



Heritage Industrial Products Corp.
3W4278 Jean Street
Appleton, WI 54913

800-236-2119 (Voice)
920-733-7461 (Fax)

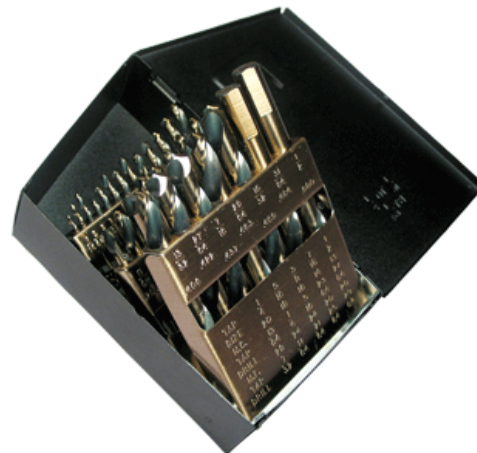
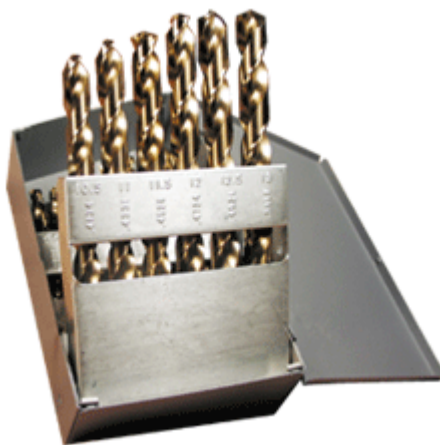
heritageindustrial@sbcglobal.net
www.heritageindustrial.net

HOLESHOT - PREMIUM TWIST DRILL BITS



HoleShot drill bits are designed to outperform any other bit! Our ***HoleShot*** drill bits are made with special **Hi-Molybdenum** tool steel. These premium twist drills are precision ground for the ultimate in accuracy and performance. The 135° split point allows for fast penetration and accurate starting without a center punch. ***HoleShot*** drill bits are heat treated at 2185° F and then nitro-carburize finished at 950° F to be measurably harder than high speed steel. The space age nitro-carburized steel withstands substantially higher drilling temperatures while maintaining sharpness. Finally, the body and clearance are gold surface treated for maximum lubricity.

HoleShot drill bits are recommended for use in work hardening grades of stainless steel and other hard metal drilling applications. Whether the work is in stainless steel, cast iron or “junk” steels, these bits will resist wear and give more round, clean holes than other premium bits. Once you have used our fine bits you will never be satisfied with anything else!



Warranty: All Heritage products are guaranteed to be free from defects. Our obligation to the user shall be to replace any items proven to be defective. User assumes responsibility for selecting the appropriate product for use and for complying with safety regulations set by OSHA and ANSI safety code B7.1, and assumes all other risks

HoleShot - Premium Twist Drill Bits

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HOLESHOT - FRACTIONAL SIZES

Mechanics length for extra stiffness. Three flats on shank to eliminate slippage (3/16 thru 1/2).

PART NUMBER	SIZE	DECIMAL EQUIV	OVERALL LENGTH	PRICE EACH	PRICE DISCOUNTS			
					PKG PRICE EACH	PKG QNTY	VOL PRICE EACH	PKG QNTY
400-116-S	1/16	0.0625	1-7/8	\$ 3.14	\$ 2.48	12	\$ 1.98	48
400-564-S	5/64	0.0781	2	3.18	2.51	12	2.01	48
400-332-S	3/32	0.0938	2-1/4	3.18	2.51	12	2.01	48
400-764-S	7/64	0.1094	2-3/8	3.37	2.66	12	2.13	48
400-18-S	1/8	0.1250	2-1/2	3.90	3.08	12	2.46	48
400-964-S	9/64	0.1406	2-5/8	3.94	3.11	12	2.49	48
400-532-S	5/32	0.1562	2-3/4	4.13	3.26	12	2.61	48
400-1164-S	11/64	0.1719	2-7/8	4.23	3.34	12	2.67	48
400-316-S	3/16	0.1875	3	5.61	4.43	12	3.54	48
400-1364-S	13/64	0.2031	3-1/8	6.08	4.80	12	3.84	48
400-732-S	7/32	0.2188	3-1/4	6.27	4.95	12	3.96	48
400-1564-S	15/64	0.2344	3-3/8	6.75	5.33	12	4.26	48
400-14-S	1/4	0.2500	3-1/2	7.74	6.11	12	4.89	48
400-1764-S	17/64	0.2656	3-5/8	9.41	7.43	12	5.94	48
400-932-S	9/32	0.2812	3-3/4	9.64	7.61	12	6.09	48
400-1964-S	19/64	0.2969	3-7/8	10.83	8.55	6	6.84	24
400-516-S	5/16	0.3125	4	11.50	9.08	6	7.26	24
400-2164-S	21/64	0.3281	4-1/16	12.87	10.16	6	8.13	24
400-1132-S	11/32	0.3438	4-1/8	14.58	11.51	6	9.21	24
400-2364-S	23/64	0.3594	4-3/16	16.10	12.71	6	10.17	24
400-38-S	3/8	0.3750	4-1/4	16.63	13.13	6	10.50	24
400-2564-S	25/64	0.3906	4-5/16	19.00	15.00	6	12.00	24
400-1332-S	13/32	0.4062	4-3/8	19.67	15.53	6	12.42	24
400-2764-S	27/64	0.4219	4-7/16	21.80	17.21	6	13.77	24
400-716-S	7/16	0.4375	4-1/2	22.56	17.81	6	14.25	24
400-2964-S	29/64	0.4531	4-5/8	25.37	20.03	6	16.02	24
400-1532-S	15/32	0.4688	4-3/4	26.89	21.23	6	16.98	24
400-3164-S	31/64	0.4844	4-3/8	28.60	22.58	6	18.06	24
400-12-S	1/2	0.5000	5	29.02	22.91	6	18.33	24

ASSORTMENTS

400-8A-I	8 Piece, 1/16 thru 1/2 by 16ths	\$ 89.12
400-15AS-I	15 Piece, 1/16 thru 1/2 by 32nds	169.50
400-29A-S	29 Piece, 1/16 thru 1/2 by 64ths	308.14

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HoleShot - Fractional Sizes, Mechanics Length

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HOLESHOT - FRACTIONAL SIZES

PART NUMBER	SIZE	DECIMAL EQUIV	OVERALL LENGTH	PRICE EACH	PRICE DISCOUNTS			
					PKG PRICE EACH	PKG QNTY	VOL PRICE EACH	PKG QNTY
410-116-S	1/16	.0625	1-7/8	\$ 3.14	\$ 2.48	12	\$ 1.98	48
410-564-S	5/64	.0781	2	3.18	2.51	12	2.01	48
410-332-S	3/32	.0938	2-1/4	3.18	2.51	12	2.01	48
410-764-S	7/64	.1094	2-5/8	3.37	2.66	12	2.13	48
410-18-S	1/8	.1250	2-3/4	3.90	3.08	12	2.46	48
410-964-S	9/64	.1406	2-7/8	3.94	3.11	12	2.49	48
410-532-S	5/32	.1562	3-1/8	4.13	3.26	12	2.61	48
410-1164-S	11/64	.1719	3-1/4	4.23	3.34	12	2.67	48
410-316-S	3/16	.1875	3-1/2	5.13	4.05	12	3.24	48
410-1364-S	13/64	.2031	3-5/8	5.70	4.50	12	3.60	48
410-732-S	7/32	.2188	3-3/4	6.03	4.76	12	3.81	48
410-1564-S	15/64	.2344	3-7/8	6.46	5.10	12	4.08	48
410-14-S	1/4	.2500	4	6.79	5.36	12	4.29	48
410-1764-S	17/64	.2656	4-1/8	8.22	6.49	12	5.19	48
410-932-S	9/32	.2812	4-1/4	8.88	7.01	12	5.61	48
410-1964-S	19/64	.2969	4-3/8	10.07	7.95	6	6.36	24
410-516-S	5/16	.3125	4-1/2	10.74	8.48	6	6.78	24
410-2164-S	21/64	.3281	4-5/8	11.50	9.08	6	7.26	24
410-1132-S	11/32	.3438	4-3/4	13.21	10.43	6	8.34	24
410-2364-S	23/64	.3594	4-7/8	14.39	11.36	6	9.09	24
410-38-S	3/8	.3750	5	15.25	12.04	6	9.63	24
410-2564-S	25/64	.3906	5-1/8	17.01	13.43	6	10.74	24
410-1332-S	13/32	.4062	5-1/4	17.58	13.88	6	11.10	24
410-2764-S	27/64	.4219	5-3/8	18.48	14.59	6	11.67	24
410-716-S	7/16	.4375	5-1/2	20.52	16.20	6	12.96	24
410-2964-S	29/64	.4531	5-5/8	23.80	18.79	6	15.03	24
410-1532-S	15/32	.4688	5-3/4	24.18	19.09	6	15.27	24
410-3164-S	31/64	.4844	5-7/8	25.41	20.06	6	16.05	24
410-12-S	1/2	.5000	6	25.89	20.44	6	16.35	24
410-3364-S	33/64	.5156	6-5/8	47.60	37.58	3	30.06	6
410-1732-S	17/32	.5313	6-5/8	49.83	39.34	3	31.47	6
410-3564-S	35/64	.5469	6-5/8	53.87	42.53	3	34.02	6
410-916-S	9/16	.5625	6-5/8	56.43	44.55	3	35.64	6
410-3764-S	37/64	.5781	6-5/8	56.67	44.74	3	35.79	6
410-1932-S	19/32	.5938	7-1/8	58.14	45.90	3	36.72	6
410-3964-S	39/64	.6094	7-1/8	63.84	50.40	3	40.32	6
410-58-S	5/8	.6250	7-1/8	62.37	49.24	3	39.39	6
410-4164-S	41/64	.6406	7-1/8	68.26	53.89	3	43.11	6
410-2132-S	21/32	.6563	7-1/8	65.46	51.68	3	41.34	6
410-4364-S	43/64	.6719	7-1/8	71.44	56.40	3	45.12	6
410-1116-S	11/16	.6875	7-3/8	67.97	53.66	3	42.93	6
410-4564-S	45/64	.7031	7-3/8	75.67	59.74	3	47.79	6
410-2332-S	23/32	.7188	7-3/8	72.01	56.85	3	45.48	6
410-4764-S	47/64	.7344	7-3/8	78.85	62.25	3	49.80	6
410-34-S	3/4	.7500	7-3/8	75.05	59.25	3	47.40	6

ASSORTMENTS

410-8A-I	8 Piece, 1/16 thru 1/2 by 16ths	\$ 81.15
410-15AS-I	15 Piece, 1/16 thru 1/2 by 32nds	151.09
410-29A-S	29 Piece, 1/16 thru 1/2 by 64ths	275.44

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HoleShot - Fractional Sizes, Jobbers Length

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HOLESHOT - NUMBER SIZES

PART NUMBER	SIZE (DEC EQUIV)	OVERALL LENGTH	PRICE EACH	PART NUMBER	SIZE (DEC EQUIV)	OVERALL LENGTH	PRICE EACH
412-1-S	1 (.2280)	3-7/8"	\$ 7.13	412-31-S	31 (.1200)	2-3/4"	\$ 3.42
412-2-S	2 (.2210)	3-7/8"	7.13	412-32-S	32 (.1160)	2-3/4"	3.42
412-3-S	3 (.2130)	3-3/4"	6.60	412-33-S	33 (.1130)	2-5/8"	3.42
412-4-S	4 (.2090)	3-3/4"	6.60	412-34-S	34 (.1110)	2-5/8"	3.42
412-5-S	5 (.2055)	3-3/4"	6.60	412-35-S	35 (.1100)	2-5/8"	3.42
412-6-S	6 (.2040)	3-3/4"	6.60	412-36-S	36 (.1065)	2-1/2"	3.42
412-7-S	7 (.2010)	3-5/8"	5.80	412-37-S	37 (.1040)	2-1/2"	3.42
412-8-S	8 (.1990)	3-5/8"	5.80	412-38-S	38 (.1015)	2-1/2"	3.42
412-9-S	9 (.1960)	3-5/8"	5.80	412-39-S	39 (.0995)	2-3/8"	3.42
412-10-S	10 (.1935)	3-5/8"	5.70	412-40-S	40 (.0980)	2-3/8"	3.42
412-11-S	11 (.1910)	3-1/2"	5.23	412-41-S	41 (.0960)	2-3/8"	3.42
412-12-S	12 (.1890)	3-1/2"	5.23	412-42-S	42 (.0935)	2-1/4"	3.42
412-13-S	13 (.1850)	3-1/2"	5.13	412-43-S	43 (.0890)	2-1/4"	3.42
412-14-S	14 (.1820)	3-3/8"	5.13	412-44-S	44 (.0860)	2-1/8"	3.42
412-15-S	15 (.1800)	3-3/8"	5.13	412-45-S	45 (.0820)	2-1/8"	3.42
412-16-S	16 (.1770)	3-3/8"	5.13	412-46-S	46 (.0810)	2-1/8"	3.42
412-17-S	17 (.1730)	3-3/8"	5.13	412-47-S	47 (.0785)	2"	3.42
412-18-S	18 (.1695)	3-1/4"	4.42	412-48-S	48 (.0760)	2"	3.42
412-19-S	19 (.1660)	3-1/4"	4.42	412-49-S	49 (.0730)	2"	3.42
412-20-S	20 (.1610)	3-1/4"	4.42	412-50-S	50 (.0700)	2"	3.42
412-21-S	21 (.1590)	3-1/4"	4.09	412-51-S	51 (.0670)	2"	3.42
412-22-S	22 (.1570)	3-1/8"	4.09	412-52-S	52 (.0635)	1-7/8"	3.42
412-23-S	23 (.1540)	3-1/8"	3.99	412-53-S	53 (.0595)	1-7/8"	3.42
412-24-S	24 (.1520)	3-1/8"	3.99	412-54-S	54 (.0550)	1-7/8"	3.42
412-25-S	25 (.1495)	3"	3.80	412-55-S	55 (.0520)	1-7/8"	3.42
412-26-S	26 (.1470)	3"	3.80	412-56-S	56 (.0465)	1-3/4"	3.42
412-27-S	27 (.1440)	3"	3.80	412-57-S	57 (.0430)	1-3/4"	3.42
412-28-S	28 (.1405)	2-7/8"	3.42	412-58-S	58 (.0420)	1-5/8"	3.42
412-29-S	29 (.1360)	2-7/8"	3.42	412-59-S	59 (.0410)	1-5/8"	3.42
412-30-S	30 (.1285)	2-3/4"	3.42	412-60-S	60 (.0400)	1-5/8"	3.42

ASSORTMENT

412-A1X60-I 60 piece, #1 thru #60/metal case \$223.88

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HoleShot - Number Sizes, Jobbers Length

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HOLESHOT - LETTER SIZES

PART NUMBER	SIZE (DEC EQUIV)	OVERALL LENGTH	FLUTE LENGTH	PRICE EACH
404-A-S	A (.234)	3-7/8"	2-5/8"	\$ 7.70
404-B-S	B (.238)	4"	2-3/4"	7.70
404-C-S	C (.242)	4"	2-3/4"	7.70
404-D-S	D (.246)	4"	2-3/4"	7.41
404-E-S	E (.250)	4"	2-3/4"	6.79
404-F-S	F (.257)	4-1/8"	2-7/8"	8.31
404-G-S	G (.261)	4-1/8"	2-7/8"	8.93
404-H-S	H (.266)	4-1/8"	2-7/8"	9.17
404-I-S	I (.272)	4-1/8"	2-7/8"	9.17
404-J-S	J (.277)	4-1/8"	2-7/8"	9.64
404-K-S	K (.281)	4-1/4"	2-15/16"	10.74
404-L-S	L (.290)	4-1/4"	2-15/16"	10.45
404-M-S	M (.295)	4-3/8"	3-1/16"	11.40
404-N-S	N (.302)	4-3/8"	3-1/16"	11.40
404-O-S	O (.306)	4-1/2"	3-3/16"	11.40
404-P-S	P (.323)	4-5/8"	3-5/16"	12.83
404-Q-S	Q (.332)	4-3/4"	3-7/16"	13.21
404-R-S	R (.339)	4-3/4"	3-7/16"	13.73
404-S-S	S (.348)	4-7/8"	3-1/2"	14.82
404-T-S	T (.358)	4-7/8"	3-1/2"	16.67
404-U-S	U (.368)	5"	3-5/8"	16.39
404-V-S	V (.377)	5"	3-5/8"	17.05
404-W-S	W (.386)	5-1/8"	3-3/4"	19.43
404-X-S	X (.397)	5-1/8"	3-3/4"	21.28
404-Y-S	Y (.404)	5-1/4"	3-7/8"	24.94
404-Z-S	Z (.413)	5-1/4"	3-7/8"	25.41

ASSORTMENTS

404-AAXZ-I 26 piece, "A" thru "Z" in metal case \$291.04

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HoleShot - Letter Sizes, Jobbers Length

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HOLESHOT - METRIC SIZES

PART NUMBER	SIZE (DEC EQUIV)	OVERALL LENGTH	FLUTE LENGTH	PRICE EACH
403-M90-S	0.90 (.0345)	38MM	16MM	\$ 3.47
403-M100-S	1.00 (.0394)	41MM	17MM	3.28
403-M110-S	1.10 (.0433)	44MM	19MM	3.28
403-M120-S	1.20 (.0472)	48MM	22MM	3.28
403-M130-S	1.30 (.0512)	48MM	22MM	3.28
403-M140-S	1.40 (.0551)	48MM	22MM	3.28
403-M150-S	1.50 (.0591)	48MM	22MM	3.28
403-M160-S	1.60 (.0630)	48MM	22MM	3.28
403-M170-S	1.70 (.0669)	51MM	25MM	3.31
403-M180-S	1.80 (.0709)	51MM	25MM	3.28
403-M190-S	1.90 (.0748)	51MM	25MM	3.28
403-M200-S	2.00 (.0787)	51MM	25MM	3.04
403-M205-S	2.05 (.0807)	54MM	29MM	3.11
403-M250-S	2.50 (.0984)	60MM	35MM	3.19
403-M290-S	2.90 (.1142)	70MM	41MM	3.04
403-M300-S	3.00 (.1181)	70MM	41MM	3.17
403-M330-S	3.30 (.1299)	73MM	45MM	3.46
403-M350-S	3.50 (.1378)	73MM	45MM	3.55
403-M400-S	4.00 (.1575)	83MM	54MM	3.71
403-M420-S	4.20 (.1654)	83MM	54MM	3.98
403-M450-S	4.50 (.1772)	86MM	56MM	4.63
403-M500-S	5.00 (.1969)	92MM	62MM	5.09
403-M550-S	5.50 (.2165)	95MM	64MM	5.56
403-M600-S	6.00 (.2362)	102MM	70MM	6.23
403-M650-S	6.50 (.2559)	105MM	73MM	7.33
403-M670-S	6.70 (.2638)	105MM	73MM	7.45
403-M680-S	6.80 (.2677)	105MM	73MM	7.99
403-M700-S	7.00 (.2756)	105MM	73MM	7.99
403-M750-S	7.50 (.2953)	111MM	78MM	9.31
403-M800-S	8.00 (.3150)	114MM	81MM	10.21
403-M850-S	8.50 (.3346)	121MM	87MM	11.39
403-M900-S	9.00 (.3543)	124MM	89MM	12.98
403-M950-S	9.50 (.3740)	127MM	92MM	13.73
403-M1000-S	10.00 (.3937)	130MM	95MM	15.66
403-M1020-S	10.20 (.4016)	133MM	98MM	16.83
403-M1050-S	10.50 (.4134)	133MM	98MM	18.09
403-M1100-S	11.00 (.4331)	140MM	103MM	19.17
403-M1150-S	11.50 (.4528)	143MM	106MM	20.66
403-M1200-S	12.00 (.4724)	149MM	111MM	21.71
403-M1250-S	12.50 (.4921)	152MM	114MM	23.00
403-M1300-S	13.00 (.5118)	152MM	114MM	27.56

ASSORTMENTS

403-M113X5-I 25 piece, 1mm - 13mm by .5mm, metal case \$233.83

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HoleShot - Metric Sizes, Jobbers Length



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HoleShot - Left Hand, Jobbers Length

HOLESHOT - PREMIUM TWIST DRILLS

FRACTIONAL SIZES, LEFT HAND, JOBBERS LENGTH

PART NUMBER	SIZE	DECIMAL EQUIV	OVERALL LENGTH	PRICE EACH
408-116-S	1/16	.0625	1-7/8"	\$ 10.70
408-564-S	5/64	.0781	2"	10.70
408-332-S	3/32	.0938	2-1/4"	10.70
408-764-S	7/64	.1094	2-5/8"	10.70
408-18-S	1/8	.1250	2-3/4"	10.70
408-964-S	9/64	.1406	2-7/8"	10.70
408-532-S	5/32	.1562	3-1/8"	12.48
408-1164-S	11/64	.1719	3-1/4"	14.35
408-316-S	3/16	.1875	3-1/2"	14.98
408-1364-S	13/64	.2031	3-5/8"	16.75
408-732-S	7/32	.2188	3-3/4"	17.90
408-1564-S	15/64	.2344	3-7/8"	19.15
408-14-S	1/4	.2500	4"	20.69
408-1764-S	17/64	.2656	4-1/8"	21.98
408-932-S	9/32	.2812	4-1/4"	26.30
408-1964-S	19/64	.2969	4-3/8"	29.90
408-516-S	5/16	.3125	4-1/2"	31.39
408-38-S	3/8	.3750	5"	48.48
408-716-S	7/16	.4375	5-1/2"	63.89
408-12-S	1/2	.5000	6"	81.26

ASSORTMENTS

408-8A-S	8 piece, 1/16, 1/8, 3/16, 1/4, 5/16, 3/8, 7/16, 1/2	\$267.88
405-58510-S	10 piece Bolt Removal Set; 1/16, 1/8, 3/16, 1/4 & 5/16 Left Hand HoleShots, #1, 2, 3, 4 & 5 screw extractors, metal case.	\$138.59

Warranty: All Heritage products are guaranteed to be free from defects. Our obligation to the user shall be to replace any items proven to be defective. User assumes responsibility for selecting the appropriate product for use and for complying with safety regulations set by OSHA and ANSI safety code B7.1, and assumes all other risks.

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HOLESHOT - PREMIUM TWIST DRILLS **FRACTIONAL SIZES, SCREW MACHINE LENGTH**

PART NUMBER	SIZE	DECIMAL EQUIV	OVERALL LENGTH	PRICE EACH
415-116-S	1/16	.0625	1-5/8	\$ 3.51
415-564-S	5/64	.0781	1-11/16	3.51
415-332-S	3/32	.0938	1-3/4	3.51
415-764-S	7/64	.1094	1-13/16	3.51
415-18-S	1/8	.1250	1-7/8	3.51
415-964-S	9/64	.1406	1-15/16	3.56
415-532-S	5/32	.1562	2-1/16	3.92
415-1164-S	11/64	.1719	2-1/8	4.36
415-316-S	3/16	.1875	2-3/16	4.53
415-1364-S	13/64	.2031	2-1/4	4.81
415-732-S	7/32	.2188	2-3/8	5.72
415-1564-S	15/64	.2344	2-7/16	5.76
415-14-S	1/4	.2500	2-1/2	6.12
415-1764-S	17/64	.2656	2-5/8	7.15
415-932-S	9/32	.2812	2-11/16	7.74
415-1964-S	19/64	.2969	2-3/4	8.22
415-516-S	5/16	.3125	2-13/16	8.95
415-2164-S	21/64	.3281	2-15/16	9.72
415-1132-S	11/32	.3438	3	10.97
415-2364-S	23/64	.3594	3-1/16	12.75
415-38-S	3/8	.3750	3-1/8	13.37
415-2564-S	25/64	.3906	3-1/4	15.05
415-1332-S	13/32	.4062	3-5/16	15.96
415-2764-S	27/64	.4219	3-3/8	17.31
415-716-S	7/16	.4375	3-7/16	17.70
415-2964-S	29/64	.4531	3-9/16	20.99
415-1532-S	15/32	.4688	3-5/8	22.30
415-3164-S	31/64	.4844	3-11/16	22.95
415-12-S	1/2	.5000	3-3/4	22.95
415-3364-S	33/64	.5156	3-7/8	47.61
415-1732-S	17/32	.5312	3-7/8	49.75
415-3564-S	35/64	.5469	4	51.84
415-916-S	9/16	.5625	4	51.84
415-3764-S	37/64	.5781	4-1/8	59.35
415-1932-S	19/32	.5938	4-1/8	59.35
415-3964-S	39/64	.6094	4-1/4	62.21
415-58-S	5/8	.6250	4-1/4	59.96
415-4164-S	41/64	.6406	4-1/2	68.63
415-2132-S	21/32	.6562	4-1/2	76.28
415-4364-S	43/64	.6719	4-1/2	68.63
415-1116-S	11/16	.6875	4-1/2	76.28
415-4564-S	45/64	.7031	4-3/4	82.60
415-2332-S	23/32	.7188	4-3/4	82.60
415-4764-S	47/64	.7344	5	88.88
415-34-S	3/4	.7500	5	87.28

ASSORTMENTS

415-29A-S 29 Piece, 1/16 thru 1/2 by 64ths \$231.84

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HoleShot - Fractional Sizes, Stub Length

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HOLESHOT - PREMIUM TWIST DRILLS

NUMBER SIZES, SCREW MACHINE LENGTH

PART NUMBER	SIZE (DEC EQUIV)	OVERALL LENGTH	PRICE EACH	PART NUMBER	SIZE (DEC EQUIV)	OVERALL LENGTH	PRICE EACH
415-N1-S	1 (.2280)	2-7/16	\$ 5.72	415-N31-S	31 (.1200)	1-7/8	\$ 3.24
415-N2-S	2 (.2210)	2-7/16	5.72	415-N32-S	32 (.1160)	1-7/8	3.24
415-N3-S	3 (.2130)	2-3/8	5.40	415-N33-S	33 (.1130)	1-7/8	3.24
415-N4-S	4 (.2090)	2-3/8	5.40	415-N34-S	34 (.1110)	1-7/8	3.24
415-N5-S	5 (.2055)	2-3/8	5.40	415-N35-S	35 (.1100)	1-7/8	3.24
415-N6-S	6 (.2040)	2-3/8	5.40	415-N36-S	36 (.1065)	1-13/16	3.24
415-N7-S	7 (.2010)	2-1/4	4.59	415-N37-S	37 (.1040)	1-13/16	3.24
415-N8-S	8 (.1990)	2-1/4	4.59	415-N38-S	38 (.1015)	1-13/16	3.24
415-N9-S	9 (.1960)	2-1/4	4.59	415-N39-S	39 (.0995)	1-13/16	3.24
415-N10-S	10 (.1953)	2-1/4	4.59	415-N40-S	40 (.0980)	1-13/16	3.24
415-N11-S	11 (.1910)	2-1/4	4.59	415-N41-S	41 (.0960)	1-13/16	3.24
415-N12-S	12 (.1890)	2-1/4	4.59	415-N42-S	42 (.0935)	1-3/4	3.24
415-N13-S	13 (.1850)	2-3/16	4.59	415-N43-S	43 (.0890)	1-3/4	3.24
415-N14-S	14 (.1820)	2-3/16	4.59	415-N44-S	44 (.0680)	1-3/4	3.24
415-N15-S	15 (.1880)	2-3/16	4.59	415-N45-S	45 (.0820)	1-3/4	3.24
415-N16-S	16 (.1770)	2-3/16	4.59	415-N46-S	46 (.0810)	1-3/4	3.24
415-N17-S	17 (.1730)	2-3/16	4.59	415-N47-S	47 (.0785)	1-11/16	3.24
415-N18-S	18 (.1695)	2-1/8	3.94	415-N48-S	48 (.0760)	1-11/16	3.24
415-N19-S	19 (.1660)	2-1/8	3.94	415-N49-S	49 (.0730)	1-11/16	3.24
415-N20-S	20 (.1610)	2-1/8	3.94	415-N50-S	50 (.0700)	1-11/16	3.24
415-N21-S	21 (.1590)	2-1/8	3.73	415-N51-S	51 (.0670)	1-11/16	3.24
415-N22-S	22 (.1570)	2-1/8	3.73	415-N52-S	52 (.0635)	1-11/16	3.24
415-N23-S	23 (.1540)	2-1/16	3.73	415-N53-S	53 (.0595)	1-5/8	3.24
415-N24-S	24 (.1520)	2-1/16	3.73	415-N54-S	54 (.0550)	1-5/8	3.24
415-N25-S	25 (.1495)	2-1/16	3.53	415-N55-S	55 (.0520)	1-5/8	3.24
415-N26-S	26 (.1470)	2-1/16	3.53	415-N56-S	56 (.0465)	1-3/8	3.24
415-N27-S	27 (.1440)	2-1/16	3.53	415-N57-S	57 (.0430)	1-3/8	3.24
415-N28-S	28 (.1405)	1-15/16	3.33	415-N58-S	58 (.0420)	1-3/8	3.24
415-N29-S	29 (.1360)	1-15/16	3.33	415-N59-S	59 (.0410)	1-3/8	3.24
415-N30-S	30 (.1285)	1-15/16	3.33	415-N60-S	60 (.0400)	1-3/8	3.24

ASSORTMENTS

415-A1X60-I 60 piece, #1 thru #60 \$210.87

Warranty: All Heritage products are guaranteed to be free from defects. Our obligation to the user shall be to replace any items proven to be defective. User assumes responsibility for selecting the appropriate product for use and for complying with safety regulations set by OSHA and ANSI safety code B7.1, and assumes all other risks.

HoleShot - Number Sizes, Stub Length



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HOLESHOT - PREMIUM TWIST DRILLS **FRACTIONAL & NUMBER SIZES, TWIN END**

FRACTIONAL SIZES

PART NUMBER	SIZE (DEC EQUIV)	OVERALL LENGTH	FLUTE LENGTH	PRICE EACH
405-332-S	3/32 (.0938)	1-3/4"	9/16"	\$ 3.80
405-764-S	7/64 (.1094)	1-15/16"	5/8"	3.80
405-18-S	1/8 (.1250)	1-15/16"	5/8"	3.80
405-964-S	9/64 (.1406)	2"	5/8"	4.59
405-532-S	5/32 (.1562)	2-1/8"	5/8"	4.88
405-316-S	3/16 (.1875)	2-5/16"	5/8"	5.49
405-732-S	7/32 (.2188)	2-9/16"	3/4"	6.88
405-14-S	1/4 (.2500)	2-5/8"	13/16"	7.70

NUMBER SIZES

PART NUMBER	SIZE (DEC EQUIV)	OVERALL LENGTH	FLUTE LENGTH	PRICE EACH
405-10-S	10 (.1935)	2-5/16"	5/8"	\$ 5.49
405-11-S	11 (.1910)	2-5/16"	5/8"	5.49
405-20-S	20 (.1610)	2-1/8"	5/8"	4.88
405-30-S	30 (.1285)	2"	5/8"	3.80

Warranty: All Heritage products are guaranteed to be free from defects. Our obligation to the user shall be to replace any items proven to be defective. User assumes responsibility for selecting the appropriate product for use and for complying with safety regulations set by OSHA and ANSI safety code B7.1, and assumes all other risks.

HoleShot - Fractional & Number Sizes, Twin End

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HOLESHOT - PREMIUM TWIST DRILLS **FRACTIONAL SIZES, EXTENDED LENGTH**

Drill up to ten diameters deep or more without drill removal to clear chips.

PART NUMBER	SIZE (DEC EQUIV)	OVERALL LENGTH	FLUTE LENGTH	PRICE EACH
409-18-6	1/8 (.1250)	6"	4"	\$ 13.62
409-964-6	9/64 (.1406)	6"	4"	14.36
409-532-6	5/32 (.1562)	6"	4"	14.64
409-1164-6	11/64 (.1719)	6"	4"	15.44
409-316-6	3/16 (.1875)	6"	4"	14.90
409-1364-6	13/64 (.2031)	6"	4"	15.60
409-732-6	7/32 (.2188)	6"	4"	16.05
409-1564-6	15/64 (.2344)	6"	4"	18.15
409-14-6	1/4 (.2500)	6"	4"	16.68
409-932-6	9/32 (.2812)	6"	4"	17.45
409-516-6	5/16 (.3125)	6"	4"	17.35
409-1132-6	11/32 (.3438)	6"	4"	20.08
409-38-6	3/8 (.3750)	6"	4"	23.20
409-1332-6	13/32 (.4062)	6"	4"	24.40
409-716-6	7/16 (.4375)	6"	4"	26.18
409-12-6	1/2 (.5000)	6"	4"	27.13
409-18-9	1/8 (.1250)	9"	6"	23.81
409-532-9	5/32 (.1562)	9"	6"	24.66
409-316-9	3/16 (.1875)	9"	6"	25.97
409-732-9	7/32 (.2188)	9"	6"	28.80
409-14-9	1/4 (.2500)	9"	6"	29.87
409-932-9	9/32 (.2812)	9"	6"	32.90
409-516-9	5/16 (.3125)	9"	6"	32.97
409-1132-9	11/32 (.3438)	9"	6"	35.76
409-38-9	3/8 (.3750)	9"	6"	37.26
409-716-9	7/16 (.4375)	9"	6"	52.28
409-12-9	1/2 (.5000)	9"	6"	58.06
409-18-12	1/8 (.1250)	12"	9"	29.64
409-532-12	5/32 (.1562)	12"	9"	30.40
409-316-12	3/16 (.1875)	12"	9"	32.27
409-732-12	7/32 (.2188)	12"	9"	36.72
409-14-12	1/4 (.2500)	12"	9"	44.11
409-932-12	9/32 (.2812)	12"	9"	45.75
409-516-12	5/16 (.3125)	12"	9"	47.47
409-1132-12	11/32 (.3438)	12"	9"	50.19
409-38-12	3/8 (.3750)	12"	9"	52.44
409-716-12	7/16 (.4375)	12"	9"	61.71
409-12-12	1/2 (.5000)	12"	9"	77.58

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HoleShot - Fractional Sizes, Extra Length

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HOLESHOT GT - PREMIUM TWIST DRILLS

FRACTIONAL SIZES, GYROIDAL TORSION FLUTE

Gyroidal Torsion flute allows drilling over twelve diameters deep.

PART NUMBER	SIZE (METRIC EQUIV)	DECIMAL EQUIV	OVERALL LENGTH	FLUTE LENGTH	PRICE EACH	PRICE DISCOUNTS			
						PKG PRICE EACH	PKG QNTY	VOL PRICE EACH	PKG QNTY
411-364-S	3/64 (1.19MM)	.0469	1-3/4"	3/4"	\$ 6.77	\$ 5.96	10	\$ 5.16	30
411-116-S	1/16 (1.59MM)	.0625	1-7/8"	7/8"	6.77	5.96	10	5.16	30
411-564-S	5/64 (1.98MM)	.0781	2"	1"	6.01	5.30	10	4.58	30
411-332-S	3/32 (2.38MM)	.0938	2-1/4"	1-3/16"	6.63	5.84	10	5.05	30
411-764-S	7/64 (2.78MM)	.1094	2-13/32"	1-19/64"	6.86	6.04	10	5.23	30
411-18-S	1/8 (3.17MM)	.1250	2-9/16"	1-7/16"	7.33	6.46	10	5.59	30
411-964-S	9/64 (3.57MM)	.1406	2-3/4"	1-17/32"	7.84	6.91	10	5.98	30
411-532-S	5/32 (3.97MM)	.1562	2-15/16"	1-11/16"	8.28	7.29	10	6.31	30
411-1164-S	11/64 (4.37MM)	.1719	3-5/32"	1-27/32"	9.17	8.08	10	6.98	30
411-316-S	3/16 (4.76MM)	.1875	3-3/8"	2-1/16"	10.34	9.11	10	7.88	30
411-1364-S	13/64 (5.16MM)	.2031	3-3/8"	2-1/16"	11.59	10.21	10	8.83	30
411-732-S	7/32 (5.56MM)	.2188	3-21/32"	2-7/32"	13.59	11.97	10	10.35	20
411-1564-S	15/64 (5.95MM)	.2344	3-21/32"	2-7/32"	15.82	13.94	10	12.05	20
411-14-S	1/4 (6.35MM)	.2500	3-31/32"	2-15/32"	17.14	15.10	10	13.06	20
411-1764-S	17/64 (6.75MM)	.2656	4-9/32"	2-23/32"	18.94	16.68	10	14.43	20
411-932-S	9/32 (7.14MM)	.2812	4-9/32"	2-23/32"	19.00	16.73	5	14.47	20
411-1964-S	19/64 (7.54MM)	.2969	4-19/32"	2-15/16"	21.21	18.68	5	16.16	20
411-516-S	5/16 (7.94MM)	.3125	4-19/32"	2-15/16"	23.06	20.31	5	17.57	20
411-2164-S	21/64 (8.33MM)	.3281	4-19/32"	2-15/16"	26.82	23.63	5	20.43	20
411-1132-S	11/32 (8.73MM)	.3438	4-29/32"	3-3/16"	28.99	25.54	5	22.09	20
411-2364-S	23/64 (9.13MM)	.3594	4-29/32"	3-3/16"	30.26	26.66	5	23.05	20
411-38-S	3/8 (9.52MM)	.3750	5-1/4"	3-7/16"	32.94	29.02	5	25.10	20
411-2564-S	25/64 (9.92MM)	.3906	5-1/4"	3-7/16"	34.12	30.05	5	25.99	15
411-1332-S	13/32 (10.32MM)	.4062	5-1/4"	3-7/16"	38.93	34.30	5	29.66	15
411-2764-S	27/64 (10.72MM)	.4219	5-19/32"	3-11/16"	42.83	37.73	5	32.63	15
411-716-S	7/16 (11.11MM)	.4375	5-19/32"	3-11/16"	45.28	39.89	5	34.50	15
411-2964-S	29/64 (11.51MM)	.4531	5-19/32"	3-11/16"	47.19	41.58	5	35.96	15
411-1532-S	15/32 (11.91MM)	.4688	5-15/16"	3-31/32"	50.20	44.22	5	38.25	15
411-3164-S	31/64 (12.30MM)	.4844	5-15/16"	3-31/32"	50.43	44.42	5	38.42	15
411-12-S	1/2 (12.70MM)	.5000	5-15/16"	3-31/32"	50.65	44.62	5	38.59	15

HoleShot GT - Fractional Sizes

Warranty: All Heritage products are guaranteed to be free from defects. Our obligation to the user shall be to replace any items proven to be defective. User assumes responsibility for selecting the appropriate product for use and for complying with safety regulations set by OSHA and ANSI safety code B7.1, and assumes all other risks.

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BIGSHOT - SILVER & DEMING DRILLS **FRACTIONAL SIZES**

Constant 6" length and 1/2" shank. Three flats on shank to eliminate slippage.

PART NUMBER	SIZE	DECIMAL EQUIV	PRICE EACH
401-3364-S	33/64	.5156	\$ 47.22
401-1732-S	17/32	.5312	45.01
401-3564-S	35/64	.5469	50.31
401-916-S	9/16	.5625	47.92
401-3764-S	37/64	.5781	54.01
401-1932-S	19/32	.5938	51.48
401-3964-S	39/64	.6094	56.58
401-58-S	5/8	.6250	53.96
401-4164-S	41/64	.6406	60.39
401-2132-S	21/32	.6562	57.48
401-4364-S	43/64	.6719	62.31
401-1116-S	11/16	.6875	59.73
401-4564-S	45/64	.7031	66.48
401-2332-S	23/32	.7188	63.27
401-4764-S	47/64	.7344	69.26
401-34-S	3/4	.7500	65.94
401-4964-S	49/64	.7656	73.45
401-2532-S	25/32	.7812	69.98
401-5164-S	51/64	.7969	73.50
401-1316-S	13/16	.8125	73.50
401-5364-S	53/64	.8281	76.74
401-2732-S	27/32	.8438	76.74
401-5564-S	55/64	.8594	79.65
401-78-S	7/8	.8750	79.65
401-5764-S	57/64	.8903	83.22
401-2932-S	29/32	.9062	83.22
401-5964-S	59/64	.9219	89.05
401-1516-S	15/16	.9375	89.05
401-6164-S	61/64	.9531	94.03
401-3132-S	31/32	.9688	94.03
401-6364-S	63/64	.9844	103.72
401-1-S	1	1.0000	103.72
401-11132-S	1-1/32	1.0312	136.96
401-11116-S	1-1/16	1.0625	125.40
401-11332-S	1-3/32	1.0935	151.30
401-1118-S	1-1/8	1.1250	137.17
401-11532-S	1-5/32	1.1562	142.89
401-11316-S	1-3/16	1.1875	146.06
401-11732-S	1-7/32	1.2188	185.27
401-1114-S	1-1/4	1.2500	160.89
401-11516-S	1-5/16	1.3125	225.06
401-1138-S	1-3/8	1.3750	228.80
401-11716-S	1-7/16	1.4375	255.60
401-1112-S	1-1/2	1.5000	261.99

ASSORTMENTS

401-17A-S	17 PC. ASSORTMENT 1/2" - 1" 1/32 INCREMENTS	\$1076.83.
401-33A-S	33 PC. ASSORTMENT 1/2" - 1" 1/64 INCREMENTS	2153.66

Warranty: All Heritage products are guaranteed to be free from defects. Our obligation to the user shall be to replace any items proven to be defective. User assumes responsibility for selecting the appropriate product for use and for complying with safety

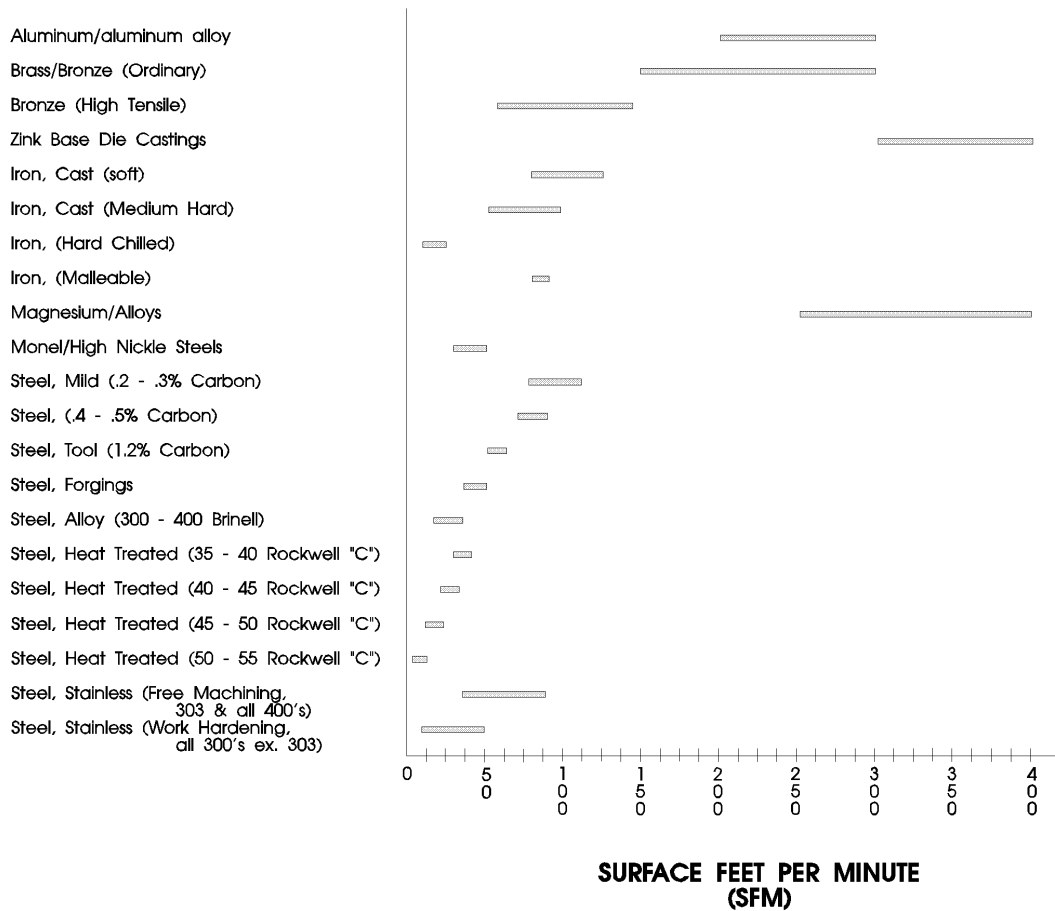
BigShot - Fractional Sizes, Silver & Deming



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 800-236-2119 (Voice)
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HoleShot - Application Information

BASELINE SPEEDS FOR HERITAGE HOLESHOT DRILL BITS



Generally speaking, the greatest drill life and highest production rates will be achieved by selecting a speed at the low end of the range and a feed rate at the high end of the recommended range.

See following page for speed conversion and feed information.

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HoleShot - Application Information

DRILL SIZE	DECIMAL	20 SFM	40 SFM	60 SFM	80 SFM	100 SFM	150 SFM	200 SFM	300 SFM
1/16	0.0625	1223	2446	3669	4892	6115	9172	12,229	18,344
5/64	0.0781	979	1957	2936	3915	4893	7340	9787	14,680
3/32	0.0938	815	1630	2445	3259	4074	6111	8149	12,223
7/64	0.1094	699	1397	2096	2795	3493	5240	6987	10,480
1/8	0.1250	611	1223	1834	2446	3057	4586	6115	9172
5/32	0.1562	489	979	1468	1957	2447	3670	4893	7340
3/16	0.1875	408	815	1223	1631	2038	3057	4076	6115
7/32	0.2188	349	699	1048	1397	1747	2620	3493	5240
1/4	0.2500	306	611	917	1223	1529	2290	3057	4586
9/32	0.2812	272	544	815	1087	1359	2039	2718	4077
5/16	0.3125	245	489	734	978	1223	1834	2446	3669
11/32	0.3438	222	445	667	889	1112	1667	2223	3335
3/8	0.3750	204	408	611	815	1019	1529	2038	3057
13/32	0.4062	188	376	564	753	941	1411	1882	2822
7/16	0.4375	175	349	524	699	874	1310	1747	2621
15/32	0.4688	163	326	489	652	815	1223	1630	2446
1/2	0.5000	153	306	459	611	764	1146	1529	2293
17/32	0.5313	144	288	432	575	719	1076	1439	2158
9/16	0.5625	136	272	408	544	679	1019	1359	2038
19/32	0.5938	129	257	386	515	644	965	1287	1931
5/8	0.6250	122	245	367	489	611	917	1223	1834
21/32	0.6563	116	233	349	466	582	874	1165	1747
11/16	0.6875	111	222	334	445	556	834	1112	1668
23/32	0.7188	106	213	319	425	532	798	1063	1595
3/4	0.7500	102	204	306	408	510	764	1019	1529
25/32	0.7813	98	196	294	391	489	734	978	1468
13/16	0.8125	94	188	282	376	470	706	941	1411
27/32	0.8438	91	181	272	362	453	679	906	1359
7/8	0.8750	87	175	262	349	437	655	874	1310
29/32	0.9063	84	169	253	337	422	633	843	1265
15/16	0.9375	82	163	245	326	408	611	815	1223
31/32	0.9688	79	158	237	316	394	592	789	1183
1	1.0000	76	153	229	306	382	573	764	1146
1-1/32	1.0313	74	148	222	296	371	556	741	1112
1-1/16	1.0625	72	144	216	288	360	540	719	1079
1-1/8	1.1250	68	136	204	272	340	510	679	1019
1-3/16	1.1875	64	129	193	257	322	483	644	965
1-1/4	1.2500	61	122	183	245	306	459	611	917
1-5/16	1.3125	58	116	175	233	291	437	582	874
1-3/8	1.3750	56	111	167	222	278	417	556	834
1-7/16	1.4375	53	106	160	213	266	399	532	798
1-1/2	1.5000	51	102	153	204	255	382	510	764

The numbers shown are the Revolutions Per Minute (RPM) for any combination of drill size and Surface Feet Per Minute (SFM). For example, if the material being drilled requires a SFM of 20 and the drill is 1/2", the correct RPM is (about) 153.

DRILL BIT DIAMETER	RECOMMENDED FEED RATE PER REVOLUTION
1/16 - 1/8	.001 - .003
1/8 - 1/4	.002 - .006
1/4 - 1/2	.004 - .010
1/2 - 1	.007 - .015
1 - 1-1/2	.015 - .025

The best overall drill performance will usually occur using a relatively low RPM and a relatively high feed within the recommended SFM range.