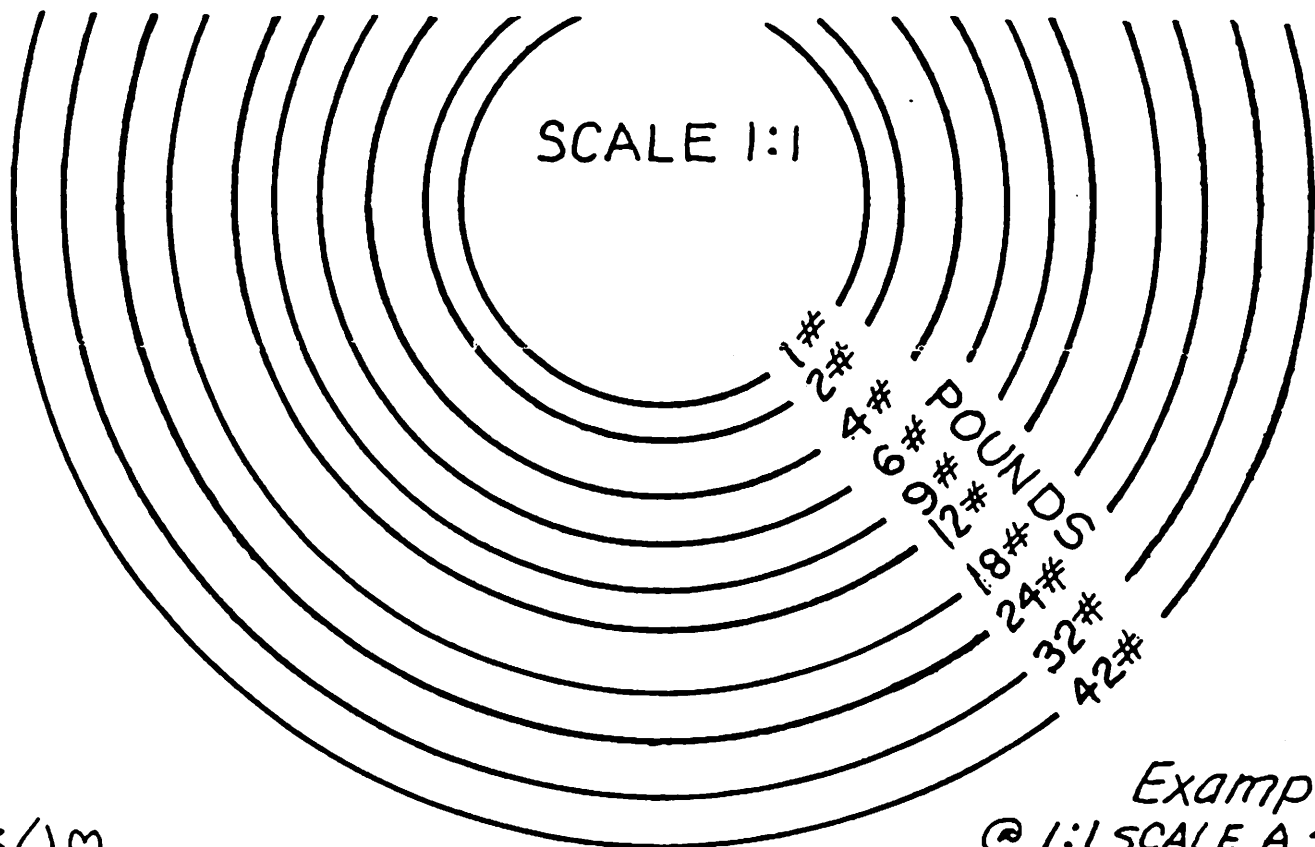


How to determine CANNON BALL SIZES

MEASUREMENT CONVERSION (M)
CANNON BALLS

POUNDS	SCALE	DIAMETER IN INCHES					
		1:1	1:24	1:32	1:48	1:64	1:96
1		1.92	.080	.060	.040	.030	.020
2		2.42	.101	.076	.051	.038	.026
4		3.05	.127	.095	.064	.047	.032
6		3.49	.145	.109	.073	.055	.036
9		4.00	.167	.125	.084	.063	.042
12		4.40	.183	.138	.092	.069	.046
18		5.04	.210	.158	.105	.079	.052
24		5.55	.231	.173	.116	.086	.058
32		6.11	.255	.191	.128	.095	.064
42		6.68	.278	.208	.139	.104	.070



ACTUAL SIZE

Examples -
@ 1:1 SCALE A 42# BALL IS 6.68" D.,
9# BALL IS 4.00" D.

MEASUREMENT CONVERSION

118

SCALE MEASUREMENT CONVERSION SHEET

SCALE = 60 : 1 (1/5 Inch = 1 Foot)

Scale Feet	MM	INCH	Scale Feet	MM	INCH
1	5.0800	0.2000	51	259.0800	10.2000
2	10.1600	0.4000	52	264.1600	10.4000
3	15.2400	0.6000	53	269.2400	10.6000
4	20.3200	0.8000	54	274.3200	10.8000
5	25.4000	1.0000	55	279.4000	11.0000
6	30.4800	1.2000	56	284.4800	11.2000
7	35.5600	1.4000	57	289.5600	11.4000
8	40.6400	1.6000	58	294.6400	11.6000
9	45.7200	1.8000	59	299.7200	11.8000
10	50.8000	2.0000	60	304.8000	12.0000
11	55.8800	2.2000	61	309.8800	12.2000
12	60.9600	2.4000	62	314.9600	12.4000
13	66.0400	2.6000	63	320.0400	12.6000
14	71.1200	2.8000	64	325.1200	12.8000
15	76.2000	3.0000	65	330.2000	13.0000
16	81.2800	3.2000	66	335.2800	13.2000
17	86.3600	3.4000	67	340.3600	13.4000
18	91.4400	3.6000	68	345.4400	13.6000
19	96.5200	3.8000	69	350.5200	13.8000
20	101.6000	4.0000	70	355.6000	14.0000
21	106.6800	4.2000	71	360.6800	14.2000
22	111.7600	4.4000	72	365.7600	14.4000
23	116.8400	4.6000	73	370.8400	14.6000
24	121.9200	4.8000	74	375.9200	14.8000
25	127.0000	5.0000	75	381.0000	15.0000
26	132.0800	5.2000	76	386.0800	15.2000
27	137.1600	5.4000	77	391.1600	15.4000
28	142.2400	5.6000	78	396.2400	15.6000
29	147.3200	5.8000	79	401.3200	15.8000
30	152.4000	6.0000	80	406.4000	16.0000
31	157.4800	6.2000	81	411.4800	16.2000
32	162.5600	6.4000	82	416.5600	16.4000
33	167.6400	6.6000	83	421.6400	16.6000
34	172.7200	6.8000	84	426.7200	16.8000
35	177.8000	7.0000	85	431.8000	17.0000
36	182.8800	7.2000	86	436.8800	17.2000
37	187.9600	7.4000	87	441.9600	17.4000
38	193.0400	7.6000	88	447.0400	17.6000
39	198.1200	7.8000	89	452.1200	17.8000
40	203.2000	8.0000	90	457.2000	18.0000
41	208.2800	8.2000	91	462.2800	18.2000
42	213.3600	8.4000	92	467.3600	18.4000
43	218.4400	8.6000	93	472.4400	18.6000
44	223.5200	8.8000	94	477.5200	18.8000
45	228.6000	9.0000	95	482.6000	19.0000
46	233.6800	9.2000	96	487.6800	19.2000
47	238.7600	9.4000	97	492.7600	19.4000
48	243.8400	9.6000	98	497.8400	19.6000
49	248.9200	9.8000	99	502.9200	19.8000
50	254.0000	10.0000	100	508.0000	20.0000

MEASUREMENT CONVERSION

M.91

SCALE MEASUREMENT CONVERSION SHEET

SCALE = 60 : 1 (1/5 Inch = 1 Foot)

Scale Inch	MM	INCH	Scale Inch	MM	INCH
0	0.0000	0.0000	6	2.5400	0.1000
.125	0.0529	0.0021	6.125	2.5929	0.1021
.25	0.1058	0.0042	6.25	2.6458	0.1042
.375	0.1588	0.0062	6.375	2.6987	0.1063
.5	0.2117	0.0083	6.5	2.7517	0.1083
.625	0.2646	0.0104	6.625	2.8046	0.1104
.75	0.3175	0.0125	6.75	2.8575	0.1125
.875	0.3704	0.0146	6.875	2.9104	0.1146
1	0.4233	0.0167	7	2.9633	0.1167
1.125	0.4763	0.0187	7.125	3.0163	0.1187
1.25	0.5292	0.0208	7.25	3.0692	0.1208
1.375	0.5821	0.0229	7.375	3.1221	0.1229
1.5	0.6350	0.0250	7.5	3.1750	0.1250
1.625	0.6879	0.0271	7.625	3.2279	0.1271
1.75	0.7408	0.0292	7.75	3.2808	0.1292
1.875	0.7938	0.0312	7.875	3.3337	0.1313
2	0.8467	0.0333	8	3.3867	0.1333
2.125	0.8996	0.0354	8.125	3.4396	0.1354
2.25	0.9525	0.0375	8.25	3.4925	0.1375
2.375	1.0054	0.0396	8.375	3.5454	0.1396
2.5	1.0583	0.0417	8.5	3.5983	0.1417
2.625	1.1112	0.0437	8.625	3.6513	0.1438
2.75	1.1642	0.0458	8.75	3.7042	0.1458
2.875	1.2171	0.0479	8.875	3.7571	0.1479
3	1.2700	0.0500	9	3.8100	0.1500
3.125	1.3229	0.0521	9.125	3.8629	0.1521
3.25	1.3758	0.0542	9.25	3.9158	0.1542
3.375	1.4287	0.0563	9.375	3.9687	0.1562
3.5	1.4817	0.0583	9.5	4.0217	0.1583
3.625	1.5346	0.0604	9.625	4.0746	0.1604
3.75	1.5875	0.0625	9.75	4.1275	0.1625
3.875	1.6404	0.0646	9.875	4.1804	0.1646
4	1.6933	0.0667	10	4.2333	0.1667
4.125	1.7462	0.0687	10.125	4.2862	0.1687
4.25	1.7992	0.0708	10.25	4.3392	0.1708
4.375	1.8521	0.0729	10.375	4.3921	0.1729
4.5	1.9050	0.0750	10.5	4.4450	0.1750
4.625	1.9579	0.0771	10.625	4.4979	0.1771
4.75	2.0108	0.0792	10.75	4.5508	0.1792
4.875	2.0637	0.0813	10.875	4.6038	0.1812
5	2.1167	0.0833	11	4.6567	0.1833
5.125	2.1696	0.0854	11.125	4.7096	0.1854
5.25	2.2225	0.0875	11.25	4.7625	0.1875
5.375	2.2754	0.0896	11.375	4.8154	0.1896
5.5	2.3283	0.0917	11.5	4.8683	0.1917
5.625	2.3813	0.0937	11.625	4.9213	0.1938
5.75	2.4342	0.0958	11.75	4.9742	0.1958
5.875	2.4871	0.0979	11.875	5.0271	0.1979

MEASUREMENT CHART - DECIMAL EQUIVALENTS

M10

Decimal Equivalents

OF WIRE, LETTER AND FRACTIONAL SIZES

Drill Size	Decimal	Drill Size	Decimal	Drill Size	Decimal	Drill Size	Decimal
80	.0135	42	.0935	13/64	.2031	X	.3970
79	.0145	3/32	.0938	6	.2040	Y	.4040
1/64	.0156	41	.0960	5	.2055	13/32	.4062
78	.0160	40	.0980	4	.2090	Z	.4130
77	.0180	39	.0995	3	.2130	2 3/4	.4219
76	.0200	38	.1015	7/32	.2188	7/16	.4375
75	.0210	37	.1040	2	.2210	2 3/4	.4531
74	.0225	36	.1065	1	.2280	15/32	.4688
73	.0240	7/64	.1094	A	.2340	3 1/4	.4844
72	.0250	35	.1100	15/64	.2344	1/2	.5000
71	.0260	34	.1110	B	.2380	3 3/4	.5156
70	.0280	33	.1130	C	.2420	1 1/2	.5313
69	.0292	32	.1160	D	.2460	3 3/4	.5469
68	.0310	31	.1200	1/4	.2500	9/16	.5625
1/32	.0313	1/8	.1250	E	.2500	3 3/4	.5781
67	.0320	30	.1285	F	.2570	1 1/2	.5938
66	.0330	29	.1360	G	.2610	3 3/4	.6094
65	.0350	28	.1405	17/64	.2656	5/8	.6250
64	.0360	9/64	.1406	H	.2660	4 1/4	.6406
63	.0370	27	.1440	I	.2720	2 1/2	.6562
62	.0380	26	.1470	J	.2770	4 3/4	.6719
61	.0390	25	.1495	K	.2810	11/16	.6875
60	.0400	24	.1520	9/32	.2812	4 3/4	.7031
59	.0410	23	.1540	L	.2900	2 3/2	.7188
58	.0420	5/32	.1562	M	.2950	4 3/4	.7344
57	.0430	22	.1570	19/64	.2969	3/4	.7500
56	.0465	21	.1590	N	.3020	4 3/4	.7656
3/64	.0469	20	.1610	5/16	.3125	2 3/2	.7812
55	.0520	19	.1660	O	.3160	5 1/4	.7969
54	.0550	18	.1695	P	.3230	13/16	.8125
53	.0595	11/64	.1719	21/64	.3281	5 3/4	.8281
1/16	.0625	17	.1730	Q	.3320	2 3/2	.8438
52	.0635	16	.1770	R	.3390	5 3/4	.8594
51	.0670	15	.1800	11/32	.3438	7/8	.8750
50	.0700	14	.1820	S	.3480	5 3/4	.8906
49	.0730	13	.1850	T	.3580	2 3/2	.9062
48	.0760	3/16	.1875	23/64	.3594	5 3/4	.9219
5/64	.0781	12	.1890	U	.3680	15/16	.9375
47	.0785	11	.1910	3/8	.3750	6 1/4	.9531
46	.0810	10	.1935	V	.3770	2 3/2	.9688
45	.0820	9	.1960	W	.3860	6 3/4	.9844
44	.0860	8	.1990	25/64	.3906	1	1.0000
43	.0890	7	.2010				

MEASUREMENT CHART - JEWELERS BLADES

JEWELERS SAW BLADES, THICKNESS AND WIDTH IN INCHES

M-1

Size	Thickness		Width		Teeth Per
	mm.	Inches	mm.	Inch	Inches
8/0	.18	.007	.31	.012	98
7/0	.16	.007	.31	.012	86
6/0	.21	.008	.36	.014	64
5/0	.24	.008	.37	.015	78
4/0	.25	.010	.42	.016	68
3/0	.28	.011	.45	.018	64
2/0	.32	.013	.50	.020	64
0	.34	.013	.51	.020	56
1	.36	.014	.56	.022	56
2	.42	.016	.63	.025	52
3	.43	.017	.74	.029	48
4	.45	.018	.75	.030	45
5	.47	.019	.78	.031	44
6	.50	.020	.83	.033	40
7	.55	.022	.92	.036	36
8	.58	.023	1.03	.041	30
9	.61	.024	1.15	.045	27
10	.65	.026	1.25	.049	24
12	.68	.027	1.51	.059	19
14	.69	.027	1.71	.067	16

COMPARISON OF SAW BLADE SIZES AND DRILLS

SAW BLADE SIZES

No.	Drill
8/0	60
7/0	60
6/0	79
5/0	78
4/0	77
3/0	76
2/0	75
0	73
1	71
2	70
3	68
4	67
5	65
6	58
8	55
10	51
12	51
14	50

4/0	_____
3/0	_____
2/0	_____
0	_____
1	_____
2	_____
3	_____
4	_____
5	_____
6	_____
8	_____
10	_____
12	_____
14	_____

M12

IMPERIAL/METRIC CONVERSION TABLES

12 inches = 1 foot

FEET AND INCHES TO METRES

Inches	Feet										
	0	2	3	4	5	6	7	8	9	10	
1	.0254	0.3048	0.6096	0.9144	1.2192	1.5240	1.8288	2.1336	2.4384	2.7432	3.0480
2	0.0508	0.3302	0.6350	0.9398	1.2446	1.5494	1.8542	2.1590	2.4638	2.7686	3.0734
3	0.0762	0.3810	0.6858	0.9906	1.2954	1.6002	1.9050	2.2098	2.5146	2.8194	3.1242
4	0.1016	0.4064	0.7112	1.0160	1.3208	1.6256	1.9304	2.2352	2.5400	2.8448	3.1496
5	0.1270	0.4318	0.7366	1.0414	1.3462	1.6510	1.9558	2.2606	2.5654	2.8702	3.1750
6	0.1524	0.4572	0.7620	1.0668	1.3716	1.6764	1.9812	2.2860	2.5908	2.8956	3.2004
7	0.1778	0.4826	0.7874	1.0922	1.3970	1.7018	2.0066	2.3114	2.6162	2.9210	3.2258
8	0.2032	0.5080	0.8128	1.1176	1.4224	1.7272	2.0320	2.3368	2.6416	2.9464	3.2512
9	0.2286	0.5334	0.8382	1.1430	1.4478	1.7526	2.0574	2.3622	2.6670	2.9718	3.2766
10	0.2540	0.5588	0.8636	1.1684	1.4732	1.7780	2.0828	2.3876	2.6924	2.9972	3.3020
11	0.2794	0.5842	0.8890	1.1938	1.4986	1.8034	2.1082	2.4130	2.7178	3.0226	3.3274

INCHES AND INCH FRACTIONS TO MILLIMETRES

Inch fraction	INCHES											
	0	1	2	3	4	5	6	7	8	9	10	11
1/16	1.6	27.0	52.4	77.8	103.2	128.6	154.0	179.4	204.8	230.2	255.6	281.0
1/8	3.2	28.6	54.0	79.4	104.8	130.2	155.6	181.0	206.0	231.8	257.2	282.6
3/16	4.8	30.2	55.6	81.0	106.4	131.8	157.2	182.6	208.0	233.4	258.8	284.2
1/4	6.4	31.8	57.2	82.6	108.0	133.4	158.8	184.2	209.6	235.0	260.4	285.8
5/16	7.9	33.3	58.7	84.1	109.5	134.9	160.3	185.7	211.1	236.5	261.9	287.3
3/8	9.5	34.9	60.3	85.7	111.1	136.5	161.9	187.3	212.7	238.1	263.5	288.9
7/16	11.1	36.5	61.9	87.3	112.7	138.1	163.5	188.9	214.3	239.7	265.1	290.5
1/2	12.7	38.1	63.5	88.9	114.3	139.7	165.1	190.5	215.9	241.3	266.7	292.1
9/16	14.3	39.7	65.1	90.5	115.9	141.3	166.7	192.1	217.5	242.9	268.3	293.7
5/8	15.9	41.3	66.7	92.1	117.5	142.9	168.3	193.7	219.1	244.5	269.9	295.3
11/16	17.5	42.9	68.3	93.7	119.1	144.5	169.9	195.3	220.7	246.1	271.5	296.9
3/4	19.1	44.5	69.9	95.3	120.7	146.1	171.5	196.9	222.3	247.7	273.1	298.5
13/16	20.6	46.0	71.4	96.8	122.2	147.6	173.0	198.4	223.8	249.2	274.6	300.0
7/8	22.2	47.6	73.0	98.4	123.8	149.2	174.6	200.0	225.4	250.8	276.2	301.6
15/16	23.8	49.2	74.6	100.0	125.4	150.8	176.2	201.6	227.0	252.4	277.8	303.2

MILLIMETRES TO INCHES

mm	0	1	2	3	4	5	6	7	8	9
0	—	0.0394	0.0787	0.1181	0.1575	0.1969	0.2362	0.2756	0.3150	0.3543
10	0.3937	0.4331	0.4724	0.5118	0.5512	0.5906	0.6299	0.6693	0.7087	0.7480
20	0.7874	0.8268	0.8661	0.9055	0.9449	0.9843	1.0236	1.0630	1.1024	1.1417
30	1.1811	1.2205	1.2598	1.2992	1.3386	1.3780	1.4173	1.4567	1.4961	1.5354
40	1.5748	1.6142	1.6535	1.6929	1.7323	1.7717	1.8110	1.8504	1.8898	1.9291
50	1.9685	2.0079	2.0472	2.0866	2.1260	2.1654	2.2047	2.2441	2.2835	2.3228
60	2.3622	2.4016	2.4409	2.4803	2.5197	2.5591	2.5984	2.6378	2.6772	2.7165
70	2.7559	2.7953	2.8347	2.8740	2.9134	2.9528	2.9921	3.0315	3.0709	3.1102
80	3.1496	3.1890	3.2284	3.2677	3.3071	3.3465	3.3858	3.4252	3.4646	3.5039
90	3.5433	3.5827	3.6221	3.6614	3.7008	3.7402	3.7795	3.8189	3.8583	3.8976

POUNDS TO KILOGRAMS

(Note: To convert to grams, multiply by 1,000)

	.1	.2	.3	.4	.5	.6	.7	.8	.9
1	.4536	.4990	.5443	.5897	.6350	.6804	.7258	.7711	.8165
2	.9072	.9625	1.0178	1.0731	1.1284	1.1837	1.2390	1.2943	1.3496
3	1.3608	1.4061	1.4515	1.4969	1.5422	1.5876	1.6329	1.6783	1.7237
4	1.8144	1.8597	1.9051	1.9505	1.9958	2.0412	2.0866	2.1319	2.1773
5	2.2680	2.3133	2.3587	2.4040	2.4494	2.4948	2.5401	2.5855	2.6308
6	2.7216	2.7670	2.8123	2.8576	2.9030	2.9484	2.9937	3.0391	3.0844
7	3.1752	3.2205	3.2659	3.3112	3.3566	3.4019	3.4473	3.4927	3.5380
8	3.6287	3.6741	3.7195	3.7648	3.8102	3.8555	3.9009	3.9463	3.9916
9	4.0823	4.1277	4.1731	4.2184	4.2638	4.3091	4.3545	4.3999	4.4452
10	4.5360	4.6268	4.6266	4.6720	4.7174	4.7627	4.8081	4.8534	4.9088

From Dick Roos:-----

MEASUREMENTS - MODEL (M1)
PROPORTIONS

ST'D MODEL PROPORTIONS & SCALES

METRIC FRACTIONS, WOULD BE 1/10, 1/20, 1/50, ETC		← FOR METRIC PROPORTION, DIVIDE BY 1000, 100 & 10			
SCALE PROPORTION TO FULL SIZE	PROPORTION PER INCH $S \div 12" = P$	DECIMAL OF INCH $100 \div P = D$	INCH PER FOOT SCALE (TO NEAREST FRACTION)		
1/12	1/1	1.000	1" = 1'		
1/14	1/1.16	0.857		7/8"	
1/16	1/1.3	.752	3/4"		
1/19	1/1.58	.633		5/8"	
1/24	1/2	.500	1/2"		
1/32	1/2.7	.370		3/8"	
1/36	1/3	.300			5/16"
• 1/48 - 1/50	1/4	.250	1/4"		
• 1/60	1/5	.200			3/16"
• 1/72 - 1/75	1/6	.167			5/32"
1/84	1/7	.143			9/64"
• 1/96 - 1/100	1/8	.125		1/8"	
1/108	1/9	.111			7/64"
• 1/120	1/10	.100			3/32"
• 1/150	1/12.5	.080			5/64"
1/200	1/16.7	.060			1/16"
1/300	1/25	.040			3/64"

POPULAR SHIP MODEL SCALES

MEASUREMENT CHART - RIGGING MATERIAL
by Don Dressel

M14

I have been talking about the different sizes of rigging line required when rigging ship models in articles which I have written. Since I have indicated that the required line sizes are not supplied in the kits, I thought I would update the different sizes of line available today from a previous article I had written several years ago.

The only option open to you if you do not want to purchase the different sizes of line is to make it, which is beyond the scope of many people.

Sources for the rigging line are your local hobby shop such as Century Models, or by mail from Model Shipways of Bogota, New Jersey, The Dromedary of El Paso, Texas, or The Dockyard Model Company, P.O. Box 8065, Colorado Springs, CO 80933. The address of the first two sources is in your directory.

Source		Diameter of Line	
		Millimeters	Inches (app.)
	1. Dockyard Model Company #140	0.076	0.003
S.540-.008	• 2. Model Shipways #100 (Docks-100) 2-1/2	0.10	0.004
• 541-.009	3. Model Shipways #80	0.13	0.005
• 542-.010	4. Model Shipways #60	0.15	0.006
	• 5. Mantua # MA435	0.25	0.0098
	• 6. Corel # C280	0.25	0.0098
	• 7. Model Shipways #868	0.33	0.013
	8. Dockyard Model Company	0.38	0.015
	• 9. Model Shipways #869	0.43	0.017
	• 10. Mantua # MA436	0.50	0.0197
	• 11. Corel # C281	0.50	0.0197
	12. Dockyard Model Company	0.51	0.020
	• 13. Model Shipways #870	0.63	0.025
	• 14. Mantua # MA437	0.75	0.0295
	15. Dockyard Model Company	0.76	0.030
	16. Model Shipways #871	0.79	0.031
	17. Corel # C282	0.80	0.0315
	18. Model Shipways #872	0.86	0.034
	19. Dockyard Model Company	0.89	0.035
	• 20. Mantua # MA438	1.00	0.0394
	21. Model Shipways #873	1.02	0.040
	22. Model Shipways #874	1.14	0.045
	23. Corel # C283	1.20	0.0472
	• 24. Mantua # MA439	1.25	0.0492
	25. Dockyard Model Company	1.27	0.050
	26. Model Shipways #875	1.35	0.053
	27. Model Shipways #876	1.47	0.058
	28. Dockyard Model Company	1.52	0.060
	29. Dockyard Model Company	1.65	0.065
	• 30. Mantua # MA439A	1.75	0.0689
	31. Dockyard Model Company	1.78	0.070
	32. Dockyard Model Company	1.90	0.075
	33. Corel # C284	2.00	0.0787
	34. Dockyard Model Company	2.03	0.080
	35. Dockyard Model Company	2.16	0.085
	36. Dockyard Model Company	2.28	0.090

This is all linen line which is the best line to use for your rigging when properly treated with wax before installation. I hope this article assists some of my fellow modellers in the S.M.A. in obtaining additional line to upgrade their model above the limited kit contents.

MEASUREMENT CHART - RIGGINGS

DIAMETER OF RIGGING LINE EQUALS -

Actual Circum. of Rope x scale inch in thousandths
3.1416

1/8" scale - 1 ft. = .125"

1 inch = $\frac{125}{12}$ = .0104"

3/16" scale - 1 ft. = .1875"

1 inch = $\frac{1875}{12}$ = .015625 or 1/4"

1/4" scale - 1 ft. = .250"

1 inch = $\frac{250}{12}$ = .020833"

The following are scale diameters in thousandths of an inch computed on a slide rule and rounded off to three digits.

Actual Circum. of Rope in Inches	1/8" Scale	3/16" Scale	1/4" Scale
1 *	.0033	.00498	.00665
1 1/2 *	.00497	.00746	.00998
+ 2 *	.00652	.0099	.0133
2 1/2 *	.0083	.0124	.0166
+ 3 *	.00994	.0149	.0199
3 1/2 *	.0116	.0174	.0233
+ 4 *	.0133	.020	.0266
+ 4 1/2 *	.0149	.0224	.030
+ 5	.0165	.025	.0332
5 1/2 *	.0182	.0274	.0366
+ 6	.0199	.0298	.0398
+ 7	.0232	.0348	.0465
+ 8	.0265	.0398	.0532
9	.0298	.0448	.0598
+ 10	.0331	.0498	.0665
11	.0364	.0547	.073
12	.0398	.0595	.080
+ 13	.043	.0648	.0864
14	.0465	.0695	.093
16	.053	.0796	.1063
18	.0596	.090	.119

* Most used sizes in running rigging
+ Most used sizes in standing rigging

— Joe Jerz

MEASUREMENT CHART - SAW BLADES

M16

JEWELERS SAW BLADES, THICKNESS AND WIDTH IN INCHES

Size	Thickness		Width		Teeth Per Inches
	mm.	Inches	mm.	Inch	
8/0	.18	.007	.31	.012	96
7/0	.18	.007	.31	.012	88
6/0	.21	.008	.35	.014	84
5/0	.24	.008	.37	.015	78
4/0	.25	.010	.42	.016	68
3/0	.28	.011	.45	.018	64
2/0	.32	.013	.50	.020	64
0	.34	.013	.51	.020	56
1	.36	.014	.56	.022	56
2	.42	.016	.63	.025	52
3	.43	.017	.74	.029	48
4	.45	.018	.75	.030	45
5	.47	.019	.78	.031	44
6	.50	.020	.83	.033	40
7	.55	.022	.92	.036	38
8	.58	.023	1.03	.041	30
9	.61	.024	1.15	.045	27
10	.65	.026	1.25	.049	24
12	.68	.027	1.51	.059	19
14	.69	.027	1.71	.067	16

COMPARISON OF SAW BLADE SIZES AND DRILLS

No.	Drill
8/0	80
7/0	80
6/0	79
5/0	78
4/0	77
3/0	76
2/0	75
0	73
1	71
2	70
3	68
4	67
5	65
6	58
8	55
10	51
12	51
14	50

SAW BLADE SIZES

4/0	_____
3/0	_____
2/0	_____
0	_____
1	_____
2	_____
3	_____
4	_____
5	_____
6	_____
8	_____
10	_____
12	_____
14	_____

MODEL SCALE CONVERSION CHART (By Roger Van DeWalker)

SCALE INCHES PER FOOT

ACTUAL SIZE IN INCHES	1/16 .0625" = 12"	1/8 .125" = 12"	5/32 .156" = 12"	3/16 .187" = 12"	1/4 .250" = 12"	3/8 .375" = 12"	1/2 .500" = 12"	3/4 .750" = 12"	ACTUAL SIZE IN INCHES
	1:192	1:96	1:77	1:64	1:48	1:32	1:24	1:16	
3/8	.002 IN.	.004 IN.	.005 IN.	.006 IN.	.0078 IN.	.012 IN.	.0156 (1/64)	.023 IN.	3/8
1/2	.003	.005	.007	.008	.010	.0156 (1/64)	.021	.0312 (1/32)	1/2
5/4	.004	.0078	.010	.012	.0156 (1/64)	.023	.0312 (1/32)	.0468 (3/64)	3/4
1	.005	.010	.013	.016	.021	.0312 (1/32)	.042	.0625 (1/16)	1
2	.010	.021	.026	.0312 (1/32)	.042	.0625 (1/16)	.083	.125 (1/8)	2
3	.0156 (1/64)	.0312 (1/32)	.039	.0468 (3/64)	.0625 (1/16)	.093 (3/32)	.125 (1/8)	.187 (3/16)	3
4	.021	.042	.052	.0625 (1/16)	.083	.125 (1/8)	.167	.250 (1/4)	4
5	.026	.052	.065	.078 (5/64)	.104	.156 (5/32)	.208	.312 (5/16)	5
6	.0312 (1/32)	.0625 (1/16)	.078 (5/64)	.093 (3/32)	.125 (1/8)	.187 (3/16)	.250 (1/4)	.375 (3/8)	6
7	.036	.073	.091	.109 (1/64)	.146	.218 (1/32)	.292	.437 (7/16)	7
8	.042	.083	.104	.125 (1/8)	.167	.250 (1/4)	.333	.500 (1/2)	8
9	.0468 (3/64)	.0937 (3/32)	.117	.140 (9/64)	.1875 (3/16)	.281 (9/32)	.375 (3/8)	.562 (9/16)	9
10	.052	.104	.130	.156 (5/32)	.208	.312 (5/16)	.417	.625 (5/8)	10
11	.057	.115	.143	.171 (11/64)	.229	.343 (11/32)	.458	.687 (11/16)	11
12	.0625 (1/16)	.125 (1/8)	.156 (5/32)	.1875 (3/16)	.250 (1/4)	.375 (3/8)	.500 (1/2)	.750 (3/4)	12
18	.0937 (3/32)	.1875 (3/16)	.233 (15/64)	.281 (9/32)	.375 (3/8)	.562 (9/16)	.750 (3/4)	1.125 (1 1/8)	18
24	.125 (1/8)	.250 (1/4)	.312 (5/16)	.375 (3/8)	.500 (1/2)	.750 (3/4)	1.000 (1")	1.500 (1 1/2)	24
30	.156 (5/32)	.3125 (5/16)	.390 (25/64)	.468 (15/32)	.625 (5/8)	.937 (15/16)	1.250 (1 1/4")	1.875 (1 7/8)	30
36	.1875 (3/16)	.375 (3/8)	.468 (15/32)	.562 (9/16)	.750 (3/4)	1.125 (1 1/8)	1.500 (1 1/2")	2.250 (2 1/4)	36
MALE AVERAGE PERSON 5'8"	.354	.708	.883	1.062 (1 1/16)	1.417	2.125 (2 1/8)	2.833	4.25 (4 1/4)	

MEASUREMENT SCALE CONVERSION

(M)