



**Diamond Series British Standard
Product Brochure**
ISO/British Standard Roller Chain

From standard drive chains to specialty applications,
nothing outlasts a Diamond.[®]

Diamond Chain Company

Since its founding in 1890, Diamond has been singularly focused on one goal: producing the world's best roller chain. The best chain for the most demanding applications is what drove early adapters like the Wright Brothers and Henry Ford to choose Diamond, and is the reason thousands more continue to choose Diamond today.

Diamond is now part of the Timken Company, a global industrial leader of engineered bearings and mechanical power transmission products. By leveraging Timken's technical, manufacturing, and distribution resources, Diamond Chain is well positioned to deliver innovative products with unrivaled quality.

An early outcome of this new relationship is Diamond ISO/British Standard roller chain.

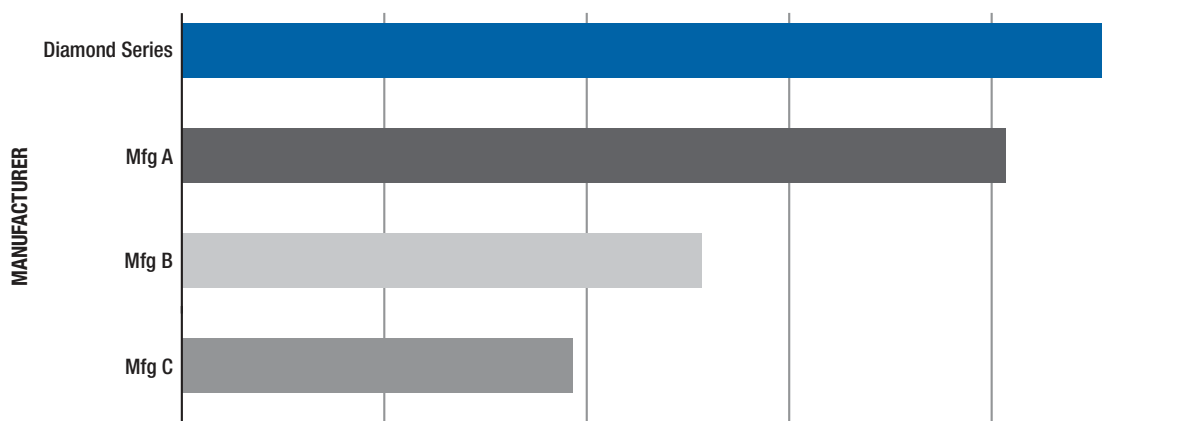




Diamond ISO/British Standard Roller Chain

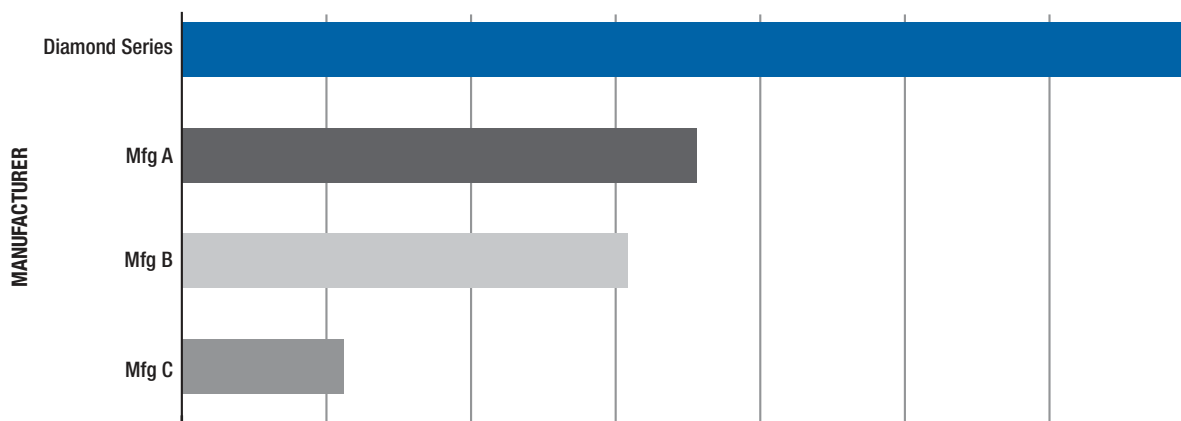
Diamond ISO/British Standard roller chain utilizes the same design and manufacturing principles as Diamond ANSI Standard roller chain, widely recognized as being the best performing chain for the most demanding applications. Through the use of the Diamond Difference – the unique skill set and knowledge-base developed over Diamond’s nearly 130 year history in material specifications, fabrication, assembly, and lubrication – Diamond ISO/British Standard delivers best-in-class wear performance against the competition. Whether the application calls for ISO/ British Standard or ANSI Standard roller chain, Nothing Outlasts a Diamond®.

ISO/British Standard 10B-1 Accelerated Wear Test (time to wear limit)



Accelerated Test Conditions: 1,172 RPM, 91lbs tension, 3.5 chain HP, 21T x 21T sprockets

ASME/ANSI 50 Accelerated Wear Test (time to wear limit)



Accelerated Test Conditions: 1,172 RPM, 91lbs tension, 3.5 chain HP, 21T x 21T sprockets

ISO/British Standard Roller Chain



ISO/British Standard
Roller Chain

Diamond offers a wide variety of ISO/British Standard roller chains. All chains in this section adhere to the ISO (International Standards Organization) metric requirements (IS 606, BS228, DIN 8187) for dimensions, interoperability, and sprocket fit.

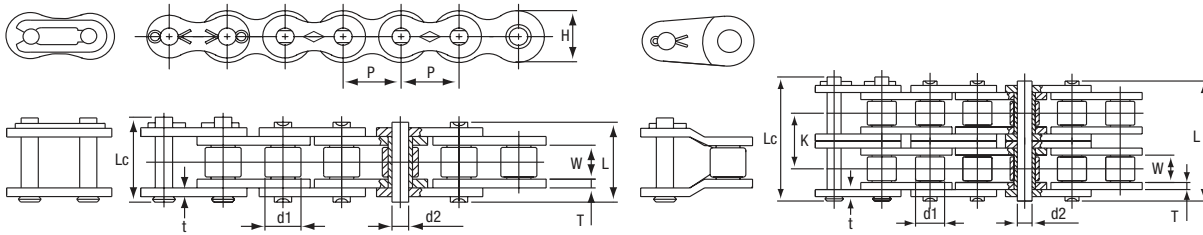
This section will address the following ISO/British Standard roller chain types and options:

Carbon Steel Chain	Carbon steel ISO/British Standard roller chain offers superior wear and fatigue performance in industrial applications.
Oval Contour Chain	Oval contour ISO/British Standard roller chain features full oval contour linkplates for maximum plate rigidity in fatigue critical applications.
Stainless Steel Chain	Stainless steel ISO/British Standard roller chain is intended for applications involving frequent water washdowns or exposure to chemicals, such as food and beverage, packaging, meat processing, baking, fertilizer, pharmaceutical, or medical applications.
Attachments	Listing of attachments available for ISO/British Standard roller chain.

Note: please contact Diamond Chain Customer Service for additional information on attachments for ISO/British Standard roller chain.

ISO/British Standard Chains, Carbon Steel

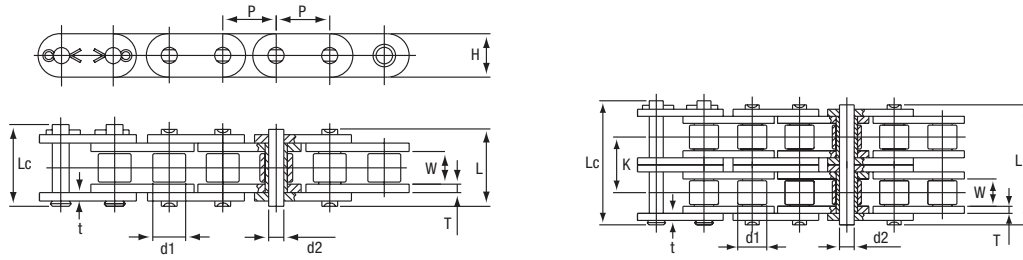
Diamond Chain ISO/British Standard Series carbon steel chain is manufactured to the International Standards Organization metric dimensions (IS 606, BS228, DIN 8187) for dimensions, interoperability, and sprocket fit.



Diamond Part Number	Pitch	Roller Width (W)	Roller Diameter (d1)	Pin Diameter (d2)	Roller Link Plate Thickness (T)	Pin Link Plate Thickness (t)	Chain Width, Cottered (Lc)	Chain Width Riveted (L)	Center to Center (L)	Max Link Plate Height (H)	Avg. Weight	Avg. Tensile Strength
	mm in	mm in	mm in	mm in	mm in	mm in	mm in	mm in	mm in	mm in	kg/m lb/ft	kN lbf
DMD-05B-1	8.00 0.315	3.00 0.118	5.00 0.197	2.31 0.091	0.90 0.035	0.90 0.035	11.70 0.461	8.60 0.339	-	7.10 0.280	0.09 0.063	5.88 1,323
DMD-06B-1	9.53 0.375	5.72 0.225	6.35 0.250	3.28 0.129	1.40 0.055	1.10 0.043	16.80 0.661	13.50 0.531	-	8.20 0.323	0.41 0.277	10.79 2,425
DMD-06B-2	9.53 0.375	5.72 0.225	6.35 0.250	3.28 0.129	1.40 0.055	1.10 0.043	27.10 1.067	23.80 0.937	10.24 0.403	8.20 0.323	0.79 0.528	18.63 4,189
DMD-06B-3	9.53 0.375	5.72 0.225	6.35 0.250	3.28 0.129	1.40 0.055	1.10 0.043	37.30 1.469	34.00 1.339	10.24 0.403	8.20 0.323	1.22 0.818	27.95 6,283
DMD-08B-1	12.70 0.500	7.75 0.305	8.51 0.335	4.45 0.175	1.50 0.059	1.50 0.059	20.70 0.815	17.00 0.669	-	11.80 0.465	0.70 0.469	19.12 4,299
DMD-08B-2	12.70 0.500	7.75 0.305	8.51 0.335	4.45 0.175	1.50 0.059	1.50 0.059	34.90 1.374	31.00 1.220	13.92 0.548	11.80 0.465	1.33 0.897	37.76 8,488
DMD-08B-3	12.70 0.500	7.75 0.305	8.51 0.335	4.45 0.175	1.50 0.059	1.50 0.059	48.80 1.921	44.90 1.768	13.92 0.548	11.80 0.465	2.00 1.343	56.63 12,732
DMD-10B-1	15.88 0.625	9.65 0.380	10.16 0.400	5.08 0.200	1.70 0.067	1.70 0.067	23.70 0.933	19.60 0.772	-	14.70 0.579	0.91 0.609	27.46 6,173
DMD-10B-2	15.88 0.625	9.65 0.380	10.16 0.400	5.08 0.200	1.70 0.067	1.70 0.067	40.30 1.587	36.20 1.425	16.59 0.653	14.70 0.579	1.80 1.210	54.82 12,323
DMD-10B-3	15.88 0.625	9.65 0.380	10.16 0.400	5.08 0.200	1.70 0.067	1.70 0.067	56.90 2.240	52.80 2.079	16.59 0.653	14.70 0.579	2.71 1.824	82.23 18,485
DMD-12B-1	19.05 0.750	11.68 0.460	12.07 0.475	5.72 0.225	1.80 0.071	1.80 0.071	27.30 1.075	22.70 0.894	-	16.10 0.634	1.13 0.760	32.85 7,385
DMD-12B-2	19.05 0.750	11.68 0.460	12.07 0.475	5.72 0.225	1.80 0.071	1.80 0.071	46.80 1.843	42.20 1.661	19.46 0.766	16.10 0.634	2.27 1.526	63.74 14,330
DMD-12B-3	19.05 0.750	11.68 0.460	12.07 0.475	5.72 0.225	1.80 0.071	1.80 0.071	65.50 2.579	60.90 2.398	19.46 0.766	16.10 0.634	3.42 2.301	95.62 21,495
DMD-16B-1	25.40 1.000	17.02 0.670	15.88 0.625	8.28 0.326	4.00 0.157	3.20 0.126	41.50 1.634	36.10 1.421	-	21.00 0.827	2.69 1.807	73.55 16,535
DMD-16B-2	25.40 1.000	17.02 0.670	15.88 0.625	8.28 0.326	4.00 0.157	3.20 0.126	73.40 2.890	68.00 2.677	31.88 1.255	21.00 0.827	5.30 3.559	147.10 33,069
DMD-16B-3	25.40 1.000	17.02 0.670	15.88 0.625	8.28 0.326	4.00 0.157	3.20 0.126	105.30 4.146	99.90 3.933	31.88 1.255	21.00 0.827	7.91 5.312	220.65 49,604
DMD-20B-1	31.75 1.250	19.56 0.770	19.05 0.750	10.19 0.401	4.70 0.185	4.70 0.185	49.30 1.941	43.20 1.701	-	26.40 1.039	3.92 2.637	106.40 23,920
DMD-20B-2	31.75 1.250	19.56 0.770	19.05 0.750	10.19 0.401	4.70 0.185	4.70 0.185	85.80 3.378	79.70 3.138	36.45 1.435	26.40 1.039	7.71 5.178	212.80 47,840
DMD-20B-3	31.75 1.250	19.56 0.770	19.05 0.750	10.19 0.401	4.70 0.185	4.70 0.185	122.10 4.807	116.00 4.567	36.45 1.435	26.40 1.039	11.51 7.735	319.21 71,760
DMD-24B-1	38.10 1.500	25.40 1.000	25.40 1.000	14.63 0.576	6.30 0.248	6.30 0.248	60.00 2.362	53.40 2.102	-	33.40 1.315	7.06 4.744	178.48 40,124
DMD-24B-2	38.10 1.500	25.40 1.000	25.40 1.000	14.63 0.576	6.30 0.248	6.30 0.248	107.60 4.236	101.00 3.976	48.36 1.904	33.40 1.315	13.95 9.374	356.96 80,248
DMD-24B-3	38.10 1.500	25.40 1.000	25.40 1.000	14.63 0.576	6.30 0.248	6.30 0.248	156.60 6.165	150.00 5.906	48.36 1.904	33.40 1.315	20.86 14.017	535.44 120,372
DMD-28B-1	44.45 1.750	30.99 1.220	27.94 1.100	15.90 0.626	7.80 0.307	7.80 0.307	72.50 2.854	65.10 2.563	-	37.00 1.457	8.57 5.758	225.55 50,706
DMD-28B-2	44.45 1.750	30.99 1.220	27.94 1.100	15.90 0.626	7.80 0.307	7.80 0.307	131.40 5.173	124.00 4.882	59.56 2.345	37.00 1.457	17.23 11.576	451.11 101,413
DMD-28B-3	44.45 1.750	30.99 1.220	27.94 1.100	15.90 0.626	7.80 0.307	7.80 0.307	191.40 7.535	184.00 7.244	59.56 2.345	37.00 1.457	25.30 16.999	676.66 152,119
DMD-32B-1	50.80 2.000	30.99 1.220	29.21 1.150	17.81 0.701	7.30 0.287	7.30 0.287	75.30 2.965	67.40 2.654	-	42.20 1.661	9.46 6.357	279.49 62,832
DMD-32B-2	50.80 2.000	30.99 1.220	29.21 1.150	17.81 0.701	7.30 0.287	7.30 0.287	133.90 5.272	126.00 4.961	58.55 2.305	42.20 1.661	18.63 12.520	558.98 125,664
DMD-32B-3	50.80 2.000	30.99 1.220	29.21 1.150	17.81 0.701	7.30 0.287	7.30 0.287	194.90 7.673	187.00 7.362	58.55 2.305	42.20 1.661	27.93 18.768	838.47 188,496

ISO/British Standard Chains, Oval Contour

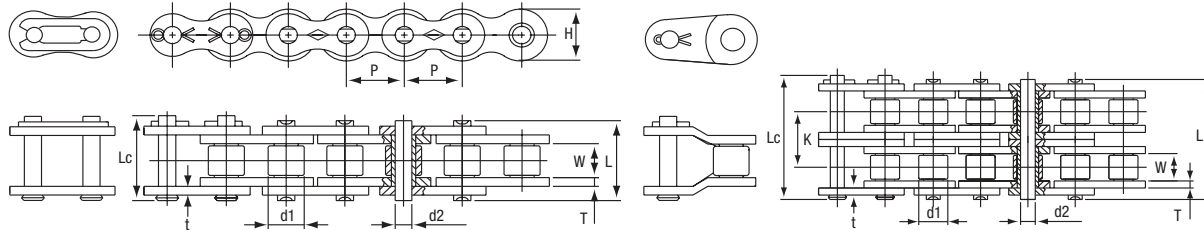
Diamond Chain ISO/British Standard oval contour roller chain features full oval contour linkplates for maximum plate rigidity in high load fatigue applications.



Diamond Part Number	Pitch	Roller Width (W)	Roller Diameter (d1)	Pin Diameter (d2)	Roller Link Plate Thickness (T)	Pin Link Plate Thickness (t)	Chain Width, Cottered (LC)	Chain Width Riveted (L)	Center to Center (L)	Max Link Plate Height (H)	Avg. Weight	Avg. Tensile Strength
	mm in	mm in	mm in	mm in	mm in	mm in	mm in	mm in	mm in	mm in	kg/m lb/ft	kN lbf
DMD-08B0C	12.70 0.500	7.75 0.305	8.51 0.335	4.45 0.175	1.50 0.059	1.50 0.059	20.70 0.815	17.00 0.669	- -	11.80 0.465	0.76 0.508	19.12 4,299
DMD-08B0C-2	12.70 0.500	7.75 0.305	8.51 0.335	4.45 0.175	1.50 0.059	1.50 0.059	34.90 1.374	31.00 1.220	13.92 0.548	11.80 0.465	1.44 0.965	37.76 8,488
DMD-10B0C	15.88 0.625	9.65 0.380	10.16 0.400	5.08 0.200	1.70 0.067	1.70 0.067	23.70 0.933	19.60 0.772	- -	14.70 0.579	0.98 0.660	27.46 6,173
DMD-10B0C-2	15.88 0.625	9.65 0.380	10.16 0.400	5.08 0.200	1.70 0.067	1.70 0.067	40.30 1.587	36.20 1.425	16.59 0.653	14.70 0.579	1.94 1.306	54.82 12,323
DMD-12B0C	19.05 0.750	11.68 0.460	12.07 0.475	5.72 0.225	1.80 0.071	1.80 0.071	27.30 1.075	22.70 0.894	- -	16.10 0.634	1.22 0.820	31.87 7,165
DMD-12B0C-2	19.05 0.750	11.68 0.460	12.07 0.475	5.72 0.225	1.80 0.071	1.80 0.071	46.80 1.843	42.20 1.661	19.46 0.766	16.10 0.634	2.45 1.647	63.74 14,330
DMD-16B0C	25.40 1.000	17.02 0.670	15.88 0.625	8.28 0.326	4.00 0.157	3.20 0.126	41.50 1.634	36.10 1.421	- -	21.00 0.827	2.90 1.952	73.55 16,535
DMD-16B0C-2	25.40 1.000	17.02 0.670	15.88 0.625	8.28 0.326	4.00 0.157	3.20 0.126	73.40 2.890	68.00 2.677	31.88 1.255	21.00 0.827	5.72 3.846	147.10 33,069

ISO/British Standard Chains, Stainless Steel

Diamond ISO/British Standard stainless steel chain is manufactured to the International Standards Organization metric requirements (IS 606, BS228, DIN 8187) for dimensions, interchangeability, and sprocket fit. All chain components are 300 series (austenitic) stainless steel.



Diamond Part Number	Pitch	Roller Width (W)	Roller Diameter (d1)	Pin Diameter (d2)	Roller Link Plate Thickness (T)	Pin Link Plate Thickness (t)	Chain Width, Cottered (LC)	Chain Width Riveted (L)	Center to Center (L)	Max Link Plate Height (H)	Avg. Weight	Avg. Tensile Strength
	mm in	mm in	mm in	mm in	mm in	mm in	mm in	mm in	mm in	mm in	kg/m lb/ft	kN lbf
DMD-06B-1SS	9.53 0.375	5.72 0.225	6.35 0.250	3.28 0.129	1.40 0.055	1.10 0.043	16.80 0.661	13.50 0.531	- -	8.20 0.323	0.42 0.281	10.79 2,425
DMD-06B-2SS	9.53 0.375	5.72 0.225	6.35 0.250	3.28 0.129	1.40 0.055	1.10 0.043	27.10 1.067	23.80 0.937	10.24 0.403	8.20 0.323	0.80 0.539	18.63 4,189
DMD-08B-1SS	12.70 0.500	7.75 0.305	8.51 0.335	4.45 0.175	1.50 0.059	1.50 0.059	20.70 0.815	17.00 0.669	- -	11.80 0.465	0.70 0.468	19.12 4,299
DMD-08B-2SS	12.70 0.500	7.75 0.305	8.51 0.335	4.45 0.175	1.50 0.059	1.50 0.059	34.90 1.374	31.00 1.220	13.92 0.548	11.80 0.465	1.36 0.916	37.76 8,488
DMD-10B-1SS	15.88 0.625	9.65 0.380	10.16 0.400	5.08 0.200	1.70 0.067	1.70 0.067	23.70 0.933	19.60 0.772	- -	14.70 0.579	0.93 0.622	27.46 6,173
DMD-10B-2SS	15.88 0.625	9.65 0.380	10.16 0.400	5.08 0.200	1.70 0.067	1.70 0.067	40.30 1.587	36.20 1.425	16.59 0.653	14.70 0.579	1.84 1.236	54.82 12,323
DMD-12B-1SS	19.05 0.750	11.68 0.460	12.07 0.475	5.72 0.225	1.80 0.071	1.80 0.071	27.30 1.075	22.70 0.894	- -	16.10 0.634	1.15 0.776	32.85 7,385
DMD-12B-2SS	19.05 0.750	11.68 0.460	12.07 0.475	5.72 0.225	1.80 0.071	1.80 0.071	46.80 1.843	42.20 1.661	19.46 0.766	16.10 0.634	2.32 1.561	63.74 14,330
DMD-16B-1SS	25.40 1.000	17.02 0.670	15.88 0.625	8.28 0.326	4.00 0.157	3.20 0.126	41.50 1.634	36.10 1.421	- -	21.00 0.827	2.75 1.848	73.55 16,535
DMD-16B-2SS	25.40 1.000	17.02 0.670	15.88 0.625	8.28 0.326	4.00 0.157	3.20 0.126	73.40 2.890	68.00 2.677	31.88 1.255	21.00 0.827	5.42 3.639	147.10 33,069

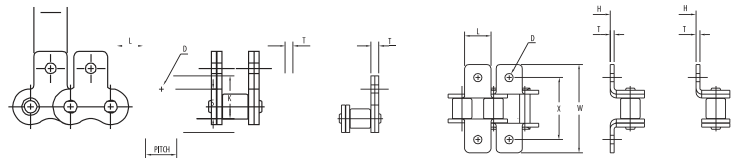
Attachment Summary

This list provides an at-a-glance reference for standard attachments for Diamond Series ISO/British Standard roller chain. Please contact Diamond Chain Customer Service for additional details.

Single Pitch Standard Attachments		Diamond	Tsubaki	Renold	Drives
	Bent Linkplate one side - one hole	B1-1H	A-1	A-1	BA-1
	Bent Linkplate two sides - one hole	B2-1H	K-1	K-1	BK-1
	Wide Contour Bent Linkplate one side - one hole	WCB1-1H	WA-1	WA-1	WBA-1
	Wide Contour Bent Linkplate one side - two holes	WCB1-2H	WA-2	WA-2	WBA-2
	Wide Contour Bent Linkplate two sides - one hole	WCB2-1H	WK-1	WK-1	WBK-1
	Wide Contour Bent Linkplate two sides - two holes	WCB2-2H	WK-2	WK-2	WBK-2
	One Pin Extended	E1	D-1	D-1	D-1

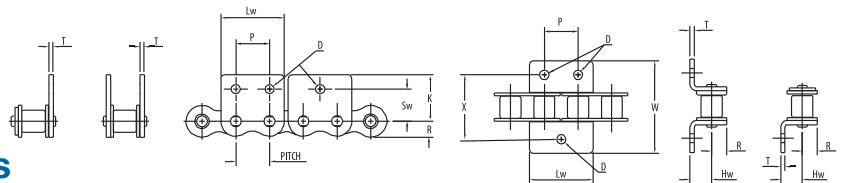
Single Pitch Standard Attachments		Diamond	Tsubaki	Renold	Drives
	Straight Linkplate one side - one hole	S1-1H	SA-1	M-35	SA-1
	Straight Linkplate two sides - one hole	S2-1H	SK-1	M-1	SK-1
	Wide Contour Straight Linkplate one side - one hole	WCS1-1H	WSA-1	WM-35	WSA-1
	Wide Contour Straight Linkplate one side - two holes	WCS1-2H	WSA-2	WM-35-2	WSA-2
	Wide Contour Straight Linkplate two sides - one hole	WCS2-1H	WSK-1	WM-1	WSK-1
	Wide Contour Straight Linkplate two sides - two holes	WCS2-2H	WSK-2	WM-2	WSK-2
	Two Pins Extended	E2	D-3	D-3	D-3

Standard Contour Straight and Bent Attachments



Chain Size	Pitch	D	H	K	L	S	T	W	X
	mm in	mm in	mm in	mm in	mm in	mm in	mm in	mm in	mm in
06B	9.53 0.375	3.50 0.138	6.50 0.256	13.50 0.531	8.00 0.315	9.52 0.375	1.30 0.051	27.00 1.063	19.04 0.750
08B	12.70 0.500	4.50 0.177	8.90 0.350	18.90 0.744	9.50 0.374	13.35 0.526	1.60 0.063	36.40 1.433	25.40 1.000
10B	15.88 0.625	5.30 0.209	10.31 0.406	22.95 0.904	14.30 0.563	16.50 0.650	1.70 0.067	44.60 1.756	31.96 1.258
12B	19.05 0.750	6.40 0.252	13.46 0.530	28.60 1.126	16.00 0.630	21.45 0.844	1.85 0.073	52.20 2.055	39.10 1.539
16B	25.40 1.000	6.40 0.252	15.88 0.625	34.00 1.339	19.10 0.752	23.15 0.911	3.10 0.122	72.60 2.858	50.80 2.000
20B	31.75 1.250	8.40 0.331	19.80 0.780	45.70 1.799	25.00 0.984	30.50 1.201	3.50 0.138	85.50 3.366	64.30 2.531
24B	38.10 1.500	10.50 0.413	26.70 1.051	69.55 2.738	30.00 1.181	36.00 1.417	4.80 0.189	108.40 4.268	76.20 3.000

Wide Contour Straight and Bent Attachments



Chain Size	Pitch	D	Hw	K	Lw	Sw	T	W	X
	mm in	mm in	mm in	mm in	mm in	mm in	mm in	mm in	mm in
06B	9.53 0.375	3.50 0.138	6.50 0.256	13.50 0.531	17.72 0.698	1.30 0.051	1.30 0.051	27.00 1.063	19.04 0.750
08B	12.70 0.500	4.50 0.177	8.90 0.350	18.90 0.744	23.30 3.000	1.60 0.063	1.60 0.063	36.40 1.433	25.40 1.000
10B	15.88 0.625	5.30 0.209	10.31 0.406	22.95 0.904	29.58 1.165	1.70 0.067	1.70 0.067	44.60 1.756	31.96 1.258
12B	19.05 0.750	6.40 0.252	13.46 0.530	28.60 1.126	34.05 1.341	1.85 0.073	1.85 0.073	52.20 2.055	39.10 1.539
16B	25.40 1.000	6.40 0.252	15.88 0.625	34.00 1.339	46.40 1.827	3.10 0.122	3.10 0.122	72.60 2.858	50.80 2.000
20B	31.75 1.250	8.40 0.331	19.80 0.780	45.70 1.799	58.10 2.287	3.50 0.138	3.50 0.138	85.50 3.366	64.30 2.531
24B	38.10 1.500	10.50 0.413	26.70 1.051	69.55 2.738	71.40 2.811	4.80 0.189	4.80 0.189	108.40 4.268	76.20 3.000



Diamond Chain Company is the recognized world leader in the design and manufacture of high quality, high performance roller chain. Since 1890, Diamond Chain has produced tens of thousands of types of roller chain for a wide variety of applications from oil field to conveyors to combines. Diamond Chain's commitment to quality includes being certified by both ISO 9001:2015 and the American Petroleum Institute.



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