

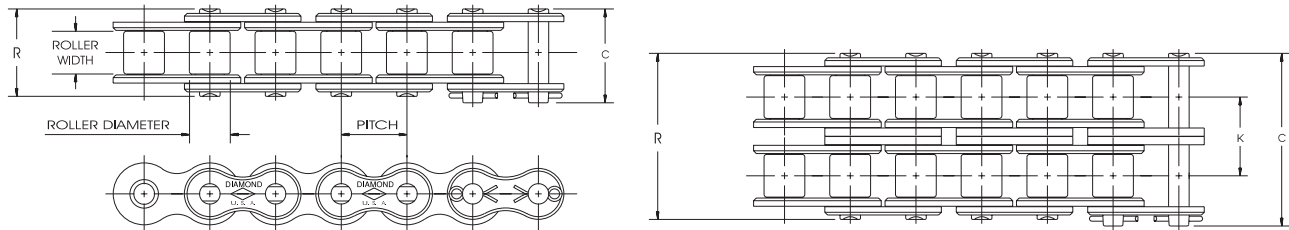
# NON-STANDARD SERIES CHAIN

## Chain Descriptions and Dimensions



### 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 equipment still utilizes 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.



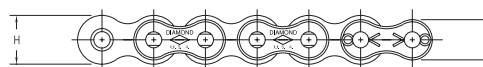
Dimensions in Inches and Pounds

Diamond Number	Other ID	Pitch Inches	Roller Width	Roller Diameter	Pin Diameter	Link Plate Thickness	C	R	K	Weight Per Foot	Average Tensile Strength
61 x $\frac{3}{16}$		1	$\frac{3}{16}$	.325	.141	.040	.47	.43	....	.22	1600
65 x $\frac{1}{8}$	BS #4	$\frac{1}{2}$	$\frac{1}{8}$	.306	.141	.040	.46	.42	....	.18	2250
867	BS #7	$\frac{1}{2}$	$\frac{5}{16}$	.335	.174	.060	.73	.68	....	.43	4200
148 x $\frac{1}{4}$	BS #10	$\frac{5}{8}$	$\frac{1}{4}$	.400	.200	.080	.73	.67	....	.59	6600
148 x $\frac{5}{16}$		$\frac{5}{8}$	$\frac{5}{16}$	.400	.200	.080	.86	.74	....	.64	6600
433 x $\frac{3}{8}$		$\frac{3}{4}$	$\frac{3}{8}$	.469	.234	.094	.98	.91	....	.91	8500
435 x $\frac{3}{8}$		1	$\frac{3}{8}$	.562	.281	.125	1.14	1.05	....	1.11	9000
435 x $\frac{1}{2}$		1	$\frac{1}{2}$	.562	.281	.125	1.27	1.18	....	1.21	9000
472		1 $\frac{1}{2}$	$\frac{3}{4}$	.875	.437	.187	1.86	1.72	....	3.40	34000
472-2		1 $\frac{1}{2}$	$\frac{3}{4}$	.875	.437	.187	3.45	3.30	1.55	6.76	68000
472-3		1 $\frac{1}{2}$	$\frac{3}{4}$	.875	.437	.187	5.00	4.85	1.55	10.08	102000
472-4		1 $\frac{1}{2}$	$\frac{3}{4}$	.875	.437	.187	6.55	6.41	1.55	13.40	136000
264	64S	2 $\frac{1}{2}$	1 $\frac{1}{2}$	1.562	.875	.375	3.71	3.39	....	13.68	148500
264-3	64S-3	2 $\frac{1}{2}$	1 $\frac{1}{2}$	1.562	.875	.375	9.88	9.56	3.083	40.92	445500

61 x  $\frac{3}{16}$  uses an alternating pitch of .6 and .4 inches. Consult Diamond for 65 x  $\frac{1}{8}$  standard attachment availability.

### 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 nominal pin and roller link plate heights for the models shown. If more detailed information is required please contact Diamond's application engineers.



Dimensions in Inches

Link Plate Height*	Model Number													
	#25	#35	#40	#41	#50	#60	#80	#100	#120	#140	#160	#180	#200	#240
E	.205	.308	.410	.310	.512	.615	.820	1.025	1.230	1.435	1.640	1.845	2.050	2.422
H	.238	.356	.475	.383	.594	.713	.950	1.188	1.425	1.663	1.900	2.138	2.375	2.806

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

Dimensions in Inches

Link Plate Height*	Model Number								
	#60H	#80H	#100H	#120H	#140H	#160H	#180H	#200H	#240H
E	.615	.820	1.025	1.230	1.435	1.640	1.845	2.050	2.422
H	.713	.950	1.188	1.425	1.663	1.900	2.138	2.375	2.806

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