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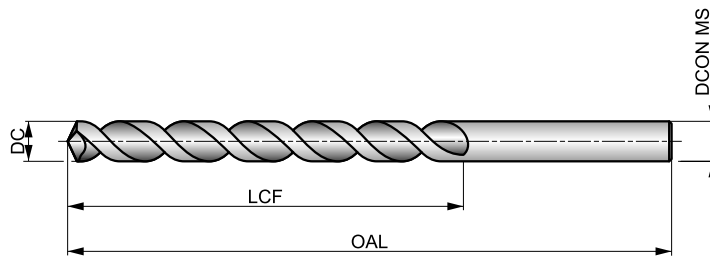


PFX HSS-E (5% Cobalt) Jobber Drill, Bright Finish

High performance drill, able to produce high quality and accurate holes at high speeds and feeds (H10 hole tolerance). Self-centering 130° point angle and special parabolic flute design help to drill deep holes in a single pass. Suitable for many materials.



PFX



HSS-E	DIN ANSI	6×D
130°	Bright	
λ>35°	R	DC h8

Workpiece material group suitability, starting values for cutting speed (m/min) and feed Alpha Code. Tables with feed per revolution can be found starting from page 175.

P1.1 ■ 34 H	P1.2 ■ 39 H	P1.3 ■ 40 H	P2.1 ■ 30 H	P2.2 ■ 26 H	P2.3 ■ 23 E	P3.1 ■ 31 H	P3.2 ■ 25 H	P3.3 ■ 21 E	P4.1 ■ 19 H	P4.2 ■ 16 E	P4.3 ■ 13 E	M1.1 ■ 21 E	M1.2 ■ 17 E
M2.1 ■ 18 E	M2.2 ■ 15 E	M3.1 ■ 8 E	M3.2 ■ 7 E	M3.3 ■ 6 E	M4.1 ■ 9 C	K1.1 ■ 24 J	K1.2 ■ 18 J	K1.3 ■ 13 J	K2.1 ■ 23 J	K2.2 ■ 19 J	K2.3 ■ 15 I	K3.1 ■ 21 J	K3.2 ■ 16 J
K3.3 ■ 13 I	K4.1 ■ 19 J	K4.2 ■ 14 J	K4.3 ■ 11 I	K4.4 ■ 9 I	K4.5 ■ 8 I	K5.1 ■ 22 J	K5.2 ■ 16 J	K5.3 ■ 13 I	N1.1 ■ 60 J	N1.2 ■ 45 J	N1.3 ■ 30 N	N2.1 ■ 62 N	N2.2 ■ 55 N
N2.3 ■ 40 N	N3.1 ■ 90 H	N3.2 ■ 53 I	N3.3 ■ 27 G	N4.1 ■ 55 I	N4.2 ■ 40 G	S1.1 ■ 22 E	S1.2 ■ 15 E	S1.3 ■ 6 C	S2.1 ■ 9 G	S2.2 ■ 8 C	S3.1 ■ 7 G	S3.2 ■ 6 C	S4.1 ■ 5 G
S4.2 ■ 5 C													

Product	DC [inch]	DC [mm]	DC [inch]	LCF [mm]	OAL [mm]	DCON MS [mm]
A9001.0	–	1.00	0.0394	12.0	34.0	1.00
A9001.1	–	1.10	0.0433	14.0	36.0	1.10
A9003/64	3/64	1.19	0.0469	19.0	44.0	1.19
A9001.2	–	1.20	0.0472	16.0	38.0	1.20
A9001.25	–	1.25	0.0492	16.0	36.0	1.25
A9001.3	–	1.30	0.0512	16.0	38.0	1.30
A9001.4	–	1.40	0.0551	18.0	40.0	1.40
A9001.5	–	1.50	0.0591	18.0	40.0	1.50
A9001.55	–	1.55	0.0610	20.0	43.0	1.55
A9001/16	1/16	1.59	0.0625	22.0	48.0	1.59
A9001.6	–	1.60	0.0630	20.0	43.0	1.60
A9001.7	–	1.70	0.0669	20.0	43.0	1.70
A9001.75	–	1.75	0.0689	22.0	46.0	1.75
A9001.8	–	1.80	0.0709	22.0	46.0	1.80
A9001.9	–	1.90	0.0748	22.0	46.0	1.90
A9005/64	5/64	1.98	0.0781	25.0	51.0	1.98
A9002.0	–	2.00	0.0787	24.0	49.0	2.00
A9002.1	–	2.10	0.0827	24.0	49.0	2.10
A9002.15	–	2.15	0.0846	27.0	53.0	2.15
A9002.2	–	2.20	0.0866	27.0	53.0	2.20
A9002.3	–	2.30	0.0906	27.0	53.0	2.30
A9003/32	3/32	2.38	0.0937	32.0	57.0	2.38
A9002.4	–	2.40	0.0945	30.0	57.0	2.40
A9002.5	–	2.50	0.0984	30.0	57.0	2.50

Product	DC [inch]	DC [mm]	DC [inch]	LCF [mm]	OAL [mm]	DCON MS [mm]
A9002.6	–	2.60	0.1024	30.0	57.0	2.60
A9002.7	–	2.70	0.1063	33.0	61.0	2.70
A9007/64	7/64	2.78	0.1094	38.0	67.0	2.78
A9002.8	–	2.80	0.1102	33.0	61.0	2.80
A9002.9	–	2.90	0.1142	33.0	61.0	2.90
A9003.0	–	3.00	0.1181	33.0	61.0	3.00
A9003.1	–	3.10	0.1220	36.0	65.0	3.10
A9001/8	1/8	3.18	0.1250	41.0	70.0	3.18
A9003.2	–	3.20	0.1260	36.0	65.0	3.20
A9003.3	–	3.30	0.1299	36.0	65.0	3.30
A9003.4	–	3.40	0.1339	39.0	70.0	3.40
A9003.5	–	3.50	0.1378	39.0	70.0	3.50
A9009/64	9/64	3.57	0.1406	44.0	73.0	3.57
A9003.6	–	3.60	0.1417	39.0	70.0	3.60
A9003.7	–	3.70	0.1457	39.0	70.0	3.70
A9003.8	–	3.80	0.1496	43.0	75.0	3.80
A9003.9	–	3.90	0.1535	43.0	75.0	3.90
A9005/32	5/32	3.97	0.1563	51.0	79.0	3.97
A9004.0	–	4.00	0.1575	43.0	75.0	4.00
A9004.1	–	4.10	0.1614	43.0	75.0	4.10
A9004.2	–	4.20	0.1654	43.0	75.0	4.20
A9004.3	–	4.30	0.1693	47.0	80.0	4.30
A90011/64	11/64	4.37	0.1719	54.0	83.0	4.37
A9004.4	–	4.40	0.1732	47.0	80.0	4.40



Product	DC	DC	DC	LCF	OAL	D CON MS
	[inch]	[mm]	[inch]	[mm]	[mm]	[mm]
A9004.5	–	4.50	0.1772	47.0	80.0	4.50
A9004.6	–	4.60	0.1811	47.0	80.0	4.60
A9004.7	–	4.70	0.1850	47.0	80.0	4.70
A9003/16	3/16	4.76	0.1875	59.0	89.0	4.76
A9004.8	–	4.80	0.1890	52.0	86.0	4.80
A9004.9	–	4.90	0.1929	52.0	86.0	4.90
A9005.0	–	5.00	0.1969	52.0	86.0	5.00
A9005.1	–	5.10	0.2008	52.0	86.0	5.10
A90013/64	13/64	5.16	0.2031	62.0	92.0	5.16
A9005.2	–	5.20	0.2047	52.0	86.0	5.20
A9005.3	–	5.30	0.2087	52.0	86.0	5.30
A9005.4	–	5.40	0.2126	57.0	93.0	5.40
A9005.5	–	5.50	0.2165	57.0	93.0	5.50
A9007/32	7/32	5.56	0.2188	64.0	95.0	5.56
A9005.6	–	5.60	0.2205	57.0	93.0	5.60
A9005.7	–	5.70	0.2244	57.0	93.0	5.70
A9005.8	–	5.80	0.2283	57.0	93.0	5.80
A9005.9	–	5.90	0.2323	57.0	93.0	5.90
A90015/64	15/64	5.95	0.2344	67.0	98.0	5.95
A9006.0	–	6.00	0.2362	57.0	93.0	6.00
A9006.1	–	6.10	0.2402	63.0	101.0	6.10
A9006.2	–	6.20	0.2441	63.0	101.0	6.20
A9006.3	–	6.30	0.2480	63.0	101.0	6.30
A9001/4	1/4	6.35	0.2500	70.0	102.0	6.35
A9006.4	–	6.40	0.2520	63.0	101.0	6.40
A9006.5	–	6.50	0.2559	63.0	101.0	6.50
A9006.6	–	6.60	0.2598	63.0	101.0	6.60
A9006.7	–	6.70	0.2638	63.0	101.0	6.70
A90017/64	17/64	6.75	0.2656	73.0	105.0	6.75
A9006.8	–	6.80	0.2677	69.0	109.0	6.80
A9006.9	–	6.90	0.2717	69.0	109.0	6.90
A9007.0	–	7.00	0.2756	69.0	109.0	7.00
A9007.1	–	7.10	0.2795	69.0	109.0	7.10
A9009/32	9/32	7.14	0.2813	75.0	108.0	7.14
A9007.2	–	7.20	0.2835	69.0	109.0	7.20
A9007.3	–	7.30	0.2874	69.0	109.0	7.30
A9007.4	–	7.40	0.2913	69.0	109.0	7.40
A9007.5	–	7.50	0.2953	69.0	109.0	7.50
A90019/64	19/64	7.54	0.2969	78.0	111.0	7.54
A9007.6	–	7.60	0.2992	75.0	117.0	7.60
A9007.7	–	7.70	0.3031	75.0	117.0	7.70
A9007.8	–	7.80	0.3071	75.0	117.0	7.80
A9007.9	–	7.90	0.3110	75.0	117.0	7.90
A9005/16	5/16	7.94	0.3125	81.0	114.0	7.94
A9008.0	–	8.00	0.3150	75.0	117.0	8.00
A9008.1	–	8.10	0.3189	75.0	117.0	8.10
A9008.2	–	8.20	0.3228	75.0	117.0	8.20
A9008.3	–	8.30	0.3268	75.0	117.0	8.30
A90021/64	21/64	8.33	0.3281	84.0	117.0	8.33
A9008.4	–	8.40	0.3307	75.0	117.0	8.40
A9008.5	–	8.50	0.3346	75.0	117.0	8.50
A9008.6	–	8.60	0.3386	81.0	125.0	8.60
A9008.7	–	8.70	0.3425	81.0	125.0	8.70
A90011/32	11/32	8.73	0.3438	87.0	121.0	8.73
A9008.8	–	8.80	0.3465	81.0	125.0	8.80
A9008.9	–	8.90	0.3504	81.0	125.0	8.90
A9009.0	–	9.00	0.3543	81.0	125.0	9.00
A9009.1	–	9.10	0.3583	81.0	125.0	9.10
A90023/64	23/64	9.13	0.3594	89.0	124.0	9.13
A9009.2	–	9.20	0.3622	81.0	125.0	9.20

Product	DC	DC	DC	LCF	OAL	D CON MS
	[inch]	[mm]	[inch]	[mm]	[mm]	[mm]
A9009.3	–	9.30	0.3661	81.0	125.0	9.30
A9009.4	–	9.40	0.3701	81.0	125.0	9.40
A9009.5	–	9.50	0.3740	81.0	125.0	9.50
A9003/8	3/8	9.52	0.3750	92.0	127.0	9.52
A9009.6	–	9.60	0.3780	87.0	133.0	9.60
A9009.7	–	9.70	0.3819	87.0	133.0	9.70
A9009.8	–	9.80	0.3858	87.0	133.0	9.80
A9009.9	–	9.90	0.3898	87.0	133.0	9.90
A90025/64	25/64	9.92	0.3906	95.0	130.0	9.92
A90010.0	–	10.00	0.3937	87.0	133.0	10.00
A90010.2	–	10.20	0.4016	87.0	133.0	10.20
A90010.3	–	10.30	0.4055	87.0	133.0	10.30
A90013/32	13/32	10.32	0.4063	98.0	133.0	10.32
A90010.4	–	10.40	0.4094	87.0	133.0	10.40
A90010.5	–	10.50	0.4134	87.0	133.0	10.50
A90027/64	27/64	10.72	0.4219	100.0	137.0	10.72
A90010.8	–	10.80	0.4252	94.0	142.0	10.80
A90011.0	–	11.00	0.4331	94.0	142.0	11.00
A9007/16	7/16	11.11	0.4375	103.0	140.0	11.11
A90011.5	–	11.50	0.4528	94.0	142.0	11.50
A90029/64	29/64	11.51	0.4531	106.0	143.0	11.51
A90011.8	–	11.80	0.4646	94.0	142.0	11.80
A90015/32	15/32	11.91	0.4688	110.0	146.0	11.91
A90012.0	–	12.00	0.4724	101.0	151.0	12.00
A90031/64	31/64	12.30	0.4844	111.0	149.0	12.30
A90012.5	–	12.50	0.4921	101.0	151.0	12.50
A9001/2	1/2	12.70	0.5000	101.0	151.0	12.70
A90013.0	–	13.00	0.5118	101.0	151.0	13.00
A90033/64	33/64	13.10	0.5156	122.0	168.0	13.10
A90013.5	–	13.50	0.5315	108.0	160.0	13.50
A90035/64	35/64	13.89	0.5469	122.0	168.0	13.89
A90014.0	–	14.00	0.5512	108.0	160.0	14.00
A9009/16	9/16	14.29	0.5625	122.0	168.0	14.29
A90014.5	–	14.50	0.5709	114.0	169.0	14.50
A90037/64	37/64	14.68	0.5781	122.0	168.0	14.68
A90015.0	–	15.00	0.5906	114.0	169.0	15.00
A90019/32	19/32	15.08	0.5938	132.0	181.0	15.08
A90039/64	39/64	15.48	0.6094	132.0	181.0	15.48
A90015.5	–	15.50	0.6102	120.0	178.0	15.50
A9005/8	5/8	15.88	0.6250	132.0	181.0	15.88
A90016.0	–	16.00	0.6299	120.0	178.0	16.00
A90041/64	41/64	16.27	0.6406	132.0	181.0	16.27
A90016.5	–	16.50	0.6496	125.0	184.0	16.50
A90021/32	21/32	16.67	0.6563	132.0	181.0	16.67
A90017.0	–	17.00	0.6693	125.0	184.0	17.00
A90043/64	43/64	17.07	0.6719	143.0	194.0	17.07
A90011/16	11/16	17.46	0.6875	143.0	194.0	17.46
A90017.5	–	17.50	0.6890	130.0	191.0	17.50
A90045/64	45/64	17.86	0.7031	130.0	191.0	17.86
A90018.0	–	18.00	0.7087	130.0	191.0	18.00
A90023/32	23/32	18.26	0.7188	130.0	191.0	18.26
A90018.5	–	18.50	0.7283	135.0	198.0	18.50
A90047/64	47/64	18.65	0.7344	135.0	198.0	18.65
A90019.0	–	19.00	0.7480	135.0	198.0	19.00
A9003/4	3/4	19.05	0.7500	135.0	198.0	19.05
A90049/64	49/64	19.45	0.7656	135.0	198.0	19.45
A90019.5	–	19.50	0.7677	140.0	205.0	19.50
A90025/32	25/32	19.84	0.7813	140.0	205.0	19.84
A90020.0	–	20.00	0.7874	140.0	205.0	20.00



A901

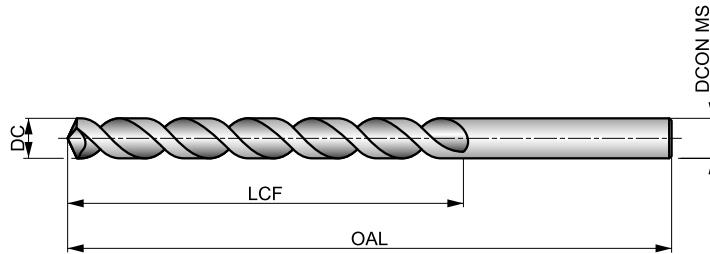


PFX HSS-E (5% Cobalt) Jobbler Drill, Alcrona Top Coated

High performance drill, able to produce high quality and accurate holes at high speeds and feeds (H10 hole tolerance). A 130° point angle and special parabolic flute design. Suitable for many materials. Alcrona-TOP coating improves performance and extends the tool life.



PFX



HSS-E	DIN ANSI	6xD
130°	Alcrona Top	
$\lambda > 35^\circ$	R	DC h8

Workpiece material group suitability, starting values for cutting speed (m/min) and feed Alpha Code. Tables with feed per revolution can be found starting from page 175.

P1.1 ■ 58 J	P1.2 ■ 65 J	P1.3 ■ 68 J	P2.1 ■ 50 J	P2.2 ■ 44 I	P2.3 ■ 39 G	P3.1 ■ 49 I	P3.2 ■ 39 I	P3.3 ■ 33 G	P4.1 ■ 29 I	P4.2 ■ 25 G	P4.3 ■ 20 G	M1.1 ■ 23 E	M1.2 ■ 20 E
M2.1 ■ 21 E	M2.2 ■ 17 E	M3.1 ■ 10 E	M3.2 ■ 9 E	M3.3 ■ 8 E	M4.1 ■ 11 C	K1.1 ■ 58 I	K1.2 ■ 43 I	K1.3 ■ 32 I	K2.1 ■ 42 J	K2.2 ■ 34 J	K2.3 ■ 27 I	K3.1 ■ 37 J	K3.2 ■ 28 J
K3.3 ■ 23 I	K4.1 ■ 34 J	K4.2 ■ 26 J	K4.3 ■ 19 I	K4.4 ■ 16 I	K4.5 ■ 14 I	K5.1 ■ 39 J	K5.2 ■ 29 J	K5.3 ■ 23 I	S1.1 ■ 35 G	S1.2 ■ 24 G	S1.3 ■ 10 E	S2.1 ■ 15 I	S2.2 ■ 14 E
S3.1 ■ 11 I	S3.2 ■ 10 E	S4.1 ■ 9 I	S4.2 ■ 8 E										

Product	DC	DC	DC	LCF	OAL	DCON MS
	[inch]	[mm]	[inch]	[mm]	[mm]	[mm]
A9011.5	–	1.50	0.0591	18.0	40.0	1.50
A9011.55	–	1.55	0.0610	20.0	43.0	1.55
A9011/16	1/16	1.59	0.0625	22.0	48.0	1.59
A9011.6	–	1.60	0.0630	20.0	43.0	1.60
A9011.75	–	1.75	0.0689	22.0	46.0	1.75
A9011.8	–	1.80	0.0709	22.0	46.0	1.80
A9011.9	–	1.90	0.0748	22.0	46.0	1.90
A9015/64	5/64	1.98	0.0781	25.0	51.0	1.98
A9012.0	–	2.00	0.0787	24.0	49.0	2.00
A9012.1	–	2.10	0.0827	24.0	49.0	2.10
A9012.15	–	2.15	0.0846	27.0	53.0	2.15
A9013/32	3/32	2.38	0.0937	32.0	57.0	2.38
A9012.4	–	2.40	0.0945	30.0	57.0	2.40
A9012.5	–	2.50	0.0984	30.0	57.0	2.50
A9012.6	–	2.60	0.1024	30.0	57.0	2.60
A9012.7	–	2.70	0.1063	33.0	61.0	2.70
A9017/64	7/64	2.78	0.1094	38.0	67.0	2.78
A9012.9	–	2.90	0.1142	33.0	61.0	2.90
A9013.0	–	3.00	0.1181	33.0	61.0	3.00
A9013.1	–	3.10	0.1220	36.0	65.0	3.10
A9011/8	1/8	3.18	0.1250	41.0	70.0	3.18
A9013.2	–	3.20	0.1260	36.0	65.0	3.20
A9013.3	–	3.30	0.1299	36.0	65.0	3.30
A9013.4	–	3.40	0.1339	39.0	70.0	3.40
A9013.5	–	3.50	0.1378	39.0	70.0	3.50
A9013.6	–	3.60	0.1417	39.0	70.0	3.60

Product	DC	DC	DC	LCF	OAL	DCON MS
	[inch]	[mm]	[inch]	[mm]	[mm]	[mm]
A9019/64	9/64	3.57	0.1406	44.0	73.0	3.57
A9013.7	–	3.70	0.1457	39.0	70.0	3.70
A9013.8	–	3.80	0.1496	43.0	75.0	3.80
A9013.9	–	3.90	0.1535	43.0	75.0	3.90
A9015/32	5/32	3.97	0.1563	51.0	79.0	3.97
A9014.0	–	4.00	0.1575	43.0	75.0	4.00
A9014.1	–	4.10	0.1614	43.0	75.0	4.10
A9014.2	–	4.20	0.1654	43.0	75.0	4.20
A9014.3	–	4.30	0.1693	47.0	80.0	4.30
A90111/64	11/64	4.37	0.1719	54.0	83.0	4.37
A9014.4	–	4.40	0.1732	47.0	80.0	4.40
A9014.5	–	4.50	0.1772	47.0	80.0	4.50
A9014.6	–	4.60	0.1811	47.0	80.0	4.60
A9014.7	–	4.70	0.1850	47.0	80.0	4.70
A9013/16	3/16	4.76	0.1875	59.0	89.0	4.76
A9014.8	–	4.80	0.1890	52.0	86.0	4.80
A9014.9	–	4.90	0.1929	52.0	86.0	4.90
A9015.0	–	5.00	0.1969	52.0	86.0	5.00
A9015.1	–	5.10	0.2008	52.0	86.0	5.10
A90113/64	13/64	5.16	0.2031	62.0	92.0	5.16
A9015.2	–	5.20	0.2047	52.0	86.0	5.20
A9015.3	–	5.30	0.2087	52.0	86.0	5.30
A9015.4	–	5.40	0.2126	57.0	93.0	5.40
A9015.5	–	5.50	0.2165	57.0	93.0	5.50
A9017/32	7/32	5.56	0.2188	64.0	95.0	5.56
A9015.6	–	5.60	0.2205	57.0	93.0	5.60



Product	DC	DC	DC	LCF	OAL	DCON MS
	[inch]	[mm]	[inch]	[mm]	[mm]	[mm]
A9015.7	–	5.70	0.2244	57.0	93.0	5.70
A9015.8	–	5.80	0.2283	57.0	93.0	5.80
A9015.9	–	5.90	0.2323	57.0	93.0	5.90
A90115/64	15/64	5.95	0.2344	67.0	98.0	5.95
A9016.0	–	6.00	0.2362	57.0	93.0	6.00
A9016.1	–	6.10	0.2402	63.0	101.0	6.10
A9016.2	–	6.20	0.2441	63.0	101.0	6.20
A9016.3	–	6.30	0.2480	63.0	101.0	6.30
A9011/4	1/4	6.35	0.2500	70.0	102.0	6.35
A9016.4	–	6.40	0.2520	63.0	101.0	6.40
A9016.5	–	6.50	0.2559	63.0	101.0	6.50
A9016.6	–	6.60	0.2598	63.0	101.0	6.60
A9016.7	–	6.70	0.2638	63.0	101.0	6.70
A90117/64	17/64	6.75	0.2656	73.0	105.0	6.75
A9016.8	–	6.80	0.2677	69.0	109.0	6.80
A9016.9	–	6.90	0.2717	69.0	109.0	6.90
A9017.0	–	7.00	0.2756	69.0	109.0	7.00
A9017.1	–	7.10	0.2795	69.0	109.0	7.10
A9019/32	9/32	7.14	0.2813	75.0	108.0	7.14
A9017.2	–	7.20	0.2835	69.0	109.0	7.20
A9017.3	–	7.30	0.2874	69.0	109.0	7.30
A9017.4	–	7.40	0.2913	69.0	109.0	7.40
A9017.5	–	7.50	0.2953	69.0	109.0	7.50
A90119/64	19/64	7.54	0.2969	78.0	111.0	7.54
A9017.6	–	7.60	0.2992	75.0	117.0	7.60
A9017.7	–	7.70	0.3031	75.0	117.0	7.70
A9017.8	–	7.80	0.3071	75.0	117.0	7.80
A9017.9	–	7.90	0.3110	75.0	117.0	7.90
A9015/16	5/16	7.94	0.3125	81.0	114.0	7.94
A9018.0	–	8.00	0.3150	75.0	117.0	8.00
A9018.1	–	8.10	0.3189	75.0	117.0	8.10
A9018.2	–	8.20	0.3228	75.0	117.0	8.20
A9018.3	–	8.30	0.3268	75.0	117.0	8.30
A90121/64	21/64	8.33	0.3281	84.0	117.0	8.33
A9018.4	–	8.40	0.3307	75.0	117.0	8.40
A9018.5	–	8.50	0.3346	75.0	117.0	8.50
A9018.6	–	8.60	0.3386	81.0	125.0	8.60
A9018.7	–	8.70	0.3425	81.0	125.0	8.70
A90111/32	11/32	8.73	0.3438	87.0	121.0	8.73
A9018.8	–	8.80	0.3465	81.0	125.0	8.80
A9018.9	–	8.90	0.3504	81.0	125.0	8.90
A9019.0	–	9.00	0.3543	81.0	125.0	9.00
A9019.1	–	9.10	0.3583	81.0	125.0	9.10

Product	DC	DC	DC	LCF	OAL	DCON MS
	[inch]	[mm]	[inch]	[mm]	[mm]	[mm]
A90123/64	23/64	9.13	0.3594	89.0	124.0	9.13
A9019.2	–	9.20	0.3622	81.0	125.0	9.20
A9019.3	–	9.30	0.3661	81.0	125.0	9.30
A9019.4	–	9.40	0.3701	81.0	125.0	9.40
A9019.5	–	9.50	0.3740	81.0	125.0	9.50
A9013/8	3/8	9.52	0.3750	92.0	127.0	9.52
A9019.6	–	9.60	0.3780	87.0	133.0	9.60
A9019.7	–	9.70	0.3819	87.0	133.0	9.70
A9019.8	–	9.80	0.3858	87.0	133.0	9.80
A9019.9	–	9.90	0.3898	87.0	133.0	9.90
A90125/64	25/64	9.92	0.3906	95.0	130.0	9.92
A90110.0	–	10.00	0.3937	87.0	133.0	10.00
A90110.2	–	10.20	0.4016	87.0	133.0	10.20
A90110.3	–	10.30	0.4055	87.0	133.0	10.30
A90113/32	13/32	10.32	0.4063	98.0	133.0	10.32
A90110.4	–	10.40	0.4094	87.0	133.0	10.40
A90110.5	–	10.50	0.4134	87.0	133.0	10.50
A90127/64	27/64	10.72	0.4219	100.0	137.0	10.72
A90110.8	–	10.80	0.4252	94.0	142.0	10.80
A90111.0	–	11.00	0.4331	94.0	142.0	11.00
A9017/16	7/16	11.11	0.4375	103.0	140.0	11.11
A90111.5	–	11.50	0.4528	94.0	142.0	11.50
A90129/64	29/64	11.51	0.4531	106.0	143.0	11.51
A90111.8	–	11.80	0.4646	94.0	142.0	11.80
A90115/32	15/32	11.91	0.4688	110.0	146.0	11.91
A90112.0	–	12.00	0.4724	101.0	151.0	12.00
A90131/64	31/64	12.30	0.4844	111.0	149.0	12.30
A90112.5	–	12.50	0.4921	101.0	151.0	12.50
A9011/2	1/2	12.70	0.5000	101.0	151.0	12.70
A90113.0	–	13.00	0.5118	101.0	151.0	13.00
A90133/64	33/64	13.10	0.5156	122.0	168.0	13.10
A90113.5	–	13.50	0.5315	108.0	160.0	13.50
A90135/64	35/64	13.89	0.5469	122.0	168.0	13.89
A90114.0	–	14.00	0.5512	108.0	160.0	14.00
A9019/16	9/16	14.29	0.5625	122.0	168.0	14.29
A90114.5	–	14.50	0.5709	114.0	169.0	14.50
A90137/64	37/64	14.68	0.5781	122.0	168.0	14.68
A90115.0	–	15.00	0.5906	114.0	169.0	15.00
A90119/32	19/32	15.08	0.5938	132.0	181.0	15.08
A90139/64	39/64	15.48	0.6094	132.0	181.0	15.48
A90115.5	–	15.50	0.6102	120.0	178.0	15.50
A9015/8	5/8	15.88	0.6250	132.0	181.0	15.88
A90116.0	–	16.00	0.6299	120.0	178.0	16.00