


DIAMOND[®]
DIAMOND CHAIN COMPANY





TABLE OF CONTENTS

Standard Series Chain	4 - 5
Heavy Series Chain	6
Non-Standard Series Chain	7
High Strength/Lift Chain	8 - 9
Specialty Lubrication – DURALUBE® Chain	10
Specialty Lubrication – RING LEADER® O-Ring Chain	11
Specialty Lubrication – DUST STOPPER™ Chain	11
Additional Products	11
Pitches to Feet Conversion Table	12 - 13



Every Calling is Great, When Greatly Pursued.

OLIVER WENDELL HOLMES



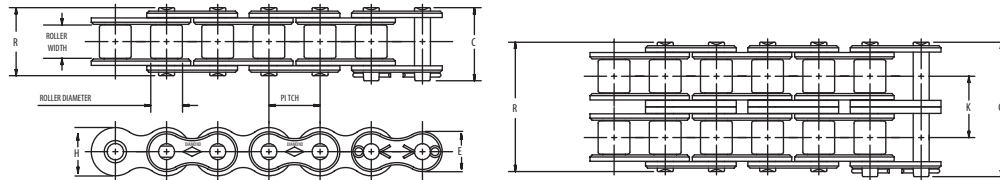
At the Diamond Chain Company, the calling to design and manufacture the world's highest-performing roller chain is greatly pursued every day by teams of passionate technical experts who have made your success their life's work. It's that intensity of focus that some of the world's greatest inventors 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.



DIAMOND STANDARD SERIES CHAIN

SINGLE AND MULTI-STRAND

Diamond Standard Series Chains are built to ASME / ANSI B29.1 standards for dimensions, interoperability, and sprocket fit and exceed the established standards for tensile strength.



Dimensions in Inches

ASME/ANSI Number	Pitch Inches	Roller Width	Roller Diameter	Pin Diameter	Link Plate Thickness	C	R	K	Pounds Per Foot	Average Tensile Strength	E**	H**
25	1/4	1/8	*.130	.090	.030	0.37	0.34	...	0.08	875	0.205	0.238
25-2	1/4	1/8	*.130	.090	.030	0.63	0.59	0.252	0.16	1750	0.205	0.238
25-3	1/4	1/8	*.130	.090	.030	0.88	0.84	0.252	0.25	2625	0.205	0.238
35	3/8	3/16	*.200	.141	.050	0.56	0.50	...	0.21	2100	0.308	0.356
35-2	3/8	3/16	*.200	.141	.050	0.96	0.90	0.399	0.45	4200	0.308	0.356
35-3	3/8	3/16	*.200	.141	.050	1.36	1.31	0.399	0.68	6300	0.308	0.356
35-4	3/8	3/16	*.200	.141	.050	1.76	1.70	0.399	0.91	8400	0.308	0.356
35-5	3/8	3/16	*.200	.141	.050	2.16	2.11	0.399	1.14	10500	0.308	0.356
35-6	3/8	3/16	*.200	.141	.050	2.57	2.51	0.399	1.37	12600	0.308	0.356
40	1/2	5/16	.312	.156	.060	0.72	0.67	...	0.41	4000	0.410	0.475
40-2	1/2	5/16	.312	.156	.060	1.29	1.24	0.566	0.80	8000	0.410	0.475
40-3	1/2	5/16	.312	.156	.060	1.85	1.80	0.566	1.20	12000	0.410	0.475
40-4	1/2	5/16	.312	.156	.060	2.42	2.37	0.566	1.60	16000	0.410	0.475
40-6	1/2	5/16	.312	.156	.060	3.56	3.51	0.566	2.42	24000	0.410	0.475
41	1/2	1/4	.306	.141	.050	0.65	0.57	...	0.26	2400	0.310	0.383
50	5/8	3/8	.400	.200	.080	0.89	0.83	...	0.70	6600	0.512	0.594
50-2	5/8	3/8	.400	.200	.080	1.60	1.55	0.713	1.40	13200	0.512	0.594
50-3	5/8	3/8	.400	.200	.080	2.31	2.26	0.713	2.09	19800	0.512	0.594
50-4	5/8	3/8	.400	.200	.080	3.03	2.97	0.713	2.78	26400	0.512	0.594
50-5	5/8	3/8	.400	.200	.080	3.75	3.69	0.713	3.47	33000	0.512	0.594
50-6	5/8	3/8	.400	.200	.080	4.46	4.40	0.713	4.17	39600	0.512	0.594
50-8	5/8	3/8	.400	.200	.080	5.89	5.83	0.713	5.56	52800	0.512	0.594
50-10	5/8	3/8	.400	.200	.080	7.32	7.26	0.713	6.93	66000	0.512	0.594
60	3/4	1/2	.469	.234	.094	1.11	1.04	...	0.99	8500	0.615	0.713
60-2	3/4	1/2	.469	.234	.094	2.01	1.94	0.897	1.95	17000	0.615	0.713
60-3	3/4	1/2	.469	.234	.094	2.91	2.84	0.897	2.88	25500	0.615	0.713
60-4	3/4	1/2	.469	.234	.094	3.81	3.74	0.897	3.90	34000	0.615	0.713
60-5	3/4	1/2	.469	.234	.094	4.71	4.64	0.897	4.97	42500	0.615	0.713
60-6	3/4	1/2	.469	.234	.094	5.60	5.53	0.897	5.96	51000	0.615	0.713
60-8	3/4	1/2	.469	.234	.094	7.40	7.33	0.897	7.94	68000	0.615	0.713
60-10	3/4	1/2	.469	.234	.094	9.19	9.12	0.897	9.92	85000	0.615	0.713
80	1	5/8	.625	.312	.125	1.44	1.32	...	1.73	14500	0.820	0.950
80-2	1	5/8	.625	.312	.125	2.59	2.47	1.153	3.37	29000	0.820	0.950

*Chains are rollerless -- dimension shown is bushing diameter.

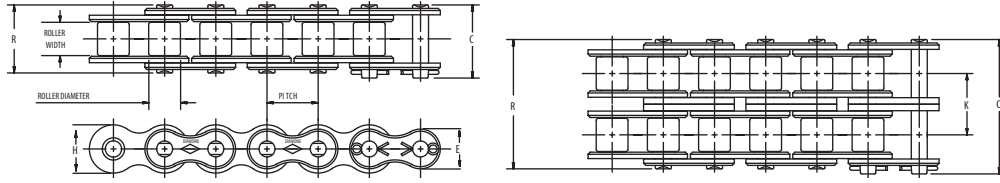
ASME/ANSI 60 and larger chains are available as cottered or riveted type design.

Multiple strand chains are available with slip-fit (standard) or press-fit center plates.

** Maximum values are shown.

Chart continues on next page.

DIAMOND STANDARD SERIES CHAIN



Dimensions in Inches

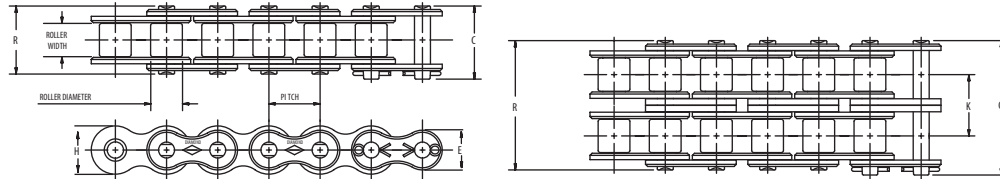
ASME/ANSI Number	Pitch Inches	Roller Width	Roller Diameter	Pin Diameter	Link Plate Thickness	C	R	K	Pounds Per Foot	Average Tensile Strength	E**	H**
80-3	1	5/8	.625	.312	.125	3.74	3.62	1.153	5.02	43500	0.820	0.950
80-4	1	5/8	.625	.312	.125	4.90	4.79	1.153	6.73	58000	0.820	0.950
80-5	1	5/8	.625	.312	.125	6.06	5.94	1.153	8.40	72500	0.820	0.950
80-6	1	5/8	.625	.312	.125	7.22	7.10	1.153	10.07	87000	0.820	0.950
80-8	1	5/8	.625	.312	.125	9.53	9.40	1.153	13.41	116000	0.820	0.950
100	1 1/4	3/4	.750	.375	.156	1.73	1.61	....	2.51	24000	1.025	1.188
100-2	1 1/4	3/4	.750	.375	.156	3.14	3.02	1.408	4.91	48000	1.025	1.188
100-3	1 1/4	3/4	.750	.375	.156	4.56	4.43	1.408	7.40	72000	1.025	1.188
100-4	1 1/4	3/4	.750	.375	.156	5.97	5.84	1.408	9.80	96000	1.025	1.188
100-5	1 1/4	3/4	.750	.375	.156	7.38	7.25	1.408	12.20	120000	1.025	1.188
100-6	1 1/4	3/4	.750	.375	.156	8.78	8.66	1.408	14.60	144000	1.025	1.188
100-8	1 1/4	3/4	.750	.375	.156	11.60	11.48	1.408	19.40	192000	1.025	1.188
120	1 1/2	1	.875	.437	.187	2.14	2.00	....	3.69	34000	1.230	1.425
120-2	1 1/2	1	.875	.437	.187	3.93	3.79	1.408	7.35	68000	1.230	1.425
120-3	1 1/2	1	.875	.437	.187	5.72	5.58	1.408	11.10	102000	1.230	1.425
120-4	1 1/2	1	.875	.437	.187	7.52	7.38	1.408	14.70	136000	1.230	1.425
120-5	1 1/2	1	.875	.437	.187	9.31	9.17	1.408	18.43	170000	1.230	1.425
120-6	1 1/2	1	.875	.437	.187	11.10	10.96	1.408	22.11	204000	1.230	1.425
120-8	1 1/2	1	.875	.437	.187	14.68	14.54	1.408	29.47	272000	1.230	1.425
120-10	1 1/2	1	.875	.437	.187	18.26	18.12	1.408	36.83	340000	1.230	1.425
140	1 3/4	1	1.000	.500	.219	2.31	2.14	....	5.00	46000	1.435	1.663
140-2	1 3/4	1	1.000	.500	.219	4.24	4.07	1.924	9.65	92000	1.435	1.663
140-3	1 3/4	1	1.000	.500	.219	6.16	6.00	1.924	14.30	138000	1.435	1.663
140-4	1 3/4	1	1.000	.500	.219	8.09	7.93	1.924	18.95	184000	1.435	1.663
140-6	1 3/4	1	1.000	.500	.219	11.94	11.78	1.924	28.25	276000	1.435	1.663
160	2	1 1/4	1.125	.562	.250	2.73	2.54	....	6.53	58000	1.640	1.900
160-2	2	1 1/4	1.125	.562	.250	5.04	4.85	2.305	12.83	116000	1.640	1.900
160-3	2	1 1/4	1.125	.562	.250	7.35	7.16	2.305	19.03	174000	1.640	1.900
160-4	2	1 1/4	1.125	.562	.250	9.66	9.47	2.305	25.60	232000	1.640	1.900
160-6	2	1 1/4	1.125	.562	.250	14.27	14.09	2.305	37.78	348000	1.640	1.900
180	2 1/4	1 13/32	1.406	.687	.281	3.15	2.88	....	9.06	76000	1.845	2.138
180-2	2 1/4	1 13/32	1.406	.687	.281	5.75	5.48	2.592	17.67	152000	1.845	2.138
180-3	2 1/4	1 13/32	1.406	.687	.281	8.34	8.07	2.592	26.20	228000	1.845	2.138
200	2 1/2	1 1/2	1.562	.781	.312	3.44	3.12	....	10.65	95000	2.050	2.375
200-2	2 1/2	1 1/2	1.562	.781	.312	6.26	5.94	2.817	21.50	190000	2.050	2.375
200-3	2 1/2	1 1/2	1.562	.781	.312	9.08	8.76	2.817	32.30	285000	2.050	2.375
200-4	2 1/2	1 1/2	1.562	.781	.312	11.90	11.58	2.817	42.90	380000	2.050	2.375
200-6	2 1/2	1 1/2	1.562	.781	.312	17.52	17.21	2.817	64.50	570000	2.050	2.375
240	3	1 7/8	1.875	.937	.375	4.32	3.83	....	17.03	157600	2.422	2.806
240-2	3	1 7/8	1.875	.937	.375	7.77	7.27	3.458	33.44	315200	2.422	2.806
240-3	3	1 7/8	1.875	.937	.375	11.23	10.73	3.458	49.77	472800	2.422	2.806

** Maximum values are shown.

HEAVY SERIES CHAIN

SINGLE AND MULTI-STRAND

Diamond Heavy Series Chains are built to ASME / ANSI B29.1 standards and utilize link plate material thickness from the next larger size of chain. Heavy Series Chains are intended for applications subject to heavy shock loads, starts and stops, and forward and reverse travel.



Dimensions in Inches

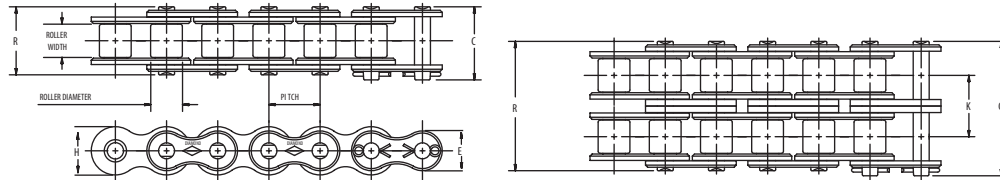
ASME/ANSI Number	Pitch Inches	Roller Width	Roller Diameter	Pin Diameter	Link Plate Thickness	C	R	K	Pounds Per Foot	Average Tensile Strength	E*	H*
60H	3/4	1/2	.469	.234	.125	1.24	1.17	....	1.18	8500	.615	.713
60H-2	3/4	1/2	.469	.234	.125	2.27	2.20	1.028	2.33	17000	.615	.713
60H-3	3/4	1/2	.469	.234	.125	3.31	3.24	1.028	3.47	25500	.615	.713
60H-4	3/4	1/2	.469	.234	.125	4.34	4.26	1.028	4.61	34000	.615	.713
80H	1	5/8	.625	.312	.156	1.57	1.45	....	2.02	14500	.820	.950
80H-2	1	5/8	.625	.312	.156	2.84	2.72	1.283	3.93	29000	.820	.950
80H-3	1	5/8	.625	.312	.156	4.14	4.02	1.283	5.92	43500	.820	.950
80H-4	1	5/8	.625	.312	.156	5.42	5.30	1.283	7.87	58000	.820	.950
100H	1 1/4	3/4	.750	.375	.187	1.86	1.74	....	2.82	24000	1.025	1.188
100H-2	1 1/4	3/4	.750	.375	.187	3.41	3.28	1.54	5.58	48000	1.025	1.188
100H-3	1 1/4	3/4	.750	.375	.187	4.95	4.82	1.54	8.32	72000	1.025	1.188
100H-4	1 1/4	3/4	.750	.375	.187	6.49	6.30	1.54	11.04	96000	1.025	1.188
120H	1 1/2	1	.875	.437	.219	2.27	2.13	....	4.08	34000	1.230	1.425
120H-2	1 1/2	1	.875	.437	.219	4.20	4.60	1.924	8.04	68000	1.230	1.425
120H-3	1 1/2	1	.875	.437	.219	6.13	5.99	1.924	11.99	102000	1.230	1.425
120H-4	1 1/2	1	.875	.437	.219	8.06	7.92	1.924	15.94	136000	1.230	1.425
120H-6	1 1/2	1	.875	.437	.219	11.91	11.77	1.924	23.84	204000	1.230	1.425
140H	1 3/4	1	1.000	.500	.250	2.44	2.28	....	5.40	46000	1.435	1.663
140H-2	1 3/4	1	1.000	.500	.250	4.50	4.34	2.055	10.65	92000	1.435	1.663
140H-3	1 3/4	1	1.000	.500	.250	6.56	6.39	2.055	15.90	138000	1.435	1.663
140H-4	1 3/4	1	1.000	.500	.250	8.62	8.45	2.055	21.10	184000	1.435	1.663
160H	2	1 1/4	1.125	.562	.281	2.86	2.68	....	7.03	58000	1.640	1.900
160H-2	2	1 1/4	1.125	.562	.281	5.30	5.12	2.436	13.88	116000	1.640	1.900
160H-3	2	1 1/4	1.125	.562	.281	7.75	7.56	2.436	20.68	174000	1.640	1.900
160H-4	2	1 1/4	1.125	.562	.281	10.17	10.00	2.436	27.62	232000	1.640	1.900
180H	2 1/4	1 13/32	1.406	.687	.312	3.28	3.01	....	9.59	76000	1.845	2.138
180H-2	2 1/4	1 13/32	1.406	.687	.312	6.00	5.73	2.723	18.86	152000	1.845	2.138
180H-3	2 1/4	1 13/32	1.406	.687	.312	8.73	8.46	2.723	28.14	228000	1.845	2.138
200H	2 1/2	1 1/2	1.562	.781	.375	3.71	3.39	....	13.38	110000	2.050	2.375
200H-2	2 1/2	1 1/2	1.562	.781	.375	6.79	6.48	3.083	26.38	220000	2.050	2.375
200H-3	2 1/2	1 1/2	1.562	.781	.375	9.88	9.56	3.083	40.85	330000	2.050	2.375
240H	3	1	1.875	.937	.500	4.85	4.35	....	21.08	157600	2.422	2.806

ASME/ANSI 60 and larger chains are available as cottored or riveted type design. Multiple strand chains are available with slip-fit (standard) or press-fit center plates.

* Maximum values are shown.

NON-STANDARD SERIES CHAIN

Diamond Non-Standard Series Chains were designed prior to the adoption of the ASME / ANSI standards.



Dimensions in Inches

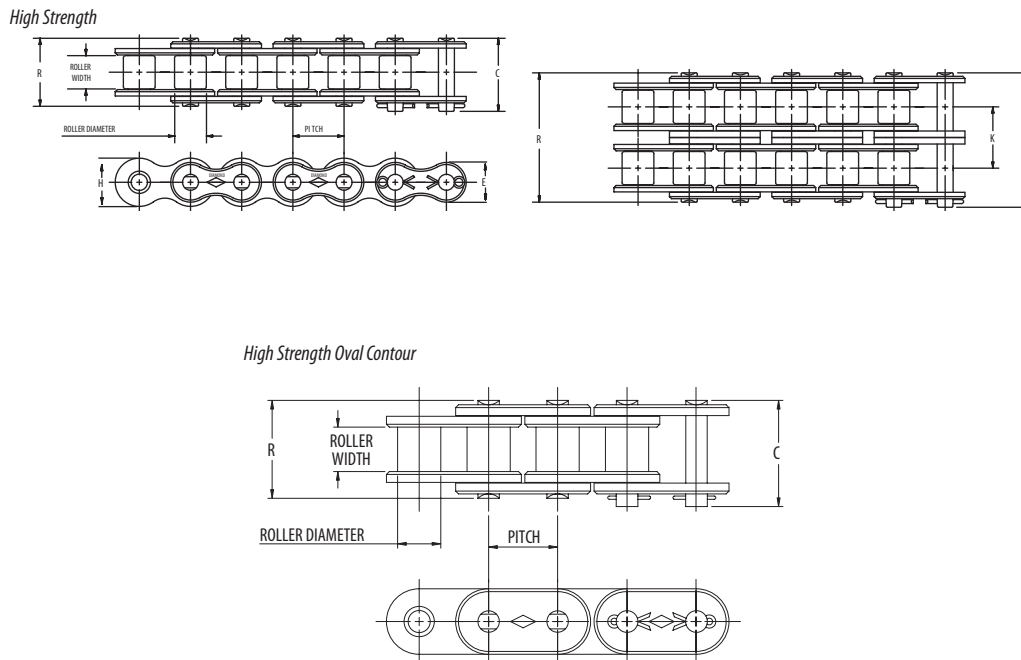
ASME/ANSI Number	Pitch Inches	Roller Width	Roller Diameter	Pin Diameter	Link Plate Thickness	C	R	K	Pounds Per Foot	Average Tensile Strength
867	1/2	5/16	.335	.174	.060	.730	.680	....	.43	4200
148 X 1/4	5/8	1/4	.400	.200	.080	.730	.670	....	.59	6600
148 X 5/16	5/8	5/16	.400	.200	.080	.860	.740	....	.64	6600
433 X 3/8	3/4	3/8	.469	.234	.094	.980	.910	....	.91	8500
435 X 3/8	1	3/8	.562	.281	.125	1.14	1.05	....	1.11	9000
435 X 1/2	1	1/2	.562	.281	.125	1.27	1.18	....	1.21	9000
472	1 1/2	3/4	.875	.437	.187	1.86	1.72	....	3.40	34000
472-2	1 1/2	3/4	.875	.437	.187	3.45	3.30	1.55	6.76	68000
472-3	1 1/2	3/4	.875	.437	.187	5.00	4.85	1.55	10.08	102000
472-4	1 1/2	3/4	.875	.437	.187	6.55	6.41	1.55	13.40	136000
264	2 1/2	1 1/2	1.562	.875	.375	3.71	3.39	....	13.68	148500
264-3	2 1/2	1 1/2	1.562	.875	.375	9.88	9.56	3.083	40.92	445500

HIGH STRENGTH/LIFT CHAIN

Diamond High Strength / Lift Chains are built to ASME / ANSI B29.1 standards and are intended for applications subjected to heavy loads or lifting.

HIGH STRENGTH (HS) AND HIGH STRENGTH OVAL CONTOUR (HSOC) DRIVE CHAINS

Diamond High Strength and High Strength Oval Contour Drive Chains are built to ASME / ANSI B29.1 standards. These drive chains feature through-hardened, medium carbon alloy steel pins for higher working load capacity and additional resistance versus standard heavy series drive chains in high load and pulsating applications. High Strength Oval Contour Drive Chains feature a full oval contour pin and roller link plates for maximum plate rigidity in high load fatigue applications.



Dimensions in Inches

ASME/ANSI Number	Pitch Inches	Roller Width	Roller Diameter	Pin Diameter	Link Plate Thickness	C	R	K	Pounds Per Foot	Average Tensile Strength	E*	H*
60HS	3/4	1/2	.469	.234	.125	1.24	1.17	....	1.18	12000	.615	.713
60HSOC	3/4	1/2	.469	.234	.125	1.24	1.17	....	1.42	12000	.713	.713
80HS	1	5/8	.625	.312	.156	1.57	1.45	....	2.02	21000	.820	.950
80HSOC	1	5/8	.625	.312	.156	1.57	1.45	....	2.38	21000	.950	.950
100HS	1 1/4	3/4	.750	.375	.187	1.86	1.74	....	2.82	30000	1.025	1.188
100HSOC	1 1/4	3/4	.750	.375	.187	1.86	1.74	....	3.29	30000	1.188	1.188
120HS	1 1/2	1	.875	.437	.219	2.27	2.13	....	4.08	41000	1.230	1.425
140HS	1 3/4	1	1.000	.500	.250	2.44	2.28	....	5.40	56000	1.435	1.663
160HS	2	1 1/4	1.125	.562	.281	2.86	2.68	....	7.03	70000	1.640	1.900
180HS	2 1/4	1 13/32	1.406	.687	.312	3.28	3.01	....	9.59	95000	1.845	2.138
200HS	2 1/2	1 1/2	1.562	.781	.375	3.71	3.39	....	13.75	136000	2.050	2.375
200HS-2	2 1/2	1 1/2	1.562	.781	.375	6.79	6.48	3.083	26.38	270000	2.050	2.375
200HS-3	2 1/2	1 1/2	1.562	.781	.375	9.88	9.56	3.083	40.85	405000	2.050	2.375
240HS	3	1 7/8	1.875	.937	.500	4.85	4.35	....	21.08	157600	2.422	2.806

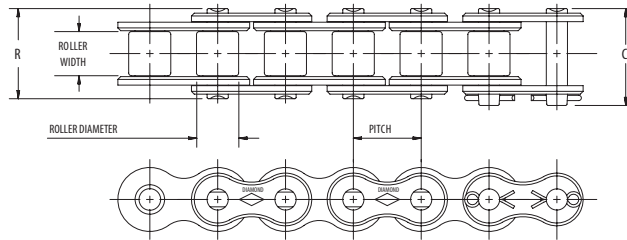
Note: Offset links and slip fit connecting links are not recommended for high strength or lift chain applications.

* Maximum values are shown.

HIGH STRENGTH/LIFT CHAIN

HOIST CHAIN

Diamond Hoist Chains are built to ASME / ANSI B29.24 standards and feature through-hardened, medium carbon alloy steel pins for high load capacity, slow speed applications.



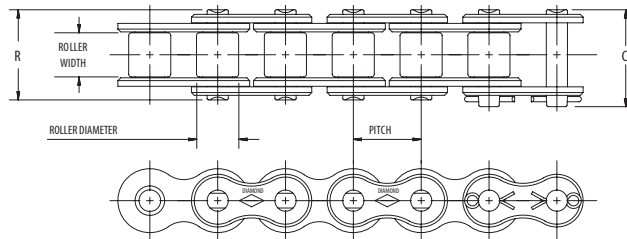
Dimensions in Inches

ASME/ANSI Number	Pitch Inches	Roller Width	Roller Diameter	Pin Diameter	Link Plate Thickness	C	R	Pounds Per Foot	Average Tensile Strength
625	5/8	3/8	.400	.200	.080	0.89	0.83	0.68	8000
750	3/4	1/2	.469	.234	.094	1.11	1.04	0.99	10500



ROLLERLESS LIFT CHAIN*

Diamond Chain Rollerless Lift Chains are designed for tension linkage applications requiring increased bearing area of a roller 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
55S †	5/8	3/8	*.280	.200	.080	0.89	0.83	0.55	8000
65S †	3/4	1/2	*.332	.234	.094	1.11	1.04	0.81	10500
85	1	5/8	*.442	.312	.125	1.44	1.32	1.41	14500
105	1 1/4	3/4	*.532	.375	.156	1.73	1.61	2.08	24000
125	1 1/2	1	*.620	.437	.187	2.14	2.00	3.04	34000

*Chains are rollerless -- dimension shown is bushing diameter.

†Numbers 55S and 65S are assembled with medium carbon through-hardened pins.

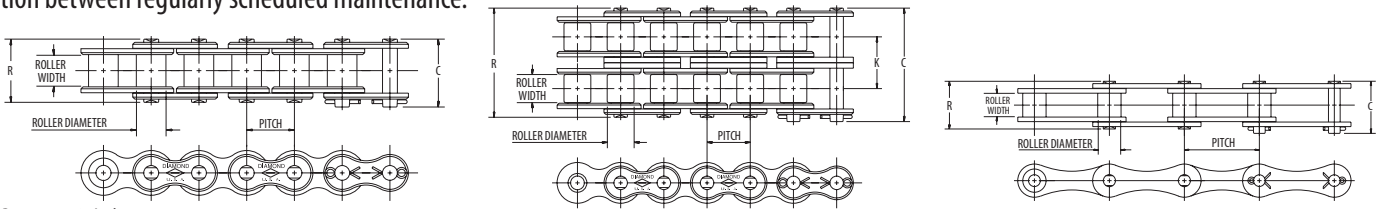
Note: Slip fit connecting and offset links are not available for these chains.

SPECIALTY LUBRICATED CHAIN

Diamond Chain Specialty Lubricated Chains are intended for applications where regular lubrication is not possible or practical.

DURALUBE® CHAIN

Diamond Chain DURALUBE® Series Chains are specifically intended for applications in which regular lubrication is impractical. DURALUBE® Series Chains feature a one-piece powdered metal bushing and roller combination lubricated under vacuum providing supplemental lubrication between regularly scheduled maintenance.



Dimensions in Inches

ASME/ANSI Number	Pitch Inches	Roller Width	Roller Diameter	Pin Diameter	Link Plate Thickness	C	R	K	Pounds Per Foot	Average Tensile Strength	Maximum Axel Speed	E*	H*
40-DL	1/2	5/16	.312	.156	.060	0.72	0.67	....	0.40	3300	1300 ft/min	.410	.475
40-2-DL	1/2	5/16	.312	.156	.060	1.29	1.24	0.566	0.81	6600	1300 ft/min	.410	.475
50-DL	5/8	3/8	.400	.200	.080	0.89	0.83	....	0.65	5200	1000 ft/min	.512	.594
50-2-DL	5/8	3/8	.400	.200	.080	1.60	1.55	0.713	1.27	10400	1000 ft/min	.512	.594
60-DL	3/4	1/2	.469	.234	.094	1.11	1.04	....	0.95	7400	850 ft/min	.615	.713
60-2-DL	3/4	1/2	.469	.234	.094	2.01	1.94	0.897	1.85	14800	850 ft/min	.615	.713
80-DL	1	5/8	.625	.312	.125	1.44	1.32	....	1.60	13000	650 ft/min	.820	.950
2040-DL	1	5/16	.312	.156	.060	0.76	0.68	....	0.30	3300	600 ft/min	.....	.475
2050-DL	1 1/4	3/8	.400	.200	.080	0.92	0.84	....	0.47	5200	600 ft/min	.....	.594
2060-DL	1 1/2	1/2	.469	.234	.094	1.11	1.05	....	0.70	7400	600 ft/min	.....	.712

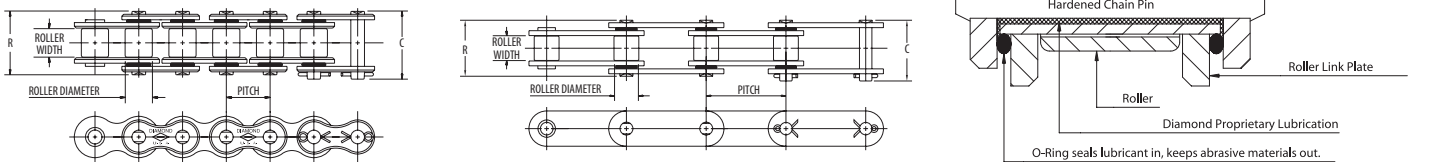
Due to the nature of the DURALUBE® drive chain's construction, note the maximum speed limitations. Ambient temperature should not exceed 120 degrees Fahrenheit.

* Maximum values are shown.

SPECIALTY LUBRICATED CHAIN

RING LEADER® O-RING DRIVE CHAIN

Diamond Chain Ring Leader O-Ring Series Chains are specifically intended for applications in which regular lubrication is not possible. Ring Leader O-Ring Series Chains are constructed with rings that seal Diamond Chain's proprietary lubricant in and keeps contaminants out.



Dimensions in Inches

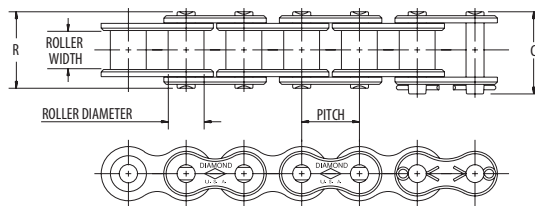
ASME/ANSI Number	Pitch Inches	Roller Width	Roller Diameter	Pin Diameter	Link Plate Thickness	C	R	Pounds Per Foot	Average Tensile Strength	E*	H*
50 XLO	5/8	3/8	.400	.200	.080	0.95	0.89	0.72	6500	.512	.594
50H XLO	5/8	3/8	.400	.214	.094	1.02	0.96	0.93	9300	.512	.594
60 XLO	3/4	1/2	.469	.234	.094	1.21	1.13	1.01	7700	.615	.713
80 XLO	1	5/8	.625	.312	.125	1.51	1.41	1.77	13500	.820	.950
100 XLO	1 1/4	3/4	.750	.375	.156	1.83	1.74	2.55	22000	1.025	1.188
120 XLO	1 1/2	1	.875	.437	.187	2.24	2.12	3.76	30000	1.230	1.425
140 XLO	1 3/4	1	1.000	.500	.219	2.49	2.35	5.10	42000	1.435	1.663
160 XLO	2	1 1/4	1.125	.562	.250	2.96	2.82	6.66	52000	1.640	1.900
C2050 XLO	1 1/4	3/8	.400	.200	.080	0.95	0.89	0.59	6500	.....	.594
C2060H XLO	1 1/2	1/2	.469	.234	.125	1.27	1.21	1.17	7700	.....	.712

Note: Standard RING LEADER O-Ring chain can routinely operate in ambient temperatures up to 150°F. For higher temperature requirements, special O-rings can be substituted, allowing operation in temperatures of 400°F or greater.

* Maximum values are shown.

DUST STOPPER™ DRIVE CHAIN

Diamond Chain Dust Stopper Series Chains are specifically intended for applications that require the functionality of both the DURALUBE and Ring Leader O-Ring drive 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	Max. Speed ft/min	E*	H*
40 XDLO	1/2	5/16	.312	.156	.060	0.78	0.73	0.43	3300	1300 ft/min	0.410	0.475
50 XDLO	5/8	3/8	.400	.200	.080	0.95	0.59	0.68	5200	1000 ft/min	0.512	0.594
60 XDLO	3/4	1/2	.469	.234	.094	1.21	1.13	0.95	7400	850 ft/min	0.615	0.713
80 XDLO	1	5/8	.625	.312	.125	1.51	1.41	1.59	13000	650 ft/min	0.820	0.950

Due to the nature of the DUST STOPPER® drive chain's construction, note the maximum speed limitations. Ambient temperature should not exceed 120 degrees Fahrenheit.

In addition to the items featured in this catalog, the Diamond Chain Company also offers products for specific applications including:

AGRICULTURAL ROLLER CHAIN

Diamond Chain produces a full assortment of agricultural attachments for use with Diamond standard series roller chain.

ATTACHMENT ROLLER CHAIN

Diamond Chain single and double pitch roller chains can be assembled with attachment link plates or extended pins.

CORROSION / MOISTURE RESISTANT ROLLER CHAIN

Diamond Chain produces a full line of corrosion/moisture resistant chains for use in environments where the chains are exposed to moisture or corrosive materials. These chains are available in stainless steel, with nickel plating, and with Diamond Chain's proprietary anti corrosive exterior which features a two stage zinc–nickel and non-hexavalent chromium coating. Standard attachments are also available.

DOUBLE PITCH ROLLER CHAIN

Diamond Chain offers double pitch power transmission and conveyor roller chain. Power transmission chains feature a figure eight style link plate and are ideal for agricultural applications. Conveyor chains are available with an oval contour link plate and can be produced with standard or over-sized rollers, and a variety of attachments. Conveyor chains are intended for applications where loads are low and speeds are moderate.

OIL AND GAS ROLLER CHAIN

Diamond Chain offers a full assortment of API (American Petroleum Institute) certified multi strand roller chain that meets the requirements of Specification 7F. Diamond Chain also produces a narrow width 1 ½ inch pitch and 2 ½ inch pitch chain for use on older rig setups.

PIN OVEN ROLLER CHAIN

Diamond Chain pin oven chains are built with Diamond standard series 60 pitch ANSI chain and are available with bendable, breakaway, or stainless steel carrier pins.

SPECIALTY / MADE-TO-ORDER ATTACHMENTS

Diamond Chain produces a variety of specialty application attachments in addition to producing made-to-order attachments for any application.

For additional information on the Diamond Chain Company, its products and its services, please visit us at www.diamondchain.com or by calling 1-800-872-4246.

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	1¼	1½	1¾	2	2¼	2½	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	1¼	1½	1¾	2	2¼	2½	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

NOTES

NOTES

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