



MASTER CATALOG **2018**

VOLUME TWO | **ROTATING TOOLS**



HOLEMAKING | TAPPING | SOLID END MILLING | INDEXABLE MILLING

G0drill™

For Multiple Materials

Primary Application

The G0drill platform addresses drilling operations in a diameter range of 1–20mm (.0394–.7874") in a broad variety of materials and applications such as fuel systems or medical components. Due to its very unique design, the G0drill platform expands the advantages of modular drills into the small diameter range: high-end grades, wear-indicator coating, and new, proprietary geometries enable full utilization of the drill's tool life capacity. The G0drill platform qualifies as a very cost-effective, throwaway-type tool in the given diameter range.

Features and Benefits

G0drill Design

- Marginless design for reduced friction and heat — thus longer tool life.
- Very versatile tool works in a wide range of materials.
- Cost-effective, no regrind logistics.
- No setup.
- Throw away or recycle.
- Through-coolant option down to diameter 1mm (.0394").

CPG Point

- Optimized gashing design for microdrilling ensures free flow of chips in the center of the drill.
- Excellent centering capabilities.
- Reduced axial forces.
- Good hole quality, roundness, and cylindricity for all materials.

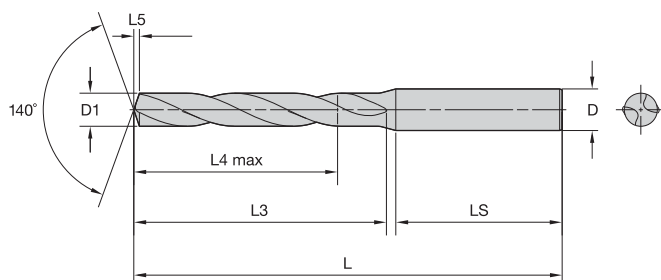
The high-performance solid carbide drill tailored for very small- to medium-diameter drilling applications.

KC7325[™] Grade

The grade contains a double coating:

- The multilayer, TiAlN-based coating with high hot hardness enables the drill to run at high cutting speeds as well as in MQL applications.
- A TiN top layer serves as wear indicator for easier monitoring on small drills, which can be difficult to see.
- Improved visibility of wear helps to utilize the tool's full tool life capacity.





For information on L, L3, and L4 max, see the Solid Carbide Drills foldout table.



■ B041A/B042A • ~3 x D/~5 x D



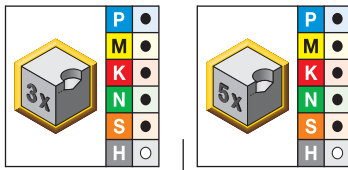
● first choice

○ alternate choice

		D1 diameter						
short • KC7325	long • KC7325	mm	in	fraction	wire size	L5	LS	D
B041A01000CPG	B042A01000CPG	1,000	.0394	—	—	0,1	28	4
B041A01016CPG	B042A01016CPG	1,016	.0400	—	—	0,1	28	4
B041A01041CPG	B042A01041CPG	1,041	.0410	—	—	0,2	28	4
B041A01067CPG	B042A01067CPG	1,067	.0420	—	—	0,2	28	4
B041A01092CPG	B042A01092CPG *	1,092	.0430	—	—	0,2	28	4
B041A01100CPG	B042A01100CPG	1,100	.0433	—	—	0,2	28	4
B041A01181CPG	B042A01181CPG	1,181	.0465	—	—	0,2	28	4
B041A01191CPG	B042A01191CPG	1,191	.0469	3/64	—	0,2	28	4
B041A01200CPG	B042A01200CPG	1,200	.0472	—	—	0,2	28	4
B041A01300CPG	B042A01300CPG	1,300	.0512	—	—	0,2	28	4
B041A01321CPG	B042A01321CPG	1,321	.0520	—	—	0,2	28	4
B041A01397CPG	B042A01397CPG	1,397	.0550	—	—	0,2	28	4
B041A01400CPG	B042A01400CPG	1,400	.0551	—	—	0,2	28	4
B041A01500CPG	B042A01500CPG	1,500	.0591	—	—	0,2	28	4
B041A01600CPG	B042A01600CPG	1,600	.0630	—	—	0,2	28	4
B041A01700CPG	B042A01700CPG	1,700	.0669	—	—	0,3	28	4
B041A01800CPG	B042A01800CPG	1,800	.0709	—	—	0,3	28	4
B041A01900CPG	B042A01900CPG	1,900	.0748	—	—	0,3	28	4
B041A01984CPG	B042A01984CPG	1,984	.0781	5/64	—	0,3	28	4
B041A02000CPG	B042A02000CPG	2,000	.0787	—	—	0,3	28	4
B041A02100CPG	B042A02100CPG	2,100	.0827	—	—	0,3	28	4
B041A02200CPG	B042A02200CPG	2,200	.0866	—	—	0,3	28	4
B041A02300CPG	B042A02300CPG	2,300	.0906	—	—	0,4	28	4
B041A02383CPG	B042A02383CPG	2,383	.0938	3/32	—	0,4	28	4
B041A02400CPG	B042A02400CPG	2,400	.0945	—	—	0,4	28	4
B041A02439CPG	B042A02439CPG	2,439	.0960	—	41	0,4	28	4
B041A02489CPG	B042A02489CPG	2,489	.0980	—	40	0,4	28	4
B041A02500CPG	B042A02500CPG	2,500	.0984	—	—	0,4	28	4
B041A02578CPG	B042A02578CPG	2,578	.1015	—	38	0,4	28	4
B041A02600CPG	B042A02600CPG	2,600	.1024	—	—	0,4	28	4
B041A02642CPG	B042A02642CPG	2,642	.1040	—	37	0,4	28	4
B041A02700CPG	B042A02700CPG	2,700	.1063	—	—	0,4	28	4

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(B041A/B042A • ~3 x D/~5 x D — continued)

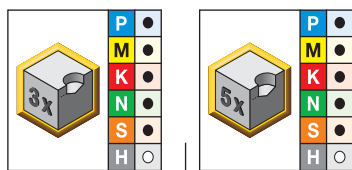


- first choice
- alternate choice

		D1 diameter						
short • KC7325	long • KC7325	mm	in	fraction	wire size	L5	LS	D
B041A02705CPG	B042A02705CPG	2,705	.1065	—	36	0,4	28	4
B041A02779CPG	B042A02779CPG	2,779	.1094	7/64	—	0,4	28	4
B041A02800CPG	B042A02800CPG	2,800	.1102	—	—	0,5	28	4
B041A02820CPG	B042A02820CPG	2,820	.1110	—	34	0,5	28	4
B041A02870CPG	B042A02870CPG	2,870	.1130	—	33	0,5	28	4
B041A02900CPG	B042A02900CPG	2,900	.1142	—	—	0,5	28	4
B041A02947CPG	B042A02947CPG	2,947	.1160	—	32	0,5	28	4
B041A03000CPG	B042A03000CPG	3,000	.1181	—	—	0,5	36	6
B041A03048CPG	B042A03048CPG	3,048	.1200	—	31	0,5	36	6
B041A03100CPG	B042A03100CPG	3,100	.1220	—	—	0,5	36	6
B041A03175CPG	B042A03175CPG	3,175	.1250	1/8	—	0,5	36	6
B041A03200CPG	B042A03200CPG	3,200	.1260	—	—	0,5	36	6
B041A03264CPG	B042A03264CPG	3,264	.1285	—	30	0,5	36	6
B041A03300CPG	B042A03300CPG	3,300	.1299	—	—	0,5	36	6
B041A03400CPG	B042A03400CPG	3,400	.1339	—	—	0,6	36	6
B041A03455CPG	B042A03455CPG	3,455	.1360	—	29	0,6	36	6
B041A03500CPG	B042A03500CPG	3,500	.1378	—	—	0,6	36	6
B041A03571CPG	B042A03571CPG	3,571	.1406	9/64	—	0,6	36	6
B041A03600CPG	B042A03600CPG	3,600	.1417	—	—	0,6	36	6
B041A03658CPG	B042A03658CPG	3,658	.1440	—	27	0,6	36	6
B041A03700CPG	B042A03700CPG	3,700	.1457	—	—	0,6	36	6
B041A03734CPG	B042A03734CPG	3,734	.1470	—	26	0,6	36	6
B041A03800CPG	B042A03800CPG	3,800	.1496	—	—	0,6	36	6
B041A03900CPG	B042A03900CPG	3,900	.1535	—	—	0,6	36	6
B041A03970CPG	B042A03970CPG	3,970	.1563	5/32	—	0,7	36	6
B041A04000CPG	B042A04000CPG	4,000	.1575	—	—	0,7	36	6
B041A04039CPG	B042A04039CPG	4,039	.1590	—	21	0,7	36	6
B041A04090CPG	B042A04090CPG	4,090	.1610	—	20	0,7	36	6
B041A04100CPG	B042A04100CPG	4,100	.1614	—	—	0,7	36	6
B041A04200CPG	B042A04200CPG	4,200	.1654	—	—	0,7	36	6
B041A04217CPG	B042A04217CPG	4,217	.1660	—	19	0,7	36	6
B041A04300CPG	B042A04300CPG	4,300	.1693	—	—	0,7	36	6
B041A04366CPG	B042A04366CPG	4,366	.1719	11/64	—	0,7	36	6
B041A04400CPG	B042A04400CPG	4,400	.1732	—	—	0,7	36	6
B041A04500CPG	B042A04500CPG	4,500	.1772	—	—	0,7	36	6
B041A04600CPG	B042A04600CPG	4,600	.1811	—	—	0,8	36	6
B041A04623CPG	B042A04623CPG	4,623	.1820	—	14	0,8	36	6
B041A04700CPG	B042A04700CPG	4,700	.1850	—	13	0,8	36	6
B041A04763CPG	B042A04763CPG	4,763	.1875	3/16	—	0,8	36	6
B041A04800CPG	B042A04800CPG	4,800	.1890	—	12	0,8	36	6
B041A04852CPG	B042A04852CPG	4,852	.1910	—	11	0,8	36	6
B041A04900CPG	B042A04900CPG	4,900	.1929	—	—	0,8	36	6
B041A05000CPG	B042A05000CPG	5,000	.1969	—	—	0,8	36	6
B041A05100CPG	B042A05100CPG	5,100	.2008	—	—	0,8	36	6
B041A05106CPG	B042A05106CPG	5,106	.2010	—	7	0,8	36	6
B041A05159CPG	B042A05159CPG	5,159	.2031	13/64	—	0,9	36	6
B041A05200CPG	B042A05200CPG	5,200	.2047	—	—	0,9	36	6
B041A05300CPG	B042A05300CPG	5,300	.2087	—	—	0,9	36	6
B041A05400CPG	B042A05400CPG	5,400	.2126	—	—	0,9	36	6
B041A05410CPG	B042A05410CPG	5,410	.2130	—	3	0,9	36	6
B041A05500CPG	B042A05500CPG	5,500	.2165	—	—	0,9	36	6
B041A05558CPG	B042A05558CPG	5,558	.2188	7/32	—	0,9	36	6

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(B041A/B042A • ~3 x D/~5 x D — continued)



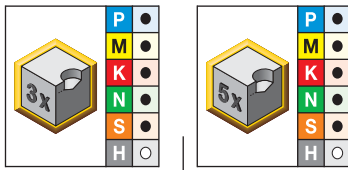
● first choice

○ alternate choice

		D1 diameter						
short • KC7325	long • KC7325	mm	in	fraction	wire size	L5	LS	D
B041A05600CPG	B042A05600CPG	5,600	.2205	—	—	0,9	36	6
B041A05616CPG	B042A05616CPG	5,616	.2211	—	2	0,9	36	6
B041A05700CPG	B042A05700CPG	5,700	.2244	—	—	1,0	36	6
B041A05800CPG	B042A05800CPG	5,800	.2283	—	—	1,0	36	6
B041A05900CPG	B042A05900CPG	5,900	.2323	—	—	1,0	36	6
B041A05954CPG	B042A05954CPG	5,954	.2344	15/64	—	1,0	36	6
B041A06000CPG	B042A06000CPG	6,000	.2362	—	—	1,0	36	6
B041A06100CPG	B042A06100CPG	6,100	.2402	—	—	1,0	36	8
B041A06200CPG	B042A06200CPG	6,200	.2441	—	—	1,0	36	8
B041A06300CPG	B042A06300CPG	6,300	.2480	—	—	1,1	36	8
B041A06350CPG	B042A06350CPG	6,350	.2500	1/4	E	1,1	36	8
B041A06400CPG	B042A06400CPG	6,400	.2520	—	—	1,1	36	8
B041A06500CPG	B042A06500CPG	6,500	.2559	—	—	1,1	36	8
B041A06528CPG	B042A06528CPG	6,528	.2570	—	F	1,1	36	8
B041A06600CPG	B042A06600CPG	6,600	.2598	—	—	1,1	36	8
B041A06630CPG	B042A06630CPG	6,630	.2610	—	G	1,1	36	8
B041A06700CPG	B042A06700CPG	6,700	.2638	—	—	1,1	36	8
B041A06746CPG	B042A06746CPG	6,746	.2656	17/64	—	1,1	36	8
B041A06800CPG	B042A06800CPG	6,800	.2677	—	—	1,1	36	8
B041A06900CPG	B042A06900CPG	6,900	.2717	—	—	1,2	36	8
B041A07000CPG	B042A07000CPG	7,000	.2756	—	—	1,2	36	8
B041A07100CPG	B042A07100CPG	7,100	.2795	—	—	1,2	36	8
B041A07145CPG	B042A07145CPG	7,145	.2813	9/32	—	1,2	36	8
B041A07200CPG	B042A07200CPG	7,200	.2835	—	—	1,2	36	8
B041A07300CPG	B042A07300CPG	7,300	.2874	—	—	1,2	36	8
B041A07400CPG	B042A07400CPG	7,400	.2913	—	—	1,3	36	8
B041A07500CPG	B042A07500CPG	7,500	.2953	—	—	1,3	36	8
B041A07541CPG	B042A07541CPG	7,541	.2969	19/64	—	1,3	36	8
B041A07600CPG	B042A07600CPG	7,600	.2992	—	—	1,3	36	8
B041A07700CPG	B042A07700CPG	7,700	.3031	—	—	1,3	36	8
B041A07800CPG	B042A07800CPG	7,800	.3071	—	—	1,3	36	8
B041A07900CPG	B042A07900CPG	7,900	.3110	—	—	1,3	36	8
B041A07938CPG	B042A07938CPG	7,938	.3125	5/16	—	1,3	36	8
B041A08000CPG	B042A08000CPG	8,000	.3150	—	—	1,4	36	8
B041A08100CPG	B042A08100CPG	8,100	.3189	—	—	1,4	40	10
B041A08200CPG	B042A08200CPG	8,200	.3228	—	—	1,4	40	10
B041A08300CPG	B042A08300CPG	8,300	.3268	—	—	1,4	40	10
B041A08334CPG	B042A08334CPG	8,334	.3281	21/64	—	1,4	40	10
B041A08400CPG	B042A08400CPG	8,400	.3307	—	—	1,4	40	10
B041A08433CPG	B042A08433CPG	8,433	.3320	—	Q	1,4	40	10
B041A08500CPG	B042A08500CPG	8,500	.3346	—	—	1,4	40	10
B041A08600CPG	B042A08600CPG	8,600	.3386	—	—	1,5	40	10
B041A08700CPG	B042A08700CPG	8,700	.3425	—	—	1,5	40	10
B041A08733CPG	B042A08733CPG	8,733	.3438	11/32	—	1,5	40	10
B041A08800CPG	B042A08800CPG	8,800	.3465	—	—	1,5	40	10
B041A08900CPG	B042A08900CPG	8,900	.3504	—	—	1,5	40	10
B041A09000CPG	B042A09000CPG	9,000	.3543	—	—	1,5	40	10
B041A09100CPG	B042A09100CPG	9,100	.3583	—	—	1,5	40	10
B041A09129CPG	B042A09129CPG	9,129	.3594	23/64	—	1,6	40	10
B041A09200CPG	B042A09200CPG	9,200	.3622	—	—	1,6	40	10
B041A09300CPG	B042A09300CPG	9,300	.3661	—	—	1,6	40	10
B041A09347CPG	B042A09347CPG	9,347	.3680	—	U	1,6	40	10

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(B041A/B042A • ~3 x D/~5 x D — continued)

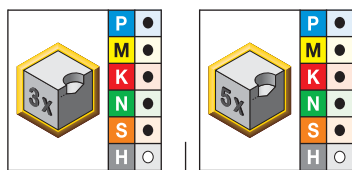


- first choice
- alternate choice

		D1 diameter						
short • KC7325	long • KC7325	mm	in	fraction	wire size	L5	LS	D
B041A09400CPG	B042A09400CPG	9,400	.3701	—	—	1,6	40	10
B041A09500CPG	B042A09500CPG	9,500	.3740	—	—	1,6	40	10
B041A09525CPG	B042A09525CPG	9,525	.3750	3/8	—	1,6	40	10
B041A09600CPG	B042A09600CPG	9,600	.3780	—	—	1,6	40	10
B041A09700CPG	B042A09700CPG	9,700	.3819	—	—	1,7	40	10
B041A09800CPG	B042A09800CPG	9,800	.3858	—	—	1,7	40	10
B041A09900CPG	B042A09900CPG	9,900	.3898	—	—	1,7	40	10
B041A09921CPG	B042A09921CPG	9,921	.3906	25/64	—	1,7	40	10
B041A10000CPG	B042A10000CPG	10,000	.3937	—	—	1,7	40	10
B041A10100CPG	B042A10100CPG	10,100	.3976	—	—	1,7	45	12
B041A10200CPG	B042A10200CPG	10,200	.4016	—	—	1,7	45	12
B041A10300CPG	B042A10300CPG	10,300	.4055	—	—	1,8	45	12
B041A10320CPG	B042A10320CPG	10,320	.4063	13/32	—	1,8	45	12
B041A10400CPG	B042A10400CPG	10,400	.4094	—	—	1,8	45	12
B041A10500CPG	B042A10500CPG	10,500	.4134	—	—	1,8	45	12
B041A10600CPG	B042A10600CPG	10,600	.4173	—	—	1,8	45	12
B041A10700CPG	B042A10700CPG	10,700	.4213	—	—	1,8	45	12
B041A10716CPG	B042A10716CPG	10,716	.4219	27/64	—	1,8	45	12
B041A10800CPG	B042A10800CPG	10,800	.4252	—	—	1,8	45	12
B041A10900CPG	B042A10900CPG	10,900	.4291	—	—	1,9	45	12
B041A11000CPG	B042A11000CPG	11,000	.4331	—	—	1,9	45	12
B041A11100CPG	B042A11100CPG	11,100	.4370	—	—	1,9	45	12
B041A11113CPG	B042A11113CPG	11,113	.4375	7/16	—	1,9	45	12
B041A11200CPG	B042A11200CPG	11,200	.4409	—	—	1,9	45	12
B041A11300CPG	B042A11300CPG	11,300	.4449	—	—	1,9	45	12
B041A11400CPG	B042A11400CPG *	11,400	.4488	—	—	2,0	45	12
B041A11500CPG	B042A11500CPG	11,500	.4528	—	—	2,0	45	12
B041A11509CPG	B042A11509CPG	11,509	.4531	29/64	—	2,0	45	12
B041A11600CPG	B042A11600CPG	11,600	.4567	—	—	2,0	45	12
B041A11700CPG	B042A11700CPG	11,700	.4606	—	—	2,0	45	12
B041A11800CPG	B042A11800CPG	11,800	.4646	—	—	2,0	45	12
B041A11900CPG	B042A11900CPG	11,900	.4685	—	—	2,0	45	12
B041A11908CPG	B042A11908CPG	11,908	.4688	15/32	—	2,0	45	12
B041A12000CPG	B042A12000CPG	12,000	.4724	—	—	2,1	45	12
B041A12100CPG	B042A12100CPG	12,100	.4764	—	—	2,1	45	14
B041A12200CPG	B042A12200CPG	12,200	.4803	—	—	2,1	45	14
B041A12300CPG	B042A12300CPG	12,300	.4843	—	—	2,1	45	14
B041A12304CPG	B042A12304CPG	12,304	.4844	31/64	—	2,1	45	14
B041A12400CPG	B042A12400CPG *	12,400	.4882	—	—	2,1	45	14
B041A12500CPG	B042A12500CPG	12,500	.4921	—	—	2,1	45	14
B041A12600CPG	B042A12600CPG	12,600	.4961	—	—	2,2	45	14
B041A12700CPG	B042A12700CPG	12,700	.5000	1/2	—	2,2	45	14
B041A12800CPG	B042A12800CPG	12,800	.5039	—	—	2,2	45	14
B041A12900CPG	B042A12900CPG	12,900	.5079	—	—	2,2	45	14
B041A13000CPG	B042A13000CPG	13,000	.5118	—	—	2,2	45	14
B041A13096CPG	B042A13096CPG	13,096	.5156	33/64	—	2,3	45	14
B041A13100CPG	B042A13100CPG	13,100	.5157	—	—	2,3	45	14
B041A13200CPG	B042A13200CPG	13,200	.5197	—	—	2,3	45	14
B041A13300CPG	B042A13300CPG	13,300	.5236	—	—	2,3	45	14
B041A13400CPG	B042A13400CPG	13,400	.5276	—	—	2,3	45	14
B041A13500CPG	B042A13500CPG	13,500	.5315	—	—	2,3	45	14
B041A13600CPG	B042A13600CPG	13,600	.5354	—	—	2,3	45	14

(continued)

(B041A/B042A • ~3 x D/~5 x D — continued)



● first choice

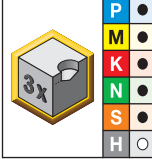
○ alternate choice

D1 diameter

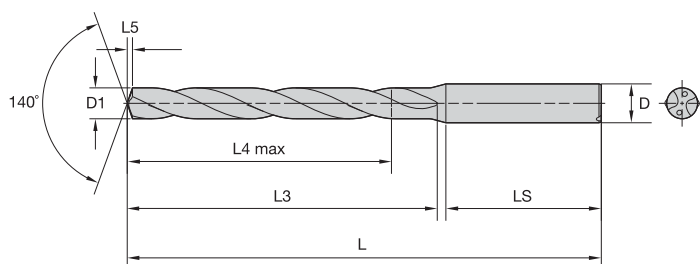
short • KC7325	long • KC7325	mm	in	fraction	wire size	L5	LS	D
B041A13700CPG	B042A13700CPG	13,700	.5394	—	—	2,4	45	14
B041A13800CPG	B042A13800CPG	13,800	.5433	—	—	2,4	45	14
B041A13891CPG	B042A13891CPG	13,891	.5469	35/64	—	2,4	45	14
B041A13900CPG	B042A13900CPG	13,900	.5472	—	—	2,4	45	14
B041A14000CPG	B042A14000CPG	14,000	.5512	—	—	2,4	45	14
B041A14100CPG	B042A14100CPG	14,100	.5551	—	—	2,4	48	16
B041A14200CPG	B042A14200CPG	14,200	.5591	—	—	2,5	48	16
B041A14288CPG	B042A14288CPG	14,288	.5625	9/16	—	2,5	48	16
B041A14300CPG	B042A14300CPG	14,300	.5630	—	—	2,5	48	16
B041A14400CPG	B042A14400CPG	14,400	.5669	—	—	2,5	48	16
B041A14500CPG	B042A14500CPG	14,500	.5709	—	—	2,5	48	16
B041A14600CPG	B042A14600CPG	14,600	.5748	—	—	2,5	48	16
B041A14684CPG	B042A14684CPG	14,684	.5781	37/64	—	2,5	48	16
B041A14700CPG	B042A14700CPG	14,700	.5787	—	—	2,5	48	16
B041A14800CPG	B042A14800CPG	14,800	.5827	—	—	2,6	48	16
B041A14900CPG	B042A14900CPG	14,900	.5866	—	—	2,6	48	16
B041A15000CPG	B042A15000CPG	15,000	.5906	—	—	2,6	48	16
B041A15083CPG	B042A15083CPG	15,083	.5938	19/32	—	2,6	48	16
B041A15100CPG	B042A15100CPG	15,100	.5945	—	—	2,6	48	16
B041A15200CPG	B042A15200CPG	15,200	.5984	—	—	2,6	48	16
B041A15300CPG	B042A15300CPG	15,300	.6024	—	—	2,6	48	16
B041A15400CPG	B042A15400CPG	15,400	.6063	—	—	2,7	48	16
B041A15479CPG	B042A15479CPG	15,479	.6094	39/64	—	2,7	48	16
B041A15500CPG	B042A15500CPG	15,500	.6102	—	—	2,7	48	16
B041A15600CPG	B042A15600CPG	15,600	.6142	—	—	2,7	48	16
B041A15700CPG	B042A15700CPG	15,700	.6181	—	—	2,7	48	16
B041A15800CPG	B042A15800CPG	15,800	.6220	—	—	2,7	48	16
B041A15875CPG	B042A15875CPG	15,875	.6250	5/8	—	2,7	48	16
B041A15900CPG	B042A15900CPG	15,900	.6260	—	—	2,8	48	16
B041A16000CPG	B042A16000CPG	16,000	.6299	—	—	2,8	48	16
B041A16100CPG	B042A16100CPG	16,100	.6339	—	—	2,8	48	18
B041A16200CPG	B042A16200CPG	16,200	.6378	—	—	2,8	48	18
B041A16271CPG	B042A16271CPG	16,271	.6406	41/64	—	2,8	48	18
B041A16300CPG	B042A16300CPG	16,300	.6417	—	—	2,8	48	18
B041A16400CPG	B042A16400CPG	16,400	.6457	—	—	2,8	48	18
B041A16500CPG	B042A16500CPG	16,500	.6496	—	—	2,9	48	18
B041A16600CPG	B042A16600CPG	16,600	.6535	—	—	2,9	48	18
B041A16670CPG	B042A16670CPG	16,670	.6563	21/32	—	2,9	48	18
B041A16700CPG	B042A16700CPG	16,700	.6575	—	—	2,9	48	18
B041A16800CPG	B042A16800CPG	16,800	.6614	—	—	2,9	48	18
B041A16900CPG	B042A16900CPG	16,900	.6654	—	—	2,9	48	18
B041A17000CPG	B042A17000CPG	17,000	.6693	—	—	2,9	48	18
B041A17100CPG	B042A17100CPG	17,100	.6732	—	—	3,0	48	18
B041A17200CPG	B042A17200CPG	17,200	.6772	—	—	3,0	48	18
B041A17300CPG	B042A17300CPG	17,300	.6811	—	—	3,0	48	18
B041A17400CPG	B042A17400CPG	17,400	.6850	—	—	3,0	48	18
B041A17463CPG	B042A17463CPG	17,463	.6875	11/16	—	3,0	48	18
B041A17500CPG	B042A17500CPG	17,500	.6890	—	—	3,0	48	18
B041A17600CPG	B042A17600CPG	17,600	.6929	—	—	3,1	48	18
B041A17700CPG	B042A17700CPG	17,700	.6969	—	—	3,1	48	18
B041A17800CPG	B042A17800CPG	17,800	.7008	—	—	3,1	48	18
B041A17859CPG	B042A17859CPG	17,859	.7031	45/64	—	3,1	48	18

(continued)

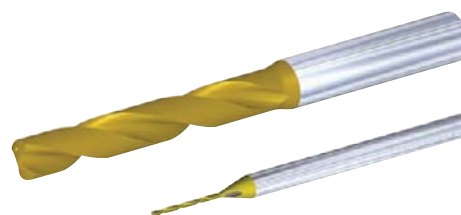
(B041A/B042A • ~3 x D/~5 x D — continued)

		D1 diameter						
		mm	in	fraction	wire size	L5	LS	D
	short • KC7325							
	long • KC7325							
B041A17900CPG	B042A17900CPG	17,900	.7047	—	—	3,1	48	18
B041A18000CPG	B042A18000CPG	18,000	.7087	—	—	3,1	48	18
B041A18100CPG	B042A18100CPG	18,100	.7126	—	—	3,1	50	20
B041A18200CPG	B042A18200CPG	18,200	.7165	—	—	3,2	50	20
B041A18258CPG	B042A18258CPG	18,258	.7188	23/32	—	3,2	50	20
B041A18300CPG	B042A18300CPG	18,300	.7205	—	—	3,2	50	20
B041A18400CPG	B042A18400CPG	18,400	.7244	—	—	3,2	50	20
B041A18500CPG	B042A18500CPG	18,500	.7283	—	—	3,2	50	20
B041A18600CPG	B042A18600CPG	18,600	.7323	—	—	3,2	50	20
B041A18654CPG	B042A18654CPG	18,654	.7344	47/64	—	3,2	50	20
B041A18700CPG	B042A18700CPG	18,700	.7362	—	—	3,2	50	20
B041A18800CPG	B042A18800CPG	18,800	.7402	—	—	3,3	50	20
B041A18900CPG	B042A18900CPG	18,900	.7441	—	—	3,3	50	20
B041A19000CPG	B042A19000CPG	19,000	.7480	—	—	3,3	50	20
B041A19050CPG	B042A19050CPG	19,050	.7500	3/4	—	3,3	50	20
B041A19100CPG	B042A19100CPG	19,100	.7520	—	—	3,3	50	20
B041A19200CPG	B042A19200CPG	19,200	.7559	—	—	3,3	50	20
B041A19300CPG	B042A19300CPG	19,300	.7598	—	—	3,4	50	20
B041A19400CPG	B042A19400CPG	19,400	.7638	—	—	3,4	50	20
B041A19500CPG	B042A19500CPG	19,500	.7677	—	—	3,4	50	20
B041A19600CPG	B042A19600CPG	19,600	.7717	—	—	3,4	50	20
B041A19700CPG	B042A19700CPG	19,700	.7756	—	—	3,4	50	20
B041A19800CPG	B042A19800CPG	19,800	.7795	—	—	3,4	50	20
B041A19900CPG	B042A19900CPG	19,900	.7835	—	—	3,5	50	20
B041A20000CPG	B042A20000CPG	20,000	.7874	—	—	3,5	50	20

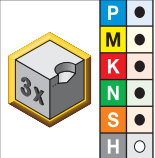
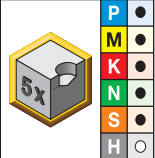
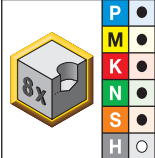
NOTE: *Made-to-order standard item. Standard pricing, manufacturing lead time, and minimum order quantity applies.



For information on L, L3, and L4 max, see the Solid Carbide Drills foldout table.



■ B051A/B052A/B053A • ~3 x D/~5 x D/~8 x D

  			D1 diameter						
short • KC7325	long • KC7325	extra long • KC7325	mm	in	fraction	wire size	L5	LS	D
—	—	B053A01000CPG	1,000	.0394	—	—	0,1	28	4
—	—	B053A01016CPG	1,016	.0400	—	60	0,1	28	4
—	—	B053A01067CPG	1,067	.0420	—	58	0,2	28	4
—	—	B053A01100CPG	1,100	.0433	—	—	0,2	28	4
—	—	B053A01181CPG	1,181	.0465	—	56	0,2	28	4
—	—	B053A01191CPG	1,191	.0469	3/64	—	0,2	28	4
—	—	B053A01200CPG	1,200	.0472	—	—	0,2	28	4
—	—	B053A01300CPG	1,300	.0512	—	—	0,2	28	4
—	—	B053A01321CPG	1,321	.0520	—	55	0,2	28	4
—	—	B053A01397CPG	1,397	.0550	—	54	0,2	28	4
—	—	B053A01400CPG	1,400	.0551	—	—	0,2	28	4
B051A01500CPG	B052A01500CPG	B053A01500CPG	1,500	.0591	—	—	0,2	28	4
B051A01600CPG	B052A01600CPG	B053A01600CPG	1,600	.0630	—	—	0,2	28	4
B051A01700CPG	B052A01700CPG	B053A01700CPG	1,700	.0669	—	—	0,3	28	4
B051A01800CPG	B052A01800CPG	B053A01800CPG	1,800	.0709	—	—	0,3	28	4
B051A01900CPG	B052A01900CPG	B053A01900CPG	1,900	.0748	—	—	0,3	28	4
B051A01984CPG	B052A01984CPG	B053A01984CPG	1,984	.0781	5/64	—	0,3	28	4
B051A02000CPG	B052A02000CPG	B053A02000CPG	2,000	.0787	—	—	0,3	28	4
B051A02100CPG	B052A02100CPG	B053A02100CPG	2,100	.0827	—	—	0,3	28	4
B051A02200CPG	B052A02200CPG	B053A02200CPG	2,200	.0866	—	—	0,3	28	4
B051A02300CPG	B052A02300CPG	B053A02300CPG	2,300	.0906	—	—	0,4	28	4
B051A02383CPG	B052A02383CPG	B053A02383CPG	2,383	.0938	3/32	—	0,4	28	4
B051A02400CPG	B052A02400CPG	B053A02400CPG	2,400	.0945	—	—	0,4	28	4
B051A02439CPG	B052A02439CPG	B053A02439CPG	2,439	.0960	—	41	0,4	28	4
B051A02489CPG	B052A02489CPG	B053A02489CPG	2,489	.0980	—	40	0,4	28	4
B051A02500CPG	B052A02500CPG	B053A02500CPG	2,500	.0984	—	—	0,4	28	4
B051A02578CPG	B052A02578CPG	B053A02578CPG	2,578	.1015	—	38	0,4	28	4
B051A02600CPG	B052A02600CPG	B053A02600CPG	2,600	.1024	—	—	0,4	28	4
B051A02642CPG	B052A02642CPG	B053A02642CPG	2,642	.1040	—	37	0,4	28	4
B051A02700CPG	B052A02700CPG	B053A02700CPG	2,700	.1063	—	—	0,4	28	4
B051A02705CPG	B052A02705CPG	B053A02705CPG	2,705	.1065	—	36	0,4	28	4
B051A02779CPG	B052A02779CPG	B053A02779CPG	2,779	.1094	7/64	—	0,4	28	4
B051A02800CPG	B052A02800CPG	B053A02800CPG	2,800	.1102	—	—	0,5	28	4
B051A02820CPG	B052A02820CPG	B053A02820CPG	2,820	.1110	—	34	0,5	28	4
B051A02870CPG	B052A02870CPG	B053A02870CPG	2,870	.1130	—	33	0,5	28	4
B051A02900CPG	B052A02900CPG	B053A02900CPG	2,900	.1142	—	—	0,5	28	4

● first choice

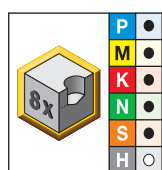
○ alternate choice

(continued)

(B051A/B052A/B053A • ~3 x D/~5 x D/~8 x D — continued)

							● first choice ○ alternate choice		
			D1 diameter						
short • KC7325	long • KC7325	extra long • KC7325	mm	in	fraction	wire size	L5	LS	D
B051A02947CPG	B052A02947CPG	B053A02947CPG	2,947	.1160	—	32	0,5	28	4
B051A03000CPG	B052A03000CPG	B053A03000CPG	3,000	.1181	—	—	0,5	36	6
B051A03048CPG	B052A03048CPG	B053A03048CPG	3,048	.1200	—	31	0,5	36	6
B051A03100CPG	B052A03100CPG	B053A03100CPG	3,100	.1220	—	—	0,5	36	6
B051A03175CPG	B052A03175CPG	B053A03175CPG	3,175	.1250	1/8	—	0,5	36	6
B051A03200CPG	B052A03200CPG	B053A03200CPG	3,200	.1260	—	—	0,5	36	6
B051A03264CPG	B052A03264CPG	B053A03264CPG	3,264	.1285	—	30	0,5	36	6
B051A03300CPG	B052A03300CPG	B053A03300CPG	3,300	.1299	—	—	0,5	36	6
B051A03400CPG	B052A03400CPG	B053A03400CPG	3,400	.1339	—	—	0,6	36	6
B051A03455CPG	B052A03455CPG	B053A03455CPG	3,455	.1360	—	29	0,6	36	6
B051A03500CPG	B052A03500CPG	B053A03500CPG	3,500	.1378	—	—	0,6	36	6
B051A03571CPG	B052A03571CPG	B053A03571CPG	3,571	.1406	9/64	—	0,6	36	6
B051A03600CPG	B052A03600CPG	B053A03600CPG	3,600	.1417	—	—	0,6	36	6
B051A03658CPG	B052A03658CPG	B053A03658CPG	3,658	.1440	—	27	0,6	36	6
B051A03700CPG	B052A03700CPG	B053A03700CPG	3,700	.1457	—	—	0,6	36	6
B051A03734CPG	B052A03734CPG	B053A03734CPG	3,734	.1470	—	26	0,6	36	6
B051A03800CPG	B052A03800CPG	B053A03800CPG	3,800	.1496	—	—	0,6	36	6
B051A03900CPG	B052A03900CPG	B053A03900CPG	3,900	.1535	—	—	0,6	36	6
B051A03970CPG	B052A03970CPG	B053A03970CPG	3,970	.1563	5/32	—	0,7	36	6
B051A04000CPG	B052A04000CPG	B053A04000CPG	4,000	.1575	—	—	0,7	36	6
B051A04039CPG	B052A04039CPG	B053A04039CPG	4,039	.1590	—	21	0,7	36	6
B051A04090CPG	B052A04090CPG	B053A04090CPG	4,090	.1610	—	20	0,7	36	6
B051A04100CPG	B052A04100CPG	B053A04100CPG	4,100	.1614	—	—	0,7	36	6
B051A04200CPG	B052A04200CPG	B053A04200CPG	4,200	.1654	—	—	0,7	36	6
B051A04217CPG	B052A04217CPG	B053A04217CPG	4,217	.1660	—	19	0,7	36	6
B051A04300CPG	B052A04300CPG	B053A04300CPG	4,300	.1693	—	—	0,7	36	6
B051A04366CPG	B052A04366CPG	B053A04366CPG	4,366	.1719	11/64	—	0,7	36	6
B051A04400CPG	B052A04400CPG	B053A04400CPG	4,400	.1732	—	—	0,7	36	6
B051A04500CPG	B052A04500CPG	B053A04500CPG	4,500	.1772	—	—	0,7	36	6
B051A04600CPG	B052A04600CPG	B053A04600CPG	4,600	.1811	—	—	0,8	36	6
B051A04623CPG	B052A04623CPG	B053A04623CPG	4,623	.1820	—	14	0,8	36	6
B051A04700CPG	B052A04700CPG	B053A04700CPG	4,700	.1850	—	13	0,8	36	6
B051A04763CPG	B052A04763CPG	B053A04763CPG	4,763	.1875	3/16	—	0,8	36	6
B051A04800CPG	B052A04800CPG	B053A04800CPG	4,800	.1890	—	12	0,8	36	6
B051A04852CPG	B052A04852CPG	B053A04852CPG	4,852	.1910	—	11	0,8	36	6
B051A04900CPG	B052A04900CPG	B053A04900CPG	4,900	.1929	—	—	0,8	36	6
B051A05000CPG	B052A05000CPG	B053A05000CPG	5,000	.1969	—	—	0,8	36	6
B051A05100CPG	B052A05100CPG	B053A05100CPG	5,100	.2008	—	—	0,8	36	6
B051A05106CPG	B052A05106CPG	B053A05106CPG	5,106	.2010	—	7	0,8	36	6
B051A05159CPG	B052A05159CPG	B053A05159CPG	5,159	.2031	13/64	—	0,9	36	6
B051A05200CPG	B052A05200CPG	B053A05200CPG	5,200	.2047	—	—	0,9	36	6
B051A05300CPG	B052A05300CPG	B053A05300CPG	5,300	.2087	—	—	0,9	36	6
B051A05400CPG	B052A05400CPG	B053A05400CPG	5,400	.2126	—	—	0,9	36	6
B051A05410CPG	B052A05410CPG	B053A05410CPG	5,410	.2130	—	3	0,9	36	6
B051A05500CPG	B052A05500CPG	B053A05500CPG	5,500	.2165	—	—	0,9	36	6
B051A05558CPG	B052A05558CPG	B053A05558CPG	5,558	.2188	7/32	—	0,9	36	6
B051A05600CPG	B052A05600CPG	B053A05600CPG	5,600	.2205	—	—	0,9	36	6
B051A05616CPG	B052A05616CPG	B053A05616CPG	5,616	.2211	—	2	0,9	36	6
B051A05700CPG	B052A05700CPG	B053A05700CPG	5,700	.2244	—	—	1,0	36	6
B051A05800CPG	B052A05800CPG	B053A05800CPG	5,800	.2283	—	—	1,0	36	6
B051A05900CPG	B052A05900CPG	B053A05900CPG	5,900	.2323	—	—	1,0	36	6
B051A05954CPG	B052A05954CPG	B053A05954CPG	5,954	.2344	15/64	—	1,0	36	6

(B051A/B052A/B053A • ~3 x D/~5 x D/~8 x D — continued)



● first choice

○ alternate choice

D1 diameter

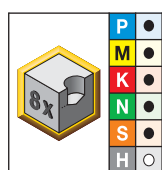
short • KC7325	long • KC7325	extra long • KC7325	mm	in	fraction	wire size	L5	LS	D
B051A06000CPG	B052A06000CPG	B053A06000CPG	6,000	.2362	—	—	1,0	36	6
B051A06100CPG	B052A06100CPG	B053A06100CPG	6,100	.2402	—	—	1,0	36	8
B051A06200CPG	B052A06200CPG	B053A06200CPG	6,200	.2441	—	—	1,0	36	8
B051A06300CPG	B052A06300CPG	B053A06300CPG	6,300	.2480	—	—	1,1	36	8
B051A06350CPG	B052A06350CPG	B053A06350CPG	6,350	.2500	1/4	E	1,1	36	8
B051A06400CPG	B052A06400CPG	B053A06400CPG	6,400	.2520	—	—	1,1	36	8
B051A06500CPG	B052A06500CPG	B053A06500CPG	6,500	.2559	—	—	1,1	36	8
B051A06528CPG	B052A06528CPG	B053A06528CPG	6,528	.2570	—	F	1,1	36	8
B051A06600CPG	B052A06600CPG	B053A06600CPG	6,600	.2598	—	—	1,1	36	8
B051A06630CPG	B052A06630CPG	B053A06630CPG	6,630	.2610	—	G	1,1	36	8
B051A06700CPG	B052A06700CPG	B053A06700CPG	6,700	.2638	—	—	1,1	36	8
B051A06746CPG	B052A06746CPG	B053A06746CPG	6,746	.2656	17/64	—	1,1	36	8
B051A06800CPG	B052A06800CPG	B053A06800CPG	6,800	.2677	—	—	1,1	36	8
B051A06900CPG	B052A06900CPG	B053A06900CPG	6,900	.2717	—	—	1,2	36	8
B051A07000CPG	B052A07000CPG	B053A07000CPG	7,000	.2756	—	—	1,2	36	8
B051A07100CPG	B052A07100CPG	B053A07100CPG	7,100	.2795	—	—	1,2	36	8
B051A07145CPG	B052A07145CPG	B053A07145CPG	7,145	.2813	9/32	—	1,2	36	8
B051A07200CPG	B052A07200CPG	B053A07200CPG	7,200	.2835	—	—	1,2	36	8
B051A07300CPG	B052A07300CPG	B053A07300CPG	7,300	.2874	—	—	1,2	36	8
B051A07400CPG	B052A07400CPG	B053A07400CPG	7,400	.2913	—	—	1,3	36	8
B051A07500CPG	B052A07500CPG	B053A07500CPG	7,500	.2953	—	—	1,3	36	8
B051A07541CPG	B052A07541CPG	B053A07541CPG	7,541	.2969	19/64	—	1,3	36	8
B051A07600CPG	B052A07600CPG	B053A07600CPG	7,600	.2992	—	—	1,3	36	8
B051A07700CPG	B052A07700CPG	B053A07700CPG	7,700	.3031	—	—	1,3	36	8
B051A07800CPG	B052A07800CPG	B053A07800CPG	7,800	.3071	—	—	1,3	36	8
B051A07900CPG	B052A07900CPG	B053A07900CPG	7,900	.3110	—	—	1,3	36	8
B051A07938CPG	B052A07938CPG	B053A07938CPG	7,938	.3125	5/16	—	1,3	36	8
B051A08000CPG	B052A08000CPG	B053A08000CPG	8,000	.3150	—	—	1,4	36	8
B051A08100CPG	B052A08100CPG	B053A08100CPG	8,100	.3189	—	—	1,4	40	10
B051A08200CPG	B052A08200CPG	B053A08200CPG	8,200	.3228	—	—	1,4	40	10
B051A08300CPG	B052A08300CPG	B053A08300CPG	8,300	.3268	—	—	1,4	40	10
B051A08334CPG	B052A08334CPG	B053A08334CPG	8,334	.3281	21/64	—	1,4	40	10
B051A08400CPG	B052A08400CPG	B053A08400CPG	8,400	.3307	—	—	1,4	40	10
B051A08433CPG	B052A08433CPG	B053A08433CPG	8,433	.3320	—	Q	1,4	40	10
B051A08500CPG	B052A08500CPG	B053A08500CPG	8,500	.3346	—	—	1,4	40	10
B051A08600CPG	B052A08600CPG	B053A08600CPG	8,600	.3386	—	—	1,5	40	10
B051A08700CPG	B052A08700CPG	B053A08700CPG	8,700	.3425	—	—	1,5	40	10
B051A08733CPG	B052A08733CPG	B053A08733CPG	8,733	.3438	11/32	—	1,5	40	10
B051A08800CPG	B052A08800CPG	B053A08800CPG	8,800	.3465	—	—	1,5	40	10
B051A08900CPG	B052A08900CPG	B053A08900CPG	8,900	.3504	—	—	1,5	40	10
B051A09000CPG	B052A09000CPG	B053A09000CPG	9,000	.3543	—	—	1,5	40	10
B051A09100CPG	B052A09100CPG	B053A09100CPG	9,100	.3583	—	—	1,5	40	10
B051A09129CPG	B052A09129CPG	B053A09129CPG	9,129	.3594	23/64	—	1,6	40	10
B051A09200CPG	B052A09200CPG	B053A09200CPG	9,200	.3622	—	—	1,6	40	10
B051A09300CPG	B052A09300CPG	B053A09300CPG	9,300	.3661	—	—	1,6	40	10
B051A09347CPG	B052A09347CPG	B053A09347CPG	9,347	.3680	—	U	1,6	40	10
B051A09400CPG	B052A09400CPG	B053A09400CPG	9,400	.3701	—	—	1,6	40	10
B051A09500CPG	B052A09500CPG	B053A09500CPG	9,500	.3740	—	—	1,6	40	10
B051A09525CPG	B052A09525CPG	B053A09525CPG	9,525	.3750	3/8	—	1,6	40	10
B051A09600CPG	B052A09600CPG	B053A09600CPG	9,600	.3780	—	—	1,6	40	10
B051A09700CPG	B052A09700CPG	B053A09700CPG	9,700	.3819	—	—	1,7	40	10
B051A09800CPG	B052A09800CPG	B053A09800CPG	9,800	.3858	—	—	1,7	40	10

(continued)

(B051A/B052A/B053A • ~3 x D/~5 x D/~8 x D — continued)

							● first choice ○ alternate choice		
			D1 diameter						
short • KC7325	long • KC7325	extra long • KC7325	mm	in	fraction	wire size	L5	LS	D
B051A09900CPG	B052A09900CPG	B053A09900CPG	9,900	.3898	—	—	1,7	40	10
B051A09921CPG	B052A09921CPG	B053A09921CPG	9,921	.3906	25/64	—	1,7	40	10
B051A10000CPG	B052A10000CPG	B053A10000CPG	10,000	.3937	—	—	1,7	40	10
B051A10100CPG	B052A10100CPG	B053A10100CPG	10,100	.3976	—	—	1,7	45	12
B051A10200CPG	B052A10200CPG	B053A10200CPG	10,200	.4016	—	—	1,7	45	12
B051A10300CPG	B052A10300CPG	B053A10300CPG	10,300	.4055	—	—	1,8	45	12
B051A10320CPG	B052A10320CPG	B053A10320CPG	10,320	.4063	13/32	—	1,8	45	12
B051A10400CPG	B052A10400CPG	B053A10400CPG	10,400	.4094	—	—	1,8	45	12
B051A10500CPG	B052A10500CPG	B053A10500CPG	10,500	.4134	—	—	1,8	45	12
B051A10600CPG	B052A10600CPG	B053A10600CPG	10,600	.4173	—	—	1,8	45	12
B051A10700CPG	B052A10700CPG	B053A10700CPG	10,700	.4213	—	—	1,8	45	12
B051A10716CPG	B052A10716CPG	B053A10716CPG	10,716	.4219	27/64	—	1,8	45	12
B051A10800CPG	B052A10800CPG	B053A10800CPG	10,800	.4252	—	—	1,8	45	12
B051A10900CPG	B052A10900CPG	B053A10900CPG	10,900	.4291	—	—	1,9	45	12
B051A11000CPG	B052A11000CPG	B053A11000CPG	11,000	.4331	—	—	1,9	45	12
B051A11100CPG	B052A11100CPG	B053A11100CPG	11,100	.4370	—	—	1,9	45	12
B051A11113CPG	B052A11113CPG	B053A11113CPG	11,113	.4375	7/16	—	1,9	45	12
B051A11200CPG	B052A11200CPG	B053A11200CPG	11,200	.4409	—	—	1,9	45	12
B051A11300CPG	B052A11300CPG	B053A11300CPG	11,300	.4449	—	—	1,9	45	12
B051A11400CPG	B052A11400CPG	B053A11400CPG	11,400	.4488	—	—	2,0	45	12
B051A11500CPG	B052A11500CPG	B053A11500CPG	11,500	.4528	—	—	2,0	45	12
B051A11509CPG	B052A11509CPG	B053A11509CPG	11,509	.4531	29/64	—	2,0	45	12
B051A11600CPG	B052A11600CPG	B053A11600CPG	11,600	.4567	—	—	2,0	45	12
B051A11700CPG	B052A11700CPG	B053A11700CPG	11,700	.4606	—	—	2,0	45	12
B051A11800CPG	B052A11800CPG	B053A11800CPG	11,800	.4646	—	—	2,0	45	12
B051A11900CPG	B052A11900CPG	B053A11900CPG	11,900	.4685	—	—	2,0	45	12
B051A11908CPG	B052A11908CPG	B053A11908CPG	11,908	.4688	15/32	—	2,0	45	12
B051A12000CPG	B052A12000CPG	B053A12000CPG	12,000	.4724	—	—	2,1	45	12
B051A12100CPG	B052A12100CPG	B053A12100CPG	12,100	.4764	—	—	2,1	45	14
B051A12200CPG	B052A12200CPG	B053A12200CPG	12,200	.4803	—	—	2,1	45	14
B051A12300CPG	B052A12300CPG	B053A12300CPG	12,300	.4843	—	—	2,1	45	14
B051A12304CPG	B052A12304CPG	B053A12304CPG	12,304	.4844	31/64	—	2,1	45	14
B051A12400CPG	B052A12400CPG	B053A12400CPG	12,400	.4882	—	—	2,1	45	14
B051A12500CPG	B052A12500CPG	B053A12500CPG	12,500	.4921	—	—	2,1	45	14
B051A12600CPG	B052A12600CPG	B053A12600CPG	12,600	.4961	—	—	2,2	45	14
B051A12700CPG	B052A12700CPG	B053A12700CPG	12,700	.5000	1/2	—	2,2	45	14
B051A12800CPG	B052A12800CPG	B053A12800CPG	12,800	.5039	—	—	2,2	45	14
B051A12900CPG	B052A12900CPG	B053A12900CPG	12,900	.5079	—	—	2,2	45	14
B051A13000CPG	B052A13000CPG	B053A13000CPG	13,000	.5118	—	—	2,2	45	14
B051A13096CPG	B052A13096CPG	B053A13096CPG	13,096	.5156	33/64	—	2,3	45	14
B051A13100CPG	B052A13100CPG	B053A13100CPG	13,100	.5157	—	—	2,3	45	14
B051A13200CPG	B052A13200CPG	B053A13200CPG	13,200	.5197	—	—	2,3	45	14
B051A13300CPG	B052A13300CPG	B053A13300CPG	13,300	.5236	—	—	2,3	45	14
B051A13400CPG	B052A13400CPG	B053A13400CPG	13,400	.5276	—	—	2,3	45	14
B051A13500CPG	B052A13500CPG	B053A13500CPG	13,500	.5315	—	—	2,3	45	14
B051A13600CPG	B052A13600CPG	B053A13600CPG	13,600	.5354	—	—	2,3	45	14
B051A13700CPG	B052A13700CPG	B053A13700CPG	13,700	.5394	—	—	2,4	45	14
B051A13800CPG	B052A13800CPG	B053A13800CPG	13,800	.5433	—	—	2,4	45	14
B051A13891CPG	B052A13891CPG	B053A13891CPG	13,891	.5469	35/64	—	2,4	45	14
B051A13900CPG	B052A13900CPG	B053A13900CPG	13,900	.5472	—	—	2,4	45	14
B051A14000CPG	B052A14000CPG	B053A14000CPG	14,000	.5512	—	—	2,4	45	14
B051A14100CPG	B052A14100CPG	B053A14100CPG	14,100	.5551	—	—	2,4	48	16

(B051A/B052A/B053A • ~3 x D/~5 x D/~8 x D — continued)



● first choice

○ alternate choice

D1 diameter

short • KC7325	long • KC7325	extra long • KC7325	D1 diameter				wire size	L5	LS	D
mm	in	fraction								
B051A14200CPG	B052A14200CPG	B053A14200CPG	14,200	.5591	—	—	—	2,5	48	16
B051A14288CPG	B052A14288CPG	B053A14288CPG	14,288	.5625	9/16	—	—	2,5	48	16
B051A14300CPG	B052A14300CPG	B053A14300CPG	14,300	.5630	—	—	—	2,5	48	16
B051A14400CPG	B052A14400CPG	B053A14400CPG	14,400	.5669	—	—	—	2,5	48	16
B051A14500CPG	B052A14500CPG	B053A14500CPG	14,500	.5709	—	—	—	2,5	48	16
B051A14600CPG	B052A14600CPG	B053A14600CPG	14,600	.5748	—	—	—	2,5	48	16
B051A14684CPG	B052A14684CPG	B053A14684CPG	14,684	.5781	37/64	—	—	2,5	48	16
B051A14700CPG	B052A14700CPG	B053A14700CPG	14,700	.5787	—	—	—	2,5	48	16
B051A14800CPG	B052A14800CPG	B053A14800CPG	14,800	.5827	—	—	—	2,6	48	16
B051A14900CPG	B052A14900CPG	B053A14900CPG	14,900	.5866	—	—	—	2,6	48	16
B051A15000CPG	B052A15000CPG	B053A15000CPG	15,000	.5906	—	—	—	2,6	48	16
B051A15083CPG	B052A15083CPG	B053A15083CPG	15,083	.5938	19/32	—	—	2,6	48	16
B051A15100CPG	B052A15100CPG	B053A15100CPG	15,100	.5945	—	—	—	2,6	48	16
B051A15200CPG	B052A15200CPG	B053A15200CPG	15,200	.5984	—	—	—	2,6	48	16
B051A15300CPG	B052A15300CPG	B053A15300CPG	15,300	.6024	—	—	—	2,6	48	16
B051A15400CPG	B052A15400CPG	B053A15400CPG	15,400	.6063	—	—	—	2,7	48	16
B051A15479CPG	B052A15479CPG	B053A15479CPG	15,479	.6094	39/64	—	—	2,7	48	16
B051A15500CPG	B052A15500CPG	B053A15500CPG	15,500	.6102	—	—	—	2,7	48	16
B051A15600CPG	B052A15600CPG	B053A15600CPG	15,600	.6142	—	—	—	2,7	48	16
B051A15700CPG	B052A15700CPG	B053A15700CPG	15,700	.6181	—	—	—	2,7	48	16
B051A15800CPG	B052A15800CPG	B053A15800CPG	15,800	.6220	—	—	—	2,7	48	16
B051A15875CPG	B052A15875CPG	B053A15875CPG	15,875	.6250	5/8	—	—	2,7	48	16
B051A15900CPG	B052A15900CPG	B053A15900CPG	15,900	.6260	—	—	—	2,8	48	16
B051A16000CPG	B052A16000CPG	B053A16000CPG	16,000	.6299	—	—	—	2,8	48	16
B051A16100CPG	B052A16100CPG	B053A16100CPG	16,100	.6339	—	—	—	2,8	48	18
B051A16200CPG	B052A16200CPG	B053A16200CPG	16,200	.6378	—	—	—	2,8	48	18
B051A16271CPG	B052A16271CPG	B053A16271CPG	16,271	.6406	41/64	—	—	2,8	48	18
B051A16300CPG	B052A16300CPG	B053A16300CPG	16,300	.6417	—	—	—	2,8	48	18
B051A16400CPG	B052A16400CPG	B053A16400CPG	16,400	.6457	—	—	—	2,8	48	18
B051A16500CPG	B052A16500CPG	B053A16500CPG	16,500	.6496	—	—	—	2,9	48	18
B051A16600CPG	B052A16600CPG	B053A16600CPG	16,600	.6535	—	—	—	2,9	48	18
B051A16670CPG	B052A16670CPG	B053A16670CPG	16,670	.6563	21/32	—	—	2,9	48	18
B051A16700CPG	B052A16700CPG	B053A16700CPG	16,700	.6575	—	—	—	2,9	48	18
B051A16800CPG	B052A16800CPG	B053A16800CPG	16,800	.6614	—	—	—	2,9	48	18
B051A16900CPG	B052A16900CPG	B053A16900CPG	16,900	.6654	—	—	—	2,9	48	18
B051A17000CPG	B052A17000CPG	B053A17000CPG	17,000	.6693	—	—	—	2,9	48	18
B051A17100CPG	B052A17100CPG	B053A17100CPG	17,100	.6732	—	—	—	3,0	48	18
B051A17200CPG	B052A17200CPG	B053A17200CPG	17,200	.6772	—	—	—	3,0	48	18
B051A17300CPG	B052A17300CPG	B053A17300CPG	17,300	.6811	—	—	—	3,0	48	18
B051A17400CPG	B052A17400CPG	B053A17400CPG	17,400	.6850	—	—	—	3,0	48	18
B051A17463CPG	B052A17463CPG	B053A17463CPG	17,463	.6875	11/16	—	—	3,0	48	18
B051A17500CPG	B052A17500CPG	B053A17500CPG	17,500	.6890	—	—	—	3,0	48	18
B051A17600CPG	B052A17600CPG	B053A17600CPG	17,600	.6929	—	—	—	3,1	48	18
B051A17700CPG	B052A17700CPG	B053A17700CPG	17,700	.6969	—	—	—	3,1	48	18
B051A17800CPG	B052A17800CPG	B053A17800CPG	17,800	.7008	—	—	—	3,1	48	18
B051A17859CPG	B052A17859CPG	B053A17859CPG	17,859	.7031	45/64	—	—	3,1	48	18
B051A17900CPG	B052A17900CPG	B053A17900CPG	17,900	.7047	—	—	—	3,1	48	18
B051A18000CPG	B052A18000CPG	B053A18000CPG	18,000	.7087	—	—	—	3,1	48	18
B051A18100CPG	B052A18100CPG	B053A18100CPG	18,100	.7126	—	—	—	3,1	50	20
B051A18200CPG	B052A18200CPG	B053A18200CPG	18,200	.7165	—	—	—	3,2	50	20
B051A18258CPG	B052A18258CPG	B053A18258CPG	18,258	.7188	23/32	—	—	3,2	50	20
B051A18300CPG	B052A18300CPG	B053A18300CPG	18,300	.7205	—	—	—	3,2	50	20

(continued)

(B051A/B052A/B053A • ~3 x D/~5 x D/~8 x D — continued)

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GOdrill™ • B04_CPG Series • Grade KC7325™ • Flood Coolant • Drill Diameters 1–20mm (.0394–.7874")

Material Group															
		Cutting Speed — vc			Metric										
		Range — m/min			Recommended Feed Rate (f) by Diameter										
		min	Starting Value	max		1,0	2,0	3,0	4,0	6,0	8,0	10,0	12,0	16,0	20,0
P	0	70	80	115	mm/r	0,03–0,08	0,04–0,09	0,05–0,11	0,08–0,14	0,09–0,19	0,11–0,22	0,13–0,26	0,15–0,30	0,19–0,36	0,24–0,46
	1	60	70	100	mm/r	0,04–0,09	0,05–0,11	0,06–0,13	0,09–0,16	0,11–0,22	0,13–0,26	0,15–0,31	0,18–0,35	0,22–0,42	0,28–0,54
	2	80	90	100	mm/r	0,04–0,09	0,05–0,11	0,06–0,13	0,08–0,16	0,12–0,22	0,14–0,26	0,17–0,31	0,20–0,35	0,24–0,42	0,31–0,53
	3	50	70	90	mm/r	0,05–0,11	0,06–0,13	0,07–0,15	0,09–0,17	0,13–0,23	0,15–0,28	0,19–0,33	0,22–0,38	0,26–0,47	0,34–0,59
	4	50	70	100	mm/r	0,04–0,12	0,05–0,13	0,06–0,15	0,08–0,17	0,12–0,23	0,14–0,28	0,17–0,33	0,19–0,38	0,23–0,47	0,29–0,59
	5	30	40	60	mm/r	0,03–0,05	0,04–0,06	0,05–0,07	0,06–0,10	0,08–0,14	0,10–0,18	0,12–0,22	0,14–0,24	0,18–0,32	0,23–0,41
M	6	30	40	60	mm/r	0,03–0,05	0,04–0,06	0,05–0,07	0,06–0,10	0,08–0,14	0,10–0,18	0,12–0,22	0,14–0,24	0,18–0,32	0,23–0,41
	1	20	30	40	mm/r	0,02–0,05	0,03–0,06	0,04–0,07	0,05–0,09	0,08–0,11	0,09–0,12	0,10–0,14	0,12–0,16	0,14–0,18	0,16–0,20
	2	30	40	50	mm/r	0,02–0,06	0,03–0,07	0,04–0,08	0,06–0,10	0,08–0,12	0,09–0,14	0,10–0,16	0,12–0,18	0,14–0,20	0,16–0,22
K	3	20	30	40	mm/r	0,02–0,05	0,03–0,06	0,04–0,07	0,06–0,09	0,08–0,11	0,09–0,12	0,10–0,14	0,12–0,16	0,14–0,18	0,16–0,20
	1	80	130	170	mm/r	0,09–0,18	0,10–0,20	0,11–0,22	0,12–0,24	0,16–0,31	0,20–0,38	0,23–0,44	0,25–0,49	0,31–0,60	0,38–0,74
	2	90	110	120	mm/r	0,06–0,13	0,08–0,15	0,10–0,17	0,12–0,19	0,16–0,25	0,20–0,31	0,23–0,36	0,25–0,40	0,31–0,48	0,38–0,60
N	3	80	110	130	mm/r	0,05–0,11	0,06–0,13	0,07–0,15	0,09–0,19	0,12–0,25	0,14–0,30	0,17–0,35	0,19–0,40	0,25–0,48	0,30–0,60
	1	90	230	270	mm/r	0,05–0,12	0,06–0,13	0,08–0,14	0,10–0,16	0,12–0,20	0,16–0,24	0,20–0,28	0,24–0,32	0,28–0,40	0,32–0,48
	2	90	220	270	mm/r	0,04–0,08	0,06–0,12	0,08–0,16	0,10–0,20	0,12–0,24	0,16–0,28	0,20–0,32	0,24–0,36	0,28–0,44	0,32–0,52
	3	90	180	225	mm/r	0,10–0,13	0,11–0,14	0,12–0,14	0,13–0,16	0,14–0,20	0,16–0,24	0,20–0,28	0,24–0,32	0,28–0,40	0,32–0,44
S	4	90	130	270	mm/r	0,04–0,08	0,06–0,12	0,08–0,16	0,10–0,20	0,12–0,24	0,16–0,28	0,20–0,32	0,24–0,36	0,28–0,40	0,32–0,48
	1	20	25	30	mm/r	0,01–0,04	0,02–0,05	0,03–0,06	0,04–0,08	0,06–0,10	0,08–0,12	0,09–0,13	0,10–0,14	0,12–0,16	0,14–0,18
	2	10	20	30	mm/r	0,01–0,03	0,02–0,03	0,02–0,04	0,03–0,06	0,05–0,08	0,07–0,10	0,08–0,11	0,09–0,12	0,10–0,14	0,11–0,16
	3	20	25	40	mm/r	0,01–0,03	0,02–0,03	0,02–0,04	0,02–0,05	0,04–0,07	0,06–0,09	0,07–0,10	0,08–0,11	0,09–0,13	0,10–0,15
H	4	20	25	50	mm/r	0,01–0,03	0,02–0,03	0,02–0,04	0,03–0,06	0,05–0,08	0,07–0,10	0,08–0,11	0,09–0,12	0,10–0,14	0,11–0,16
	1	10	15	30	mm/r	0,01–0,03	0,02–0,03	0,02–0,04	0,03–0,06	0,05–0,08	0,07–0,10	0,08–0,11	0,09–0,12	0,10–0,14	0,11–0,16
	2	10	10	30	mm/r	0,01–0,03	0,02–0,03	0,02–0,04	0,02–0,05	0,04–0,07	0,06–0,09	0,07–0,10	0,08–0,11	0,09–0,13	0,10–0,15
Material Group		Cutting Speed — vc			Inch										
		Range — SFM			Recommended Feed Rate (f) by Diameter										
		min	Starting Value	max		3/64 .047	5/64 .078	1/8 .125	3/16 .188	1/4 .250	5/16 .313	3/8 .375	1/2 .500	5/8 .625	3/4 .750
P	0	200	230	330	IPR	.001–.003	.002–.004	.002–.004	.003–.005	.004–.007	.004–.009	.005–.010	.006–.012	.007–.014	.009–.018
	1	200	230	330	IPR	.002–.004	.002–.004	.002–.005	.004–.006	.004–.009	.005–.010	.006–.012	.007–.014	.009–.017	.011–.021
	2	260	300	330	IPR	.002–.004	.002–.004	.002–.005	.003–.006	.005–.009	.006–.010	.007–.012	.008–.014	.009–.017	.012–.021
	3	160	230	300	IPR	.002–.004	.002–.005	.003–.006	.004–.007	.005–.009	.006–.011	.008–.013	.009–.015	.010–.019	.013–.023
	4	160	230	330	IPR	.002–.005	.002–.005	.002–.006	.003–.007	.005–.009	.006–.011	.007–.013	.008–.015	.009–.019	.011–.023
	5	100	130	200	IPR	.001–.002	.002–.002	.002–.003	.002–.004	.003–.006	.004–.007	.005–.009	.006–.009	.007–.013	.009–.016
M	6	100	130	200	IPR	.001–.002	.002–.002	.002–.003	.002–.004	.003–.006	.004–.007	.005–.009	.006–.009	.007–.013	.009–.016
	1	70	100	130	IPR	.001–.002	.001–.002	.002–.003	.002–.004	.003–.004	.004–.005	.004–.006	.005–.006	.006–.007	.006–.008
	2	100	130	160	IPR	.001–.002	.001–.003	.002–.003	.002–.004	.003–.005	.004–.006	.004–.006	.005–.007	.006–.008	.006–.009
K	3	70	100	130	IPR	.001–.002	.001–.002	.002–.003	.002–.004	.003–.004	.004–.005	.004–.006	.005–.006	.006–.007	.006–.008
	1	260	430	560	IPR	.004–.007	.004–.008	.004–.009	.005–.009	.006–.012	.008–.015	.009–.017	.010–.019	.012–.024	.015–.029
	2	300	360	390	IPR	.002–.005	.003–.006	.004–.007	.005–.008	.006–.010	.008–.012	.009–.014	.010–.016	.012–.019	.015–.024
N	3	260	360	430	IPR	.002–.004	.002–.005	.003–.006	.004–.008	.005–.010	.006–.012	.007–.014	.008–.016	.010–.019	.012–.024
	1	300	750	890	IPR	.002–.005	.002–.005	.003–.006	.004–.006	.005–.008	.006–.009	.008–.011	.009–.013	.011–.016	.013–.019
	2	300	720	890	IPR	.002–.003	.002–.005	.003–.006	.004–.008	.005–.009	.006–.011	.008–.013	.009–.014	.011–.017	.013–.021
	3	300	590	740	IPR	.004–.005	.004–.006	.005–.006	.005–.006	.006–.008	.006–.009	.008–.011	.009–.013	.011–.016	.013–.017
S	4	300	430	890	IPR	.002–.003	.002–.005	.003–.006	.004–.008	.005–.009	.006–.011	.008–.013	.009–.014	.011–.016	.013–.019
	1	70	80	100	IPR	.000–.002	.001–.002	.001–.002	.002–.003	.002–.004	.003–.005	.004–.005	.004–.006	.005–.006	.006–.007
	2	30	70	100	IPR	.000–.001	.001–.001	.001–.002	.001–.002	.002–.003	.003–.004	.003–.004	.004–.005	.004–.006	.004–.006
	3	70	80	130	IPR	.000–.001	.001–.001	.001–.002	.001–.002	.002–.003	.002–.004	.003–.004	.003–.004	.004–.005	.004–.006
H	4	70	80	160	IPR	.000–.001	.001–.001	.001–.002	.001–.002	.002–.003	.003–.004	.003–.004	.004–.005	.004–.006	.004–.006
	1	30	50	100	IPR	.000–.001	.001–.001	.001–.002	.001–.002	.002–.003	.003–.004	.003–.004	.004–.005	.004–.006	.004–.006
H	2	30	30	100	IPR	.000–.001	.001–.001	.001–.002	.001–.002	.002–.003	.002–.004	.003–.004	.003–.004	.004–.005	.004–.006

■ G0drill™ • B05_CPG Series • Grade KC7325™ • Through Coolant • Drill Diameters 1–20mm (.0394–.7874")

Material Group															
		Cutting Speed — vc			Metric										
		Range — m/min			Recommended Feed Rate (f) by Diameter										
		min	Starting Value	max		1,0	2,0	3,0	4,0	6,0	8,0	10,0	12,0	16,0	20,0
P	0	70	80	115	mm/r	0,03–0,08	0,04–0,09	0,05–0,11	0,08–0,14	0,09–0,19	0,11–0,22	0,13–0,26	0,15–0,30	0,19–0,36	0,24–0,46
	1	70	100	140	mm/r	0,04–0,09	0,05–0,12	0,07–0,14	0,08–0,16	0,11–0,22	0,13–0,26	0,15–0,31	0,18–0,35	0,22–0,42	0,28–0,54
	2	90	120	140	mm/r	0,04–0,09	0,05–0,12	0,07–0,14	0,08–0,16	0,12–0,22	0,14–0,26	0,17–0,31	0,20–0,35	0,24–0,42	0,31–0,53
	3	60	80	100	mm/r	0,05–0,10	0,06–0,13	0,08–0,15	0,09–0,17	0,13–0,23	0,15–0,28	0,19–0,33	0,22–0,38	0,26–0,47	0,34–0,59
	4	50	80	100	mm/r	0,05–0,10	0,06–0,13	0,07–0,15	0,08–0,17	0,12–0,23	0,14–0,28	0,17–0,33	0,19–0,38	0,23–0,47	0,29–0,59
	5	40	50	70	mm/r	0,03–0,05	0,04–0,06	0,05–0,07	0,06–0,10	0,08–0,14	0,10–0,18	0,12–0,22	0,14–0,24	0,18–0,32	0,23–0,41
M	6	40	50	70	mm/r	0,03–0,05	0,04–0,06	0,05–0,08	0,06–0,10	0,08–0,14	0,10–0,18	0,13–0,22	0,14–0,24	0,18–0,32	0,23–0,41
	1	20	30	40	mm/r	0,02–0,05	0,03–0,06	0,04–0,07	0,05–0,09	0,08–0,11	0,09–0,12	0,10–0,14	0,12–0,16	0,14–0,18	0,16–0,20
	2	30	40	50	mm/r	0,02–0,06	0,03–0,07	0,04–0,08	0,06–0,10	0,08–0,12	0,09–0,14	0,10–0,16	0,12–0,18	0,14–0,20	0,16–0,22
K	3	20	30	40	mm/r	0,02–0,05	0,03–0,06	0,04–0,07	0,05–0,09	0,08–0,11	0,09–0,12	0,10–0,14	0,12–0,16	0,14–0,18	0,16–0,20
	1	80	120	170	mm/r	0,08–0,16	0,09–0,17	0,11–0,22	0,12–0,24	0,16–0,31	0,20–0,38	0,23–0,44	0,25–0,49	0,31–0,60	0,38–0,74
	2	80	110	140	mm/r	0,10–0,14	0,11–0,15	0,12–0,16	0,13–0,19	0,16–0,25	0,20–0,31	0,23–0,36	0,25–0,40	0,31–0,48	0,38–0,60
N	3	80	100	130	mm/r	0,05–0,13	0,07–0,15	0,08–0,17	0,09–0,19	0,12–0,25	0,14–0,30	0,17–0,35	0,19–0,40	0,24–0,48	0,30–0,60
	1	90	230	315	mm/r	0,05–0,12	0,06–0,13	0,08–0,14	0,10–0,16	0,12–0,20	0,16–0,24	0,20–0,28	0,24–0,32	0,28–0,40	0,32–0,48
	2	90	225	270	mm/r	0,04–0,08	0,06–0,12	0,08–0,16	0,10–0,20	0,12–0,24	0,16–0,28	0,20–0,32	0,24–0,36	0,28–0,44	0,32–0,52
	3	90	180	270	mm/r	0,10–0,13	0,11–0,14	0,12–0,14	0,13–0,16	0,14–0,20	0,16–0,24	0,20–0,28	0,24–0,32	0,28–0,40	0,32–0,44
S	4	90	135	180	mm/r	0,04–0,08	0,06–0,12	0,08–0,16	0,10–0,20	0,12–0,24	0,16–0,28	0,20–0,32	0,24–0,36	0,28–0,40	0,32–0,48
	1	10	25	30	mm/r	0,01–0,04	0,02–0,05	0,03–0,06	0,04–0,08	0,06–0,10	0,08–0,12	0,09–0,13	0,10–0,14	0,12–0,16	0,14–0,18
	2	10	20	25	mm/r	0,01–0,03	0,02–0,03	0,02–0,04	0,03–0,06	0,05–0,08	0,07–0,10	0,08–0,11	0,09–0,12	0,10–0,14	0,11–0,16
	3	10	25	30	mm/r	0,01–0,03	0,02–0,03	0,02–0,04	0,02–0,05	0,04–0,07	0,06–0,09	0,07–0,10	0,08–0,11	0,09–0,13	0,10–0,15
H	4	10	25	40	mm/r	0,01–0,03	0,02–0,03	0,02–0,04	0,03–0,06	0,05–0,08	0,07–0,10	0,08–0,11	0,09–0,12	0,10–0,14	0,11–0,16
	1	10	15	30	mm/r	0,01–0,03	0,02–0,03	0,02–0,04	0,03–0,06	0,05–0,08	0,07–0,10	0,08–0,11	0,09–0,12	0,10–0,14	0,11–0,16
	2	10	10	30	mm/r	0,01–0,03	0,02–0,03	0,02–0,04	0,02–0,05	0,04–0,07	0,06–0,09	0,07–0,10	0,08–0,11	0,09–0,13	0,10–0,15
Material Group		Cutting Speed — vc			Inch										
		Range — SFM			Recommended Feed Rate (f) by Diameter										
		min	Starting Value	max		3/64 .047	5/64 .078	1/8 .125	3/16 .188	1/4 .250	5/16 .313	3/8 .375	1/2 .500	5/8 .625	3/4 .750
P	0	230	260	380	IPR	.001–.003	.002–.004	.002–.004	.003–.005	.004–.007	.004–.009	.005–.010	.006–.012	.007–.014	.009–.018
	1	230	330	460	IPR	.002–.004	.002–.005	.003–.006	.003–.006	.004–.009	.005–.010	.006–.012	.007–.014	.009–.017	.011–.021
	2	300	390	460	IPR	.002–.004	.002–.005	.003–.006	.003–.006	.005–.009	.006–.010	.007–.012	.008–.014	.009–.017	.012–.021
	3	200	260	330	IPR	.002–.004	.002–.005	.003–.006	.004–.007	.005–.009	.006–.011	.008–.013	.009–.015	.010–.019	.013–.023
	4	160	260	330	IPR	.002–.004	.002–.005	.003–.006	.003–.007	.005–.009	.006–.011	.007–.013	.008–.015	.009–.019	.011–.023
	5	130	160	230	IPR	.001–.002	.002–.002	.002–.003	.002–.004	.003–.006	.004–.007	.005–.009	.006–.009	.007–.013	.009–.016
M	6	130	160	230	IPR	.001–.002	.002–.002	.002–.003	.002–.004	.003–.006	.004–.007	.005–.009	.006–.009	.007–.013	.009–.016
	1	70	100	130	IPR	.001–.002	.001–.002	.002–.003	.002–.004	.003–.004	.004–.005	.004–.006	.005–.006	.006–.007	.006–.008
	2	100	130	160	IPR	.001–.002	.001–.003	.002–.003	.002–.004	.003–.005	.004–.006	.004–.006	.005–.007	.006–.008	.006–.009
K	3	70	100	130	IPR	.001–.002	.001–.002	.002–.003	.002–.004	.003–.004	.004–.005	.004–.006	.005–.006	.006–.007	.006–.008
	1	260	390	560	IPR	.003–.006	.004–.007	.004–.009	.005–.009	.006–.012	.008–.015	.009–.017	.010–.019	.012–.024	.015–.029
	2	260	360	460	IPR	.004–.006	.004–.006	.005–.006	.005–.008	.006–.010	.008–.012	.009–.014	.010–.016	.012–.019	.015–.024
N	3	260	330	430	IPR	.002–.005	.003–.006	.003–.007	.004–.008	.005–.010	.006–.012	.007–.014	.008–.016	.009–.019	.012–.024
	1	300	750	1030	IPR	.002–.005	.002–.005	.003–.006	.004–.006	.005–.008	.006–.009	.008–.011	.009–.013	.011–.016	.013–.019
	2	300	740	890	IPR	.002–.003	.002–.005	.003–.006	.004–.008	.005–.009	.006–.011	.008–.013	.009–.014	.011–.017	.013–.021
	3	300	590	890	IPR	.004–.005	.004–.006	.005–.006	.005–.006	.006–.008	.006–.009	.008–.011	.009–.013	.011–.016	.013–.017
S	4	300	440	590	IPR	.002–.003	.002–.005	.003–.006	.004–.008	.005–.009	.006–.011	.008–.013	.009–.014	.011–.016	.013–.019
	1	30	80	100	IPR	.000–.002	.001–.002	.001–.002	.002–.003	.002–.004	.003–.005	.004–.005	.004–.006	.005–.006	.006–.007
	2	30	70	80	IPR	.000–.001	.001–.001	.001–.002	.001–.002	.002–.003	.003–.004	.003–.004	.004–.005	.004–.006	.004–.006
	3	30	80	100	IPR	.000–.001	.001–.001	.001–.002	.001–.002	.002–.003	.002–.004	.003–.004	.003–.004	.004–.005	.004–.006
H	4	30	80	130	IPR	.000–.001	.001–.001	.001–.002	.001–.002	.002–.003	.003–.004	.003–.004	.004–.005	.004–.006	.004–.006
	1	30	50	100	IPR	.000–.001	.001–.001	.001–.002	.001–.002	.002–.003	.003–.004	.003–.004	.004–.005	.004–.006	.004–.006
	2	30	30	100	IPR	.000–.001	.001–.001	.001–.002	.001–.002	.002–.003	.002–.004	.003–.004	.003–.004	.004–.005	.004–.006