



Inch to Scale Inch

Actual Size		Scale Sizes (inches)							
Inch	Nearest fraction	N 1:16 0	1/8 1:9 6	HO 1:87	OO 1:72	S (3/16) 1:64	O (1/4) 1:48	1:35	1/2 1:24
.010	$\frac{1}{100}$	1 1/2	1	$\frac{7}{8}$	$\frac{3}{4}$	$\frac{5}{8}$	$\frac{1}{2}$	$\frac{3}{8}$	$\frac{1}{4}$
.015	$\frac{1}{64}$	2 3/8	1 1/2	1 1/4	1 1/8	1	3/4	1/2	3/8
.020	$\frac{1}{50}$	3 1/4	2	1 3/4	1 1/2	1 1/4	1	3/4	1/2
.025	$\frac{1}{40}$	4	2 1/2	2 1/8	1 7/8	1 5/8	1 1/4	7/8	5/8
.030	$\frac{1}{32}$	4 3/4	3	2 5/8	2 1/8	1 7/8	1 1/2	.1	3/4
.040	$\frac{1}{25}$	6 3/8	4	3 1/2	2 7/8	2 1/2	2	1 3/8	1
.050	$\frac{1}{20}$	8	5	4 3/8	3 5/8	3 1/4	2 1/2	1 3/4	1 1/4
.060	$\frac{1}{16}$	9 5/8	6	5 1/4	4 3/8	4	3	2 1/8	1 1/2
.080	$\frac{5}{64}$	12 3/4	8	7	5 3/4	5	4	2 3/4	2
.100	$\frac{1}{10}$	16	10	8 3/4	7 1/4	6 1/2	5	3 1/2	2 1/2
.125	$\frac{1}{8}$	20	12	10 7/8	9	8	6	4 3/8	3
.156	$\frac{5}{32}$	25	15	13 1/2	11 1/4	10	7 1/2	5 1/2	3 3/4
.188	$\frac{3}{16}$	30	18	16 1/4	13 1/2	12	9	6 1/2	4 1/2
.250	$\frac{1}{4}$	40	24	21 3/4	18	16	12	8 3/4	6
.312	$\frac{5}{16}$	50	30	27 1/4	22 1/2	20	15	11	7 1/2
.375	$\frac{3}{8}$	60	36	32 1/2	27	24	18	13	9
.438	$\frac{7}{16}$	70	42	38	31 1/2	28	21	15	10 1/2
.500	$\frac{1}{2}$	80	48	43 1/2	36	32	24	17 1/2	12

DECIMAL METRIC EQUIVALENTS

Fractional Inch	Decimal Inch	Decimal Metric	Fractional Inch	Decimal Metric	Decimal Inch	Decimal Metric
	1/64	.015625		0.3969	.515625	13.0969
	1/32	.03125	17/32	0.7937	.53125	13.4937
1/16	3/64	.046875		1.11906	.546875	13.8906
	5/64	.0625	9/16	1.5875	.5625	14.2875
	3/32	.078125		1.9844	.578125	14.6844
1/8	7/64	.09375	19/32	2.3812	.59375	15.0812
		.109375	39/64	2.7781	.609375	15.4781
		.125	5/8	3.1750	.625	15.8750
	9/64	.140625		3.5719	.640625	16.2719
	5/32	.15625	21/32	3.9687	.65625	16.6687
3/16	11/64	.171875		4.3656	.671875	17.0656
		.1875	11/16	4.7625	.6875	17.4625
	13/64	.203125		5.1594	.703125	17.8594
	7/32	.21875	23/32	5.5562	.71875	18.2562
	15/64	.234375	47/64	5.9531	.734375	18.6531
1/4		.25	3/4	6.3500	.75	19.0500
	17/64	.265625		6.7469	.765625	19.4469
	9/32	.28125	25/32	7.1437	.78125	19.8437
5/16	19/64	.296875		7.5406	.796875	20.2406
		.3125	13/16	7.9375	.8125	20.6375
	21/64	.328125		8.3344	.828125	21.0344
	11/32	.34375	27/32	8.7312	.84375	21.4312
3/8	23/64	.359375		9.1281	.859375	21.8281
		.375	7/8	9.5250	.875	22.2250
	25/64	.390625		9.9219	.890625	22.6219
	13/32	.40625	29/32	10.3187	.90625	23.0187
7/16	27/64	.421875		10.7156	.921875	23.4156
		.4375	15/16	11.1125	.9375	23.8125
	29/64	.453125		11.5094	.953125	24.2094
	15/32	.46875	31/32	11.9062	.96875	24.6062
1/2	31/64	.484375		12.3031	.984375	25.0031
		.5	1	12.7000	1.0	25.4001

Drill Size, Decimal Equivalents Chart

DRILL SIZE CHART WITH DECIMAL, FRACTION, WIRE NUMBER AND METRIC SIZES

Decimal	Inch	Wire mm	Decimal	Inch	Wire mm	Decimal	Inch	Wire mm	Decimal	Inch	Wire mm	Decimal	Inch	Wire mm	Decimal	Inch	Wire mm
.0135		80	.0469	3/64		.0965		2.45	.1610		20	.2323		5.90	.3150		8.00
.0138		.35	.0472		1.20	.0980		40	.1614		4.10	.2340		A	.3160		O
.0145		79	.0492		1.25	.0984		2.50	.1654		4.20	.2344		15/64	.3189		8.10
.0156		1/64	.0512		1.30	.0995		39	.1660		19	.2362			.3228		8.20
.0158		.40	.0520		55	.1015		38	.1673		4.25	.2380		B	.3230		P
.0160		78	.0531		1.35	.1024		2.60	.1693		4.30	.2402			.3248		8.25
.0177		.45	.0550		54	.1040		37	.1695		18	.2420		C	.3268		8.30
.0180		77	.0551		1.40	.1063		2.70	.1719		11/64	.2441			.3281		21/64
.0197		.50	.0571		1.45	.1065		36	.1730		17	.2460		D	.3307		8.40
.0200		76	.0591		1.50	.1083		2.75	.1732		4.40	.2461			.3320		Q
.0210		75	.0595		53	.1094		7/64	.1770		16	.2480			.3346		8.50
.0217		.55	.0610		1.55	.1100		35	.1772		4.50	.2500		1/4	.3386		8.60
.0225		74	.0625		1/16	.1102		2.80	.1800		15	.2520			.3390		R
.0236		.60	.0630		1.60	.1110		34	.1811		4.60	.2559			.3425		8.70
.0240		73	.0635		52	.1130		33	.1820		14	.2570		F	.3438		11/32
.0250		72	.0650		1.65	.1142		2.90	.1850		13	.2598			.3445		8.75
.0256		.65	.0669		1.70	.1160		32	.1870		4.75	.2610		G	.3465		8.80
.0260		71	.0670		51	.1181		3.00	.1875		3/16	.2638			.3480		S
.0276		.70	.0689		1.75	.1200		31	.1890		12	.2656		17/64	.3504		8.90
.0280		70	.0700		50	.1220		3.10	.1910		11	.2657			.3543		9.00
.0292		69	.0709		1.80	.1250		1/8	.1929		4.90	.2660		H	.3580		T
.0295		.75	.0728		1.85	.1260		3.20	.1935		10	.2677			.3583		9.10
.0310		68	.0730		49	.1280		3.25	.1960		9	.2717			.3594		23/64
.0312		1/32	.0748		1.90	.1285		30	.1968		5.00	.2720		I	.3622		9.20
.0315		.80	.0760		48	.1299		3.30	.1990		8	.2756			.3642		9.25
.0320		67	.0768		1.95	.1339		3.40	.2008		5.10	.2770		J	.3661		9.30
.0330		66	.0781		5/64	.1360		29	.2010		7	.2795			.3680		U
.0335		.85	.0785		47	.1378		3.50	.2031		13/64	.2810		K	.3701		9.40
.0350		65	.0787		2.00	.1405		28	.2040		6	.2812		9/32	.3740		9.50
.0354		.90	.0807		2.05	.1406		9/64	.2047		5.20	.2835			.3750		3/8
.0360		64	.0810		46	.1417		3.60	.2055		5	.2854			.3770		V
.0370		63	.0820		45	.1440		27	.2067		5.25	.2874			.3780		9.60
.0374		.95	.0827		2.10	.1457		3.70	.2087		5.30	.2900		L	.3819		9.70
.0380		62	.0846		2.15	.1470		26	.2090		4	.2913			.3839		9.75
.0390		61	.0860		44	.1476		3.75	.2126		5.40	.2950		M	.3858		9.80
.0394		1.00	.0866		2.20	.1495		25	.2130		3	.2953			.3860		W
.0400		60	.0886		2.25	.1496		3.80	.2165		5.50	.2969		19/64	.3898		9.90
.0410		59	.0890		43	.1520		24	.2188		7/32	.2992			.3906		25/64
.0413		1.05	.0906		2.30	.1535		3.90	.2205		5.60	.3020		N	.3937		10.00
.0420		58	.0925		2.35	.1540		23	.2210		2	.3031			.3970		X
.0430		57	.0935		42	.1562		5/32	.2244		5.70	.3051			.4040		Y
.0433		1.10	.0938		3/32	.1570		22	.2264		5.75	.3071			.4071		
.0453		1.15	.0945		2.40	.1575		4.00	.2280		1	.3110			.4071		
.0465		56	.0960		41	.1590		21	.2283		5.80	.3125		5/16			

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673 Avenue C
White City, OR 97503-1078

DECIMAL METRIC EQUIVALENTS

Fractional Inch	Decimal Inch	Decimal Metric	Fractional Inch	Decimal Inch	Decimal Metric
	1/64	.015625	33/64	.515625	13.0969
	1/32	.03125	17/32	.53125	13.4937
	3/64	.046875	35/64	.546875	13.8906
1/16	.0625	1.5875	9/16	.5625	14.2875
	5/64	.078125	37/64	.578125	14.6844
	3/32	.09375	19/32	.59375	15.0812
1/8	.109375	2.7781	39/64	.609375	15.4781
	.125	3.1750	5/8	.625	15.8750
	9/64	.140625	41/64	.640625	16.2719
	5/32	.15625	21/32	.65625	16.6687
3/16	.171875	4.3656	43/64	.671875	17.0656
	11/64	.1875	11/16	.6875	17.4625
	13/64	.203125	45/64	.703125	17.8594
	7/32	.21875	23/32	.71875	18.2562
1/4	.234375	5.9531	47/64	.734375	18.6531
	.25	6.3500	3/4	.75	19.0500
	17/64	.265625	49/64	.765625	19.4469
	9/32	.28125	25/32	.78125	19.8437
5/16	.296875	7.5406	51/64	.796875	20.2406
	.3125	7.9375	13/16	.8125	20.6375
	21/64	.328125	53/64	.828125	21.0344
	11/32	.34375	27/32	.84375	21.4312
3/8	.359375	9.1281	55/64	.859375	21.8281
	.375	9.5250	7/8	.875	22.2250
	25/64	.390625	57/64	.890625	22.6219
	13/32	.40625	29/32	.90625	23.0187
	27/64	.421875	59/64	.921875	23.4156
7/16	.4375	11.1125	15/16	.9375	23.8125
	29/64	.453125	61/64	.953125	24.2094
	15/32	.46875	31/32	.96875	24.6062
1/2	.484375	12.3031	63/64	.984375	25.0031
	.5	12.7000	1	1.0	25.4001

FREE TABLE!
RECOMMENDED DRILL SIZES
FOR
SELF-TAPPING SCREWS (SHEET METAL)

Self-Tapping Screw Size			Major Thread Diameter			Minor Thread Diameter			For Heavy Metals		For Light Metals	
No.	Threads per Inch	O.D.	Max.	Mean	Min.	Max.	Mean	Min.	Drill Size		Drill Size	
2	32	.086	.088	.0850	.082	.064	.0620	.060	49	.0730	49	.0730
4	24	.112	.114	.1110	.108	.086	.0840	.082	41	.0960	41	.0960
5	20	.125	.130	.1265	.123	.094	.0920	.090	36	.1065	36	.1065
6	20	.138	.139	.1355	.132	.104	.1015	.099	32	.1160	32	.1160
7	19	.151	.154	.1505	.147	.115	.1120	.109	30	.1285	30	.1285
8	18	.164	.166	.1625	.159	.122	.1190	.116	28	.1405	29	.1360
10	16	.190	.189	.1855	.182	.141	.1380	.135	20	.1610	21	.1590
12	14	.216	.215	.2115	.208	.164	.1605	.157	13	.1850	14	.1820
1/4	14	.250	.246	.2415	.237	.192	.1885	.185	3	.2130	4	.2090
5/16	12	.313	.315	.3105	.306	.244	.2400	.236	I	.2720	H	.2660
3/8	12	.375	.380	.3755	.371	.309	.3040	.299	R	.3390	Q	.3320

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Drill Size, Decimal Equivalents Chart

DRILL SIZE CHART WITH DECIMAL, FRACTION, WIRE NUMBER AND METRIC SIZES

Decimal Inch	Wire mm	Decimal Inch	Wire mm	Decimal Inch	Wire mm	Decimal Inch	Wire mm	Decimal Inch	Wire mm	Decimal Inch	Wire mm	Decimal Inch	Wire mm
.0135	80	.0469	3/64	.0965	2.45	.1610	20	.2323	5.90	.3150	8.00		
.0138	.35	.0472	1.20	.0980	40	.1614	4.10	.2340	4.10	.3160	8.10		O
.0145	.79	.0492	1.25	.0984	2.50	.1654	4.20	.2344	15/64	.3189	8.10		
.0156	1/64	.0512	1.30	.0995	39	.1660	19	.2362	6.00	.3228	8.20		
.0158	.40	.0520	55	.1015	38	.1673	4.25	.2380	6.00	.3230	8.20		P
.0160	.78	.0531	1.35	.1024	2.60	.1693	4.30	.2402	6.10	.3248	8.25		
.0177	.45	.0550	54	.1040	37	.1695	18	.2420	6.20	.3268	8.30		
.0180	.77	.0551	1.40	.1063	2.70	.1719	11/64	.2441	6.20	.3281	21/64		
.0197	.50	.0571	1.45	.1065	36	.1730	17	.2460	6.20	.3307	8.40		
.0200	.76	.0591	1.50	.1083	2.75	.1732	4.40	.2461	6.25	.3320	8.40		Q
.0210	.75	.0595	53	.1094	7/64	.1770	16	.2480	6.30	.3346	8.50		
.0217	.55	.0610	1.55	.1100	35	.1772	4.50	.2500	1/4	.3386	8.60		
.0225	.74	.0625	1/16	.1102	2.80	.1800	15	.2520	6.40	.3390	8.60		R
.0236	.60	.0630	1.60	.1110	34	.1811	4.60	.2559	6.50	.3425	8.70		
.0240	.73	.0635	52	.1130	33	.1820	14	.2570	6.60	.3438	11/32		
.0250	.72	.0650	1.65	.1142	2.90	.1850	13	.2598	6.60	.3445	8.75		
.0256	.65	.0669	1.70	.1160	32	.1870	4.75	.2610	6.70	.3465	8.80		
.0260	.71	.0670	51	.1181	3.00	.1875	3/16	.2638	6.70	.3480	8.80		S
.0276	.70	.0689	1.75	.1200	31	.1890	12	.2656	17/64	.3504	8.90		
.0280	.70	.0700	50	.1220	3.10	.1910	11	.2657	6.75	.3543	9.00		
.0292	.69	.0709	1.80	.1250	30	.1929	4.90	.2660	6.80	.3580	9.10		T
.0295	.75	.0728	1.85	.1260	3.20	.1935	10	.2677	6.80	.3583	9.10		
.0310	.68	.0730	49	.1280	3.25	.1960	9	.2717	6.90	.3594	23/64		
.0312	1/32	.0748	1.90	.1285	30	.1968	5.00	.2720	6.90	.3622	9.20		
.0315	.80	.0760	48	.1299	3.30	.1990	8	.2756	7.00	.3642	9.25		
.0320	.67	.0768	1.95	.1339	3.40	.2008	5.10	.2770	7.10	.3661	9.30		
.0330	.66	.0781	5/64	.1360	29	.2010	7	.2795	7.10	.3680	9.30		U
.0335	.85	.0785	47	.1378	3.50	.2031	13/64	.2810	7.20	.3701	9.40		
.0350	.65	.0787	2.00	.1405	28	.2040	6	.2812	7.20	.3740	9.50		
.0354	.90	.0807	2.05	.1406	9/64	.2047	5.20	.2835	7.20	.3750	3/8		
.0360	.64	.0810	46	.1417	3.60	.2055	5	.2854	7.25	.3770	9.60		V
.0370	.63	.0820	45	.1440	27	.2067	5.25	.2874	7.30	.3780	9.60		
.0374	.95	.0827	2.10	.1457	3.70	.2087	5.30	.2900	7.40	.3819	9.70		
.0380	.62	.0846	2.15	.1470	26	.2090	4	.2913	7.40	.3839	9.75		
.0390	.61	.0860	44	.1476	3.75	.2126	5.40	.2950	7.50	.3858	9.80		
.0394	1.00	.0866	2.20	.1495	25	.2130	3	.2953	7.50	.3860	9.80		W
.0400	.60	.0886	2.25	.1496	3.80	.2165	5.50	.2969	19/64	.3898	9.90		
.0410	.59	.0890	43	.1520	24	.2188	7/32	.2992	7.60	.3906	25/64		
.0413	1.05	.0906	2.30	.1535	3.90	.2205	5.60	.3020	7.70	.3937	10.00		X
.0420	.58	.0925	2.35	.1540	23	.2210	2	.3031	7.70	.3970	10.00		
.0430	.57	.0935	42	.1562	5/32	.2244	5.70	.3051	7.75	.4040	10.00		Y
.0433	1.10	.0938	3/32	.1570	22	.2264	5.75	.3071	7.80				
.0453	1.15	.0945	2.40	.1575	4.00	.2280	1	.3110	7.90				
.0465	.56	.0960	41	.1590	21	.2283	5.80	.3125	5/16				

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Tap & Clearance Drill Sizes				Tap Drill				Clearance Drill			
Screw Size	Major Diameter	Threads Per Inch	Minor Diameter	75% Thread for Aluminum, Brass, & Plastics		50% Thread for Steel, Stainless, & Iron		Close Fit		Free Fit	
				Drill Size	Dec. Eq.	Drill Size	Dec. Eq.	Drill Size	Dec. Eq.	Drill Size	Dec. Eq.
0	.0600	80	.0447	3/64	.0469	.55	.0520	52	.0635	50	.0700
1	.0730	64	.0538	53	.0595	1/16	.0625	48	.0760	46	.0810
		72	.0560	53	.0595	52	.0635				
2	.0860	56	.0641	50	.0700	49	.0730	43	.0890	41	.0960
		64	.0668	50	.0700	48	.0760				
3	.0990	48	.0734	47	.0785	44	.0860	37	.1040	35	.1100
		56	.0771	45	.0820	43	.0890				
4	.1120	40	.0813	43	.0890	41	.0960	32	.1160	30	.1285
		48	.0864	42	.0935	40	.0980				
5	.125	40	.0943	38	.1015	7/64	.1094	30	.1285	29	.1360
		44	.0971	37	.1040	35	.1100				
6	.138	32	.0997	36	.1065	32	.1160	27	.1440	25	.1495
		40	.1073	33	.1130	31	.1200				
8	.1640	32	.1257	29	.1360	27	.1440	18	.1695	16	.1770
		36	.1299	29	.1360	26	.1470				
10	.1900	24	.1389	25	.1495	20	.1610	9	.1960	7	.2010
		32	.1517	21	.1590	18	.1695				
12	.2160	24	.1649	16	.1770	12	.1890	2	.2210	1	.2280
		28	.1722	14	.1820	10	.1935				
		32	.1777	13	.1850	9	.1960				
1/4	.2500	20	.1887	7	.2010	7/32	.2188	F	.2570	H	.2660
		28	.2062	3	.2130	1	.2280				
		32	.2117	7/32	.2188	1	.2280				
5/16	.3125	18	.2443	F	.2570	J	.2770	P	.3230	Q	.3320
		24	.2614	I	.2720	9/32	.2812				
		32	.2742	9/32	.2812	L	.2900				
3/8	.3750	16	.2983	5/16	.3125	Q	.3320	W	.3860	X	.3970
		24	.3239	Q	.3320	S	.3480				
		32	.3367	11/32	.3438	T	.3580				
7/16	.4375	14	.3499	U	.3680	25/64	.3906	29/64	.4531	15/32	.4687
		20	.3762	25/64	.3906	13/32	.4062				
		28	.3937	Y	.4040	Z	.4130				
1/2	.5000	13	.4056	27/64	.4219	29/64	.4531	33/64	.5156	17/32	.5312
		20	.4387	29/64	.4531	15/32	.4688				
		28	.4562	15/32	.4688	15/32	.4688				
9/16	.5625	12	.4603	31/64	.4844	33/64	.5156	37/64	.5781	19/32	.5938
		18	.4943	33/64	.5156	17/32	.5312				
		24	.5114	33/64	.5156	17/32	.5312				
5/8	.6250	11	.5135	17/32	.5312	9/16	.5625	41/64	.6406	21/32	.6562
		18	.5568	37/64	.5781	19/32	.5938				
		24	.5739	37/64	.5781	19/32	.5938				
11/16	.6875	24	.6364	41/64	.6406	21/32	.6562	45/64	.7031	23/32	.7188
3/4	.7500	10	.6273	21/32	.6562	11/16	.6875	49/64	.7656	25/32	.7812
		16	.6733	11/16	.6875	45/64	.7031				
		20	.6887	45/64	.7031	23/32	.7188				
13/16	.8125	20	.7512	49/64	.7656	25/32	.7812	53/64	.8281	27/32	.8438
7/8	.8750	9	.7387	49/64	.7656	51/64	.7969	57/64	.8906	29/32	.9062
		14	.7874	13/16	.8125	53/64	.8281				
		20	.8137	53/64	.8281	27/32	.8438				
15/16	.9375	20	.8762	57/64	.8906	29/32	.9062	61/64	.9531	31/32	.9688
1	1.000	8	.8466	7/8	.8750	59/64	.9219	1-1/64	1.0156	1-1/32	1.0313
		12	.8978	15/16	.9375	61/64	.9531				
		20	.9387	61/64	.9531	31/32	.9688				

Metric Tap & Clearance Drill Sizes		Tap Drill				Clearance Drill			
		75% Thread for Aluminum, Brass, & Plastics		50% Thread for Steel, Stainless, & Iron		Close Fit		Standard Fit	
Screw Size (mm)	Thread Pitch (mm)	Drill Size (mm)	Closest American Drill	Drill Size (mm)	Closest American Drill	Drill Size (mm)	Closest American Drill	Drill Size (mm)	Closest American Drill
M1.5	0.35	1.15	56	1.25	55	1.60	1/16	1.65	52
M1.6	0.35	1.25	55	1.35	54	1.70	51	1.75	50
M 1.8	0.35	1.45	53	1.55	1/16	1.90	49	2.00	5/64
M 2	0.45	1.55	1/16	1.70	51	2.10	45	2.20	44
	0.40	1.60	52	1.75	50				
M 2.2	0.45	1.75	50	1.90	48	2.30	3/32	2.40	41
M 2.5	0.45	2.05	46	2.20	44	2.65	37	2.75	7/64
M 3	0.60	2.40	41	2.60	37	3.15	1/8	3.30	30
	0.50	2.50	39	2.70	36				
M 3.5	0.60	2.90	32	3.10	31	3.70	27	3.85	24
M 4	0.75	3.25	30	3.50	28	4.20	19	4.40	17
	0.70	3.30	30	3.50	28				
M 4.5	0.75	3.75	25	4.00	22	4.75	13	5.00	9
M 5	1.00	4.00	21	4.40	11/64	5.25	5	5.50	7/32
	0.90	4.10	20	4.40	17				
	0.80	4.20	19	4.50	16				
M 5.5	0.90	4.60	14	4.90	10	5.80	1	6.10	B
M 6	1.00	5.00	8	5.40	4	6.30	E	6.60	G
	0.75	5.25	4	5.50	7/32				
M 7	1.00	6.00	B	6.40	E	7.40	L	7.70	N
	0.75	6.25	D	6.50	F				
M 8	1.25	6.80	H	7.20	J	8.40	Q	8.80	S
	1.00	7.00	J	7.40	L				
M 9	1.25	7.80	N	8.20	P	9.50	3/8	9.90	25/64
	1.00	8.00	O	8.40	21/64				
M 10	1.50	8.50	R	9.00	T	10.50	Z	11.00	7/16
	1.25	8.80	11/32	9.20	23/64				
	1.00	9.00	T	9.40	U				
M 11	1.50	9.50	3/8	10.00	X	11.60	29/64	12.10	15/32
M 12	1.75	10.30	13/32	10.90	27/64	12.60	1/2	13.20	33/64
	1.50	10.50	Z	11.00	7/16				
	1.25	10.80	27/64	11.20	7/16				
M 14	2.00	12.10	15/32	12.70	1/2	14.75	37/64	15.50	39/64
	1.50	12.50	1/2	13.00	33/64				
	1.25	12.80	1/2	13.20	33/64				
M 15	1.50	13.50	17/32	14.00	35/64	15.75	5/8	16.50	21/32
M 16	2.00	14.00	35/64	14.75	37/64	16.75	21/32	17.50	11/16
	1.50	14.50	37/64	15.00	19/32				
M 17	1.50	15.50	39/64	16.00	5/8	18.00	45/64	18.50	47/64
M 18	2.50	15.50	39/64	16.50	41/64	19.00	3/4	20.00	25/32
	2.00	16.00	5/8	16.75	21/32				
	1.50	16.50	21/32	17.00	43/64				
M 19	2.50	16.50	21/32	17.50	11/16	20.00	25/32	21.00	53/64
M 20	2.50	17.50	11/16	18.50	23/32	21.00	53/64	22.00	55/64
	2.00	18.00	45/64	18.50	47/64				
	1.50	18.50	47/64	19.00	3/4				