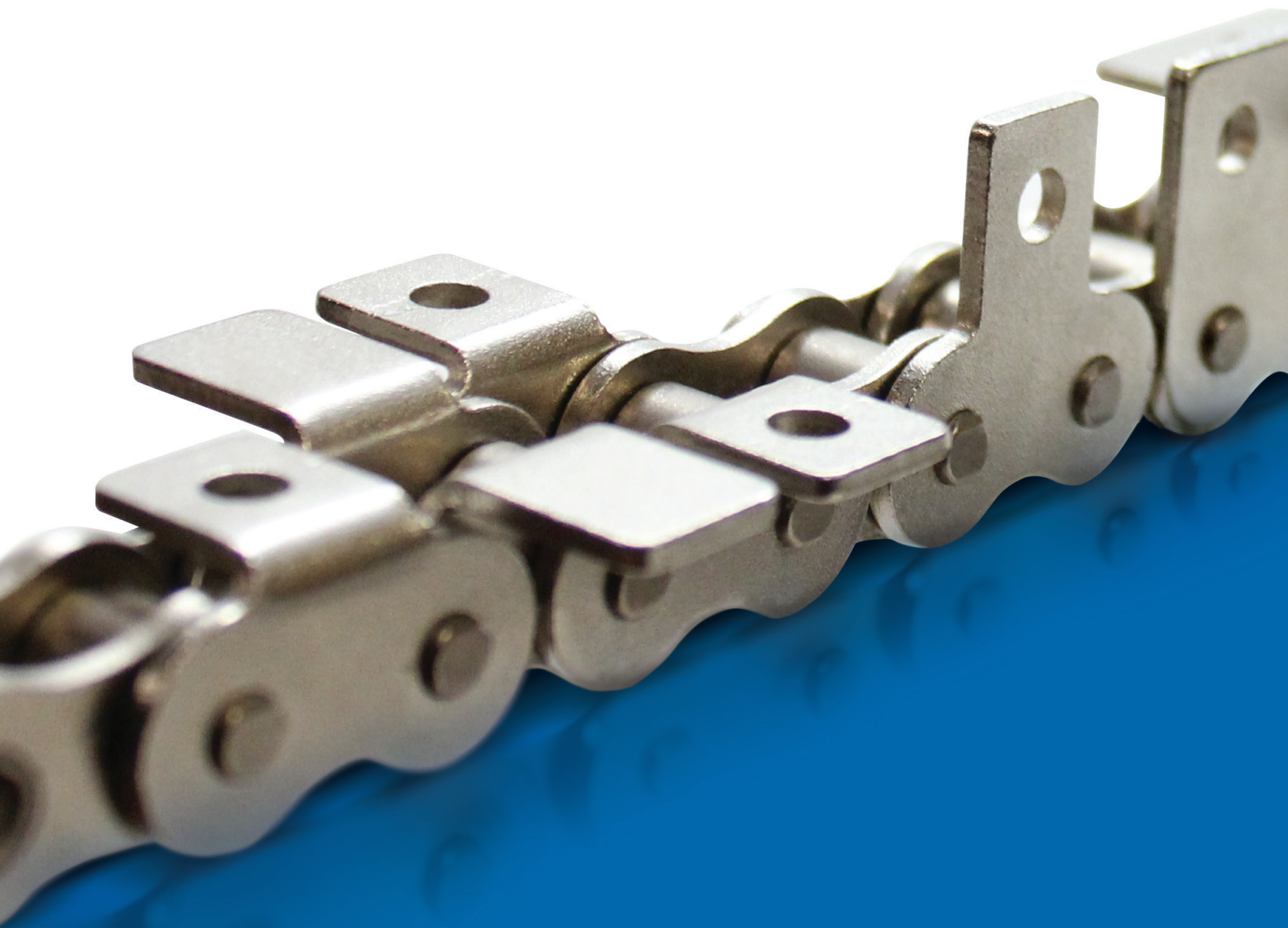




Diamond Series Attachment Chain

Diamond Attachment Chain

Since 1890, Diamond has been setting the standard for high quality industrial roller chain. The same performance and attention to detail upon which the company was founded is also available in Made To Order Attachment Chain.

- ◆ Diamond Dash Express Program – shipment of most popular attachments and sizes within three to five business days of order confirmation
- ◆ Detailed drawings provided with each quote – electronic configurator provides part descriptions and detailed drawings allowing chain verification before the order is placed
- ◆ Advanced custom attachment capability – laser fabrication cell allows precise and rapid creation of custom attachments, with minimal or no tooling required

Diamond Dash

Shipping standard attachment chain in as few as three to five business days of order confirmation

Diamond has always delivered **superior performance** and **superior return on investment**; these enhancements to the Made To Order Attachment Chain program enable delivery of that product faster than ever before.

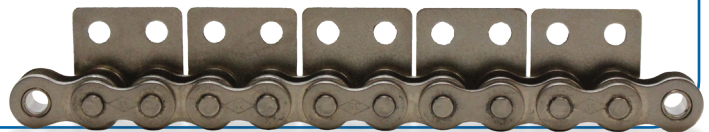


The Diamond Dash program utilizes dedicated people, inventory and production facilities to ship standard attachment chain in as few as three to five business days of order confirmation. Availability includes:

- ◆ Standard: straight, bent, wide contour and extended pin attachments
- ◆ Multiple chain types and sizes
 - Carbon Steel Chain: ANSI #35-100; C2040-C2050; C2060H-C2080H
 - Diamond ACE® Chain: ANSI #40-100; C2040-C2050; C2060H-C2080H
- ◆ For orders up to 100 feet
- ◆ Class 1 and 2 length matching optional
- ◆ Qualifying orders automatically processed as Diamond Dash

NOTE:

All qualifying Diamond Dash orders will contain Diamond ACE® attachments; base chain options can be specified as carbon steel or Diamond ACE

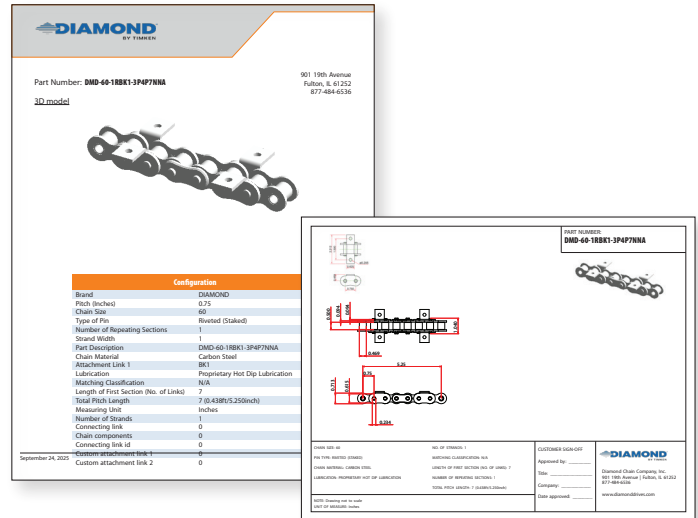
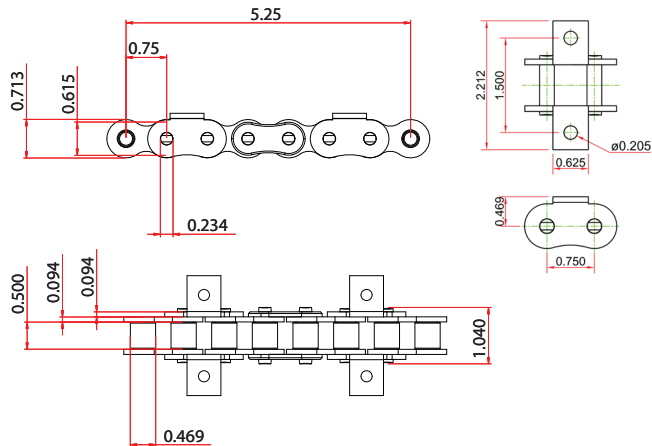


Electronic Configurator

Detailing drawings and part number provided with each quote

Each quote for standard attachment chain now includes detailed drawings and part descriptions provided by the Diamond electronic configurator. This provides verification that the made-to-order chain will be produced exactly as needed.

For more information, visit: <https://chain.timken.com>



Custom Attachment Offerings

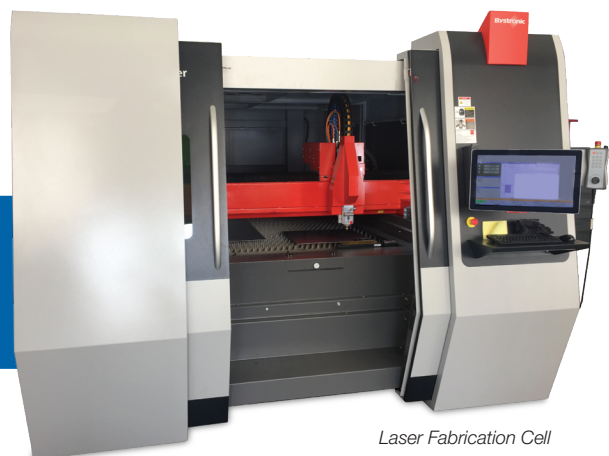
Laser fabrication cell allows precise, rapid custom part development

At Diamond-Drives, a laser fabrication cell is dedicated to the production of attachment components. While traditional presses are still used for high-volume attachments, low volume or custom attachments can be quickly and precisely produced without the need for traditional tooling or long setup/changeover times. The laser cell uses the same quality materials as standard attachments, and an extensive inventory of raw materials ensure the ability to produce attachments for the desired chain size.

Please contact your sales representative or Diamond customer service to submit a custom attachment chain order.

NOTE:

The laser fabrication cell replaces the need for a traditional punch press for component fabrication. Tooling may be required for bent attachments.



Laser Fabrication Cell

Standard Attachment Offerings

Diamond offers a wide assortment of standard attachments, along with the ability to create custom attachments via a dedicated laser fabrication cell. The laser fabrication cell can create custom attachments quickly, often with zero or a reduced tooling cost.

Single Pitch Attachments

Base Chain Availability	Max Length	Carbon Steel	Diamond ACE®	Stainless Steel	Ring Leader™ XLO O-Ring	Duralube® LIVE®	Sidebow
Diamond Dash	100'	35-100	40-100	-	-	-	-
Standard program	no limit	25-160	40-120	25-80	50-120	40-80	40-60



SA1
Straight Link Plate
One Side - One Hole



SK1
Straight Link Plate
Two Sides - One Hole



BA1
Bent Link Plate
One Side - One Hole



BK1
Bent Link Plate
Two Sides - One Hole



D1
One Pin Extended



D3
Two Pins Extended

Wide Contour Attachments

Base Chain Availability	Max Length	Carbon Steel	Diamond ACE®	Stainless Steel	Ring Leader™ XLO O-Ring	Duralube® LIVE®	Sidebow
Diamond Dash	100'	35-100	40-100	-	-	-	-
Standard program	no limit	35-120	40-120	35-80	50-120	40-80	-



WBA2
Wide Contour Bent
One Side - Two Holes



WBK2
Wide Contour Bent
Two Sides - Two Holes



WSA2
Wide Contour Straight
One Side - Two Holes



WSK2
Wide Contour Straight
Two Sides - Two Holes

Double Pitch Attachments

Base Chain Availability	Max Length	Carbon Steel	Diamond ACE®	Stainless Steel	Ring Leader™ XLO O-Ring	Duralube® LIVE®	Sidebow
Diamond Dash	100'	C2040-C2080H	C2040-C2080H	-	-	-	-
Standard program	no limit	C2040-C2160H	C2040-C2080H	C2040-C2080H	-	-	-



SA1
Straight Link Plate
One Side - One Hole



SA2
Straight Link Plate
One Side - Two Holes



SK1
Straight Link Plate
Two Sides - One Hole



SK2
Straight Link Plate
Two Sides - Two Holes



D1
One Pin Extended



D3
Two Pins Extended



BA1
Bent Link Plate
One Side - One Hole



BA2
Bent Link Plate
One Side - Two Holes



BK1
Bent Link Plate
Two Sides - One Hole



BK2
Bent Link Plate
Two Sides - Two Holes

**Attachments available on pin link plate only*

CLASS 1 MATCHING

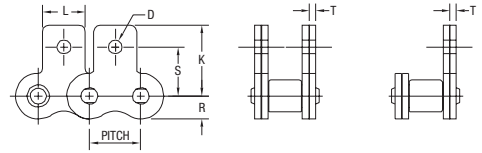
Ensures the longest and shortest chain in a set do not vary in length by more than 0.030 inches (0.76mm).

CLASS 2 MATCHING

Ensures the longest and shortest chain in a set do not vary in length by more than 0.020 inches (0.51mm).

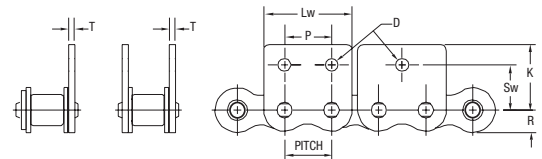
Attachment Dimensions

Standard Straight Attachments: SA1, SK1



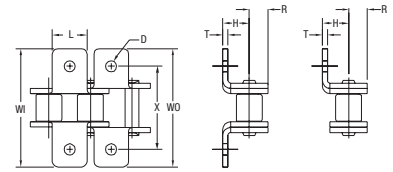
ASME/ANSI Number	Pitch	D	K	L	R Max.	S	T
	in mm	in mm	in mm	in mm	in mm	in mm	in mm
25	0.250 6.35	0.125 3.18	0.451 11.455	0.218 5.54	0.119 3.02	0.308 7.82	0.030 0.76
35	0.375 9.53	0.102 2.59	0.577 14.656	0.312 7.92	0.178 4.52	0.387 9.83	0.050 1.27
40	0.500 12.70	0.141 3.58	0.684 17.374	0.375 9.53	0.238 6.05	0.489 12.42	0.060 1.52
41	0.500 12.70	0.141 3.58	0.698 17.729	0.375 9.53	0.192 4.88	0.482 12.24	0.050 1.27
50	0.625 15.88	0.203 5.16	0.895 22.733	0.500 12.70	0.297 7.54	0.618 15.70	0.080 2.03
60	0.750 19.05	0.203 5.16	1.038 26.365	0.625 15.88	0.356 9.04	0.716 18.19	0.094 2.39
80	1.000 25.40	0.266 6.76	1.339 34.011	0.750 19.05	0.475 12.07	0.968 24.59	0.125 3.18
100	1.250 31.75	0.343 8.71	1.696 43.078	1.000 25.40	0.594 15.09	1.233 31.32	0.156 3.96
120	1.500 38.10	0.386 9.80	2.024 51.410	1.125 28.58	0.713 18.11	1.424 36.17	0.187 4.75
140	1.750 44.45	0.448 11.38	2.445 62.103	1.375 34.93	0.831 21.11	1.750 44.45	0.220 5.59
160	2.000 50.80	0.516 13.11	2.756 70.002	1.500 38.10	0.950 24.13	2.007 50.98	0.250 6.35

Wide Contour Straight Attachments: WSA1, WSA2, WSK1, WSK2



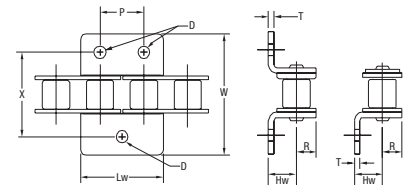
ASME/ANSI Number	Pitch	D	K	Lw	P	R Max.	Sw	T
	in mm	in mm	in mm	in mm	in mm	in mm	in mm	in mm
35	0.375 9.53	0.125 3.18	0.577 14.66	0.727 18.47	0.375 9.53	0.178 4.52	0.399 10.13	0.050 1.27
40	0.500 12.70	0.141 3.58	0.684 17.37	0.946 24.03	0.500 12.70	0.238 6.05	0.503 12.78	0.060 1.52
41	0.500 12.70	0.141 3.58	0.698 17.73	0.878 22.30	0.500 12.70	0.192 4.88	0.482 12.24	0.050 1.27
50	0.625 15.88	0.203 5.16	0.895 22.73	1.211 30.76	0.625 15.88	0.297 7.54	0.618 15.70	0.080 2.03
60	0.750 19.05	0.203 5.16	1.038 26.37	1.420 36.07	0.750 19.05	0.356 9.04	0.716 18.19	0.094 2.39
80	1.000 25.40	0.266 6.76	1.339 34.01	1.885 47.88	1.000 25.40	0.475 12.07	0.967 24.56	0.125 3.18
100	1.250 31.75	0.343 8.71	1.696 43.08	2.362 59.99	1.250 31.75	0.594 15.09	1.233 31.32	0.156 3.96
120	1.500 38.10	0.386 9.80	2.023 51.38	2.836 72.03	1.500 38.10	0.713 18.11	1.424 36.17	0.187 4.75

Standard Bent Attachments: BA1, BK1



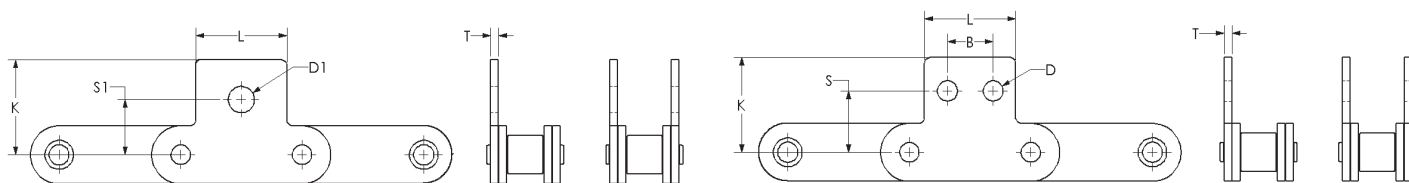
ASME/ANSI Number	Pitch	D	H	L	R Max.	T	Wl	W0	X
	in mm	in mm	in mm	in mm	in mm	in mm	in mm	in mm	in mm
25	0.250 6.35	0.125 3.18	0.180 4.572	0.218 5.54	0.119 3.02	0.030 0.76	0.781 19.84	0.843 21.41	0.562 14.27
35	0.375 9.53	0.102 2.59	0.250 6.350	0.312 7.92	0.178 4.52	0.050 1.27	1.125 28.58	1.125 28.58	0.750 19.05
40	0.500 12.70	0.141 3.58	0.312 7.925	0.375 9.53	0.238 6.05	0.060 1.52	1.390 35.31	1.390 35.31	1.000 25.40
41	0.500 12.70	0.141 3.58	0.282 7.163	0.375 9.53	0.192 4.88	0.050 1.27	1.375 34.93	1.375 34.93	0.937 23.80
50	0.625 15.88	0.203 5.16	0.406 10.312	0.500 12.70	0.297 7.54	0.080 2.03	1.812 46.02	1.812 46.02	1.250 31.75
60	0.750 19.05	0.203 5.16	0.478 12.141	0.625 15.88	0.356 9.04	0.094 2.39	2.135 54.23	2.135 54.23	1.500 38.10
80	1.000 25.40	0.266 6.76	0.625 15.875	0.750 19.05	0.475 12.07	0.125 3.18	2.750 69.85	2.750 69.85	2.000 50.80
100	1.250 31.75	0.343 8.71	0.784 19.914	1.000 25.40	0.594 15.09	0.156 3.96	3.077 78.16	3.406 86.51	2.500 63.50
120	1.500 38.10	0.386 9.80	0.917 23.292	1.125 28.58	0.713 18.11	0.187 4.75	3.841 97.56	4.239 107.67	2.995 76.07
140	1.750 44.45	0.448 11.38	1.127 28.626	1.375 34.93	0.831 21.11	0.220 5.59	4.361 110.77	4.826 122.58	3.500 88.90
160	2.000 50.80	0.516 13.11	1.250 31.750	1.500 38.10	0.950 24.13	0.250 6.35	5.078 128.98	5.609 142.47	4.000 101.60

Wide Contour Bent Attachments: WBA1, WBA2, WBK1, WBK2



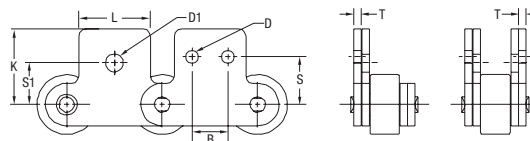
ASME/ANSI Number	Pitch	D	Hw	Lw	P	R Max.	T	W	X
	in mm	in mm	in mm	in mm	in mm	in mm	in mm	in mm	in mm
35	0.375 9.53	0.125 3.18	0.262 6.655	0.727 18.47	0.375 9.53	0.178 4.52	0.050 1.27	1.105 28.07	0.750 19.05
40	0.500 12.70	0.141 3.58	0.326 8.280	0.946 24.03	0.500 12.70	0.238 6.05	0.060 1.52	1.366 34.70	1.000 25.40
41	0.500 12.70	0.141 3.58	0.282 7.163	0.878 22.30	0.500 12.70	0.192 4.88	0.050 1.27	1.372 34.85	0.937 23.80
50	0.625 15.88	0.203 5.16	0.406 10.312	1.211 30.76	0.625 15.88	0.297 7.54	0.080 2.03	1.807 45.90	1.250 31.75
60	0.750 19.05	0.203 5.16	0.478 12.14	1.420 36.07	0.750 19.05	0.356 9.04	0.094 2.39	2.135 54.23	1.500 38.10
80	1.000 25.40	0.266 6.76	0.625 15.88	1.885 47.88	1.000 25.40	0.475 12.07	0.125 3.18	2.750 69.85	2.000 50.80
100	1.250 31.75	0.343 8.71	0.784 19.91	2.362 59.99	1.250 31.75	0.594 15.09	0.156 3.96	3.408 86.56	2.500 63.50
120	1.500 38.10	0.386 9.80	0.917 23.29	2.836 72.03	1.500 38.10	0.713 18.11	0.187 4.75	4.239 107.67	2.995 76.07

Double Pitch Oval Contour Straight Attachments: SA1, SA2, SK1, SK2



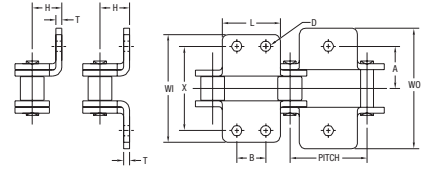
ASME/ANSI Number	Pitch	Roller Diameter	Two Attachment Holes			K	L	T	One Attachment Hole	
	in mm		B in mm	D in mm	S in mm				D1 in mm	S1 in mm
C2040	1.000 25.40	0.312 7.92	0.375 9.53	0.142 3.61	0.531 13.49	0.780 19.81	0.750 19.05	0.060 1.52	0.205 5.21	0.437 11.10
C2050	1.250 31.75	0.400 10.16	0.469 11.91	0.205 5.21	0.625 15.88	0.969 24.61	0.937 23.80	0.080 2.03	0.268 6.81	0.563 14.30
C2060H	1.500 38.10	0.469 11.91	0.562 14.27	0.203 5.16	0.750 19.05	1.203 30.56	1.125 28.58	0.125 3.18	0.329 8.36	0.688 17.48
C2060	1.500 38.10	0.469 11.91	0.562 14.27	0.203 5.16	0.750 19.05	1.203 30.56	1.125 28.58	0.094 2.39	0.329 8.36	0.688 17.48
C2080H	2.000 50.80	0.625 15.88	0.750 19.05	0.266 6.76	1.000 25.40	1.590 40.39	1.500 38.10	0.156 3.96	0.375 9.53	0.875 22.23
C2080	2.000 50.80	0.625 15.88	0.750 19.05	0.266 6.76	1.000 25.40	1.590 40.39	1.500 38.10	0.125 3.18	0.375 9.53	0.875 22.23
C2100H	2.500 63.50	0.750 19.05	0.937 23.80	0.328 8.33	1.250 31.75	1.982 50.34	1.875 47.63	0.187 4.75	0.516 13.11	1.125 28.58
C2120H	3.000 76.20	0.875 22.23	1.125 28.58	0.391 9.93	1.469 37.31	2.367 60.12	2.250 57.15	0.219 5.56	0.563 14.30	1.312 33.32
C2160H	4.000 101.60	1.125 28.58	1.500 38.10	0.516 13.11	2.000 50.80	3.090 78.49	3.000 76.20	0.281 7.14	0.750 19.05	1.750 44.45

Double Pitch Oval Contour Straight Attachments Oversized Roller: SA1, SA2, SK1, SK2



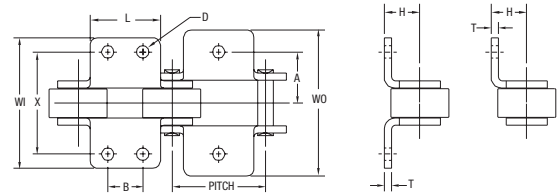
ASME/ANSI Number	Pitch	Roller Diameter	Two Attachment Holes			K	L	T	One Attachment Hole	
	in mm		B in mm	D in mm	S in mm				D1 in mm	S1 in mm
C2042	1.000 25.40	0.625 15.88	0.375 9.53	0.142 3.61	0.531 13.49	0.780 19.81	0.750 19.05	0.060 1.52	0.205 5.21	0.437 11.10
C2052	1.250 31.75	0.750 19.05	0.469 11.91	0.205 5.21	0.625 15.88	0.969 24.61	0.937 23.80	0.080 2.03	0.268 6.81	0.563 14.30
C2062H	1.500 38.10	0.875 22.23	0.562 14.27	0.203 5.16	0.750 19.05	1.203 30.56	1.125 28.58	0.125 3.18	0.329 8.36	0.688 17.48
C2062	1.500 38.10	0.875 22.23	0.562 14.27	0.203 5.16	0.750 19.05	1.203 30.56	1.125 28.58	0.094 2.39	0.329 8.36	0.688 17.48
C2082H	2.000 50.80	1.125 28.58	0.750 19.05	0.266 6.76	1.000 25.40	1.590 40.39	1.500 38.10	0.156 3.96	0.375 9.53	0.875 22.23
C2082	2.000 50.80	1.125 28.58	0.750 19.05	0.266 6.76	1.000 25.40	1.590 40.39	1.500 38.10	0.125 3.18	0.375 9.53	0.875 22.23
C2102H	2.500 63.50	1.562 39.67	0.937 23.80	0.328 8.33	1.250 31.75	1.982 50.34	1.875 47.63	0.187 4.75	0.516 13.11	1.125 28.58
C2122H	3.000 76.20	1.750 44.45	1.125 28.58	0.391 9.93	1.469 37.31	2.367 60.12	2.250 57.15	0.219 5.56	0.563 14.30	1.312 33.32
C2162H	4.000 101.60	2.250 57.15	1.500 38.10	0.516 13.11	2.000 50.80	3.090 78.49	3.000 76.20	0.281 7.14	0.750 19.05	1.750 44.45

Double Pitch Oval Contour Bent Attachments: BA1, BA2, BK1, BK2



ASME/ANSI Number	Pitch	Roller Diameter	A	B	D	H	L	T	WI	W0	X
	in mm	in mm	in mm	in mm	in mm	in mm	in mm	in mm	in mm	in mm	in mm
C2040	1.000 25.40	0.312 7.92	0.500 12.70	0.375 9.53	0.142 3.61	0.358 9.09	0.750 19.05	0.060 1.52	1.350 34.29	1.500 38.10	1.000 25.40
C2050	1.250 31.75	0.400 10.16	0.628 15.95	0.469 11.91	0.205 5.21	0.437 11.10	0.937 23.80	0.080 2.03	1.692 42.98	1.916 48.67	1.250 31.75
C2060H	1.500 31.75	0.469 10.16	0.844 15.88	0.562 11.91	0.203 5.16	0.578 11.51	1.125 23.80	0.125 2.03	2.171 42.98	2.446 47.32	1.688 31.75
C2060	1.500 38.10	0.469 11.91	0.844 21.44	0.562 14.27	0.203 5.16	0.561 14.68	1.125 28.58	0.094 3.18	2.115 55.14	2.317 62.13	1.688 42.88
C2080H	2.000 38.10	0.625 11.91	1.094 21.44	0.750 14.27	0.266 5.16	0.766 14.25	1.500 28.58	0.156 2.39	2.792 53.72	3.125 58.85	2.188 42.88
C2080	2.000 50.80	0.625 15.88	1.094 27.79	0.750 19.05	0.266 6.76	0.739 19.46	1.500 38.10	0.125 3.96	2.760 70.92	3.028 79.38	2.188 55.58
C2100H	2.500 63.50	0.750 19.05	1.312 33.32	0.937 23.80	0.328 8.33	0.922 23.42	1.875 47.63	0.187 4.75	3.554 90.27	3.951 100.36	2.625 66.68
C2120H	3.000 76.20	0.875 22.23	1.562 39.67	1.125 28.58	0.391 9.93	1.095 27.81	2.250 57.15	0.219 5.56	4.318 109.68	4.782 121.46	3.125 79.38
C2160H	4.000 101.60	1.125 28.58	2.063 52.40	1.500 38.10	0.516 13.11	1.438 36.53	3.000 76.20	0.281 7.14	5.520 140.21	6.116 155.35	4.125 104.78

Double Pitch Oval Contour Bent Attachments Oversized Roller: BA1, BA2, BK1, BK2



ASME/ANSI Number	Pitch	Roller Diameter	A	B	D	H	L	T	WI	W0	X
	in mm	in mm	in mm	in mm	in mm	in mm	in mm	in mm	in mm	in mm	in mm
C2042	1.000 25.40	0.625 15.88	0.500 12.70	0.375 9.53	0.142 3.61	0.358 9.09	0.750 19.05	0.060 1.52	1.350 34.29	1.500 38.10	1.000 25.40
C2052	1.250 31.75	0.750 19.05	0.628 15.95	0.469 11.91	0.205 5.21	0.437 11.10	0.937 23.80	0.080 2.03	1.692 42.98	1.916 48.67	1.250 31.75
C2062H	1.500 38.10	0.875 22.23	0.844 21.44	0.562 14.27	0.203 5.16	0.578 14.68	1.125 28.58	0.125 3.18	2.171 55.14	2.446 62.13	1.688 42.88
C2062	1.500 38.10	0.875 22.23	0.844 21.44	0.562 14.27	0.203 5.16	0.561 14.25	1.125 28.58	0.094 2.39	2.115 53.72	2.317 58.85	1.688 42.88
C2082H	2.000 50.80	1.125 28.58	1.094 27.79	0.750 19.05	0.266 6.76	0.766 19.46	1.500 38.10	0.156 3.96	2.792 70.92	3.125 79.38	2.188 55.58
C2082	2.000 50.80	1.125 28.58	1.094 27.79	0.750 19.05	0.266 6.76	0.739 18.77	1.500 38.10	0.125 3.18	2.760 70.10	3.028 76.91	2.188 55.58
C2102H	2.500 63.50	1.562 39.67	1.312 33.32	0.937 23.80	0.328 8.33	0.922 23.42	1.875 47.63	0.187 4.75	3.554 90.27	3.951 100.36	2.625 66.68
C2122H	3.000 76.20	1.750 44.45	1.562 39.67	1.125 28.58	0.391 9.93	1.095 27.81	2.250 57.15	0.219 5.56	4.318 109.68	4.782 121.46	3.125 79.38
C2162H	4.000 101.60	2.250 57.15	2.063 52.40	1.500 38.10	0.516 13.11	1.438 36.53	3.000 76.20	0.281 7.14	5.520 140.21	6.116 155.35	4.125 104.78

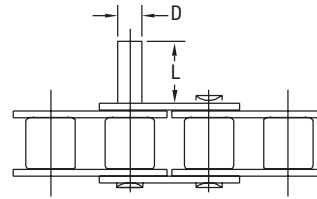
Standard Extended Pins: D1, D3

Carbon Steel Extended Pins

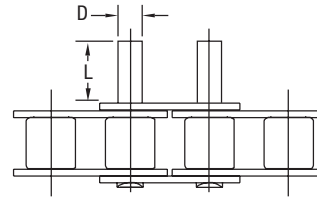
ASME/ANSI Number	Pitch	D*	L**
	in mm	in mm	in mm
25	0.250 6.35	0.090 2.29	0.250 6.35
35	0.375 9.53	0.141 3.58	0.375 9.53
40	0.500 12.70	0.156 3.96	0.375 9.53
41	0.500 12.70	0.141 3.58	0.383 9.73
50	0.625 15.88	0.200 5.08	0.469 11.91
60	0.750 19.05	0.234 5.94	0.563 14.30
80	1.000 25.40	0.312 7.92	0.750 19.05
100	1.250 31.75	0.375 9.53	0.938 23.83
120	1.500 38.10	0.437 11.10	1.125 28.58
140	1.750 44.45	0.500 12.70	1.313 33.35
160	2.000 50.80	0.562 14.27	1.500 38.10
C2040, C2042	1.000 25.40	0.156 3.96	0.375 9.53
C2050, C2052	1.250 31.75	0.200 5.08	0.469 11.91
C2060H, C2062H	1.500 38.10	0.234 5.94	0.563 14.30
C2080H, C2082H	2.000 50.80	0.312 7.92	0.750 19.05
C2100H, C2102H	2.500 63.50	0.375 9.53	0.937 23.80

*D dimension +/- 0.0005" (0.0127mm)

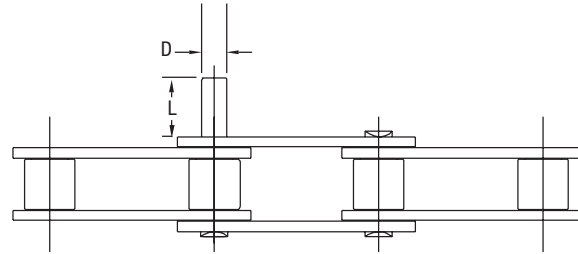
**L dimension +/- 0.010" (0.254mm)



Single pin



Double pin



Single pin on double pitch chain
(double pin not shown)