

ANSI Roller Chain Dimensions

ANSI No.	Roller Width	Roller Diam.	Inside Link Plate Height*	Cottered Chain Width*	Riveted Chain Width*	Average Tensile Strength
25	1/8	0.130	0.237	0.37	0.34	875
25-2	1/8	0.130	0.237	0.63	0.59	1750
25-3	1/8	0.130	0.237	0.88	0.84	2626
35	3/16	0.200	0.356	0.56	0.50	2100
35-2	3/16	0.200	0.356	0.96	0.90	4200
35-3	3/16	0.200	0.356	1.36	1.31	6300
35-4	3/16	0.200	0.356	1.76	1.70	8400
35-5	3/16	0.200	0.356	2.16	2.11	10500
35-6	3/16	0.200	0.356	2.57	2.51	12600
40	5/16	0.312	0.475	0.72	0.67	3700
40-2	5/16	0.312	0.475	1.29	1.24	7400
40-3	5/16	0.312	0.475	1.85	1.80	11100
40-4	5/16	0.312	0.475	2.42	2.37	14800
40-6	5/16	0.312	0.475	3.56	3.51	22200
41	1/4	0.306	0.383	0.65	0.57	2000
50	3/8	0.400	0.594	0.89	0.83	6600
50-2	3/8	0.400	0.594	1.60	1.55	13200
50-3	3/8	0.400	0.594	2.31	2.26	19800
50-4	3/8	0.400	0.594	3.03	2.97	26400
50-5	3/8	0.400	0.594	3.75	3.69	33000
50-6	3/8	0.400	0.594	4.46	4.40	39600
60	1/2	0.469	0.712	1.11	1.04	8500
60-2	1/2	0.469	0.712	2.01	1.94	1700
60-3	1/2	0.469	0.712	2.91	2.84	25500
60-4	1/2	0.469	0.712	3.81	3.74	34000
60-5	1/2	0.469	0.712	4.71	4.64	42500
60-6	1/2	0.469	0.712	5.60	5.53	51000
80	5/8	0.625	0.950	1.44	1.32	14500
80-2	5/8	0.625	0.950	2.59	2.47	29000
80-3	5/8	0.625	0.950	3.74	3.62	43500
80-4	5/8	0.625	0.950	4.90	4.79	58000
80-5	5/8	0.625	0.950	6.06	5.94	72500
80-6	5/8	0.625	0.950	7.22	7.10	87000

ANSI No.	Roller Width	Roller Diam.	Inside Link Plate Height*	Cottered Chain Width*	Riveted Chain Width*	Average Tensile Strength
100	3/4	0.750	1.187	1.73	1.61	24000
100-2	3/4	0.750	1.187	3.14	3.02	48000
100-3	3/4	0.750	1.187	4.56	4.43	72000
100-4	3/4	0.750	1.187	5.97	5.84	96000
100-5	3/4	0.750	1.187	7.38	7.25	120000
100-6	3/4	0.750	1.187	8.78	8.66	144000
120	1	0.875	1.425	2.14	2.00	34000
120-2	1	0.875	1.425	3.93	3.79	68000
120-3	1	0.875	1.425	5.72	5.58	102000
120-4	1	0.875	1.425	7.52	7.38	136000
120-5	1	0.875	1.425	9.31	9.17	170000
120-6	1	0.875	1.425	11.10	10.96	204000
140	1	1.000	1.662	2.31	2.14	46000
140-2	1	1.000	1.662	4.24	4.07	92000
140-3	1	1.000	1.662	6.16	6.00	138000
140-4	1	1.000	1.662	8.09	7.93	184000
140-6	1	1.000	1.662	11.94	11.78	276000
160	1-1/4	1.125	1.900	2.73	2.54	58000
160-2	1-1/4	1.125	1.900	5.04	4.85	116000
160-3	1-1/4	1.125	1.900	7.35	7.16	174000
160-4	1-1/4	1.125	1.900	9.66	9.47	232000
160-6	1-1/4	1.125	1.900	14.27	14.09	348000
180	1-13/32	1.406	2.137	3.15	2.88	76000
180-2	1-13/32	1.406	2.137	5.75	5.48	152000
180-3	1-13/32	1.406	2.137	8.34	8.07	228000
200	1-1/2	1.562	2.375	3.44	3.12	95000
200-2	1-1/2	1.562	2.375	6.26	5.94	190000
200-3	1-1/2	1.562	2.375	9.08	8.76	285000
200-4	1-1/2	1.562	2.375	11.90	11.58	380000
200-6	1-1/2	1.562	2.375	17.52	17.21	570000
240	1-7/8	1.875	2.812	4.06	3.72	130000
240-2	1-7/8	1.875	2.812	7.52	7.18	260000

* Dimensions are across pins

Standard Keyways and Setscrews

Diameter of Shaft	Keyway Width x Depth	Setscrew	Diameter of Shaft	Keyway Width x Depth	Setscrew
1/2 - 9/16	1/8 x 1/16	10-24	2-5/16 - 2-3/4	5/8 x 5/16	5/8*
5/8 - 7/8	3/16 x 3/32	1/4	2-13/16 - 3-1/4	3/4 x 3/8	5/8*
15/16 - 1-1/4	1/4 x 1/8	5/16	3-5/16 - 3-3/4	7/8 x 7/16	3/4
1-5/16 - 1-3/8	5/16 x 5/32	5/16	3-13/16 - 4-1/2	1 x 1/2	3/4
1-7/16 - 1-3/4	3/8 x 3/16	3/8	4-9/16 - 5-1/2	1-1/4 x 5/8	3/4
1-13/16 - 2-1/4	1/2 x 1/4	1/2*	5-9/16 - 6-1/2	1-1/2 x 3/4	3/4

*Hub size may require smaller setscrews in some instances.

Standard Bore Tolerances

1" and Less	+ 0.001 - 0.000
1-1/16" to 2"	+ 0.002 - 0.000
2-1/16" to 3"	+ 0.003 - 0.000
3-1/16" & Up	+ 0.004 - 0.000
Bores with closer tolerances will be supplied at a slight increase in price.	

