

SAPPHIRE[®]

DIAMOND CHAIN COMPANY



SAPPHIRE PRODUCT GUIDE



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Every Calling is Great, When Greatly Pursued.

OLIVER WENDELL HOLMES



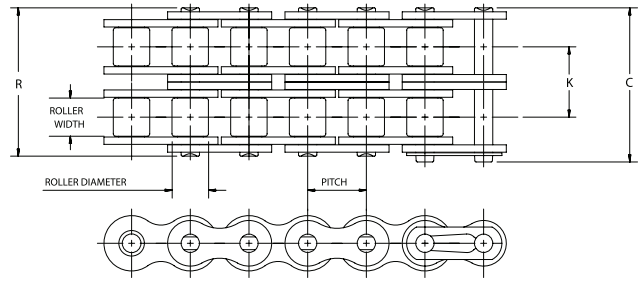
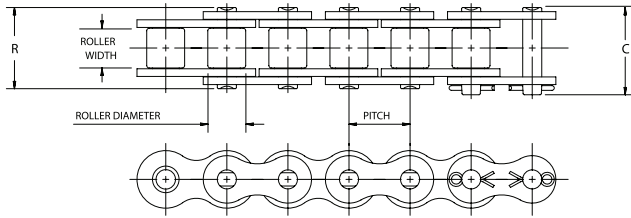
At the Diamond Chain Company, the calling to design and manufacture the world's highest-performing roller chain is greatly pursued every day by teams of passionate technical experts who have made your success their life's work. It's that intensity of focus that some of the world's greatest inventors trusted to provide the drive chains they needed to transform the world. From the Wright Brothers, to Henry Ford, to the global leaders of our time, Diamond® chain is the roller chain most trusted to perform, when performance matters most.



ASME / ANSI SERIES CHAIN

SINGLE AND MULTI-STRAND

Sapphire standard series chains are built to ASME/ANSI B29.1 standards.



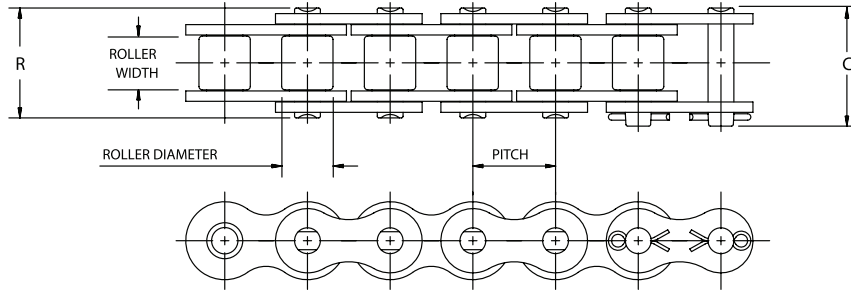
Dimensions in Inches

ASME/ANSI Number	Pitch Inches	Roller Width	Roller Diameter	Pin Diameter	Link Plate Thickness	C	R	K	Pounds Per Foot	Minimum Tensile Strength
25	1/4	1/8	*.130	.090	.030	0.37	0.34	....	0.084	780
35	3/8	3/16	*.200	.141	.050	0.56	0.50	....	0.210	1760
35-2	3/8	3/16	*.200	.141	.050	0.96	0.90	0.399	0.450	3520
40	1/2	5/16	.312	.156	.060	0.72	0.67	....	0.410	3125
40-2	1/2	5/16	.312	.156	.060	1.29	1.24	0.566	0.800	6250
40-3	1/2	5/16	.312	.156	.060	1.85	1.80	0.566	1.200	9375
41	1/2	3/4	.306	.141	.050	0.65	0.57	....	0.260	1500
50	5/8	3/8	.400	.200	.080	0.89	0.83	....	0.680	4880
50-2	5/8	3/8	.400	.200	.080	1.60	1.55	0.713	1.320	9760
50-3	5/8	3/8	.400	.200	.080	2.31	2.26	0.713	1.980	14640
60	3/4	1/2	.469	.234	.094	1.11	1.04	....	0.990	7030
60-2	3/4	1/2	.469	.234	.094	2.01	1.94	0.897	1.950	14060
60-3	3/4	1/2	.469	.234	.094	2.91	2.84	0.897	2.880	21090
80	1	5/8	.625	.312	.125	1.44	1.32	....	1.730	12500
80-2	1	5/8	.625	.312	.125	2.59	2.47	1.153	3.370	25000
100	1 1/4	3/4	.750	.375	.156	1.73	1.61	....	2.510	19530
100-2	1 1/4	3/4	.750	.375	.156	3.14	3.02	1.408	4.910	39060
120	1 1/2	1	.875	.437	.187	2.14	2.00	....	3.690	28125
120-2	1 1/2	1	.875	.437	.187	3.93	3.79	1.789	7.350	56250
140	1 3/4	1	1.000	.500	.219	2.31	2.14	....	5.000	38280
140-2	1 3/4	1	1.000	.500	.219	4.24	4.07	1.924	9.650	76560
160	2	1 1/4	1.125	.562	.250	2.73	2.54	....	6.530	50000
160-2	2	1 1/4	1.125	.562	.250	5.04	4.85	2.305	12.830	100000
180	2 1/4	1 13/32	1.406	.687	.281	3.15	2.88	....	9.060	63280
180-2	2 1/4	1 13/32	1.406	.687	.281	5.87	5.51	2.592	17.510	126677
200	2 1/2	1 1/2	1.562	.781	.312	3.44	3.12	....	10.650	78125
200-2	2 1/2	1 1/2	1.562	.781	.312	6.26	5.94	2.817	21.500	156250
240	3	1 7/8	1.875	.937	.375	4.06	3.72	....	16.400	112500

*Chains are rollerless - dimension shown is bushing diameter.

HEAVY SERIES CHAIN

Sapphire heavy series chains are built to ASME/ANSI B29.1 standards.



Dimensions in Inches

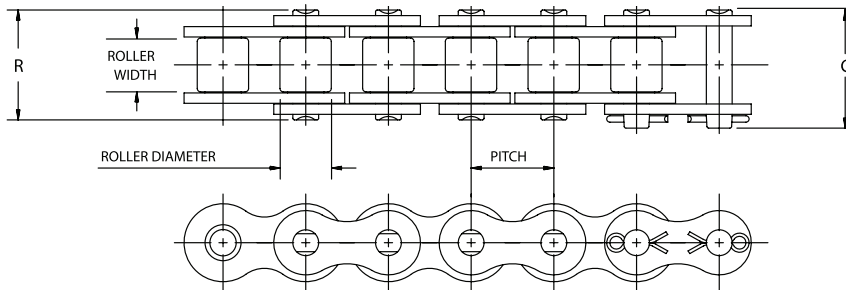
ASME/ANSI Number	Pitch Inches	Roller Width	Roller Diameter	Pin Diameter	Link Plate Thickness	C	R	Pounds Per Foot	Average Tensile Strength
50H	5/8	3/8	.400	.200	.094	0.93	0.86	0.85	5886
60H	3/4	1/2	.469	.234	.125	1.24	1.17	1.18	8500
80H	1	5/8	.625	.312	.156	1.57	1.45	2.02	14500
100H	1 1/4	3/4	.750	.375	.187	1.86	1.74	2.82	24000
120H	1 1/2	1	.875	.437	.219	2.27	2.13	4.08	34000
140H	1 3/4	1	1.000	.500	.250	2.44	2.28	5.40	46000
160H	2	1 1/4	1.125	.562	.281	2.86	2.68	7.03	58000
200H	2 1/2	1 1/2	1.562	.781	.375	3.84	3.43	13.38	119000

NOTE: Heavy series chains are not necessarily stronger than standard series chains, but thicker link plate material provides an increase in fatigue resistance for drives subject to heavy shock.



NON-STANDARD SERIES CHAIN

Sapphire non-standard series chains were built prior to the adoption of the ASME/ANSI standards and have non-standard dimensions.

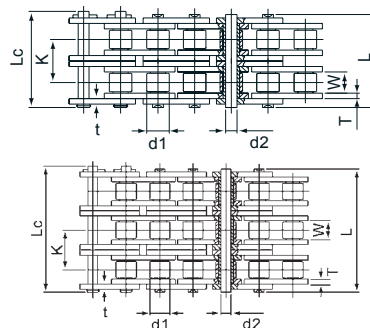
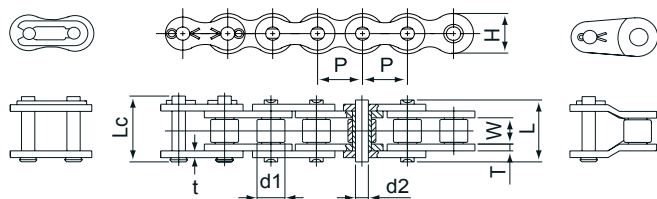


Dimensions in Inches

Chain Number	Pitch Inches	Roller Width	Pin Diameter	Roller Diameter	Link Plate Thickness	C	R	Pounds Per Foot	Average Tensile Strength
65 x 1/8	1/2	1/8	.141	.306	.040	.46	.42	.180	2050

ISO / BRITISH STANDARD SERIES CHAIN

Sapphire ISO/British Standard series chain is manufactured to the International Standards Organization metric dimensions (ISO 606), British Standard (BS 228), and DIN 8187.



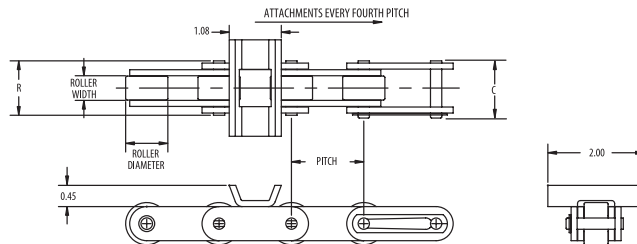
Dimensions in Inches

ISO / British Standard Number	Pitch P Inches	Roller Width W min inches	Roller Diameter d1 max inches	Pin Outer Diameter d2 max inches	Inner Link Plate Thickness T inches	Outer Link Plate Thickness t inches	Pin Length Lc max inches	Pin Length L max inches	K inches	Pounds per Foot	Average Tensile Strength
05B-1	8 mm	0.118	0.197	0.091	0.033	0.033	0.46	0.339	....	0.15	1100
06B-1*	3/8	0.225	0.250	0.129	0.050	0.039	0.661	0.531	....	0.30	2000
06B-2*	3/8	0.225	0.250	0.129	0.050	0.039	1.067	0.937	0.403	0.540	3800
08B-1	1/2	0.305	0.335	0.175	0.060	0.060	0.823	0.669	....	0.500	4000
08B-2	1/2	0.305	0.335	0.175	0.060	0.060	1.374	1.220	0.548	0.940	7000
08B-3	1/2	0.305	0.335	0.175	0.060	0.060	1.819	1.752	0.548	1.340	11000
10B-1	5/8	0.380	0.400	0.200	0.060	0.060	0.933	0.772	....	0.640	5000
10B-2	5/8	0.380	0.400	0.200	0.060	0.060	1.587	1.425	0.653	1.260	10000
10B-3	5/8	0.380	0.400	0.200	0.060	0.060	2.126	2.052	0.653	1.880	15000
12B-1	3/4	0.460	0.475	0.225	0.071	0.071	1.075	0.894	....	0.800	6500
12B-2	3/4	0.460	0.475	0.225	0.071	0.071	1.843	1.661	0.766	1.570	13000
12B-3	3/4	0.460	0.475	0.225	0.071	0.071	2.488	2.410	0.766	2.550	19500
16B-1	1	0.670	0.625	0.326	0.157	0.126	1.531	1.319	....	1.830	13500
16B-2	1	0.670	0.625	0.326	0.157	0.126	2.890	2.677	1.260	3.610	24000
16B-3	1	0.670	0.625	0.326	0.157	0.126	4.004	3.926	1.260	5.360	36000
20B-1	1 1/4	0.770	0.750	0.401	0.185	0.185	1.941	1.701	....	2.610	21000
20B-2	1 1/4	0.770	0.750	0.401	0.185	0.185	3.378	3.138	1.435	5.150	38000
20B-3	1 1/4	0.770	0.750	0.401	0.185	0.185	4.575	4.452	1.435	7.700	56000
24B-1	1 1/2	1.000	1.000	0.576	0.248	0.248	2.362	2.102	....	4.750	36000
24B-2	1 1/2	1.000	1.000	0.576	0.248	0.248	4.268	4.008	1.904	9.390	63000
24B-3	1 1/2	1.000	1.000	0.576	0.248	0.248	6.098	5.912	1.904	14.620	95500
28B-1	1 3/4	1.100	1.100	0.626	0.307	0.307	2.850	2.560	....	6.350	45000
28B-2	1 3/4	1.100	1.100	0.626	0.307	0.307	5.173	4.882	2.344	12.630	81000
28B-3	1 3/4	1.100	1.100	0.626	0.307	0.307	7.443	7.246	2.344	18.950	119000
32B-1	2	1.220	1.150	0.701	0.287	0.287	2.960	2.650	....	6.890	56000
32B-2	2	1.220	1.150	0.701	0.287	0.287	5.272	4.960	2.305	13.510	101000
32B-3	2	1.220	1.150	0.701	0.287	0.287	7.358	7.138	2.305	20.100	151000
40B-1	2 1/2	1.500	1.900	0.901	0.346	0.346	3.646	3.252	....	10.990	80000
40B-2	2 1/2	1.500	1.900	0.901	0.346	0.346	6.457	6.063	2.846	21.500	142000
40B-3	2 1/2	1.500	1.900	0.901	0.346	0.346	9.014	8.786	2.846	32.090	213500

*Straight Side Bar.

SPECIALTY APPLICATION CHAIN

Sapphire specialty application series chain is available for a variety of applications including agriculture and motor sports.

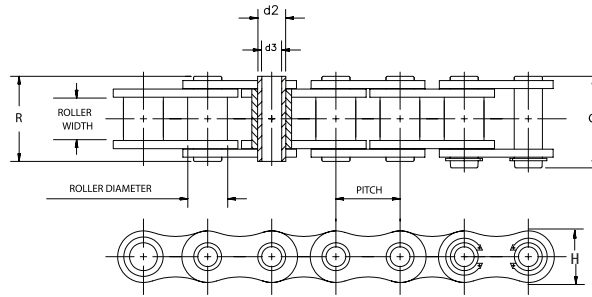


COTTON MODULE CHAIN

Dimensions in Inches

ASME/ANSI Number	Pitch	Roller Width	Roller Diameter	Pin Diameter	C	R	Link Plate Thickness	Minimum Tensile Strength
C2062H CM	1 1/2	1/2	.875	.234	1.25	1.18	.125	7030

HOLLOW PIN

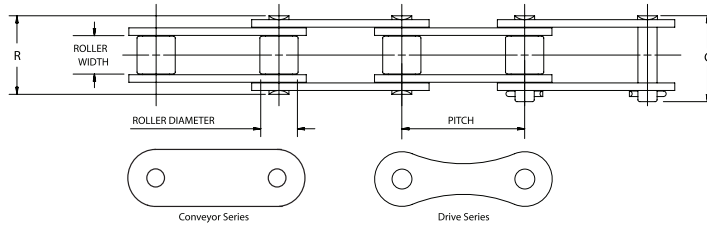


Dimensions in Inches

ASME/ANSI Number	Pitch Inches	Roller Width	Roller Diameter *	Pin Outer Diameter d2	Pin Inner Diameter d3	Link Plate Height H	Link Plate Thickness	C	R	Pounds Per Foot	Minimum Tensile Strength
40HP	0.500	0.309	0.312	0.222	0.157	0.472	0.059	0.693	0.650	0.390	2205
50HP	0.625	0.370	0.400	0.277	0.202	0.594	0.079	0.862	0.815	0.637	4079
60HP	0.750	0.495	0.469	0.327	0.236	0.709	0.094	1.055	1.016	0.939	5732
80HP	1	0.620	0.625	0.449	0.317	0.945	0.126	1.331	1.280	1.697	11023
C2040HP	1	0.309	0.312	0.222	0.157	0.472	0.059	0.693	0.650	0.305	2205
C2050HP	1 1/4	0.370	0.400	0.284	0.202	0.591	0.079	0.862	0.815	0.500	4079
C2060HP	1 1/2	0.495	0.469	0.327	0.236	0.669	0.094	1.055	1.015	0.93	5732
C2062H HP	1 1/2	0.495	0.875	0.327	0.236	0.669	0.126	1.055	1.015	1.30	5732
C2080HP	2	0.620	0.625	0.449	0.317	0.945	0.126	1.331	1.280	1.21	11023
C2082H HP	2	0.620	1.125	0.449	0.317	0.945	0.156	1.480	1.425	1.58	11023

*Chain is rollerless - dimension shown is bushing diameter.

AGRICULTURE CHAIN



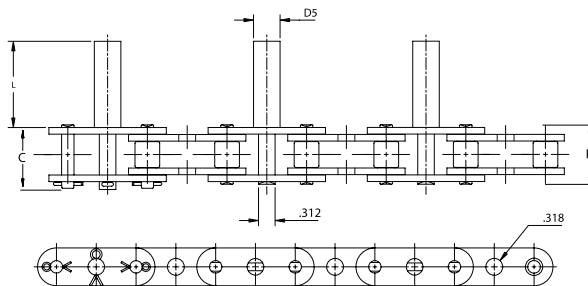
Dimensions in Inches

ASME/ANSI Number	Pitch Inches	Roller Width	Roller Diameter	Pin Diameter	Link Plate Thickness	C	R	Pounds Per Foot	Average Tensile Strength
Conveyor Series									
CA550	1.63	51/64	.656	.283	.105	1 9/16	1 3/8	1.30	12125
CA555	1.63	1/2	.656	.283	.125	1 1/4	1 3/16	1.21	13228
CA557	1.63	51/64	.700	.315	.125	1 19/32	1 15/32	1.72	16535
CA620	1.654	63/64	.696	.283	.125	1 27/32	1 41/64	1.57	13228
C2060H	1.50	1/2	.469	.235	.125	1 1/4	1 3/16	1.05	9700
Drive Series									
A550	1.63	51/64	.656	.283	.105	1 9/16	1 3/8	1.10	12125
A620	1.654	63/64	.696	.283	.125	1 27/32	1 41/64	1.38	13228

CITRUS CHAIN

Dimensions in Inches

Type	D5	"L"
1	1/2	1.625
2	9/16	1.625



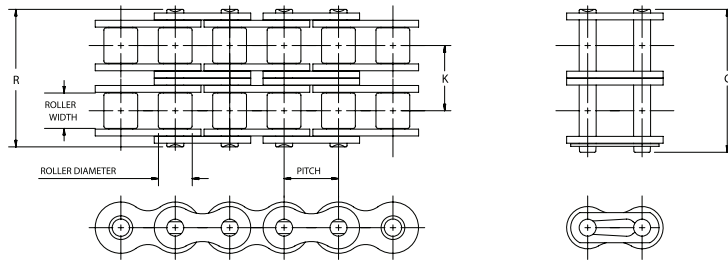
ASME/ANSI Number	Pitch Inches	Roller Width	Roller Diameter	Pin Diameter	Link Plate Thickness	C	R	Pounds Per Foot*	Minimum Tensile Strength
C2060H C	1 1/2	0.495	0.469	0.234	0.125	1.25	1.18	1.05	7030
C2060HSS C	1 1/2	0.495	0.469	0.234	0.125	1.25	1.18	1.03	5730

*Approximate - weight will vary depending upon D5 pin required.

SPECIALTY APPLICATION CHAIN

Sapphire specialty application series chain is available for a variety of applications including agriculture and motor sports.

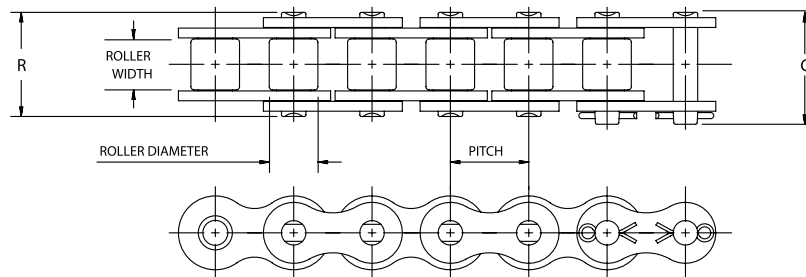
COUPLING CHAIN



Dimensions in Inches

ASME/ANSI Number	Pitch Inches	Roller Width	Roller Diameter	C	R	K	Length Pitches	Pounds Per Foot
D4012	1/2	0.312	0.312	1.297	1.24	0.566	12	0.41
D4016	1/2	0.312	0.312	1.297	1.24	0.566	16	0.55
D5016	5/8	0.375	0.400	1.592	1.55	0.713	16	1.12
D5018	5/8	0.375	0.400	1.592	1.55	0.713	18	1.26
D6018	3/4	0.500	0.469	1.980	1.94	0.897	18	2.16
D6020	3/4	0.500	0.469	1.980	1.94	0.897	20	2.40
D6022	3/4	0.500	0.469	1.980	1.94	0.897	22	2.64
D8018	1	0.625	0.625	2.567	2.47	1.153	18	5.00
D8020	1	0.625	0.625	2.567	2.47	1.153	20	5.56
D10018	1 1/4	0.750	0.750	3.162	3.02	1.408	18	9.24
D10020	1 1/4	0.750	0.750	3.162	3.02	1.408	20	10.30
D12018	1 1/2	1.000	0.875	3.977	3.79	1.789	18	16.20
D12022	1 1/2	1.000	0.875	3.977	3.79	1.789	22	19.80

POWERSPORTS & ATV CHAIN



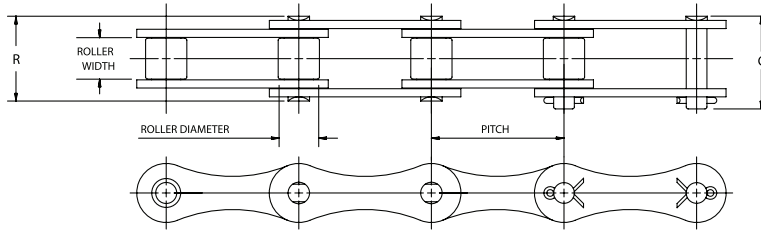
Dimensions in Inches

ASME/ANSI Number	Pitch Inches	Roller Width	Roller Diameter	Pin Diameter	Link Plate Thickness	C	R	Pounds Per Foot	Average Tensile Strength
219H	0.306	0.197	0.181	.118	.047	....	0.47	0.200	1720
219H BP	0.306	0.197	0.181	.118	.047	....	0.47	0.200	1720
420	1/2	1/4	0.306	.156	.060	0.07	0.58	0.270	4070
428	1/2	1/3	.335	.174	.060	0.71	0.66	0.448	4200
428H	1/2	1/3	.335	.174	.070	0.77	0.74	0.536	4200
520	5/8	1/4	.400	.200	.080	0.77	0.71	0.631	6600
520H	5/8	1/4	.400	.200	.094	0.80	0.74	0.817	6600
530	5/8	5/8	.400	.200	.080	0.89	0.83	0.711	6600
530H	5/8	5/8	.400	.200	.094	0.92	0.86	0.897	6600

DOUBLE-PITCH ROLLER CHAIN

Sapphire double-pitch chains are built to ASME/ANSI B29.1 standards.

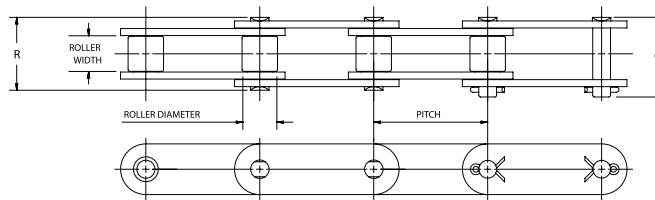
POWER TRANSMISSION ROLLER CHAIN



Dimensions in Inches

ASME/ANSI Number	Pitch Inches	Roller Width	Roller Diameter	Pin Diameter	Link Plate Thickness	C	R	Weight per foot	Minimum Tensile Strength
2040	1	5/16	.312	.156	.060	.76	.68	.28	3125
2050	1 1/4	3/8	.400	.200	.080	.92	.84	.52	4880
2060	1 1/2	1/2	.469	.234	.094	1.11	1.05	.72	7030

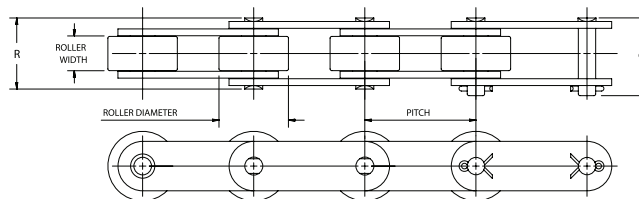
CONVEYOR ROLLER CHAIN



STANDARD DIAMETER ROLLER

Dimensions in Inches

ASME/ANSI Number	Pitch Inches	Roller Width	Roller Diameter	Pin Diameter	Link Plate Thickness	C	R	Weight per foot	Minimum Tensile Strength
C2040	1	5/16	.312	.156	.060	.76	.68	.34	3125
C2050	1 1/4	3/8	.400	.200	.080	.92	.84	.58	4880
C2060H	1 1/2	1/2	.469	.234	.125	1.25	1.18	1.05	7030
C2080H	2	5/8	.625	.312	.156	1.57	1.45	1.40	12500



OVERSIZED DIAMETER ROLLER

Dimensions in Inches

ASME/ANSI Number	Pitch Inches	Roller Width	Roller Diameter	Pin Diameter	Link Plate Thickness	C	R	Weight per foot	Minimum Tensile Strength
C2042	1	5/16	.625	.156	.060	.76	.68	.50	3125
C2052	1 1/4	3/8	.750	.200	.080	.92	.84	.81	4880
C2062H	1 1/2	1/2	.875	.234	.125	1.25	1.18	1.42	7030

CHAIN LENGTH IN PITCHES TO FEET CONVERSION TABLE

Chain Pitch—Inches													
No. of Pitches	1/4	3/8	1/2	5/8	3/4	1	1 1/4	1 1/2	1 3/4	2	2 1/4	2 1/2	3
Chain Length—Feet													
1	0.02	0.03	0.04	0.05	0.06	0.08	0.10	0.13	0.15	0.17	0.19	0.21	0.25
2	0.04	0.06	0.08	0.10	0.13	0.17	0.21	0.25	0.29	0.33	0.38	0.42	0.50
3	0.06	0.09	0.13	0.16	0.19	0.25	0.31	0.38	0.44	0.50	0.56	0.63	0.75
4	0.08	0.13	0.17	0.21	0.25	0.33	0.42	0.50	0.58	0.67	0.75	0.83	1.00
5	0.10	0.16	0.21	0.26	0.31	0.42	0.52	0.63	0.73	0.83	0.94	1.04	1.25
6	0.13	0.19	0.25	0.31	0.38	0.50	0.63	0.75	0.88	1.00	1.13	1.25	1.50
7	0.15	0.22	0.29	0.36	0.44	0.58	0.73	0.88	1.02	1.17	1.31	1.46	1.75
8	0.17	0.25	0.33	0.42	0.50	0.67	0.83	1.00	1.17	1.33	1.50	1.67	2.00
9	0.19	0.28	0.38	0.47	0.56	0.75	0.94	1.13	1.31	1.50	1.69	1.88	2.25
10	0.21	0.31	0.42	0.52	0.63	0.83	1.04	1.25	1.46	1.67	1.88	2.08	2.50
11	0.23	0.34	0.46	0.57	0.69	0.92	1.15	1.38	1.60	1.83	2.06	2.29	2.75
12	0.25	0.38	0.50	0.63	0.75	1.00	1.25	1.50	1.75	2.00	2.25	2.50	3.00
13	0.27	0.41	0.54	0.68	0.81	1.08	1.35	1.63	1.90	2.17	2.44	2.71	3.25
14	0.29	0.44	0.58	0.73	0.88	1.17	1.46	1.75	2.04	2.33	2.63	2.92	3.50
15	0.31	0.47	0.63	0.78	0.94	1.25	1.56	1.88	2.19	2.50	2.81	3.13	3.75
16	0.33	0.50	0.67	0.83	1.00	1.33	1.67	2.00	2.33	2.67	3.00	3.33	4.00
17	0.35	0.53	0.71	0.89	1.06	1.42	1.77	2.13	2.48	2.83	3.19	3.54	4.25
18	0.38	0.56	0.75	0.94	1.13	1.50	1.88	2.25	2.63	3.00	3.38	3.75	4.50
19	0.40	0.59	0.79	0.99	1.19	1.58	1.98	2.38	2.77	3.17	3.56	3.96	4.75
20	0.42	0.63	0.83	1.04	1.25	1.67	2.08	2.50	2.92	3.33	3.75	4.17	5.00
21	0.44	0.66	0.88	1.09	1.31	1.75	2.19	2.63	3.06	3.50	3.94	4.38	5.25
22	0.46	0.69	0.92	1.15	1.38	1.83	2.29	2.75	3.21	3.67	4.13	4.58	5.50
23	0.48	0.72	0.96	1.20	1.44	1.92	2.40	2.88	3.35	3.83	4.31	4.79	5.75
24	0.50	0.75	1.00	1.25	1.50	2.00	2.50	3.00	3.50	4.00	4.50	5.00	6.00
25	0.52	0.78	1.04	1.30	1.56	2.08	2.60	3.13	3.65	4.17	4.69	5.21	6.25
26	0.54	0.81	1.08	1.35	1.63	2.17	2.71	3.25	3.79	4.33	4.88	5.42	6.50
27	0.56	0.84	1.13	1.41	1.69	2.25	2.81	3.38	3.94	4.50	5.06	5.63	6.75
28	0.58	0.88	1.17	1.46	1.75	2.33	2.92	3.50	4.08	4.67	5.25	5.83	7.00
29	0.60	0.91	1.21	1.51	1.81	2.42	3.02	3.63	4.23	4.83	5.44	6.04	7.25
30	0.63	0.94	1.25	1.56	1.88	2.50	3.13	3.75	4.38	5.00	5.63	6.25	7.50
31	0.65	0.97	1.29	1.61	1.94	2.58	3.23	3.88	4.52	5.17	5.81	6.46	7.75
32	0.67	1.00	1.33	1.67	2.00	2.67	3.33	4.00	4.67	5.33	6.00	6.67	8.00
33	0.69	1.03	1.38	1.72	2.06	2.75	3.44	4.13	4.81	5.50	6.19	6.88	8.25
34	0.71	1.06	1.42	1.77	2.13	2.83	3.54	4.25	4.96	5.67	6.38	7.08	8.50
35	0.73	1.09	1.46	1.82	2.19	2.92	3.65	4.38	5.10	5.83	6.56	7.29	8.75
36	0.75	1.13	1.50	1.88	2.25	3.00	3.75	4.50	5.25	6.00	6.75	7.50	9.00
37	0.77	1.16	1.54	1.93	2.31	3.08	3.85	4.63	5.40	6.17	6.94	7.71	9.25
38	0.79	1.19	1.58	1.98	2.38	3.17	3.96	4.75	5.54	6.33	7.13	7.92	9.50
39	0.81	1.22	1.63	2.03	2.44	3.25	4.06	4.88	5.69	6.50	7.31	8.13	9.75
40	0.83	1.25	1.67	2.08	2.50	3.33	4.17	5.00	5.83	6.67	7.50	8.33	10.00
41	0.85	1.28	1.71	2.14	2.56	3.42	4.27	5.13	5.98	6.83	7.69	8.54	10.25
42	0.88	1.31	1.75	2.19	2.63	3.50	4.38	5.25	6.13	7.00	7.88	8.75	10.50
43	0.90	1.34	1.79	2.24	2.69	3.58	4.48	5.38	6.27	7.17	8.06	8.96	10.75
44	0.92	1.38	1.83	2.29	2.75	3.67	4.58	5.50	6.42	7.33	8.25	9.17	11.00
45	0.94	1.41	1.88	2.34	2.81	3.75	4.69	5.63	6.56	7.50	8.44	9.38	11.25
46	0.96	1.44	1.92	2.40	2.88	3.83	4.79	5.75	6.71	7.67	8.63	9.58	11.50
47	0.98	1.47	1.96	2.45	2.94	3.92	4.90	5.88	6.85	7.83	8.81	9.79	11.75
48	1.00	1.50	2.00	2.50	3.00	4.00	5.00	6.00	7.00	8.00	9.00	10.00	12.00
49	1.02	1.53	2.04	2.55	3.06	4.08	5.10	6.13	7.15	8.17	9.19	10.21	12.25
50	1.04	1.56	2.08	2.60	3.13	4.17	5.21	6.25	7.29	8.33	9.38	10.42	12.50

CHAIN LENGTH IN PITCHES TO FEET CONVERSION TABLE

Chain Pitch—Inches													
No. of Pitches	1/4	3/8	1/2	5/8	3/4	1	1 1/4	1 1/2	1 3/4	2	2 1/4	2 1/2	3
Chain Length—Feet													
51	1.06	1.59	2.13	2.66	3.19	4.25	5.31	6.38	7.44	8.50	9.56	10.63	12.75
52	1.08	1.63	2.17	2.71	3.25	4.33	5.42	6.50	7.58	8.67	9.75	10.83	13.00
53	1.10	1.66	2.21	2.76	3.31	4.42	5.52	6.63	7.73	8.83	9.94	11.04	13.25
54	1.13	1.69	2.25	2.81	3.38	4.50	5.63	6.75	7.88	9.00	10.13	11.25	13.50
55	1.15	1.72	2.29	2.86	3.44	4.58	5.73	6.88	8.02	9.17	10.31	11.46	13.75
56	1.17	1.75	2.33	2.92	3.50	4.67	5.83	7.00	8.17	9.33	10.50	11.67	14.00
57	1.19	1.78	2.38	2.97	3.56	4.75	5.94	7.13	8.31	9.50	10.69	11.88	14.25
58	1.21	1.81	2.42	3.02	3.63	4.83	6.04	7.25	8.46	9.67	10.88	12.08	14.50
59	1.23	1.84	2.46	3.07	3.69	4.92	6.15	7.38	8.60	9.83	11.06	12.29	14.75
60	1.25	1.88	2.50	3.13	3.75	5.00	6.25	7.50	8.75	10.00	11.25	12.50	15.00
61	1.27	1.91	2.54	3.18	3.81	5.08	6.35	7.63	8.90	10.17	11.44	12.71	15.25
62	1.29	1.94	2.58	3.23	3.88	5.17	6.46	7.75	9.04	10.33	11.63	12.92	15.50
63	1.31	1.97	2.63	3.28	3.94	5.25	6.56	7.88	9.19	10.50	11.81	13.13	15.75
64	1.33	2.00	2.67	3.33	4.00	5.33	6.67	8.00	9.33	10.67	12.00	13.33	16.00
65	1.35	2.03	2.71	3.39	4.06	5.42	6.77	8.13	9.48	10.83	12.19	13.54	16.25
66	1.38	2.06	2.75	3.44	4.13	5.50	6.88	8.25	9.63	11.00	12.38	13.75	16.50
67	1.40	2.09	2.79	3.49	4.19	5.58	6.98	8.38	9.77	11.17	12.56	13.96	16.75
68	1.42	2.13	2.83	3.54	4.25	5.67	7.08	8.50	9.92	11.33	12.75	14.17	17.00
69	1.44	2.16	2.88	3.59	4.31	5.75	7.19	8.63	10.06	11.50	12.94	14.38	17.25
70	1.46	2.19	2.92	3.65	4.38	5.83	7.29	8.75	10.21	11.67	13.13	14.58	17.50
71	1.48	2.22	2.96	3.70	4.44	5.92	7.40	8.88	10.35	11.83	13.31	14.79	17.75
72	1.50	2.25	3.00	3.75	4.50	6.00	7.50	9.00	10.50	12.00	13.50	15.00	18.00
73	1.52	2.28	3.04	3.80	4.56	6.08	7.60	9.13	10.65	12.17	13.69	15.21	18.25
74	1.54	2.31	3.08	3.85	4.63	6.17	7.71	9.25	10.79	12.33	13.88	15.42	18.50
75	1.56	2.34	3.13	3.91	4.69	6.25	7.81	9.38	10.94	12.50	14.06	15.63	18.75
76	1.58	2.38	3.17	3.96	4.75	6.33	7.92	9.50	11.08	12.67	14.25	15.83	19.00
77	1.60	2.41	3.21	4.01	4.81	6.42	8.02	9.63	11.23	12.83	14.44	16.04	19.25
78	1.63	2.44	3.25	4.06	4.88	6.50	8.13	9.75	11.38	13.00	14.63	16.25	19.50
79	1.65	2.47	3.29	4.11	4.94	6.58	8.23	9.88	11.52	13.17	14.81	16.46	19.75
80	1.67	2.50	3.33	4.17	5.00	6.67	8.33	10.00	11.67	13.33	15.00	16.67	20.00
81	1.69	2.53	3.38	4.22	5.06	6.75	8.44	10.13	11.81	13.50	15.19	16.88	20.25
82	1.71	2.56	3.42	4.27	5.13	6.83	8.54	10.25	11.96	13.67	15.38	17.08	20.50
83	1.73	2.59	3.46	4.32	5.19	6.92	8.65	10.38	12.10	13.83	15.56	17.29	20.75
84	1.75	2.63	3.50	4.38	5.25	7.00	8.75	10.50	12.25	14.00	15.75	17.50	21.00
85	1.77	2.66	3.54	4.43	5.31	7.08	8.85	10.63	12.40	14.17	15.94	17.71	21.25
86	1.79	2.69	3.58	4.48	5.38	7.17	8.96	10.75	12.54	14.33	16.13	17.92	21.50
87	1.81	2.72	3.63	4.53	5.44	7.25	9.06	10.88	12.69	14.50	16.31	18.13	21.75
88	1.83	2.75	3.67	4.58	5.50	7.33	9.17	11.00	12.83	14.67	16.50	18.33	22.00
89	1.85	2.78	3.71	4.64	5.56	7.42	9.27	11.13	12.98	14.83	16.69	18.54	22.25
90	1.88	2.81	3.75	4.69	5.63	7.50	9.38	11.25	13.13	15.00	16.88	18.75	22.50
91	1.90	2.84	3.79	4.74	5.69	7.58	9.48	11.38	13.27	15.17	17.06	18.96	22.75
92	1.92	2.88	3.83	4.79	5.75	7.67	9.58	11.50	13.42	15.33	17.25	19.17	23.00
93	1.94	2.91	3.88	4.84	5.81	7.75	9.69	11.63	13.56	15.50	17.44	19.38	23.25
94	1.96	2.94	3.92	4.90	5.88	7.83	9.79	11.75	13.71	15.67	17.63	19.58	23.50
95	1.98	2.97	3.96	4.95	5.94	7.92	9.90	11.88	13.85	15.83	17.81	19.79	23.75
96	2.00	3.00	4.00	5.00	6.00	8.00	10.00	12.00	14.00	16.00	18.00	20.00	24.00
97	2.02	3.03	4.04	5.05	6.06	8.08	10.10	12.13	14.15	16.17	18.19	20.21	24.25
98	2.04	3.06	4.08	5.10	6.13	8.17	10.21	12.25	14.29	16.33	18.38	20.42	24.50
99	2.06	3.09	4.13	5.16	6.19	8.25	10.31	12.38	14.44	16.50	18.56	20.63	24.75
100	2.08	3.13	4.17	5.21	6.25	8.33	10.42	12.50	14.58	16.67	18.75	20.83	25.00

DIAMOND® CHAIN COMPANY

Americas

Corporate Headquarters
402 Kentucky Avenue
Indianapolis, Indiana 46225
PH: 1-800 US CHAIN
1-800-872-4246
Fax: 1-317-613-2243

Dallas Service Center
9120 Premier Row
Dallas, Texas 75356
PH: 1-877-453-9128
Fax: 1-214-631-2374

Sacramento Service Center
1331 Terminal St.
West Sacramento, CA 95691
PH: 1-877-453-9127
Fax: 1-916-372-5801

sales@diamondchain.com

Canada/Mexico
PH: 1-317-638-6431
www.diamondchain.com



United Kingdom

Unit 7 – 9
Blaydon Industrial Park
Chainbridge Road
Blaydon on Tyne
NE21 5AB
PH: 44-191-414-8822
sales@diamondchain.co.uk
www.diamondchain.co.uk

Asia

Century Financial Tower, Unit 2005
No. 1 Suhua Road, SIP, Suzhou
Jiangsu Province, China 215021
PH: 86 -512-6265-3075
salescn@diamondchain.com

