00	C01261
		9.25		9.25	0.3642	3.62	92.00	4.99	127.00	C01262
		9.30		9.30	0.3661	3.62	92.00	4.99	127.00	C01263
			U	9.35	0.3680	3-5/8	92.08	5	127.00	C01264
		9.40		9.40	0.3701	3.62	92.00	4.99	127.00	C01265
		9.50		9.50	0.3740	3.62	92.00	4.99	127.00	C01266
3/8"				9.53	0.3750	3-5/8	92.08	5	127.00	C01267
			V	9.58	0.3770	3-5/8	92.08	5	127.00	C01268
		9.60		133	0.3780	3.74	95.00	5.12	130.00	C01269
		9.70		9.70	0.3819	3.74	95.00	5.12	130.00	C01270
		9.75		9.75	0.3839	3.74	95.00	5.12	130.00	C01271
		9.80		9.80	0.3858	3.74	95.00	5.12	130.00	C01272
			W	9.80	0.3860	3-3/4	95.25	5-1/8	130.18	C01273
		9.90		9.90	0.3898	3.74	95.00	5.12	130.00	C01274
25/64"				9.92	0.3906	3-3/4	95.25	5-1/8	130.18	C01275
		10.00		10.00	0.3937	3.74	95.00	5.12	130.00	C01276

Continúa en la siguiente Página

Zanco Recto

Lista 2001 Brocas Jobber Uso General Acero Alta Velocidad (continuación)

BROCAS

RIMAS

MACHUELOS

CORTADORES

OTRAS HERRAMIENTAS

Frac.	Diámetro		Equivalencia		Long. Canal		Long. Total		Ennegrecido	
	Num.	Milimétrica	Alfabética	mm	Decimal	Pulgs.	mm	Pulgs.		mm
			X	10.08	0.3970	3-3/4	95.25	5-1/8	130.18	C01277
	10.20			10.20	0.4016	3.86	98.00	5.24	133.00	C01278
			Y	10.26	0.4040	3-7/8	98.43	5-1/4	133.35	C01279
	10.30			10.30	0.4055	3.86	98.00	5.24	133.00	C01280
13/32"			Z	10.32	0.4062	3-7/8	98.43	5-1/4	133.35	C01281
				10.49	0.4130	3-7/8	98.43	5-1/4	133.35	C01282
	10.50			10.50	0.4131	3.94	100.00	5.39	137.00	C01283
27/64"				10.72	0.4219	3-15/16	100.01	5-3/8	136.53	C01284
	10.80			10.80	0.4252	4.06	103.00	5.51	140.00	C01285
	11.00			11.00	0.4331	4.06	103.00	5.51	140.00	C01286
7/16"				11.11	0.4375	4-1/16	103.19	5-1/2	139.70	C01287
	11.20			11.20	0.4409	4.17	106.00	5.63	143.00	C01288
	11.50			11.50	0.4528	4.17	106.00	5.51	140.00	C01289
29/64"				11.51	0.4531	4-3/16	106.36	5-5/8	142.88	C01290
	11.80			11.80	0.4643	4.33	110.00	5.75	146.00	C01291
15/32"				11.91	0.4688	4-5/16	109.54	5-3/4	146.05	C01292
	12.00			12.00	0.4724	4.33	111.00	5.90	150.00	C01293
	12.20			12.20	0.48.03	4.33	111.00	5.90	150.00	C01294
31/64"				12.30	0.4844	4-3/8	111.13	5-7/8	149.23	C01295
	12.50			12.50	0.4921	4.49	114.00	5.98	152.00	C01296
1/2"				12.70	0.5000	4-1/2	114.30	6	152.40	C01297
	13.00			13.00	0.5118	4.49	114.00	5.98	152.00	C01299
33/64"				13.10	0.5156	4-13/16	122.24	6-5/8	168.28	C01300
17/32"				13.49	0.5312	4-13/16	122.24	6-5/8	168.28	C01302
	13.50			13.50	0.5315	4.80	122.00	6.61	168.00	C01303
35/64"				13.89	0.5469	4-13/16	122.24	6-5/8	168.28	C01305
	14.00			14.00	0.5512	4.80	122.00	6.61	168.00	C01306
9/16"				14.29	0.5625	4-13/16	122.24	6-5/8	168.28	C01308
	14.50			14.50	0.5709	4.80	122.00	6.61	168.00	C01309
37/64"				14.68	0.5781	4-13/16	122.24	6-5/8	168.28	C01310
	15.00			15.00	0.5906	5.20	132.00	7.13	181.00	C01312
19/32"				15.08	0.5938	5-3/16	131.76	7-1/8	180.98	C01313
39/64"				15.48	0.6094	5-3/16	131.76	7-1/8	180.98	C01315
	15.50			15.50	0.6102	5.20	132.00	7.13	181.00	C01316
5/8"				15.88	0.6250	5-3/16	131.76	7-1/8	180.98	C01318
	16.00			16.00	0.6299	5.20	132.00	7.13	181.00	C01319
41/64"				16.27	0.6406	5-3/16	131.76	7-1/8	180.98	C01321
	16.50			16.50	0.64.96	5.20	132.00	7.13	181.00	C01322
21/32"				16.67	0.6562	5-3/16	131.76	7-1/8	180.98	C01323
	17.00			17.00	0.6693	5.63	143.00	7.64	194.00	C01325
43/64"				17.07	0.6719	5-5/8	142.88	7-5/8	193.68	C01326
11/16"				17.46	0.6875	5-5/8	142.88	7-5/8	193.68	C01328
	17.50			17.50	0.6890	5.63	143.00	7.64	194.00	C01329

Juegos

Medidas	No. de Pzas.	Código
1/16 a 1/2 x 64avos	29	C00888
de 1mm a 13mm por 05mm	25	C00943



Zanco Reducido a 1/2"

Lista 936 Brocas Zanco Reducido a 1/2" Uso General Acero Alta Velocidad

CARACTERISTICAS

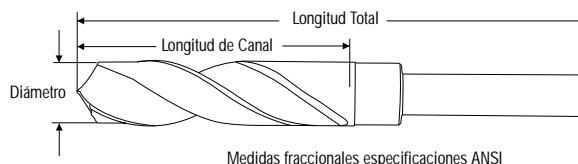
ESPECIFICACIONES ANSI	A.A.V.
USO GENERAL	EN-NEGRECIDO
ZANCO	38°
	118°

APLICACIONES

ACERO AL CARBÓN
ACERO ALEADO
FUNDICIÓN



Lista 936 Ennegrecido Zanco Reducido a 1/2"



Diámetro Fracc.	Equivalencia		Long. Canal		Long. Total		EDP Ennegrecido
	Decimal	mm	Pulg.	mm	Pulg.	mm	
33/64	0.5156	13.10	3-1/8	79.375	6	152.40	C11162
17/32	0.5312	13.49	3-1/8	79.375	6	152.40	C11164
9/16	0.5625	14.29	3-1/8	79.375	6	152.40	C11170
19/32	0.5938	15.08	3-1/8	79.375	6	152.40	C11175
5/8	0.6250	15.88	3-1/8	79.375	6	152.40	C11180
21/32	0.6562	16.67	3-1/8	79.375	6	152.40	C11185
11/16	0.6875	17.46	3-1/8	79.375	6	152.40	C11190
23/32	0.7188	18.26	3-1/8	79.375	6	152.40	C11194
3/4	0.7500	19.05	3-1/8	79.375	6	152.40	C11198
25/32	0.7812	19.84	3	76.19	6	152.40	C11201
13/16	0.8125	20.64	3	76.19	6	152.40	C11205
27/32	0.8438	21.43	3	76.19	6	152.40	C11208
7/8	0.8750	22.23	3	76.19	6	152.40	C11212
29/32	0.9062	23.02	3	76.19	6	152.40	C11216
15/16	0.9375	23.81	3	76.19	6	152.40	C11219
31/32	0.9688	24.61	3	76.19	6	152.40	C11223
1	1.0000	25.40	3	76.19	6	152.40	C11226
1-1/16	1.0625	26.99	3	76.19	6	152.40	C11233
1-1/8	1.1250	28.58	3	76.19	6	152.40	C11241
1-3/16	1.1875	30.16	3	76.19	6	152.40	C11248
1-1/4	1.2500	31.75	3	76.19	6	152.40	C11255

BROCAS

RIMAS

MACHUELOS

CORTADORES

OTRAS HERRAMIENTAS



Zanco Recto

Lista 2213 Brocas Jobber Aircraft Acero Alta Velocidad al Cobalto

BROCAS

CARACTERISTICAS

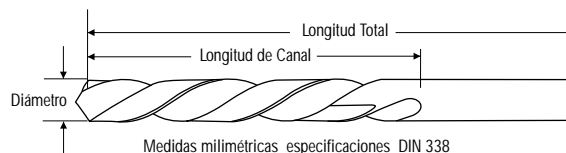
NAS 907 TYPE J	M42
TRABAJO PESADO	COLOR PAJA
ZANCO	135° SPLIT
	30°

APLICACIONES

ALEACIÓN DE COBRE	ACERO GRADO HERRAMIENTA
ALUMINIO	ACERO PARA DADOS
INCONEL	ACERO ESTRUCTURAL
ALEACIÓN DE TITANIO	INOXIDABLE PRECIPITADO ENDURECIDO



Lista 2213 Color Paja



RIMAS

MACHUELOS

CORTADORES

OTRAS HERRAMIENTAS

Diámetro Fracc.	Equivalencia		Long. Canal		Long. Total		EDP
	Decimal	mm	Pulg.	mm	Pulg.	mm	
1/64	.0156	0.40	.188	4.76	.750	19.05	C70000
1/32	.0312	0.79	.500	12.70	1.375	34.93	C70001
3/64	.0469	1.19	.750	19.05	1.750	44.45	C70002
1/16	.0625	1.59	.875	22.23	1.875	47.63	C70003
5/64	.0781	1.98	1.000	25.40	2.000	50.80	C70004
3/32	.0938	2.38	1.250	31.75	2.250	57.12	C70005
7/64	.1094	2.78	1.500	38.10	2.625	66.68	C70006
1/8	.1250	3.18	1.625	41.28	2.750	69.85	C70007
9/64	.1406	3.57	1.750	44.45	2.875	73.03	C70008
5/32	.1562	3.97	2.000	50.80	3.125	79.38	C70009
11/64	.1719	4.37	2.125	53.98	3.250	82.55	C70010
3/16	.1875	4.76	2.313	58.74	3.500	88.90	C70011
13/64	.2031	5.16	2.438	61.91	3.625	92.08	C70012
7/32	.2205	5.56	2.500	63.50	3.750	95.25	C70013
15/64	.2344	5.95	2.625	66.68	3.875	98.43	C70014
1/4	.2500	6.35	2.750	69.85	4.000	101.60	C70015
17/64	.2656	6.75	2.875	73.03	4.125	104.78	C70016
9/32	.2812	7.14	2.938	74.61	4.250	107.95	C70017
19/64	.2969	7.54	3.063	77.79	4.375	111.13	C70018
5/16	.3125	7.94	3.188	80.96	4.500	114.30	C70019
21/64	.3281	8.33	3.313	84.14	4.625	117.48	C70020
11/32	.3438	8.73	3.438	87.31	4.750	120.65	C70021
23/64	.3594	9.13	3.500	88.90	4.875	123.93	C70022
3/8	.3750	9.53	3.625	92.80	5.000	127.00	C70023
25/64	.3906	9.92	3.750	95.25	5.125	130.18	C70024
13/32	.4063	10.32	3.875	98.43	5.250	133.35	C70025
27/64	.4219	10.72	3.938	100.01	5.375	136.53	C70026
7/16	.4375	11.11	4.063	103.19	5.500	139.70	C70027
29/64	.4531	11.51	4.188	106.36	5.625	142.88	C70028
15/32	.4688	11.91	4.313	109.54	5.750	146.05	C70029
31/64	.4844	12.30	4.375	111.12	5.875	149.23	C70030
1/2	.5000	12.70	4.500	114.30	6.000	152.40	C70031

Juegos

No. de Piezas	No. Lista	Acabado	Rango de Medidas	EDP
29	2213	oxido de paja	1/16" a 1/2" x 1/64"	C70365
26	2213	oxido de paja	de la letra A a la letra Z	C00986
60	2213	oxido de paja	calibre #1 a calibre#60	C70366
115	2213	oxido de paja	1/16" a 1/2" x 1/64" de la "A" a la "Z" y de calibre #1 a calibre #60	C70367



Lista 3722-6 Brocas Aircraft Acero Alta Velocidad al Cobalto 6"

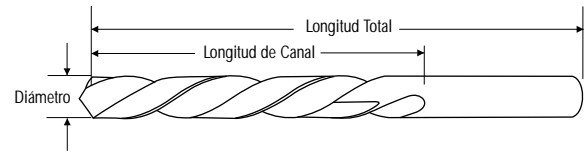
CARACTERISTICAS



APLICACIONES



Lista 3722-6 Color paja



Diámetro		Equivalencia		Long. Canal		Long. Total		EDP
Fraccionales	Númerica.	Decimal	mm	Pulg.	mm	Pulg.	mm	
1/8	40	.0980	2.49	1.375	34.93	6.000	152.40	C08144
		.1250	3.18	1.625	41.28	6.000	152.40	C08115
5/32	30	.1285	3.26	1.625	41.28	6.000	152.40	C08142
	27	.1440	3.66	1.875	47.63	6.000	152.40	C08140
		.1562	3.97	2.000	50.80	6.000	152.40	C08117
3/16	21	.1590	4.04	2.000	50.80	6.000	152.40	C08138
		.1610	4.09	2.125	53.98	6.000	152.40	C08137
	16	.1770	4.50	2.188	55.56	6.000	152.40	C08135
		.1850	4.70	2.313	58.74	6.000	152.40	C08134
7/32	13	.1875	4.76	2.313	58.74	6.000	152.40	C08119
		.1910	4.85	2.313	58.74	6.000	152.40	C08133
	11	.1935	4.91	2.438	61.91	6.000	152.40	C08132
1/4	10	.1990	5.05	2.438	61.91	6.000	152.40	C08130
		.2188	5.56	2.500	63.50	6.000	152.40	C08121
	8	.2500	6.35	2.750	69.85	6.000	152.40	C08123

BROCAS

RIMAS

MACHUELOS

CORTADORES

OTRAS HERRAMIENTAS

Screw Machine

Lista 2120 Brocas Serie Corta Acero Alta Velocidad Uso General

BROCAS

CARACTERISTICAS

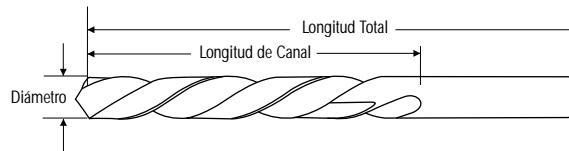
ESPECIFICACIONES ANSI	A.A.V.
USO GENERAL	BRILLANTE
ZANCO	118°
	30°

APLICACIONES

ACERO ALEADO	ALUMINIO
ACERO AL CARBON	ALEACION DE COBRE
HIERRO FUNDIDO	BRONCE



Lista 2120 Brillante



RIMAS

MACHUELOS

CORTADORES

OTRAS HERRAMIENTAS

Fraccionales	Diámetro		Equivalencia		Long. Canal		Long. Total		EDP Ennegrecido
	Númerica.	Decimal	mm	mm	Pulg.	mm	Pulg.	mm	
	60	.0400	1.02	.500	12.70	1.375	34.93	C04356	
	59	.0410	1.04	.500	12.70	1.375	34.93	C04357	
	58	.0420	1.07	.500	12.70	1.375	34.93	C04359	
	57	.0430	1.09	.500	12.70	1.375	34.93	C04360	
3/64	56	.0465	1.18	.500	12.70	1.375	34.93	C04363	
		.0469	1.19	.500	12.70	1.375	34.93	C04364	
	55	.0520	1.32	.625	15.88	1.625	41.28	C04368	
	54	.0550	1.40	.625	15.88	1.625	41.28	C04370	
1/16	53	.0595	1.51	.625	15.88	1.625	41.28	C04374	
		.0625	1.59	.625	15.88	1.625	41.28	C04376	
	52	.0635	1.61	.688	17.46	1.688	42.86	C04378	
	51	.0670	1.70	.688	17.46	1.688	42.86	C04381	
	50	.0700	1.78	.688	17.46	1.688	42.86	C04383	
	49	.0730	1.85	.688	17.46	1.688	42.86	C04386	
5/64	48	.0760	1.93	.688	17.46	1.688	42.86	C04388	
		.0781	1.98	.688	17.46	1.688	42.86	C04390	
	47	.0785	1.99	.750	19.05	1.750	44.45	C04391	
	46	.0810	2.06	.750	19.05	1.750	44.45	C04394	
	45	.0820	2.08	.750	19.05	1.750	44.45	C04395	
	44	.0860	2.18	.750	19.05	1.750	44.45	C04398	
	43	.0890	2.26	.750	19.05	1.750	44.45	C04401	
	42	.0935	2.38	.750	19.05	1.750	44.45	C04404	
3/32		.0938	2.38	.750	19.05	1.750	44.45	C04405	
		.0960	2.44	.813	20.64	1.813	46.04	C04407	
	40	.0980	2.49	.813	20.64	1.813	46.04	C04409	
	39	.0995	2.53	.813	20.64	1.813	46.04	C04411	
	38	.1015	2.58	.813	20.64	1.813	46.04	C04412	
	37	.1040	2.64	.813	20.64	1.813	46.04	C04414	
7/64	36	.1065	2.71	.813	20.64	1.813	46.04	C04416	
		.1094	2.78	.813	20.64	1.813	46.04	C04418	
	35	.1100	2.79	.875	22.23	1.875	47.63	C04419	
	34	.1110	2.82	.875	22.23	1.875	47.63	C04421	
	33	.1130	2.87	.875	22.23	1.875	47.63	C04422	
	32	.1160	2.95	.875	22.23	1.875	47.63	C04424	
1/8	31	.1200	3.05	.875	22.23	1.875	47.63	C04426	
		.1250	3.18	.875	22.23	1.875	47.63	C04428	
	30	.1285	3.26	.938	23.81	1.938	49.21	C04431	
	29	.1360	3.45	.938	23.81	1.938	49.21	C04434	
9/64	28	.1405	3.57	.938	23.81	1.938	49.21	C04436	
		.1406	3.57	.938	23.81	1.938	49.21	C04437	
	27	.1440	3.66	1.000	25.40	2.063	52.39	C04439	
	26	.1470	3.73	1.000	25.40	2.063	52.39	C04441	
	25	.1495	3.80	1.000	25.40	2.063	52.39	C04443	
	24	.1520	3.86	1.000	25.40	2.063	52.39	C04445	

Continua en la siguiente Página



Lista 2120 Brocas Serie Corta Acero Alta Velocidad Uso General (continuación)

Fraccionales	Diámetro		Equivalencia		Long. Canal		Long. Total		EDP
	Numérica.	Decimal	mm	Pulg.	mm	Pulg.	mm	Ennegrecido	
5/32	23	.1540	3.91	1.000	25.40	2.063	52.39	C04447	
		.1562	3.97	1.000	25.40	2.063	52.39	C04448	
	22	.1570	3.99	1.063	26.99	2.125	53.98	C04449	
	21	.1590	4.04	1.063	26.99	2.125	53.98	C04451	
11/64	20	.1610	4.09	1.063	26.99	2.125	53.98	C04452	
	19	.1660	4.22	1.063	26.99	2.125	53.98	C04455	
	18	.1695	4.31	1.063	26.99	2.125	53.98	C04458	
		.1719	4.37	1.063	26.99	2.125	53.98	C04459	
3/16	17	.1730	4.39	1.125	28.58	2.188	55.56	C04460	
	16	.1770	4.50	1.125	28.58	2.188	55.56	C04462	
	15	.1800	4.57	1.125	28.58	2.188	55.56	C04464	
	14	.1820	4.62	1.125	28.58	2.188	55.56	C04466	
13/64	13	.1850	4.70	1.125	28.58	2.188	55.56	C04467	
		.1875	4.76	1.125	28.58	2.188	55.56	C04470	
	12	.1890	4.80	1.188	30.16	2.250	57.15	C04471	
	11	.1910	4.85	1.188	30.16	2.250	57.15	C04473	
7/32	10	.1935	4.92	1.188	30.16	2.250	57.15	C04475	
	9	.1960	4.98	1.188	30.16	2.250	57.15	C04476	
	8	.1990	5.06	1.188	30.16	2.250	57.15	C04478	
	7	.2010	5.11	1.188	30.16	2.250	57.15	C04480	
1/4		.2031	5.16	1.188	30.16	2.250	57.15	C04481	
	6	.2040	5.18	1.250	31.75	2.375	60.33	C04482	
	5	.2055	5.22	1.250	31.75	2.375	60.33	C04484	
	4	.2090	5.31	1.250	31.75	2.375	60.33	C04487	
1/2	3	.2130	5.41	1.250	31.75	2.375	60.33	C04489	
		.2188	5.56	1.250	31.75	2.375	60.33	C04491	
	2	.2210	5.61	1.313	33.34	2.438	61.91	C04493	
	1	.2280	5.79	1.313	33.34	2.438	61.91	C04496	
15/64		.2344	5.95	1.313	33.34	2.438	61.91	C04500	
17/64		.2500	6.35	1.375	34.93	2.500	63.50	C04509	
9/32		.2656	6.75	1.438	36.51	2.625	66.68	C04517	
19/64		.2812	7.14	1.500	38.10	2.688	68.26	C04531	
5/16		.2969	7.54	1.563	39.69	2.750	69.85	C04535	
21/64		.3125	7.94	1.625	41.28	2.813	71.44	C04542	
11/32		.3281	8.33	1.688	42.86	2.938	74.61	C04550	
23/64		.3438	8.73	1.688	42.96	3.000	76.20	C04557	
3/8		.3594	9.13	1.750	44.45	3.063	77.79	C04565	
25/64		.3750	9.53	1.813	46.04	3.125	79.38	C04572	
13/32		.3906	9.92	1.875	47.63	3.250	82.55	C04580	
27/64		.4062	10.32	1.938	49.21	3.313	84.14	C04585	
7/16		.4219	10.72	2.000	50.80	3.375	85.73	C04588	
29/64		.4375	11.11	2.063	52.39	3.438	87.31	C04591	
15/32		.4531	11.51	2.125	53.98	3.563	90.49	C04594	
31/64		.4688	11.91	2.125	53.98	3.625	92.08	C04596	
1/2		.4844	12.30	2.188	55.56	3.688	93.66	C04599	
33/64		.5000	12.70	2.250	57.15	3.750	95.25	C04601	
17/32		.5156	13.10	2.375	60.33	3.875	98.43	C04604	
35/64		.5312	13.49	2.375	60.33	3.875	98.43	C04606	
9/16		.5469	13.89	2.500	63.50	4.000	101.60	C04609	
37/64		.5625	14.29	2.500	63.50	4.000	101.60	C04612	
19/32		.5781	14.68	2.625	66.68	4.125	104.78	C04614	
		.5938	15.08	2.625	66.68	4.125	104.78	C04617	

Continúa en la siguiente Página

Lista 2120 Brocas Serie Corta Acero Alta Velocidad Uso General (continuación)

Fraccionales	Diámetro		Equivalencia		Long. Canal		Long. Total		EDP
	Numérica.	Decimal	mm	Pulgs.	mm	Pulgs.	mm	Ennegrecido	
39/64		.6094	15.48	2.750	69.85	4.250	107.95	C04619	
5/8		.6250	15.88	2.750	69.85	4.250	107.95	C04622	
41/64		.6406	16.27	2.875	73.03	4.500	114.30	C04625	
21/32		.6562	16.67	2.875	73.03	4.500	114.30	C04627	
43/64		.6719	17.07	2.875	73.03	4.625	117.48	C04630	
11/16		.6875	17.46	2.875	73.03	4.625	117.48	C04632	
45/64		.7031	17.86	3.000	76.20	4.750	120.65	C04634	
23/32		.7188	18.26	3.000	76.20	4.750	120.65	C04636	
47/64		.7344	18.65	3.125	79.38	5.000	127.00	C04638	
3/4		.7500	19.05	3.125	79.38	5.000	127.00	C04640	
49/64		.7656	19.45	3.250	82.55	5.125	130.18	C04641	
25/32		.7812	19.84	3.250	82.55	5.125	130.18	C04643	
51/64		.7969	20.24	3.375	85.73	5.250	133.35	C04645	
13/16		.8125	20.64	3.375	85.73	5.250	133.35	C04647	
53/64		.8281	21.03	3.500	88.90	5.375	136.53	C04649	
27/32		.8438	21.43	3.500	88.90	5.375	136.53	C04650	
55/64		.8594	21.83	3.500	88.90	5.500	139.70	C04652	
7/8		.8750	22.23	3.500	88.90	5.500	139.70	C04654	
57/64		.8906	22.62	3.625	92.08	5.625	142.88	C04656	
29/32		.9062	23.02	3.625	92.08	5.625	142.88	C04658	
59/64		.9219	23.42	3.750	95.25	5.750	146.05	C04559	
15/16		.9375	23.81	3.750	95.25	5.750	146.05	C04661	
61/64		.9531	24.21	3.875	98.43	5.875	149.23	C04663	
31/32		.9688	24.61	3.875	98.43	5.875	149.23	C04665	
63/64		.9844	25.00	4.000	101.60	6.000	152.40	C04667	
1		1.0000	25.40	4.000	101.60	6.000	152.40	C04668	
1-1/16		1.0625	26.99	4.000	101.60	6.250	158.75	C04675	
1-1/8		1.1250	28.58	4.000	101.60	6.375	161.93	C04683	
1-3/16		1.1875	30.16	4.250	107.95	6.625	168.28	C04690	
1-1/4		1.2500	31.75	4.375	111.13	6.750	171.45	C04697	
1-5/16		1.3125	33.34	4.375	111.13	7.000	177.80	C04704	
1-3/8		1.3750	34.93	4.500	114.30	7.125	180.98	C04711	
1-7/16		1.4375	36.51	4.750	120.65	7.375	187.33	C04719	
1-1/2		1.5000	38.10	4.875	123.83	7.500	190.50	C04726	
1-9/16		1.5625	39.69	4.875	123.83	7.750	196.85	C04733	
1-5/8		1.6250	41.28	4.875	123.83	7.750	196.85	C04740	
1-11/16		1.6875	42.86	5.125	130.18	8.000	203.20	C04747	
1-3/4		1.7500	44.45	5.125	130.18	8.000	203.20	C04754	

BROCAS

RIMAS

MACHUELOS

CORTADORES

OTRAS HERRAMIENTAS



Lista 2510 Brocas Serie Larga Uso General Alta Velocidad

CARACTERÍSTICAS

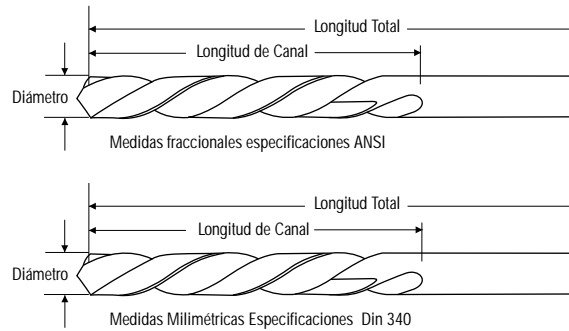
ESPECIFICACIONES ANSI	A.A.V.
DIN 340	EN-NEGRECIDO
USO GENERAL	38°
ZANCO	118°

APLICACIONES

ACERO AL CARBÓN
ACERO ALEADO
FUNDICIÓN



Lista 2510 Ennegrecido



Diámetro Fraccionales	Equivalencia		Long. Canal		Long. Total		EDP Ennegrecido
	Decimal	mm	Pulg.	mm	Pulg.	mm	
3/64	.0469	1.19	1-1/8	28.58	2-1/4	57.15	C08601
1/16	.0625	1.59	1-3/4	44.45	3	76.20	C08613
5/64	.0781	1.98	2	50.80	3 3/4	95.25	C08627
3/32	.0938	2.38	2-1/4	57.12	4 1/4	107.95	C08642
7/64	.1094	2.78	2-1/2	63.50	4 5/8	117.48	C08655
1/8	.1250	3.18	2-3/4	69.85	5 1/8	130.18	C08665
9/64	.1406	3.57	3	76.20	5 3/8	136.53	C08674
5/32	.1562	3.97	3	76.20	5 3/8	136.53	C08685
11/64	.1719	4.37	3-3/8	85.73	5 3/4	146.05	C08696
3/16	.1875	4.76	3-3/8	85.73	5 3/4	146.05	C08707
13/64	.2031	5.16	3-5/8	92.08	6	152.40	C08718
7/32	.2188	5.56	3-5/8	92.08	6	152.40	C08728
15/64	.2344	5.95	3-3/4	95.25	6 1/8	155.58	C08737
1/4	.2500	6.35	3-3/4	95.25	6 1/8	155.58	C08746
17/64	.2656	6.75	3-7/8	98.43	6 1/4	158.75	C08752
9/32	.2812	7.14	3-7/8	98.43	6 1/4	158.75	C08766
19/64	.2969	7.54	4	101.60	6 3/8	161.93	C08770
5/16	.3125	7.94	4	101.60	6 3/8	161.93	C08777
21/64	.3281	8.33	4-1/8	104.78	6 1/2	165.10	C08785
11/32	.3438	8.73	4-1/8	104.78	6 1/2	165.10	C08792
23/64	.3594	9.13	4-1/4	107.95	6 3/4	171.45	C08800
3/8	.3750	9.53	4-1/4	107.95	6 3/4	171.45	C08807
25/64	.3906	9.92	4-3/8	111.13	7	177.80	C08815
13/32	.4062	10.32	4-3/8	111.13	7	177.80	C08821
27/64	.4219	10.72	4-5/8	117.48	7 1/4	184.15	C08824
7/16	.4375	11.11	4-5/8	117.48	7 1/4	184.15	C08827
29/64	.4531	11.51	4-3/4	120.65	7 1/2	190.50	C08830
15/32	.4688	11.91	4-3/4	120.65	7 1/2	190.50	C08832
31/64	.4844	12.30	4-3/4	120.65	7 3/4	196.85	C08835
1/2	.5000	12.70	4-3/4	120.65	7 3/4	196.85	C08837
33/64	.5156	13.10	4-3/4	120.65	8	203.20	C08840
17/32	.5312	13.49	4-3/4	120.65	8	203.20	C08842
35/64	.5469	13.89	4-7/8	123.83	8 1/4	209.55	C08845
9/16	.5625	14.29	4-7/8	123.83	8/14	209.55	C08848



BROCAS
 RIMAS
 MACHUELOS
 CORTADORES
 OTRAS HERRAMIENTAS

Zanco Largo

Lista 2510 Brocas Serie Larga Uso General Alta Velocidad (continuación)

Diámetro Fraccionales	Equivalencia		Long. Canal		Long. Total		EDP Ennegrecido
	Decimal	mm	Pulg.	mm	Pulg.	mm	
37/64	.5781	14.68	4-7/8	123.83	8 3/41	222.25	C08850
19/32	.5938	15.08	4-7/8	123.83	8 3/41	222.25	C08853
39/64	.6094	15.48	4-7/8	123.83	8 3/41	222.25	C08855
5/8	.6250	15.88	4-7/8	123.83	8 3/41	222.25	C08858
41/64	.6406	16.27	5-1/8	130.18	9 1	228.60	C08861
21/32	.6562	16.67	5-1/8	130.18	9 1	228.60	C08863
43/64	.6719	17.07	5-3/8	136.53	9 1/41	234.95	C08866
11/16	.6875	17.46	5-3/8	136.53	9 1/41	234.95	C08868
45/64	.7031	17.86	5-5/8	142.88	9 1/21	241.30	C08870
23/32	.7188	18.26	5-5/8	142.88	9 1/21	241.30	C08872
47/64	.7344	18.65	5-7/8	149.23	9 3/41	247.65	C08874
3/4	.7500	19.05	5-7/8	149.23	9 3/41	247.65	C08876
49/64	.7656	19.45	6	152.40	9 7/81	250.83	C08877
25/32	.7812	19.84	6	152.40	9 7/81	250.83	C08879
51/64	.7969	20.24	6-1/8	155.58	10 1	254.00	C08881
13/16	.8125	20.64	6-1/8	155.58	10 1	254.00	C08883
53/64	.8281	21.03	6-1/8	155.58	10 1	254.00	C08885
27/32	.8438	21.43	6-1/8	155.58	10 1	254.00	C08886
55/64	.8594	21.83	6-1/8	155.58	10 1	254.00	C08888
7/8	.8750	22.23	6-1/8	155.58	10 1	254.00	C08890
57/64	.8906	22.62	6-1/8	155.58	10 1	254.00	C08892
29/32	.9062	23.02	6-1/8	155.58	10 1	254.00	C08894
59/64	.9219	23.42	6-1/8	155.58	10 3/41	273.05	C08895
15/16	.9375	23.81	6-1/8	155.58	10 3/41	273.05	C08897
61/64	.9531	24.21	6-3/8	161.93	11 1	279.40	C08899
31/32	.9688	24.61	6-3/8	161.93	11 1	279.40	C08901
63/64	.9844	25.00	6-3/8	161.93	11 1	279.40	C08903
1	1.0000	25.40	6-3/8	161.93	11 1	279.40	C08904
1-1/64	1.0156	25.80	6-1/2	165.10	11 1/81	282.58	C08906
1-1/32	1.0312	26.19	6-1/2	165.10	11 1/81	282.58	C08908
1-3/64	1.0469	26.59	6-5/8	168.28	11 1/41	285.75	C08910
1-1/16	1.0625	26.99	6-5/8	168.28	11 1/41	285.75	C08911
1-1/8	1.1250	28.58	7-1/8	180.98	11 3/41	298.45	C08919
1-1/4	1.2500	31.75	7-7/8	200.03	12-1/21	317.50	C08933

BROCAS

RIMAS

MACHUELOS

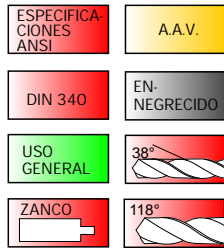
CORTADORES

OTRAS HERRAMIENTAS

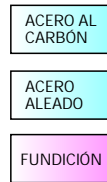


Lista 2520 Brocas Zanco Automotriz Uso General Acero Alta Velocidad

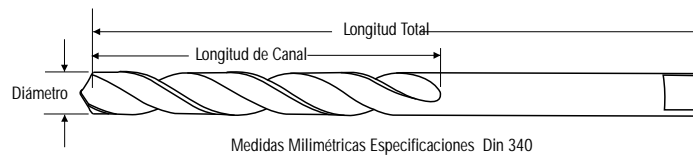
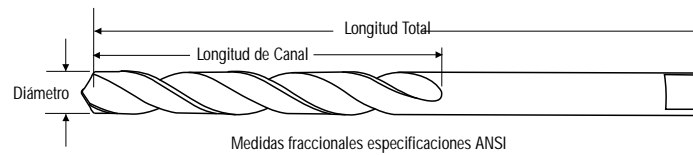
CARACTERÍSTICAS



APLICACIONES



Lista 2520 Ennegrecido Serie Larga



Diámetro Fraccionales	Equivalencia		Long. Canal		Long. Total		EDP Ennegrecido
	Decimal	mm	Pulg.	mm	Pulg.	mm	
1/8	.1250	3.18	2-3/4	69.85	5 1/8	130.18	C08423
9/64	.1406	3.57	3	76.20	5 3/8	136.53	C08429
5/32	.1562	3.97	3	76.20	5 3/8	136.53	C08435
11/64	.1719	4.37	3-3/8	85.73	5 3/4	146.05	C08441
3/16	.1875	4.76	3-3/8	85.73	5 3/4	146.05	C08447
13/64	.2031	5.16	3-5/8	92.08	6	152.40	C08452
7/32	.2188	5.56	3-5/8	92.08	6	152.40	C08458
15/64	.2344	5.95	3-3/4	95.25	6 1/8	155.58	C08464
1/4	.2500	6.35	3-3/4	95.25	6 1/8	155.58	C08470
17/64	.2656	6.75	3-7/8	98.43	6 1/4	158.75	C08475
9/32	.2812	7.14	3-7/8	98.43	6 1/4	158.75	C08484
19/64	.2969	7.54	4	101.60	6 3/8	161.93	C08487
5/16	.3125	7.94	4	101.60	6 3/8	161.93	C08493
21/64	.3281	8.33	4-1/8	104.78	6 1/2	165.10	C08499
11/32	.3438	8.73	4-1/8	104.78	6 1/2	165.10	C08504
23/64	.3594	9.13	4-1/4	107.95	6 3/4	171.45	C08510
3/8	.3750	9.53	4-1/4	107.95	6 3/4	171.45	C08516
25/64	.3906	9.92	4-3/8	111.13	7	177.80	C08522
13/32	.4062	10.32	4-3/8	111.13	7	177.80	C08525
27/64	.4219	10.72	4-5/8	117.48	7 1/4	184.15	C08527
7/16	.4375	11.11	4-5/8	117.48	7 1/4	184.15	C08530
29/64	.4531	11.51	4-3/4	120.65	7 1/2	190.50	C08533
15/32	.4688	11.91	4-3/4	120.65	7 1/2	190.50	C08535
31/64	.4844	12.30	4-3/4	120.65	7 3/4	196.85	C08538
1/2	.5000	12.70	4-3/4	120.65	7 3/4	196.85	C08540
33/64	.5156	13.10	4-3/4	120.65	8	203.20	C08543
17/32	.5312	13.49	4-3/4	120.65	8	203.20	C08545
35/64	.5469	13.89	4-7/8	123.83	8 1/4	209.55	C08548
9/16	.5625	14.29	4-7/8	123.83	8 1/4	209.55	C08551
37/64	.5781	14.68	4-7/8	123.83	8 3/4	222.25	C08553
19/32	.5938	15.08	4-7/8	123.83	8 3/4	222.25	C08556
39/64	.6094	15.48	4-7/8	123.83	8 3/4	222.25	C08558
5/8	.6250	15.88	4-7/8	123.83	8 3/4	222.25	C08561
41/64	.6406	16.27	5-1/8	130.18	9	228.60	C08564
21/32	.6562	16.67	5-1/8	130.18	9	228.60	C08566
43/64	.6719	17.07	5-3/8	136.53	9 1/4	234.95	C08569
11/16	.6875	17.46	5-3/8	136.53	9 1/4	234.95	C08571



BROCAS
 RIMAS
 MACHUELOS
 CORTADORES
 OTRAS HERRAMIENTAS

Zanco Recto

Lista 2550 Brocas Serie Larga Acero Alta Velocidad Hélice Alta

BROCAS

CARACTERÍSTICAS

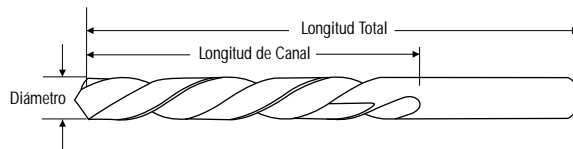
ESPECIFICACIONES ANSI	A.A.V.
USO GENERAL	BRILLANTE
ZANCO	118°
	38°

APLICACIONES

ACERO ALEADO
ALUMINIO
ALEACIÓN DE COBRE
PLASTICO



Lista 2550 Brillante



RIMAS

MACHUELOS

CORTADORES

OTRAS HERRAMIENTAS

Diámetro Fraccionales	Equivalencia		Long. Canal		Long. Total		EDP Ennegrecido
	Decimal	mm	Pulg.	mm	Pulg.	mm	
1/32	.0312	0.79	.750	19.05	1.625	41.28	C09060
3/64	.0469	1.19	1.125	28.58	2.250	57.15	C09070
1/16	.0625	1.59	1.750	44.45	3.000	76.20	C09082
5/64	.0781	1.98	2.000	50.80	3.750	95.25	C09096
3/32	.0938	2.38	2.250	57.15	4.250	107.95	C09111
7/64	.1094	2.78	2.500	63.50	4.625	117.48	C09124
1/8	.1250	3.18	2.750	69.85	5.125	130.18	C09134
9/64	.1406	3.57	3.000	76.20	5.375	136.53	C09143
5/32	.1562	3.97	3.000	76.20	5.375	136.53	C09154
11/64	.1719	4.37	3.375	85.73	5.750	146.05	C09165
3/16	.1875	4.76	3.375	85.73	5.750	146.05	C09176
13/64	.2031	5.16	3.625	92.08	6.000	152.40	C09187
7/32	.2188	5.56	3.625	92.08	6.000	152.40	C09197
15/64	.2344	5.95	3.750	95.25	6.125	155.58	C09205
1/4	.2500	6.35	3.750	95.25	6.125	155.58	C09211
17/64	.2656	6.75	3.875	98.43	6.250	158.75	C09216
9/32	.2812	7.14	3.875	98.43	6.250	158.75	C09225
19/64	.2969	7.54	4.000	101.60	6.375	161.93	C09228
5/16	.3125	7.94	4.000	101.60	6.375	161.93	C09234
21/64	.3281	8.33	4.125	104.78	6.500	165.10	C09240
11/32	.3438	8.73	4.125	104.78	6.500	165.10	C09245
23/64	.3594	9.13	4.250	107.95	6.750	171.45	C09291
3/8	.3750	9.53	4.250	107.95	6.750	171.45	C09257
13/32	.4062	10.32	4.375	111.13	7.000	177.80	C09266
7/16	.4375	11.11	4.625	117.48	7.250	184.15	C09271
15/32	.4688	11.91	4.750	120.65	7.750	196.85	C09276
1/2	.5000	12.70	4.750	120.65	7.750	196.85	C09281



Lista 950 E Brocas Extra Larga Uso General Acero Alta Velocidad

CARACTERISTICAS

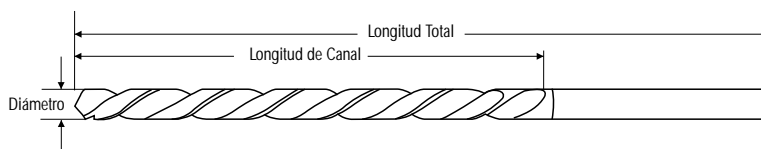
ESPECIFICACIONES ANSI: A.A.V.
 USO GENERAL: EN-NEGRECIDO
 ZANCO: 118° y 30°

APLICACIONES

ACERO AL CARBÓN
 ACERO GRADO HERRAMIENTA
 FUNDICIÓN



Lista 950 E Ennegrecido



Medidas fraccionales especificaciones ANSI

Diám. Fracc	Equivalencia Dec.	mm	Long. Canal Pulgs.	mm	Long. Total Pulgs.	mm	EDP Ennegrecido
3/32	.0938	2.38	5.500	139.70	8	203.20	C09655
7/64	.1094	2.78	5.500	139.70	8	203.20	C09656
1/8	.1250	3.18	5.500	139.70	8	203.20	C09657
1/8	.1250	3.18	7.500	190.50	10	254.00	C09707
1/8	.1250	3.18	9.000	228.60	12	304.80	C09736
9/64	.1406	3.57	5.500	139.70	8	203.20	C09658
5/32	.1562	3.97	5.500	139.70	8	203.20	C09659
5/32	.1562	3.97	7.500	190.50	10	254.00	C09709
5/32	.1562	3.97	9.000	228.60	12	304.80	C09738
11/64	.1719	4.37	5.500	139.70	8	203.20	C09660
3/16	.1875	4.76	5.500	139.70	8	203.20	C09661
3/16	.1875	4.76	7.500	190.50	10	254.00	C09711
3/16	.1875	4.76	9.000	228.60	12	304.80	C09740
13/64	.2031	5.16	5.500	139.70	8	203.20	C09662
7/32	.2188	5.56	5.500	139.70	8	203.20	C09663
7/32	.2188	5.56	7.500	190.50	10	254.00	C09713
7/32	.2188	5.56	9.000	228.60	12	304.80	C09742
15/64	.2344	5.95	5.500	139.70	8	203.20	C09664
15/64	.2344	5.95	7.500	190.50	10	254.00	C09714
1/4	.2500	6.35	5.500	139.70	8	203.20	C09665
1/4	.2500	6.35	7.500	190.50	10	254.00	C09715
1/4	.2500	6.35	9.000	228.60	12	304.80	C09744
1/4	.2500	6.35	14.000	355.60	18	457.20	C09831
17/64	.2656	6.75	5.500	139.70	8	203.20	C09666
9/32	.2812	7.14	5.500	139.70	8	203.20	C09667
9/32	.2812	7.14	7.500	190.50	10	254.00	C09717
9/32	.2812	7.14	9.000	228.60	12	304.80	C09746
9/32	.2812	7.14	14.000	355.60	18	457.20	C09833
19/64	.2969	7.54	5.500	139.70	8	203.20	C09668
5/16	.3125	7.94	5.500	139.70	8	203.20	C09669
5/16	.3125	7.94	7.500	190.50	10	254.00	C09719
5/16	.3125	7.94	9.000	228.60	12	304.80	C09748
5/16	.3125	7.94	14.000	355.60	18	457.20	C09835
21/64	.3281	8.33	5.500	139.70	8	203.20	C09670
11/32	.3438	8.73	5.500	139.70	8	203.20	C09671
11/32	.3438	8.73	7.500	190.50	10	254.00	C09721
11/32	.3438	8.73	9.000	228.60	12	304.80	C09750
11/32	.3438	8.73	14.000	355.60	18	457.20	C09837

Diám. Fracc	Equivalencia Dec.	mm	Long. Canal Pulgs.	mm	Long. Total Pulgs.	mm	EDP Ennegrecido
23/64	.3594	9.13	5.500	139.70	8	203.20	C09672
3/8	.3750	9.53	5.500	139.70	8	203.20	C09673
3/8	.3750	9.53	7.500	190.50	10	254.00	C09723
3/8	.3750	9.53	9.000	228.60	12	304.80	C09752
3/8	.3750	9.53	14.000	355.60	18	547.20	C09839
25/64	.3906	9.92	5.500	139.70	8	203.20	C09674
13/32	.4062	10.32	5.500	139.70	8	203.20	C09675
13/32	.4062	10.32	7.500	190.50	10	254.00	C09725
13/32	.4062	10.32	9.000	228.60	12	304.80	C09754
13/32	.4062	10.32	14.000	355.60	18	457.20	C09841
27/64	.4219	10.72	5.500	139.70	8	203.20	C09676
7/16	.4375	11.11	5.500	139.70	8	203.20	C09677
7/16	.4375	11.11	7.500	190.50	10	254.00	C09727
7/16	.4375	11.11	9.000	228.60	12	304.80	C09756
7/16	.4375	11.11	14.000	355.60	18	457.20	C09843
29/64	.4531	11.51	5.500	139.70	8	203.20	C09678
15/32	.4688	11.91	5.500	139.70	8	203.20	C09679
15/32	.4688	11.91	7.500	190.50	10	254.00	C09729
15/32	.4688	11.91	9.000	228.50	12	304.80	C09758
15/32	.4688	11.91	14.000	355.60	18	547.20	C09845
31/64	.4844	12.30	5.500	139.70	8	203.20	C09680
1/2	.5000	12.70	5.500	139.70	8	203.20	C09681
1/2	.5000	12.70	7.500	190.50	10	254.00	C09731
1/2	.5000	12.70	9.000	228.60	12	304.80	C09760
1/2	.5000	12.70	14.000	355.60	18	547.20	C09847
17/32	.5312	13.49	7.500	190.50	10	254.00	C09733
17/32	.5312	13.49	9.000	228.60	12	304.80	C09762
9/16	.5625	14.29	7.500	190.50	10	254.00	C09735
9/16	.5625	14.29	9.000	228.60	12	304.80	C09764
19/32	.5938	15.08	9.000	228.60	12	304.80	C09766
5/8	.6250	15.88	9.000	228.60	12	304.80	C09768
21/32	.6562	16.67	9.000	228.60	12	304.80	C09770
11/16	.6875	17.46	9.000	228.60	12	304.80	C09772
23/32	.7188	18.26	9.000	228.60	12	304.80	C09774
3/4	.7500	19.05	9.000	228.60	12	304.80	C09776



BROCAS
RIMAS
MACHUELOS
CORTADORES
OTRAS HERRAMIENTAS

Zanco Cónico

Lista 2410 Brocas Zanco Cónico Uso General Acero Alta Velocidad

BROCAS

RIMAS

MACHUELOS

CORTADORES

OTRAS HERRAMIENTAS

CARACTERISTICAS

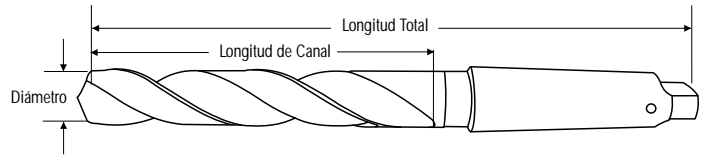
ESPECIFICACIONES ANSI
A.A.V.
USO GENERAL
EN-NEGRECIDO
ZANCO
38°
118°

APLICACIONES

ACERO AL CARBON
ACERO SIN ALEACION
FUNDICION



Lista 2410 Ennegrecido Serie Larga



Medidas fraccionales especificaciones ANSI

Diámetro Fraccionales	Equivalencia Decimal	mm	Long. Canal Pulgs.	mm	Long. Total Pulgs.	mm	Cono Morse	EDP Ennegrecido
1/8	.1250	3.18	1-7/8	47.63	5-1/8	130.18	1	C12040
5/32	.1562	3.97	2-1/8	53.98	5-3/8	136.53	1	C12052
11/64	.1719	4.37	2-1/2	63.50	5-3/4	146.05	1	C12058
3/16	.1875	4.76	2-1/2	63.50	5-3/4	146.05	1	C12064
13/64	.2031	5.16	2-3/4	69.85	6	152.40	1	C12069
7/32	.2188	5.56	2-3/4	69.85	6	152.40	1	C12075
15/64	.2344	5.95	2-7/8	73.03	6-1/8	155.58	1	C12082
1/4	.2500	6.35	2-7/8	73.03	6-1/8	155.58	1	C12091
17/64	.2656	6.75	3	76.20	6-1/4	158.75	1	C12099
9/32	.2812	7.14	3	76.20	6-1/4	158.75	1	C12113
19/64	.2969	7.54	3-1/8	79.38	6-3/8	161.93	1	C12117
5/16	.3125	7.94	3-1/8	79.38	6-3/8	161.93	1	C12124
21/64	.3281	8.33	3-1/4	82.55	6-1/2	165.10	1	C12132
11/32	.3438	8.73	3-1/4	82.55	6-1/2	165.10	1	C12139
23/64	.3954	9.13	3-1/2	88.90	6-3/4	171.45	1	C12147
3/8	.3750	9.53	3-1/2	88.90	6-3/4	171.45	1	C12154
25/64	.3906	9.92	3-5/8	92.08	7	177.80	1	C12162
13/32	.4062	10.32	3-5/8	92.08	7	177.80	1	C12167
27/64	.4219	10.72	3-7/8	98.43	7-1/4	184.15	1	C12170
7/16	.4375	11.11	3-7/8	98.43	7-1/4	184.15	1	C12173
29/64	.4531	11.51	4-1/8	104.78	7-1/2	190.50	1	C12176
15/32	.4688	11.91	4-1/8	104.78	7-1/2	190.50	1	C12178
31/64	.4844	12.30	4-3/8	111.13	8-1/4	209.55	2	C12181
1/2	.5000	12.70	4-3/8	111.13	8-1/4	209.55	2	C12183
33/64	.5156	13.10	4-5/8	117.48	8-1/2	215.90	2	C12186
17/32	.5312	13.49	4-5/8	117.48	8-1/2	215.90	2	C12188
35/64	.5469	13.89	4-7/8	123.83	8-3/4	222.25	2	C12191
9/16	.5625	14.29	4-7/8	123.83	8-3/4	222.25	2	C12194
37/64	.5781	14.68	4-7/8	123.83	8-3/4	222.25	2	C12196
19/32	.5938	15.08	4-7/8	123.83	8-3/4	222.25	2	C12199
39/64	.6094	15.48	4-7/8	123.83	8-3/4	222.25	2	C12201
5/8	.6250	15.88	4-7/8	123.83	8-3/4	222.25	2	C12204
41/64	.6406	16.27	5-1/8	130.18	9	228.60	2	C12207
21/32	.6562	16.67	5-1/8	130.18	9	228.60	2	C12209
43/64	.6719	17.07	5-3/8	136.53	9-1/4	234.95	2	C12212
11/16	.6875	17.46	5-3/8	136.53	9-1/4	234.95	2	C12214
45/64	.7031	17.86	5-5/8	142.88	9-1/2	241.30	2	C12216
23/32	.7188	18.26	5-5/8	142.88	9-1/2	241.30	2	C12218

Continúa en la siguiente Página



Lista 2410 Brocas Zanco Cónico Uso General Acero Alta Velocidad (continuación)

Diámetro Fraccionales	Equivalencia		Long. Canal		Long. Total		Cono Morse	EDP Ennegrecido
	Decimal	mm	Pulg.	mm	Pulg.	mm		
47/64	.7344	18.65	5-7/8	149.23	9-3/4	247.65	2	C12220
3/4	.7500	19.05	5-7/8	149.23	9-3/4	247.65	2	C12222
49/64	.7656	18.45	6	152.40	9-7/8	250.83	2	C12223
25/32	.7812	19.84	6	152.40	9-7/8	250.83	2	C12225
51/64	.7969	20.24	6-1/8	155.58	10-3/4	273.05	3	C12227
13/16	.8125	20.64	6-1/8	155.58	10-3/4	273.05	3	C12229
53/64	.8281	21.03	6-1/8	155.58	10-3/4	273.05	3	C12231
27/32	.8438	21.43	6-1/8	155.58	10-3/4	273.05	3	C12232
55/64	.8594	21.88	6-1/8	155.58	10-3/4	273.05	3	C12234
7/8	.8750	22.23	6-1/8	155.58	10-3/4	273.05	3	C12236
57/64	.89.6	22.62	6-1/8	155.58	10-3/4	273.05	3	C12238
29/32	.9062	23.02	6-1/8	155.58	10-3/4	273.05	3	C12240
59/64	.9219	23.42	6-1/8	155.58	10-3/4	273.05	3	C12241
15/16	.9375	23.81	6-1/8	155.58	10-3/4	273.05	3	C12243
61/64	.9531	24.21	6-3/8	161.93	11	279.40	3	C12245
31/32	.9688	24.61	6-3/8	161.93	11	279.40	3	C12247
63/64	.9844	25.00	6-3/8	161.93	11	279.40	3	C12249
1	1.0000	25.40	6-3/8	161.93	11	279.40	3	C12250
1-1/64	1.0156	25.80	6-1/2	165.10	11-1/8	282.58	3	C12252
1-1/32	1.0312	26.19	6-1/2	165.10	11-1/8	282.58	3	C12254
1-3/64	1.0469	26.59	6-5/8	168.28	11-1/4	285.75	3	C12256
1-1/16	1.0625	26.99	6-5/8	168.28	11-1/4	285.75	3	C12257
1-5/64	1.0781	27.38	6-7/8	174.63	12-1/2	317.50	4	C12259
1-3/32	1.0938	27.78	6-7/8	174.63	12-1/2	317.50	4	C12261
1-7/64	1.1094	28.18	7-1/8	180.98	12-3/4	323.85	4	C12263
1-1/8	1.1250	28.58	7-1/8	180.98	12-3/4	323.85	4	C12265
1-9/64	1.1406	28.97	7-1/4	184.15	12-7/8	327.03	4	C12266
1-5/32	1.1562	29.37	7-1/4	184.15	12-7/8	327.03	4	C12268
1-11/64	1.1719	29.77	7-3/8	187.33	13	330.20	4	C12270
1-3/16	1.1875	30.16	7-3/8	187.33	13	330.20	4	C12272
1-13/64	1.2031	30.16	7-1/2	190.50	13-1/8	333.38	4	C12274
1-7/32	1.2188	30.96	7-1/2	190.50	13-1/8	333.38	4	C12275
1-15/64	1.2344	31.35	7-7/8	200.03	13-1/2	342.90	4	C12277
1-1/4	1.2500	31.75	7-7/8	200.03	13-1/2	342.90	4	C12279
1-17/64	1.2656	32.15	8-1/2	215.90	14-1/8	358.78	4	C12281
1-9/32	1.2812	32.54	8-1/2	215.90	14-1/8	358.78	4	C12283
1-19/64	1.2969	32.94	8-5/8	219.08	14-1/4	361.95	4	C12284
1-5/16	1.3125	33.34	8-5/8	219.08	14-1/4	361.95	4	C12286
1-21/64	1.3281	33.73	8-3/4	222.25	14-3/8	365.13	4	C12288
1-11/32	1.3438	34.13	8-3/4	222.25	14-3/8	365.13	4	C12290
1-23/64	1.3594	34.53	8-7/8	225.43	14-1/2	368.30	4	C12292
1-3/8	1.3750	34.93	8-7/8	225.43	14-1/2	368.30	4	C12293
1-25/64	1.3906	35.32	9	228.60	14-5/8	371.48	4	C12295
1-13/32	1.4062	35.72	9	228.60	14-5/8	371.48	4	C12297
1-27/64	1.4219	36.12	9-1/8	231.78	14-3/4	374.65	4	C12299
1-7/16	1.4375	36.51	9-1/8	231.78	14-3/4	374.65	4	C12301
1-29/64	1.4531	36.91	9-1/4	234.95	14-7/8	377.83	4	C12302
1-15/32	1.4688	37.31	9-1/4	234.95	14-7/8	377.83	4	C12304
1-1/2	1.5000	38.10	9-3/8	238.13	15	381.00	4	C12308
1-17/32	1.5312	38.89	9-3/8	238.13	16-3/8	415.92	5	C12311
1-9/16	1.5625	39.69	9-5/8	244.48	16-5/8	422.28	5	C12315
1-5/8	1.6250	41.28	10	254.00	17	431.80	5	C12322
1-11/16	1.6875	42.86	10-1/8	257.18	17-1/8	434.98	5	C12329
1-23/32	4.7188	43.66	10-1/8	257.18	17-1/8	434.98	5	C12333

Continúa en la siguiente Página

Zanco Cónico

Lista 2410 Brocas Zanco Cónico Uso General Acero Alta Velocidad (continuación)

Diámetro Fraccionales	Equivalencia		Long. Canal		Long. Total		Cono Morse	EDP Ennegrecido
	Decimal	mm	Pulg.	mm	Pulg.	mm		
1-3/4	1.7500	44.45	10-1/8	257.18	17-1/8	434.98	5	C12336
1-25/32	1.7812	45.24	10-1/8	257.18	17-1/8	434.98	5	C12340
1-13/16	1.8125	46.04	10-1/8	257.18	17-1/8	434.98	5	C12344
1-7/8	1.8750	47.63	10-3/8	263.53	17-3/8	441.33	5	C12351
1-15/16	1.9375	49.21	10-3/8	263.53	17-3/8	441.33	5	C12358
2	2.0000	50.80	10-3/8	263.53	17-3/8	441.33	5	C12365
2-1/8	2.1250	53.98	10-3/8	260.35	17-3/8	441.33	5	C12376
2-1/4	2.2500	57.15	10-1/4	257.18	17-3/8	441.33	5	C12388
2-5/16	2.3125	58.74	10-1/4	257.18	17-3/8	441.33	5	C12393
2-3/8	2.3750	60.33	10-1/4	257.18	17-3/8	441.33	5	C12399
2-1/2	2.5000	63.50	11-1/4	285.75	18-3/4	476.25	5	C12410

Lista 2440 Cobalto Brocas Zanco Cónico Uso General Acero Alta Velocidad

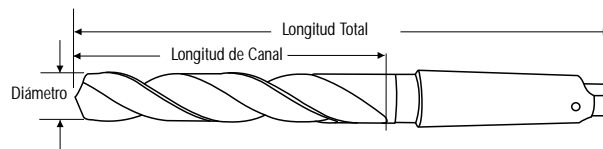
CARACTERÍSTICAS

ESPECIFICACIONES ANSI	A.A.V.	ACERO AL CARBÓN
USO GENERAL	COLOR OXIDO	ACERO SIN ALEACIÓN
ZANCO	135° MOD	ACERO INOXIDABLE
	30°	HIERRO FUNDIDO

APLICACIONES



Lista 2440 Color Oxido



Diámetro Fraccionales	Equivalencia		Long. Canal		Long. Total		Cono Morse	EDP Ennegrecido
	Decimal	mm	Pulg.	mm	Pulg.	mm		
1/4	.2500	6.35	2.875	73.03	6.125	155.58	1	C12705
5/16	.3125	7.94	3.125	79.38	6.375	161.93	1	C12728
11/32	.3438	8.73	3.250	82.55	6.500	165.10	1	C12739
3/8	.3750	9.53	3.500	88.90	6.750	171.45	1	C12751
13/32	.4062	10.32	3.625	92.08	7.000	177.80	1	C12760
7/16	.4375	11.11	3.875	98.43	7.250	184.15	1	C12765
15/32	.4688	11.91	4.125	104.78	7.500	190.50	1	C12770
1/2	.5000	12.70	4.375	111.13	8.250	209.55	2	C12775
17/32	.5312	13.49	4.625	117.48	8.500	215.90	2	C12780
9/16	.5625	14.29	4.875	123.83	8.750	222.25	2	C12786
19/32	.5938	15.08	4.875	123.83	8.750	222.25	2	C12791
5/8	.6250	15.88	4.875	123.83	8.750	222.25	2	C12796
21/32	.6562	16.67	5.125	130.18	9.000	228.60	3	C12801
11/16	.6875	17.46	5.375	136.53	9.250	234.95	3	C12806
23/32	.7188	18.26	5.625	142.88	9.500	241.30	3	C12810
3/4	.7500	19.05	5.875	149.23	9.750	247.65	3	C12814
25/32	.7812	19.84	6.000	152.40	9.875	250.83	3	C12817
13/16	.8125	20.64	6.125	155.58	10.750	273.05	3	C12821
7/8	.8750	22.23	6.125	155.58	10.750	273.05	3	C12828
15/16	.9375	23.81	6.125	155.58	10.750	273.05	3	C12835
1	1.0000	25.40	6.375	161.93	11.000	279.40	3	C12842



BROCAS

RIMAS

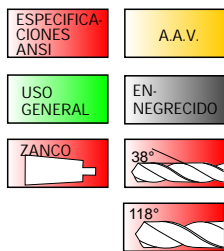
MACHUELOS

CORTADORES

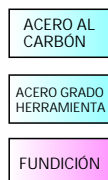
OTRAS HERRAMIENTAS

Lista 940-E Brocas Extralarga Zanco Cónico Uso General Acero Alta Velocidad

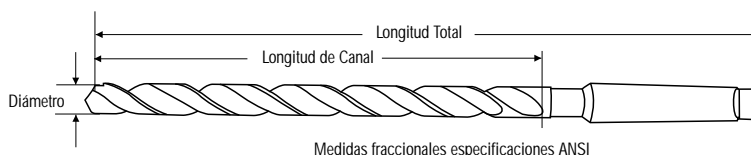
CARACTERISTICAS



APLICACIONES



Lista 940-E Ennegrecido Serie Extralarga



Medidas fraccionales especificaciones ANSI

Diám. Fracc	Equivalencia Dec.	Long. Canal mm	Long. Canal Pulgs.	Long. Total mm	Long. Total Pulgs.	Cono Morse	EDP Ennegrecido
1/4	.2500	6.35	6	152.40	9-1/4	234.95	1 C13795
1/4	.2500	6.35	10	254.00	13-1/4	336.55	1 C13873
1/4	.2500	6.35	12	304.80	15-1/4	387.35	1 C13926
5/16	.3125	7.94	6	152.40	9-1/4	234.95	1 C13799
5/16	.3125	7.94	10	254.00	13-1/4	336.55	1 C13877
5/16	.3125	7.94	12	304.80	15-1/4	387.35	1 C13930
11/32	.3438	8.73	6	152.40	9-1/4	234.95	1 C13801
11/32	.3438	8.73	12	304.80	15-1/4	387.35	1 C13932
23/64	.3594	9.13	6	152.40	9-1/4	234.95	1 C13802
3/8	.3750	9.53	6	152.40	9-1/4	234.95	1 C13803
3/8	.3750	9.53	10	254.00	13-1/4	336.55	1 C13881
3/8	.3750	9.53	12	304.80	15-1/4	387.35	1 C13934
13/32	.4062	10.32	6	152.40	9-3/8	238.13	1 C13805
13/32	.4062	10.32	12	304.80	15-1/4	387.35	1 C13936
27/64	.4219	10.72	6	152.40	9-3/8	238.13	1 C13806
7/16	.4375	11.11	6	152.40	9-3/8	238.13	1 C13807
7/16	.4375	11.11	10	254.00	13-3/8	339.73	1 C13885
7/16	.4375	11.11	12	304.80	15-1/4	387.35	1 C13938
15/32	.4688	11.91	6	152.40	9-3/8	238.13	1 C13809
31/64	.4844	12.30	8	203.20	11-7/8	301.63	2 C13830
1/2	.5000	12.70	8	203.20	11-7/8	301.63	2 C13831
1/2	.5000	12.70	10	254.00	13-7/8	352.43	2 C13889
1/2	.5000	12.70	12	304.80	15-7/8	403.23	2 C13942
33/64	.5156	13.10	8	203.20	11-7/8	301.63	2 C13832
17/32	.5312	13.49	8	203.20	11-7/8	301.63	2 C13833
17/32	.5312	13.49	12	304.80	15-7/8	403.23	2 C13944
35/64	.5469	13.89	8	203.20	11-7/8	301.63	2 C13834
9/16	.5625	14.29	8	203.20	11-7/8	301.63	2 C13835
9/16	.5625	14.29	10	254.00	13-7/8	352.43	2 C13893
9/16	.5625	14.29	12	304.80	15-7/8	403.23	2 C13846
37/64	.5781	14.68	8	203.20	11-7/8	301.63	2 C13836
19/32	.5938	15.08	8	203.20	11-7/8	301.63	2 C13837
19/32	.5938	15.08	12	304.80	15-7/8	403.23	2 C13948
5/8	.6250	15.88	8	203.20	11-7/8	301.63	2 C13839
5/8	.6250	15.88	10	254.00	13-7/8	352.43	2 C13897
5/8	.6250	15.88	12	304.80	15-7/8	403.23	2 C13950
41/64	.6406	16.27	8	203.20	11-7/8	301.63	2 C13840
21/32	.6562	16.67	8	203.20	11-7/8	301.63	2 C13841

Diám. Fracc	Equivalencia Dec.	Long. Canal mm	Long. Canal Pulgs.	Long. Total mm	Long. Total Pulgs.	Cono Morse	EDP Ennegrecido
21/32	.6562	16.67	10	254.00	13-7/8	352.43	2 C13899
21/32	.6562	16.67	12	304.80	15-7/8	403.23	2 C13952
43/64	.6719	17.07	8	203.20	11-7/8	301.63	2 C13842
11/16	.6875	17.46	8	203.20	11-7/8	301.63	2 C13843
11/16	.6875	17.46	10	254.00	13-7/8	352.43	2 C13901
11/16	.6875	17.46	12	304.80	15-7/8	403.23	2 C13954
45/64	.7031	17.86	8	203.20	11-7/8	301.63	2 C13844
23/32	.7188	18.26	8	203.20	11-7/8	301.63	2 C13845
23/32	.7188	18.26	10	254.00	13-7/8	352.43	2 C13903
3/4	.7500	19.05	8	203.20	11-7/8	301.63	2 C13847
3/4	.7500	19.05	10	254.00	13-7/8	352.43	2 C13905
3/4	.7500	19.05	12	304.80	15-7/8	403.23	2 C13958
49/64	.7656	19.45	8	203.20	11-7/8	301.63	2 C13848
25/32	.7812	19.84	8	203.20	11-7/8	301.63	2 C13849
25/32	.7812	19.84	10	254.00	13-7/8	352.43	2 C13907
13/16	.8125	20.64	10	254.00	14-1/2	368.30	3 C13909
13/16	.8125	20.64	12	304.80	16-1/2	419.10	3 C13962
7/8	.8750	22.23	10	254.00	14-1/2	368.30	3 C13913
7/8	.8750	22.23	12	304.80	16-1/2	419.10	3 C13966
15/16	.9375	23.81	10	254.00	14-1/2	368.30	3 C13917
15/16	.9375	23.81	12	304.80	16-1/2	419.10	3 C13970
1	1.0000	25.40	10	254.00	14-1/2	368.30	3 C13921
1	1.0000	25.40	12	304.80	16-1/2	419.10	3 C13974
1-1/32	.0312	26.19	10	254.00	14-1/2	368.30	3 C13923
1-1/16	.0625	26.99	10	254.00	14-1/2	368.30	3 C13925
1-1/8	1.1250	28.58	12	304.80	17-1/2	444.50	4 C13982
1-5/32	1.5625	29.37	12	304.80	17-1/2	444.50	4 C13984
1-3/16	1.1875	30.16	12	304.80	17-1/2	444.50	4 C13986
1-1/4	1.2500	31.75	12	304.80	17-1/2	444.50	4 C13990

BROCAS

RIMAS

MACHUELOS

CORTADORES

OTRAS HERRAMIENTAS



Lista 610 Avellanador Acero Alta Velocidad de Cuatro Canales

BROCAS

CARACTERISTICAS

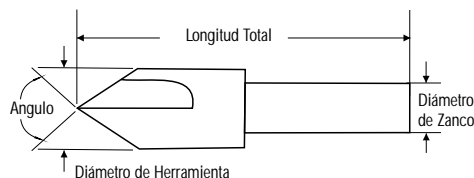
ESPECIFICACIONES ANSI
A.A.V.
USO GENERAL
ENNEGRECIDO
ZANCO

APLICACIONES

ACERO ALEADO GRADO HERRAMIENTA
HIERRO FUNDIDO



Lista 610 Ennegrecida



RIMAS

Diám. Fracc.	Equivalente Decimal	mm	Diám. de Zanco Pulgs.	mm	Longitud Total Pulgs.	mm	Ángulo de 60°	Ángulo de 82°	Ángulo de 90°	Ángulo de 100°
1/4	.2500	6.35	.188	6.35	1.438	36.51	C46198	C46199	C46200	C46201
3/8	.3750	9.53	.250	9.53	1.656	42.07	C46204	C46205	C46206	C46207
1/2	.5000	12.70	.375	12.70	1.844	46.83	C46210	C46211	C46212	C46213
5/8	.6250	15.88	.375	15.88	2.094	53.18	C46216	C46217	C46218	C46219
3/4	.7500	19.05	.500	19.05	2.406	61.12	C46222	C46223	C46224	C46225

Lista 1003 Avellanador Acero Alta Velocidad de Tres Canales

MACHUELOS

CARACTERISTICAS

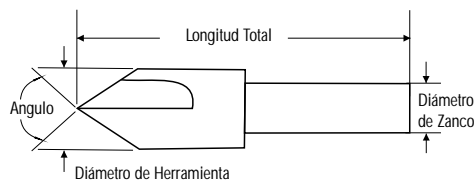
ESPECIFICACIONES ANSI
SUSTRATO
USO GENERAL
ENNEGRECIDO
ZANCO

APLICACIONES

ACERO AL CARBÓN
HIERRO FUNDIDO



Lista 1003 Tres Canales



CORTADORES

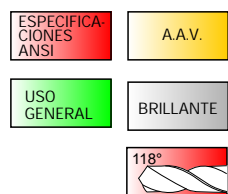
Diám. Fracc.	Equivalente Decimal	mm	Diám. de Zanco Pulgs.	mm	Longitud Total Pulgs.	mm	Ángulo de 60°	Ángulo de 82°	Ángulo de 90°	Ángulo de 100°	Ángulo de 120°
1/4	.2500	6.35	.188	4.76	1.500	38.10	C46150	C46151	C46152	C46153	C46155
3/8	.3750	9.53	.250	6.35	1.750	44.45	C46156	C46157	C46158	C46159	C46161
1/2	.5000	12.70	.250	6.35	2.000	50.80	C46162	C46163	C46164	C46165	C46167
5/8	.6250	15.88	.375	9.53	2.250	57.15	C46168	C46169	C46170	C46171	C46173
3/4	.7500	19.05	.375	9.53	2.625	66.68	C46174	C46175	C46176	C46177	C46179
1	1.0000	25.40	.500	12.70	3.125	79.38	C46180	C46181	C46182	C46183	C46185
1-1/4	1.2500	31.75	.500	12.70	3.969	100.81	C46186	C46187	C45188	-	-
1-1/2	1.5000	38.10	.500	12.70	4.313	109.54	C46189	C46190	C46191	-	-
2	2.0000	50.80	.500	12.70	5.000	127.00	C46192	-	-	-	-

OTRAS HERRAMIENTAS

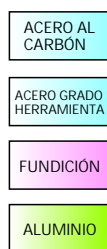


Lista 996, 998 Brocas para Centros Tipo Plana y Tipo Campana

CARACTERÍSTICAS



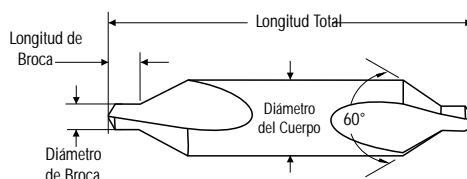
APLICACIONES



Lista 998 Tipo Plana

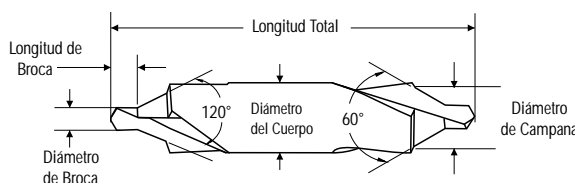


Lista 996 Tipo Campana



Lista 998 Plana

Medida Núm.	Diám. de Broca			Diám. del Cuerpo		Long. de Broca		Long. Total		EDP Brillante
	Pulg.	Decimal	mm	Pulg.	mm	Pulg.	mm	Pulg.	mm	
#00	.025	.0250	0.64	3/32	2.38	.030	0.76	1-1/8	28.58	C46261
#0	1/32	.0312	0.79	3/32	2.38	.038	0.97	1-1/8	28.58	C46262
#1	3/64	.0469	1.19	1/8	3.18	3/64	1.19	1-1/4	31.75	C46263
#2	5/64	.0781	1.98	3/16	4.76	1/16	1.98	1-7/8	47.63	C46264
#3	7/64	.1094	2.78	1/4	6.35	3/32	2.78	2	50.80	C46265
#4	1/8	.1250	3.18	5/16	7.94	7/64	3.18	2-1/8	53.98	C46266
#5	3/16	.1875	4.76	7/16	11.11	5/32	4.76	2-3/4	69.85	C46267
#6	7/32	.2188	5.56	1/2	12.70	3/16	5.56	3	76.20	C46268
#7	1/4	.2500	6.35	5/8	15.88	7/32	6.35	3-1/4	82.55	C46269
#8	5/16	.3125	7.94	3/4	19.05	1/4	7.94	3-1/2	88.90	C46270



Lista 996 Tipo Campana

Medida Núm.	Diám. de Broca			Diám. del Cuerpo		Long. de Broca		Long. Total		Diám. Campana		EDP Brillante
	Pulg.	Decimal	mm	Pulg.	mm	Pulg.	mm	Pulg.	mm	Pulg.	mm	
#11	3/64	.0469	1.19	1/8	3.18	3/64	1.19	1-1/4	31.75	.100	2054	C46272
#12	1/16	.0625	1.59	3/16	4.76	1/16	1.59	1-7/8	47.63	.150	3.81	C46273
#13	3/32	.0938	2.38	1/4	6.35	3/32	2.38	2	50.80	.200	5.08	C46274
#14	7/64	.1094	2.78	5/16	7.94	7/64	2.78	2-1/8	53.98	.250	6.35	C46275
#15	5/32	.1562	3.97	7/16	11.11	5/32	3.97	2-3/4	69.85	.350	8.89	C46276
#16	3/16	.1875	4.76	1/2	12.70	3/16	4.76	3	76.20	.400	10.16	C46277
#17	7/32	.2188	5.56	5/8	15.88	7/32	5.56	3-1/4	82.55	.500	12.70	C08678
#18	1/4	.2500	6.35	3/4	19.05	1/4	6.35	3-1/2	88.90	.600	15.24	C46279

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CORTADORES

OTRAS HERRAMIENTAS





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