NOTHING OUTLASTS A DIAMOND®

DIAMOND®
CHAIN COMPANY

CONDENSED PRODUCT GUIDE
1110

www.diamondchain.com

DIAMOND
CHAIN COMPANY

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Every Calling Is Great, When Greatly Pursued

At 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 industrial leaders of our time, Diamond® chain is the most trusted roller chain to perform when it matters most.

Diamond Chain Company

Diamond Chain Company has a long history and heritage of producing the highest quality roller chain in the world. By providing the best roller chain possible, Diamond Chain Company provides its customers with unparalleled expertise in drive systems and design, industry-leading wear and fatigue performance, and superior return-on-investment by reducing its customers' total cost-of-ownership through reliability, long service life, and remarkably consistent performance of Diamond® products.

Today, Diamond Chain Company is the leading supplier of high performance roller chains for global power transmission markets serving a diverse range of industries such as oil & gas, industrial automation, agriculture equipment, aerospace & defense, and construction equipment. Diamond chains are exclusively relied upon in mission critical drive systems, and the Diamond brand is synonymous with high performance, high quality, and the highest return-on-investment.

In today's global environment, Diamond Chain Company, while focusing on the increased use of innovative technology, still operates under the same solution-oriented, customer-focused philosophy it was founded on. Diamond Chain Company provides customers with end-to-end services such as application engineering support, customized drive system designs, made-to-order specialty chains, and in-field technical support and analysis. Our goal is to provide our customers not only the highest quality products, but also world-class delivery, service, and support that exceed our customers' expectations.

Take A Closer Look At Diamond

Whether you're an engineer, purchasing agent, or facility manager, today's competitive business environment requires you to be an exceptional business manager as well. Every decision you are called on to make needs to generate lasting results that sustain and enhance your business.

When it comes to selecting roller chain, assessing performance and defining measurable results can be a challenge. How will the roller chain's performance affect your bottom line? Which option will provide consistent results and the highest return on investment? What are the direct and indirect costs that should be used to help guide your final decision?

Diamond Chain Company engineers each of its products with the success of your business in mind. Our complete focus and expertise in roller chain extracts the highest performance from each link you put to service. Our expert associates will help guide you through the technical and business decision process that not only provide the right technical solution for your roller chain application, but also the right business solution for your company.

The Diamond Difference

Materials & Metallurgy

Diamond Chain Company's proprietary metallurgical process is at the very core of the Diamond Difference. It begins with our careful selection of raw materials. Diamond Chain Company specifies the metal grade, mechanical properties, and carbon and alloy content that assure the consistent high performance of every Diamond chain. We also engineer our material chemistry to minimize impurities, which maximizes tensile and fatigue strength.

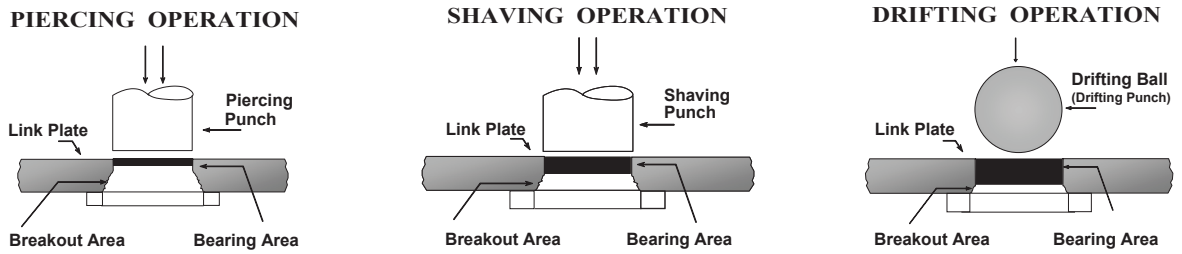
Because of our proprietary material and metallurgical specifications, Diamond chains are able to hold much tighter tolerances during fabrication and product assembly than competing chains. This assures you of reliable high performance that minimizes downtime and keeps your operation running smoothly.

Parts Design

On the surface, roller chain appears to be a simple product. Although there are five basic components to each link, the number of components operating in a finished chain can easily run into the thousands. For example, a 10-foot length of 40 pitch ANSI chain has 1200 parts. Take into consideration the horsepower, high speed, and challenging operating conditions, and the potential for failure is tremendous.

That is why Diamond Chain Company engineers each component to exacting standards, and adheres to a rigorous quality control system to ensure we meet or exceed stringent manufacturing specifications. Diamond chains are able to deliver consistent performance because we forge more than 100 years of experience into every part.

Plate Design: Diamond's multi-stage pitch hole prep on the link plate creates maximum bearing area.

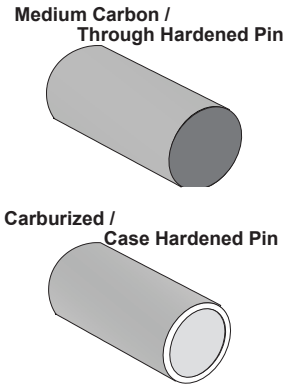


1. **Piercing** produces a hole with limited bearing area.
2. **Shaving** gives the pitch hole greater bearing area and improved surface quality.
3. **Drifting** extrudes the metal further into the hole, making the final hole smooth and burr-free.
4. **Redrifting** leaves a bright and mirror-smooth finish in the hole with beneficial residual compressive stresses.

Heat Treating

Most manufacturers heat treat their components to increase strength and wear properties. However, Diamond Chain Company's proprietary carbon content and special alloy chemistries maximize the effectiveness of the heat treatment process.

Because we always use the highest quality raw materials, we are able to obtain maximum carbon diffusion thanks to the advanced atmosphere control system of our state-of-the-art furnace. This proprietary heat-treating process ensures consistent case hardening depth, which results in maximized wear life, less downtime, and lower costs for you.

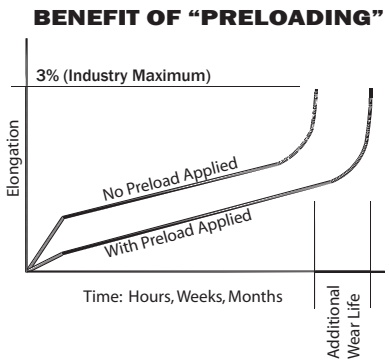


Shot Peening

Shot peening is a process in which metal components can be strengthened by pelting them with metal shot material that transforms the surface properties. Although many manufacturers claim to shot peen, Diamond Chain Company's proprietary shot peen process ensures repeatability of desired shot material, quality, intensity, and 100% shot coverage to meet our stringent quality requirements. This attention to detail assures that you achieve maximum fatigue performance and long life with every Diamond chain.

Preloading

Following assembly, all Diamond chains are preloaded, or "pre-stressed." The preloading operation firmly seats the pins and bushings in place and reduces the initial run-in, which lower quality chains may experience soon after start-up.



Lubrication

A well-engineered chain isn't of much use if it fails prematurely due to poor lubrication. That's why Diamond Chain Company is just as demanding with its lubrication as it is with its chains. Our premium hot dip lubrication features a proprietary formulation for optimum performance. Special additives enhance corrosion protection. The combination of these factors helps maximize chain wear life and minimize initial installation labor.

Quality Precision and Quality Certifications

Although Diamond Chain Company has been in business for more than a century, we are committed to continuous improvement and customer satisfaction. As technologies change and industries evolve, we will do whatever it takes to remain well ahead of the curve.

Our products are extensively tested to ensure they meet the demands of our customers. Qualified inspectors, both during the assembly process and before leaving the assembly department, perform in depth inspections that include:

- Pin and bushing press-out forces
- Assembled chain tensile strength
- Length tolerance

High precision yields high consistency. Operationally, we are committed to the highest standards beyond our ISO 9001 and API certifications.

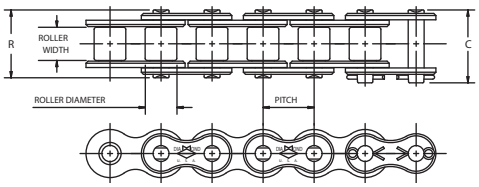
Product Range

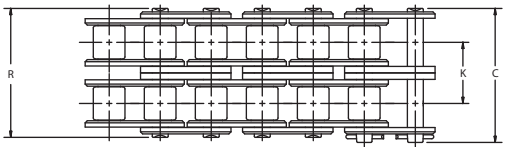
Diamond Chain Company makes a wide variety of roller chains in addition to standard ASME/ANSI single, multiple, and extended pitch chain:

- DURALUBE® Chain
- RING LEADER® Chain
- TUF-FLEX® Chain
- Standard & Specialty Attachment Chain
- Corrosion Resistant Chain
- Made-To-Order Chains

Standard Series Chain

Though it's referred to as standard chain, it's anything but. Our Standard Series chains, built to ASME/ANSI B29.1 standards, are manufactured to very specific requirements. The only thing standard about our chains are their ability to fit many standard applications. From industry to agriculture, our Standard Series chains are designed to last longer than any other manufacturer's roller chain.





Dimensions in Inches and Pounds

ASME/ANSI Number	Pitch Inches	Roller Width	Roller Diameter	Pin Diameter	Link Plate Thickness	C	R	K	Weight Per Foot	Average Tensile Strength
25	1/4	1/8	*.130	.090	.030	.37	.34	....	.084	875
25-2	1/4	1/8	*.130	.090	.030	.63	.59	.252	.163	1750
25-3	1/4	1/8	*.130	.090	.030	.88	.84	.252	.246	2625
35	3/8	3/16	*.200	.141	.050	.56	.50	....	.210	2100
35-2	3/8	3/16	*.200	.141	.050	.96	.90	.399	450	4200
35-3	3/8	3/16	*.200	.141	.050	1.36	1.31	.399	.680	6300
35-4	3/8	3/16	*.200	.141	.050	1.76	1.70	.399	.910	8400
35-5	3/8	3/16	*.200	.141	.050	2.16	2.11	.399	1.140	10500
35-6	3/8	3/16	*.200	.141	.050	2.57	2.51	.399	1.370	12600
40	1/2	5/16	.312	.156	.060	.72	.67	....	.410	4000
40-2	1/2	5/16	.312	.156	.060	1.29	1.24	.566	.800	8000
40-3	1/2	5/16	.312	.156	.060	1.85	1.80	.566	1.200	12000
40-4	1/2	5/16	.312	.156	.060	2.42	2.37	.566	1.600	16000
40-6	1/2	5/16	.312	.156	.060	3.56	3.51	.566	2.420	24000
41	1/2	1/4	.306	.141	.050	.65	.57	....	.260	2400
50	5/8	3/8	.400	.200	.080	.89	.83	....	.704	6600
50-2	5/8	3/8	.400	.200	.080	1.60	1.55	.713	1.399	13200
50-3	5/8	3/8	.400	.200	.080	2.31	2.26	.713	2.090	19800
50-4	5/8	3/8	.400	.200	.080	3.03	2.97	.713	2.784	26400
50-5	5/8	3/8	.400	.200	.080	3.75	3.69	.713	3.470	33000
50-6	5/8	3/8	.400	.200	.080	4.46	4.40	.713	4.169	39600
50-8	5/8	3/8	.400	.200	.080	5.89	5.83	.713	5.555	52800
50-10	5/8	3/8	.400	.200	.080	7.32	7.26	.713	6.930	66000
60	3/4	1/2	.469	.234	.094	1.11	1.04	....	.990	8500
60-2	3/4	1/2	.469	.234	.094	2.01	1.94	.897	1.950	17000
60-3	3/4	1/2	.469	.234	.094	2.91	2.84	.897	2.880	25500
60-4	3/4	1/2	.469	.234	.094	3.81	3.74	.897	3.900	34000
60-5	3/4	1/2	.469	.234	.094	4.71	4.64	.897	4.970	42500
60-6	3/4	1/2	.469	.234	.094	5.60	5.53	.897	5.960	51000
60-8	3/4	1/2	.469	.234	.094	7.40	7.33	.897	7.940	68000
60-10	3/4	1/2	.469	.234	.094	9.19	9.12	.897	9.920	85000
80	1	5/8	.625	.312	.125	1.44	1.32	....	1.730	14500
80-2	1	5/8	.625	.312	.125	2.59	2.47	1.153	3.370	29000

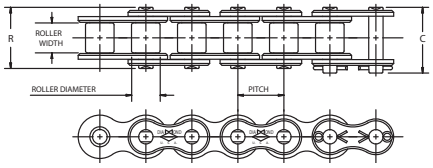
*Chains are rollerless -- dimension shown is bushing diameter.

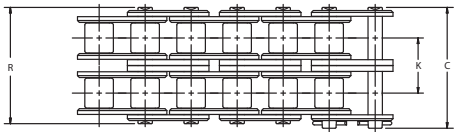
Chart continues on next page.

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.

Standard Series Chain



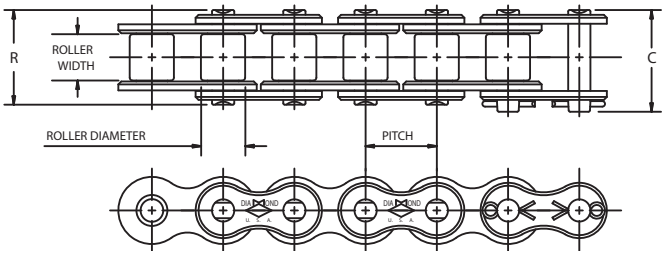


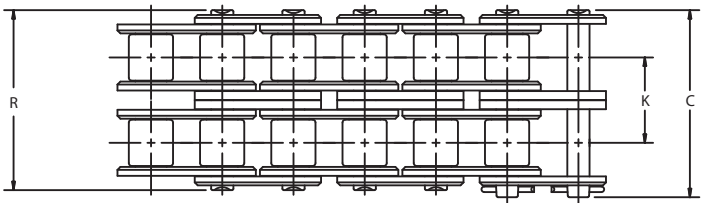
Dimensions in Inches and Pounds

ASME/ANSI Number	Pitch Inches	Roller Width	Roller Diameter	Pin Diameter	Link Plate Thickness	C	R	K	Weight Per Foot	Average Tensile Strength
80-3	1	5/8	.625	.312	.125	3.74	3.62	1.153	5.02	43500
80-4	1	5/8	.625	.312	.125	4.90	4.79	1.153	6.73	58000
80-5	1	5/8	.625	.312	.125	6.06	5.94	1.153	8.40	72500
80-6	1	5/8	.625	.312	.125	7.22	7.10	1.153	10.07	87000
80-8	1	5/8	.625	.312	.125	9.53	9.40	1.153	13.41	116000
100	1 1/4	3/4	.750	.375	.156	1.73	1.61	....	2.51	24000
100-2	1 1/4	3/4	.750	.375	.156	3.14	3.02	1.408	4.91	48000
100-3	1 1/4	3/4	.750	.375	.156	4.56	4.43	1.408	7.40	72000
100-4	1 1/4	3/4	.750	.375	.156	5.97	5.84	1.408	9.80	96000
100-5	1 1/4	3/4	.750	.375	.156	7.38	7.25	1.408	12.20	120000
100-6	1 1/4	3/4	.750	.375	.156	8.78	8.66	1.408	14.60	144000
100-8	1 1/4	3/4	.750	.375	156	11.60	11.48	1.408	19.40	192000
120	1 1/2	1	.875	.437	.187	2.14	2.00	....	3.69	34000
120-2	1 1/2	1	.875	.437	.187	3.93	3.79	1.789	7.35	68000
120-3	1 1/2	1	.875	.437	.187	5.72	5.58	1.789	11.10	102000
120-4	1 1/2	1	.875	.437	.187	7.52	7.38	1.789	14.70	136000
120-5	1 1/2	1	.875	.437	.187	9.31	9.17	1.789	18.43	170000
120-6	1 1/2	1	.875	.437	.187	11.10	10.96	1.789	22.11	204000
120-8	1 1/2	1	.875	.437	.187	14.68	14.54	1.789	29.47	272000
120-10	1 1/2	1	.875	.437	.187	18.26	18.12	1.789	36.83	340000
140	1 3/4	1	1.000	.500	.219	2.31	2.14	....	5.00	46000
140-2	1 3/4	1	1.000	.500	.219	4.24	4.07	1.924	9.65	92000
140-3	1 3/4	1	1.000	.500	.219	6.16	6.00	1.924	14.30	138000
140-4	1 3/4	1	1.000	.500	.219	8.09	7.93	1.924	18.95	184000
140-6	1 3/4	1	1.000	.500	.219	11.94	11.78	1.924	28.25	276000
160	2	1 1/4	1.125	.562	.250	2.73	2.54	....	6.53	58000
160-2	2	1 1/4	1.125	.562	.250	5.04	4.85	2.305	12.83	116000
160-3	2	1 1/4	1.125	.562	.250	7.35	7.16	2.305	19.03	174000
160-4	2	1 1/4	1.125	.562	.250	9.66	9.47	2.305	25.60	232000
160-6	2	1 1/4	1.125	.562	.250	14.27	14.09	2.305	37.78	348000
180	2 1/4	1 13/32	1.406	.687	.281	3.15	2.88	....	9.06	76000
180-2	2 1/4	1 13/32	1.406	.687	.281	5.75	5.48	2.592	17.67	152000
180-3	2 1/4	1 13/32	1.406	.687	.281	8.34	8.07	2.592	26.20	228000
200	2 1/2	1 1/2	1.562	.781	.312	3.44	3.12	....	10.65	95000
200-2	2 1/2	1 1/2	1.562	.781	.312	6.26	5.94	2.817	21.50	190000
200-3	2 1/2	1 1/2	1.562	.781	.312	9.08	8.76	2.817	32.30	285000
200-4	2 1/2	1 1/2	1.562	.781	.312	11.90	11.58	2.817	42.90	380000
200-6	2 1/2	1 1/2	1.562	.781	.312	17.52	17.21	2.817	64.50	570000
240	3	1 7/8	1.875	.937	.375	4.32	3.83	....	17.03	157600
240-2	3	1 7/8	1.875	.937	.375	7.77	7.27	3.458	33.44	315200
240-3	3	1 7/8	1.875	.937	.375	11.23	10.73	3.458	49.77	472800

Non-Standard Series Chain

Prior to the ASME/ANSI standards, Diamond Chain produced many chains having unique dimensions, often for very specific applications. After industry's adoption of ASME/ANSI standards many of these chains became the current Standard or Heavy Series chains, but some did not. Diamond recognizes that a considerable amount of industrial & oilfield equipment still utilize these unique chains and so whenever possible, we continue to produce them. The information below may be useful in identifying your "non-standard, but still very important" model.





Dimensions in Inches and Pounds

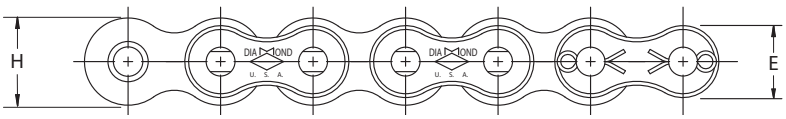
DIAMOND Number	Pitch Inches	Roller Width	Roller Diameter	Pin Diameter	Link Plate Thickness	C	R	K	Weight Per Foot	Average Tensile Strength
867	½	5/16	.335	.174	.060	.73	.68	....	.43	4200
148 x 1/4	5/8	¼	.400	.200	.080	.73	.67	....	.59	6600
148 x 5/16	5/8	5/16	.400	.200	.080	.86	.74	....	.64	6600
433 x 3/8	¾	3/8	.469	.234	.094	.98	.91	....	.91	8500
435 x 3/8	1	3/8	.562	.281	.125	1.14	1.05	....	1.11	9000
435 x 1/2	1	½	.562	.281	.125	1.27	1.18	....	1.21	9000
472	1½	¾	.875	.437	.187	1.86	1.72	....	3.40	34000
472-2	1½	¾	.875	.437	.187	3.45	3.30	1.55	6.76	68000
472-3	1½	¾	.875	.437	.187	5.00	4.85	1.55	10.08	102000
472-4	1½	¾	.875	.437	.187	6.55	6.41	1.55	13.40	136000
264	2 ½	1½	1.562	.875	.375	3.71	3.39	....	13.68	148500
264-3	2 ½	1½	1.562	.875	.375	9.88	9.56	3.083	40.92	445500

Link Plate Height

Many times chains are contained within guides or extrusions to protect them from contamination. If this is the case, link plate height can be a critical dimension. The following charts represent maximum pin and roller link plate heights for the models shown. If more detailed information is required, please contact Diamond's application engineers at app-eng@diamondchain.com or 1-800 US CHAIN.

Dimensions in Inches

*Link Plate Height	Model Number								
	25	35	40	41	50	60	60H	80	80H
E	.205	.308	.410	.310	.512	.615	.615	.820	.820
H	.238	.356	.475	.383	.594	.713	.713	.950	.950

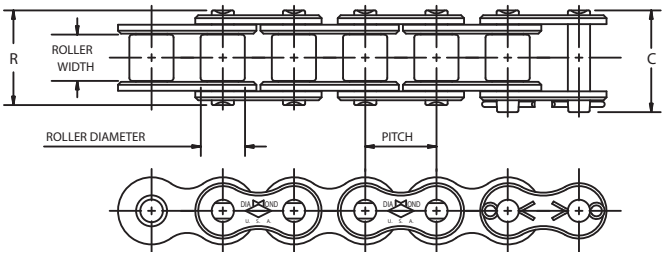


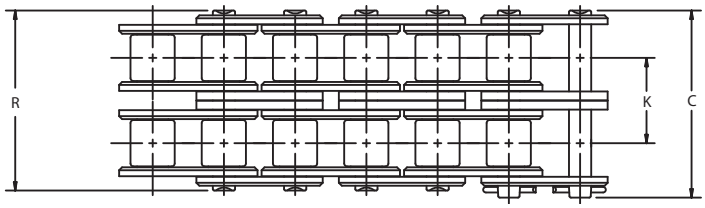
*Link Plate Height	Model Number													
	100	100H	120	120H	140	140H	160	160H	180	180H	200	200H	240	240H
E	1.025	1.025	1.230	1.230	1.435	1.435	1.640	1.640	1.845	1.845	2.050	2.050	2.422	2.422
H	1.188	1.188	1.425	1.425	1.663	1.663	1.900	1.900	2.138	2.138	2.375	2.375	2.806	2.806

*Maximum values are shown. For information on specific models contact Diamond.

Heavy Series Chain

Heavy Series chains, also built in accordance with ASME/ANSI B29.1, are designed using link plate material from the next larger size chain. Heavy Series chains are not necessarily stronger than Standard Series chains, but the thicker link plate material provides an increase in fatigue resistance for those drives subjected to heavy shock loads, multiple stops/starts or reversing.





Dimensions in Inches and Pounds

ASME/ANSI Number	Pitch Inches	Roller Width	Roller Diameter	Pin Diameter	Link Plate Thickness	C	R	K	Weight Per Foot	Average Tensile Strength
60H	¾	½	.469	.234	.125	1.24	1.17	....	1.18	8500
60H-2	¾	½	.469	.234	.125	2.27	2.20	1.028	2.33	17000
60H-3	¾	½	.469	.234	.125	3.31	3.24	1.028	3.47	25500
60H-4	¾	½	.469	.234	.125	4.34	4.26	1.028	4.61	34000
80H	1	5/8	.625	.312	.156	1.57	1.45	....	2.02	14500
80H-2	1	5/8	.625	.312	.156	2.84	2.72	1.283	3.93	29000
80H-3	1	5/8	.625	.312	.156	4.14	4.02	1.283	5.92	43500
80H-4	1	5/8	.625	.312	.156	5.42	5.30	1.283	7.87	58000
100H	1 ¼	¾	.750	.375	.187	1.86	1.74	....	2.82	24000
100H-2	1 ¼	¾	.750	.375	.187	3.41	3.28	1.539	5.58	48000
100H-3	1 ¼	¾	.750	.375	.187	4.95	4.82	1.539	8.32	72000
100H-4	1 ¼	¾	.750	.375	.187	6.49	6.37	1.539	11.04	96000
120H	1 ½	1	.875	.437	.219	2.27	2.13	....	4.08	34000
120H-2	1 ½	1	.875	.437	.219	4.20	4.06	1.924	8.04	68000
120H-3	1 ½	1	.875	.437	.219	6.13	5.99	1.924	11.99	102000
120H-4	1 ½	1	.875	.437	.219	8.06	7.92	1.924	15.94	136000
120H-6	1 ½	1	.875	.437	.219	11.91	11.77	1.924	23.84	204000
140H	1 ¾	1	1.000	.500	.250	2.44	2.28	....	5.40	46000
140H-2	1 ¾	1	1.000	.500	.250	4.50	4.34	2.055	10.65	92000
140H-3	1 ¾	1	1.000	.500	.250	6.56	6.39	2.055	15.90	138000
140H-4	1 ¾	1	1.000	.500	.250	8.62	8.45	2.055	21.10	184000
160H	2	1 ¼	1.125	.562	.281	2.86	2.68	....	7.03	58000
160H-2	2	1 ¼	1.125	.562	.281	5.30	5.12	2.436	13.88	116000
160H-3	2	1 ¼	1.125	.562	.281	7.75	7.56	2.436	20.68	174000
160H-4	2	1 ¼	1.125	.562	.281	10.17	10.00	2.436	27.62	232000
180H	2 ¼	1 13/32	1.406	.687	.312	3.28	3.01	....	9.59	76000
180H-2	2 ¼	1 13/32	1.406	.687	.312	6.00	5.73	2.723	18.86	152000
180H-3	2 ¼	1 13/32	1.406	.687	.312	8.73	8.46	2.723	28.14	228000
200H	2 ½	1½	1.562	.781	.375	3.71	3.39	....	13.38	110000
200H-2	2 ½	1½	1.562	.781	.375	6.79	6.48	3.083	26.38	220000
200H-3	2 ½	1½	1.562	.781	.375	9.88	9.56	3.083	40.85	330000
240H	3	1 7/8	1.875	.937	.500	4.85	4.35	....	21.08	157600

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.

High Strength/Lift Chain

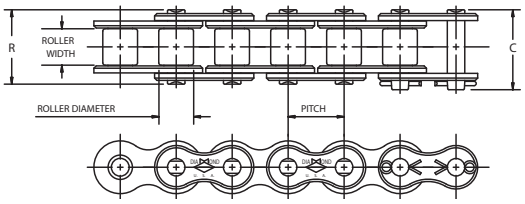
Produced in accordance with ASME/ANSI B29.1, these chains are designed for the rigors of heavy loads and lifting. Depending on your specific application, Diamond offers four options from which to choose:

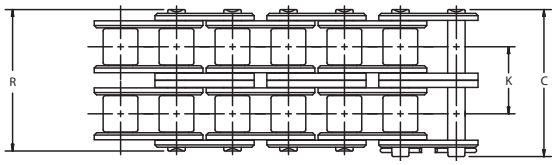
High Strength Drive Chain, High Strength Oval Contour Drive Chain, Hoist Chain or Rollerless Lift Chain

High Strength (HS) Drive Chain

HS Series Drive chains are built in accordance with ASME/ANSI B29.1 and are dimensionally identical to Heavy Series Drive chains, but are specially designed and incorporate pins produced from medium carbon alloy steel. These pins are through-hardened to give the chain a higher working load capacity and additional resistance to fatigue in high load and pulsating type applications. Users of these chains should remember that wear life may be slightly reduced due to the material and heat treatment of the chain pins. Slip-fit type connecting links and offset links are not available for these chains.

Note: *Offset links and slip fit connecting links are not recommended for any High Strength or Lift Chain.*



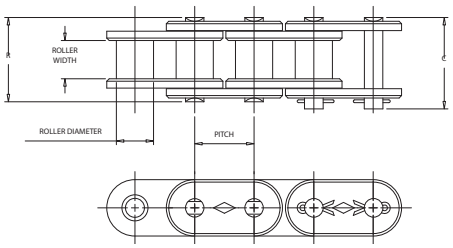


Dimensions in Inches and Pounds

DIAMOND Number	Pitch Inches	Roller Width	Roller Diameter	Pin Diameter	Link Plate Thickness	C	R	Weight Per Foot	Average Tensile Strength
60HS	¾	½	.469	.234	.125	1.24	1.17	1.18	12000
80HS	1	5/8	.625	.312	.156	1.57	1.45	2.02	21000
100HS	1 ¼	¾	.750	.375	.187	1.86	1.74	2.82	30000
120HS	1 ½	1	.875	.437	.219	2.27	2.13	4.08	41000
140HS	1 ¾	1	1.000	.500	.250	2.44	2.28	5.40	56000
160HS	2	1 ¼	1.125	.562	.281	2.86	2.68	7.03	70000
180HS	2 ¼	1 13/32	1.406	.687	.312	3.28	3.01	9.59	95000
200HS	2 ½	1 ½	1.562	.781	.375	3.71	3.39	13.75	136000
200HS-2	2 ½	1 ½	1.562	.781	.375	6.79	6.48	26.38	270000
200HS-3	2 ½	1 ½	1.562	.781	.375	9.88	9.56	40.85	405000
240HS	3	1 7/8	1.875	.937	.500	4.85	4.35	21.08	157600

High Strength (HSOC) Oval Contour Drive Chains

For the ultimate in Diamond Chain High Strength performance, consider Diamond HS Oval Contour chains. Specially designed with pins produced from medium carbon alloy steel and FULL Oval Contour pin and roller link plates, providing the maximum link plate rigidity for high load fatigue applications.



Note: *Offset links and slip fit connecting links are not recommended for any High Strength or Lift Chain.*

Dimensions in Inches and Pounds

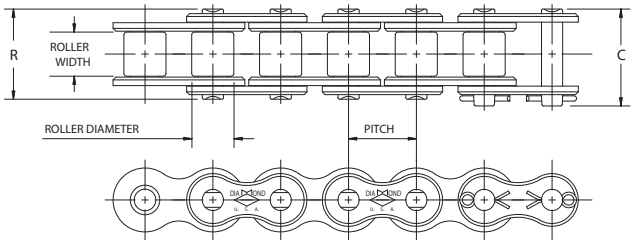
DIAMOND Number	Pitch Inches	Roller Width	Roller Diameter	Pin Diameter	Link Plate Thickness	C	R	Weight Per Foot	Average Tensile Strength
60HSOC	¾	½	.469	.234	.125	1.24	1.17	1.42	12000
80HSOC	1	5/8	.625	.312	.156	1.57	1.45	2.38	21000
100HSOC	1 ¼	¾	.750	.375	.187	1.86	1.74	3.29	30000

High Strength/Lift Chain

Hoist Chain

These chains are built in accordance with ASME/ANSI B29.24 and are dimensionally identical to Standard Series Drive chains, but also incorporate pins produced from medium carbon alloy steel, through-hardened, to give the chains higher working load capacity and additional resistance to fatigue. Additionally, these chains are produced with solid rollers for increased performance when loading is high, but speeds are slow. Users of these chains should be aware that wear life may be slightly reduced due to the material and heat treatment of the chain pins.

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



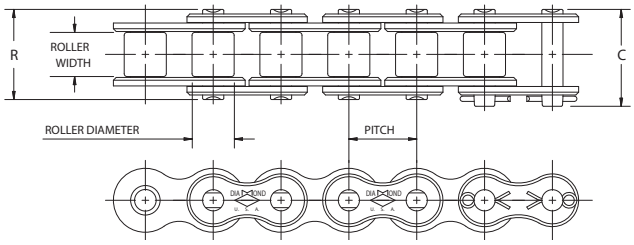
Dimensions in Inches and Pounds

DIAMOND Number	Pitch Inches	Roller Width	Roller Diameter	Pin Diameter	Link Plate Thickness	C	R	Weight Per Foot	Average Tensile Strength
625	5/8	3/8	.400	.200	.080	.89	.83	.68	8000
750	¾	½	.469	.234	.094	1.11	1.04	.99	10500

Rollerless Lift Chain

These chains are specifically designed for tension linkages where frequent articulation requires the increased bearing area of a roller chain. Rollerless Lift chains are dimensionally identical to Standard Series Drive chains but are produced without rollers.

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



Dimensions in Inches and Pounds

DIAMOND Number	Pitch Inches	Roller Width	Roller Diameter	Pin Diameter	Link Plate Thickness	C	R	Weight Per Foot	Average Tensile Strength
55S	5/8	3/8	*.280	.200	.080	.89	.83	.55	†8000
65S	¾	½	*.332	.234	.094	1.11	1.04	.81	†10500
85	1	5/8	*.442	.312	.125	1.44	1.32	1.41	14500
105	1 ¼	¾	*.532	.375	.156	1.73	1.61	2.08	24000
125	1½	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.

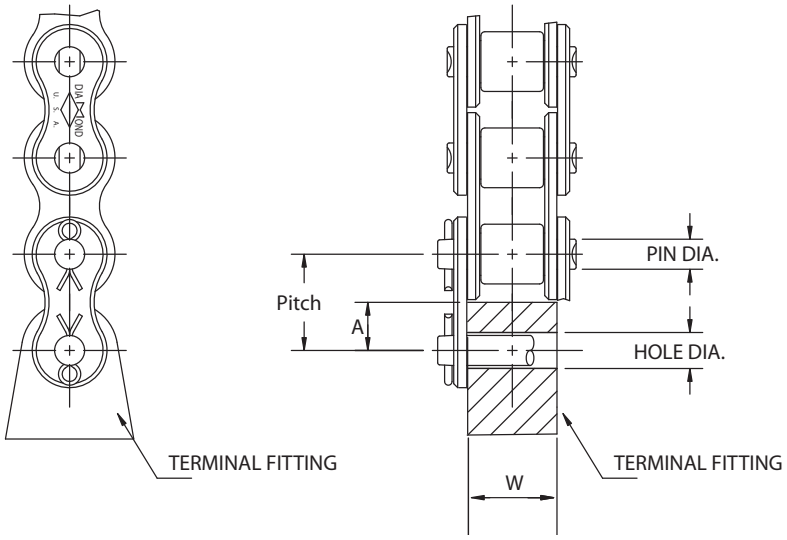
Terminal Fittings

Diamond does not provide terminal fittings. We recommend that fittings be made of through-hardened steel, heat treated to RC 40-45. They should be machined accurately to ensure proper mating with chain link plates and to provide uniform loading across the width of the chain. Chains should always be attached to the terminal fittings using a press-fit style connecting link. Terminal fittings should be inspected regularly and the above conditions maintained. Worn, damaged or corroded chains and/or terminal fittings can lead to chain failure which may result in either personal injury or property damage.

Dimensions in Inches and Pounds

Diamond Number	Pitch Inches	W +.000-.031	Pin Dia.	Hole Dia.	A (max.)
60 H or HS	¾	.764	.234	.237	.375
80 H or HS	1	.955	.312	.315	.500
100 H or HS	1 ¼	1.141	.375	.378	.625
120 H or HS	1 ½	1.458	.437	.440	.750
140 H or HS	1 ¾	1.523	.500	.503	.875
160 H or HS	2	1.838	.562	.565	1.000
180 H or HS	2 ¼	2.058	.687	.690	1.125
200 H or HS	2 ½	2.285	.781	.784	1.250
625	5/8	.542	.200	.203	.312
750	¾	.696	.234	.237	.375
55 S*	5/8	.542	.200	.203	.312
65 S*	¾	.696	.234	.237	.375
85*	1	.886	.312	.315	.500
105*	1 ¼	1.076	.375	.378	.625
125*	1 ½	1.390	.437	.440	.750

*Chains are rollerless



Oilfield Chain

American Petroleum Institute

7F-0003

Roller chains used in the oil and gas industries are subjected to some of the greatest loads and harshest environments. These conditions are far more severe than usually found in industrial applications. These "Oilfield" chains can be either single strand or multiple strands and are typically constructed using Heavy Series components.

We produce our Oilfield chains with the same attention to detail that goes into all our products, but additionally these models are subjected to the most up to date API (American Petroleum Institute) Specification 7F performance testing. By examining the label on the box which proudly displays the API logo, users of our chains can be certain that they are receiving the highest quality, best-performing product available. Only those companies which have established quality systems, approved and routinely audited, are authorized to display this symbol.

It is highly recommended that multiple strand chains used in oilfield applications be constructed with press-fit center plates. More information about press-fit construction is available online at www.diamondchain.com or in the Diamond Oilfield Brochure. Diamond also produces a narrow width 1-1/2" pitch roller chain for some of the older rigs and associated equipment as well as 2-1/2" pitch chain with a special larger pin diameter. These chains do not fall under the ASME/ANSI standards and therefore are not covered by API. Diamond still produces these non-standard chains to the highest quality standards, ensuring its superior performance.

Corrosion/Moisture Resistant Chain

Diamond Chain produces a full line of corrosion/moisture resistant chains for a variety of uses in environments where the chains are exposed to moisture or corrosive materials. Common uses for Nickel-Plated chains and Diamond ACE chains include applications exposed to the weather, high humidity or those on machines that are frequently washed down with water. Standard attachments are available with quick delivery.

Moisture Resistance: Moisture resistance is the chain's ability to resist iron oxidation (red rust). This oxidation attacks the base material of the chain and can weaken it, ultimately resulting in premature chain drive failure. Stainless steel chains offer the optimum in moisture resistance, but may be too costly. For many of these applications, either Nickel-Plated or ACE may offer the user an acceptable solution.

Corrosion Resistance: Corrosion resistance is a measure of the chain's ability to resist attack from caustic chemicals or acids, and stainless steel chains are most often recommended for applications such as these.

Note: *The Nickel-Plated and ACE chains are not intended to resist corrosion from caustic chemicals or acids; however, depending upon the specific chemicals or concentrations, Nickel-Plated or ACE may offer an acceptable alternative to higher priced stainless steel chain. For those types of applications not suitable to Nickel-Plated or ACE, stainless steel chain is recommended.*

Contact Diamond's Application Engineers at app-eng@diamondchain.com or 1-800 US CHAIN to get more information on for assistance in selecting the proper chain for your application.

Nickel-Plated Chain

Diamond Nickel-Plated chain is different from many rust-resistant chains because Diamond electroless nickel plates all of the components before assembly, virtually eliminating the possibility of stress-corrosion cracking. Pre-assembly plating also ensures all components are plated, which prevents internal rust from seeping out and causing contamination. Standard attachments are available with quick delivery. See the standard attachment chain section on the Diamond website at www.diamondchain.com.

Diamond ACE®

Diamond ACE (Anti-Corrosion Exterior) chain is uniquely designed with a special protective exterior coating that is applied to the component parts prior to assembly. Pre-assembly coating ensures all component parts are thoroughly treated, which prevents internal rust from seeping out and causing contamination. The protective coating serves as an insulating barrier that actually oxides before the carbon steel base chain, thus protecting and preserving the chain's physical and structural integrity. Common uses for Diamond ACE include applications exposed to weather, high humidity or on machinery that is routinely washed down with water. Standard attachments are available with quick delivery. See standard attachment chain section on the Diamond website at www.diamondchain.com.

Stainless Steel Chain

Diamond produces a wide range of Single-Pitch Drive and Double Pitch Conveyor chains manufactured in four combinations of stainless steel depending upon the specific application.

AP Stainless Chain: This chain is assembled using 300 Series (austenitic stainless) link plates, bushings and rollers along with a precipitation-hardened stainless steel pin. This combination increases the wear life of this chain over those constructed entirely of 300 Series components. AP Stainless chains are well suited for food processing and are approved by the Food and Drug Administration. AP Stainless will be supplied unless otherwise specified.

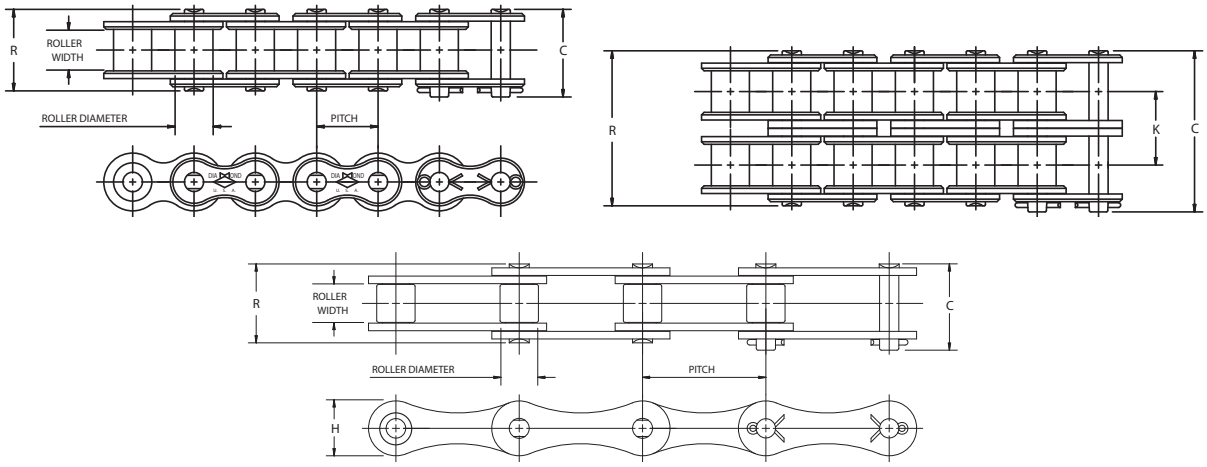
To learn more about the various resistance levels of these chains against certain substances, please consult the Diamond Corrosion/Moisture Resistant Chain Brochure. Information on this subject may also be found on our website at www.diamondchain.com or by contacting a Diamond Application Engineer at app.eng@diamondchain.com or 1-800 US CHAIN.

Special Lubricated Chain

When the environment or location of your roller chain drive is such that regular lubrication is not possible or practical, consider Diamond Chain's Special Lubricated chains. Diamond offers three types of chain designed specifically to deliver the highest level of performance – even in applications that can't or don't receive proper lubrication.

DURALUBE® Chain

For applications where regular lubrication is a challenge, DURALUBE can offer a longer lasting solution. This chain is constructed using a one-piece powdered metal bushing/roller combination which has lubricant drawn in under vacuum. In service, this lubricant is released and provides supplemental lubrication to the pin/bushing joint between regularly scheduled maintenance. Generally, the wear life of DURALUBE chain can be five times that of standard (initially lubricated only) chain.



Dimensions in Inches and Pounds

DIAMOND Number	Pitch Inches	Roller Width	Roller Diameter	Pin Diameter	Link Plate Thickness	C	R	K	Weight Per Foot	Average Tensile Strength
40-DL	½	5/16	.312	.156	.060	.72	.67	....	.40	3300
40-2-DL	½	5/16	.312	.156	.060	1.29	1.24	.566	.81	6600
50-DL	5/8	3/8	.400	.200	.080	.89	.83	....	.65	5200
50-2-DL	5/8	3/8	.400	.200	.080	1.60	1.55	.713	1.27	10400
60-DL	¾	½	.469	.234	.094	1.11	1.04	....	.95	7400
60-2-DL	¾	½	.469	.234	.094	2.01	1.94	.897	1.85	14800
80-DL	1	5/8	.625	.312	.125	1.44	1.32	....	1.60	13000
2040-DL	1	5/16	.312	.156	.060	.76	.68	....	.30	3300
2050-DL	1 ¼	3/8	.400	.200	.080	.92	.84	....	.47	5200
2060-DL	1½	½	.469	.234	.094	1.11	1.05	....	.70	7400

Attachments for pin link only. Consult Diamond for standard attachment availability.

Due to the nature of DURALUBE chain's construction, the following speed and temperature limitations should be considered prior to the chain's selection or installation.

Single-Pitch	Max. Speed
40	1300 ft/min
50	1000 ft/min
60	850 ft/min
80	650 ft/min

Ambient temperature should not exceed 120° F.

Double-Pitch	Max. Speed
2040	600 ft/min
2050	600 ft/min
2060	600 ft/min

Ambient temperature should not exceed 120° F.

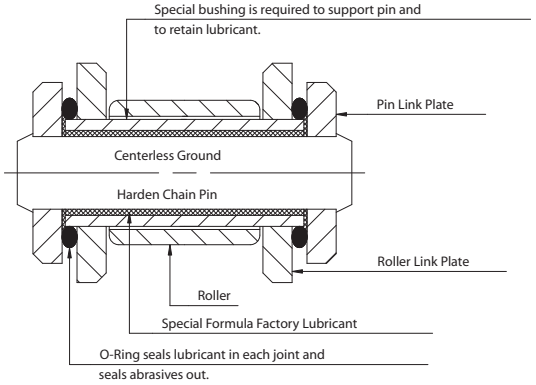
Special Lubricated Chain

RING LEADER® O-Ring Chain

Diamond's RING LEADER O-Ring chain is specifically designed for applications that don't permit regular lubrication, requiring the chain to depend entirely upon initial factory lubrication throughout its service life. Depending upon the specific conditions, RING LEADER can provide up to ten times the wear life of standard chain.

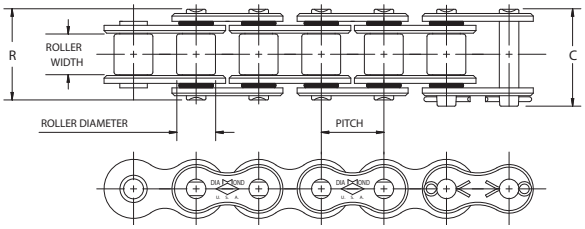
Industries such as agriculture, food processing, packaging, printing, textile and chemical processing can introduce contaminants that damage standard chain. Dirt, mud, food particles, paper fines, dust and moisture can cause buildup on the chain and clog the openings on standard roller chain where lubrication enters the pin/bushing area. These contaminants can even get inside the chain, actually damaging the surface of pins and bushings.

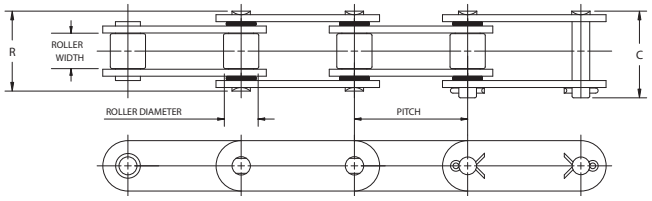
RING LEADER O-Ring chain is constructed with O-rings that seal a specially formulated lubricant into every joint. This sealed in lubricant is essential for the chain's optimum wear life and the O-rings also help to seal out and protect the internal surfaces from dirt, contaminants and moisture. Diamond recommends that RING LEADER O-Ring chain receive periodic external lubrication to maintain moisture on the external O-ring surfaces and to lubricate roller/sprocket contact surfaces.



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.*

Because the RING LEADER chain lasts up to ten times longer than regular chain, overall economy of operation is improved. With lubrication already sealed into the chain, maintenance expense is lowered. RING LEADER O-Ring chain experiences less wear elongation during normal operation, thus providing a longer service life. Life cycle costs of RING LEADER chain can be dramatically less than for standard chain in certain applications which translates into longer lasting roller chain and a real cost savings.





Dimensions in Inches and Pounds

DIAMOND Number	Pitch Inches	Roller Width	Roller Diameter	Pin Diameter	Link Plate Thickness	C	R	Weight Per Foot	Average Tensile Strength
50 XLO	5/8	3/8	.400	.200	.080	.95	.89	.72	6500
50H XLO	5/8	3/8	.400	.214	.094	1.02	.96	.93	9300
60 XLO	¾	½	.469	.234	.094	1.21	1.13	1.01	7700
80 XLO	1	5/8	.625	.312	.125	1.51	1.41	1.77	13500
100 XLO	1 ¼	¾	.750	.375	.156	1.83	1.74	2.55	22000
120 XLO	1 ½	1	.875	.437	.187	2.24	2.12	3.76	30000
140 XLO	1 ¾	1	1.000	.500	.219	2.49	2.35	5.10	42000
160 XLO	2	1 ¼	1.125	.562	.250	2.96	2.82	6.66	52000
C2050 XLO	1 ¼	3/8	.400	.200	.080	.95	.89	.59	6500
C2060H XLO	1 ½	½	.469	.234	.125	1.27	1.21	1.17	7700

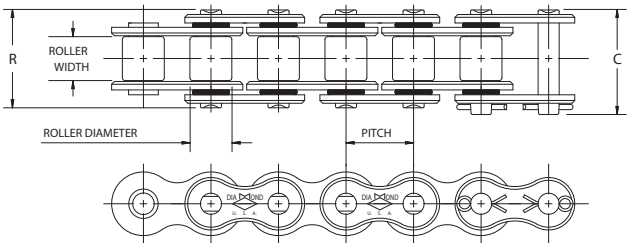
Special Lubricated Chain

DUST STOPPER™ Chain

For applications which require the combined benefits of DURALUBE® design construction and RING LEADER® style O-rings and a specially formulated lubricant, DUST STOPPER offers the utmost in specialized protection.

- Seals dust, dirt and debris out
- Seals lubrication in
- Very minimal, if any, secondary lubrication required
- Improved wear resistance and toughness
- Combines the advantages of two proven Diamond products:
  RING LEADER O-Ring Chain and DURALUBE Self-lubrication Chain

DUST STOPPER uses a one piece powdered metal bushing/roller combination which has lubricant drawn in under vacuum and is constructed with O-rings that seal a specially formulated lubricant into every joint. Wear life of DUST STOPPER chain is significantly greater than that of standard (initially lubricated only) chain. Due to the nature of DUST STOPPER chain's design and construction, ambient temperature should not exceed 120° F and maximum speed limitations should be considered prior to the chain's selection or installation.



Dimensions in Inches and Pounds

Diamond Number	Pitch Inches	Roller Width	Roller Diameter	Pin Diameter	Link Plate Thickness	C	R	Weight Per Foot	Average Tensile Strength	Max. Speed ft/min
40 XDLO	½	5/16	.312	.156	.060	.78	.73	.43	3300	1300
50 XDLO	5/8	3/8	.400	.200	.080	.95	.59	.68	5200	1000
60 XDLO	¾	½	.469	.234	.094	1.21	1.13	.95	7400	850
80 XDLO	1	5/8	.625	.312	.125	1.51	1.41	1.59	13000	650

Attachment Chain

Single-Pitch and Double-Pitch chains are available assembled with either attachment link plates or extended pins. Contact Diamond to learn more about our various expedited shipping program details or if you have any questions when designing or specifying attachment chains.

Double-Pitch Roller Chain

Double-Pitch Power Transmission Roller Chain

These chains, produced to ASME/ANSI B29.3, have figure-eight style link plates. Their dimensions are similar to Standard Series chains with the exception of the pitch, which is twice that of the Standard Series chains. The increase in pitch means that only half the number of component parts are required per foot which can significantly lower the cost. Typical uses for these types of chains include light load drives commonly found in agricultural machinery.

Double-Pitch Conveyor Roller Chain

Produced to ASME/ANSI B29.4, these chains are used in conveyor applications when loads are low and speeds are moderate. They are similar to the Double-Pitch Power Transmission chains, but with link plates that have an oval contour, and can be produced with either standard or over-sized rollers. They are most often found working on conveyors of all shapes and sizes and can be supplied with one or more of our many attachments to carry or convey products.

Length Matching of Roller Chains

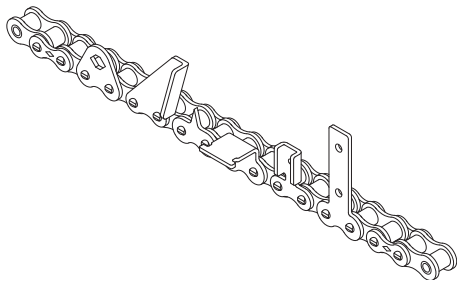
Many applications require two or more chains, normally with attachments, to run in parallel with “flights” joining the chains together forming a conveyor or transfer type system. In these cases, it is critical to have the chains ordered as a set, matched for length and installed on the machinery with the same relationship to one another as when they were manufactured. Diamond offers two degrees of matching for parallel operation: Class 1 and Class 2.

- **Class 1** match assures that the longest and the shortest chain in a given set will not vary in overall length by more than .006”/ft. Class 1 matching is most often accomplished by assembling the chains from selected lots of component parts.
- **Class 2** match is much more stringent and assures that the longest and the shortest chain in a given set will not vary in overall length by more than .002”/ft. Class 2 matching is quite difficult and requires some very unique procedures.

Specialty/Made-to-Order Chains

Can’t find a standard series chain or standard attachment to fit your application needs? Give Diamond a call. Our applications engineers stand ready to assist you in designing or selecting the Diamond chain to best suit your application. Some but not all of the special application chains available include:

- Pin Oven Chains
- RING LEADER® O-ring Attachment Chains
- Bindery Chains
- Plastic Film Feeder Chains
- Serrated Top Chains
- POWER CURVE® Chains
- TUF-FLEX® Chains
- Straight Running and Side-Flexing Roller Chains
- Coupling Chains
- Micropitch® Chains
- Powersports Chains



Plus many custom-designed attachments for Made-to-Order Attachment Chains.

Chain Tools

Roller chain connecting tools and pin extractor tools come in a variety of sizes to fit your application and help make chain repair or replacement safe and easy. Pin Extractor Tools come in 3 varieties: small - PE113 for chain models 25-60H; large - PE135 for chain models 80 - 100H; and extra-large - PERE157 for chain models 120-160. Chain Connecting Tools come in 3 varieties as well: small - CT35 for chain models 35-60H; large - CT80 for chain models 80-240; and large cable style - CT80-CABLE for chain models 80-240.

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

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