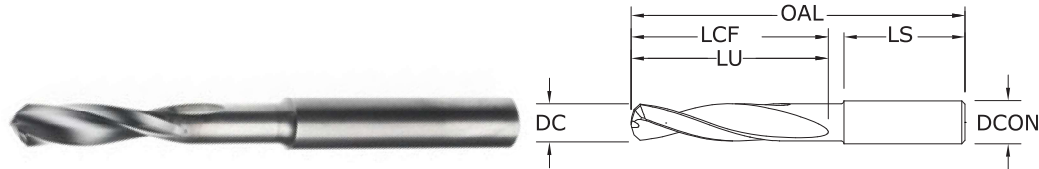


Series 120



3xD



120

FRACTIONAL & METRIC SERIES

- Double margin design stabilizes the drill for greater hole accuracy and improved surface finish
- Notched point reduces thrust force over conventional designs
- 8 facet point reduces fiber breakout and delamination on exit
- 90 degree secondary chamfer angle improves hole entrance and exit quality

CUTTING DIAMETER DC	DECIMAL EQUIV.	METRIC EQUIV.	inch & mm		OVERALL LENGTH OAL	FLUTE LENGTH LCF/ LU	SHANK LENGTH LS	EDP NO. Di-NAMITE® (Diamond)
			SHANK DIAMETER DCON					
#40	0.0980	2.49	1/8		2	9/16	1-1/4	50000
2,7 mm	0.1063		6,0		63,0	20,0	32,0	50001
3,0 mm	0.1181		6,0		63,0	20,0	36,0	50002
1/8	0.1250	3.18	1/4		2-1/2	3/4	1-7/16	50003
3,2 mm	0.1260		6,0		63,0	20,0	36,0	50004
#30	0.1285	3.26	1/4		2-1/2	3/4	1-7/16	50005
#28	0.1405	3.57	1/4		2-1/2	3/4	1-7/16	50006
#22	0.1570	3.99	1/4		2-5/8	7/8	1-7/16	50007
#21	0.1590	4.04	1/4		2-5/8	7/8	1-7/16	50008
4,1 mm	0.1614		6,0		66,0	24,0	36,0	50009
#19	0.1660	4.22	1/4		2-5/8	7/8	1-7/16	50010
11/64	0.1719	4.37	1/4		2-5/8	7/8	1-7/16	50011
3/16	0.1875	4.76	1/4		2-5/8	1	1-7/16	50012
#11	0.1910	4.85	1/4		2-5/8	1	1-7/16	50013
#8	0.1990	5.05	1/4		2-5/8	1	1-7/16	50014
#7	0.2010	5.11	1/4		2-5/8	1	1-7/16	50015
#2	0.2210	5.61	1/4		2-5/8	1	1-7/16	50016
6,0 mm	0.2362		6,0		66,0	28,0	36,0	50017
1/4	0.2500	6.35	1/4		3-1/8	1-5/16	1-7/16	50018
.2510	0.2510	6.38	5/16		3-1/8	1-5/16	1-7/16	50019
F	0.2570	6.53	5/16		3-1/8	1-5/16	1-7/16	50020
I	0.2720	6.91	5/16		3-1/8	1-5/16	1-7/16	50021
J	0.2770	7.04	5/16		3-1/8	1-5/16	1-7/16	50022
K	0.2810	7.14	5/16		3-1/8	1-9/16	1-7/16	50023
5/16	0.3125	7.94	5/16		3-1/8	1-9/16	1-7/16	50024
8,0 mm	0.3150		8,0		79,0	41,0	36,0	50025
3/8	0.3750	9.53	3/8		3-1/2	1-27/32	1-9/16	50026
V	0.3770	9.58	1/2		3-1/2	1-27/32	1-9/16	50027
10,0 mm	0.3937		10,0		89,0	47,0	40,0	50028
7/16	0.4375	11.11	1/2		4-1/16	2-3/16	1-9/16	50029
12,0 mm	0.4724		12,0		102,0	55,0	45,0	50030
1/2	0.5000	12.70	1/2		4-1/4	2-5/16	1-3/4	50031

TOLERANCES (inch)

DC = +0.0000/-0.0005

DCON = h₆

TOLERANCES (mm)

DC = +0,000/-0,013

DCON = h₆

PLASTICS/COMPOSITES

For patent
information visit
www.ksptpatents.com

Series 120

Series 120 Fractional			Vc (sfm)		DC • in					
				1/8	3/16	1/4	5/16	3/8	7/16	1/2
N	CFRP, AFRP (Carbon Fiber, Aramid Fiber)	320	RPM	9779	6519	4890	3912	3260	2794	2445
		(256-384)	Fr	0.0006	0.0009	0.0012	0.0015	0.0018	0.0021	0.0024
			Feed (ipm)	5.9	5.9	5.9	5.9	5.9	5.9	5.9
	GFRP (Fiberglass)	240	RPM	7334	4890	3667	2934	2445	2096	1834
		(192-288)	Fr	0.0006	0.0009	0.0012	0.0015	0.0018	0.0021	0.0024
			Feed (ipm)	4.4	4.4	4.4	4.4	4.4	4.4	4.4
	CARBON, GRAPHITE	400	RPM	12224	8149	6112	4890	4075	3493	3056
		(320-480)	Fr	0.0008	0.0012	0.0016	0.0020	0.0024	0.0028	0.0032
			Feed (ipm)	9.8	9.8	9.8	9.8	9.8	9.8	9.8

rpm = Vc x 3.82 / DC

ipm = Fr x rpm

adjust speed and / or feed based on resin type and / or fiber structure

refer to the SGS Tool Wizard® for complete technical information (www.kyocera-sgstool.com)

Series 120 Metric			DC • mm							
Vc (m/min)			2.5	3	4	6	8	10	12	
N	CFRP, AFRP (Carbon Fiber, Aramid Fiber)	100	RPM	12722	10602	7951	5301	3976	3181	2650
		(80-120)	Fr	0.012	0.014	0.019	0.028	0.038	0.047	0.057
			Feed (mm/min)	150	150	150	150	150	150	150
	GFRP (Fiberglass)	75	RPM	9542	7951	5963	3976	2982	2385	1988
		(65-90)	Fr	0.012	0.014	0.019	0.029	0.039	0.048	0.058
			Feed (mm/min)	115	115	115	115	115	115	115
	CARBON, GRAPHITE	120	RPM	15266	12722	9542	6361	4771	3817	3181
		(96-144)	Fr	0.015	0.018	0.025	0.037	0.049	0.062	0.074
			Feed (mm/min)	235	235	235	235	235	235	235

rpm = (Vc x 1000) / (DC x 3.14)

mm/min = Fr x rpm

adjust speed and / or feed based on resin type and / or fiber structure

refer to the SGS Tool Wizard® for complete technical information (www.kyocera-sgstool.com)