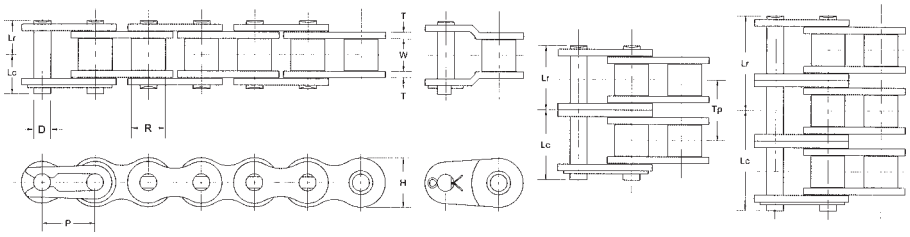
HITACHI
Inspire the Next

INSPIRE SERIES SBR

35 ASME/ANSI Roller Chain



Chain Dimensions

Note: Rated Working Load is to be used only in conjuction with "slow speed selection method"

Common Dimensions (Inches)									
ASME/ANSI Chain Number	Chain Pitch P	Inside Width W	Bushing Diameter R	Pin Diameter D	Link Plate Thickness T	Roller Link Plate Height H	Number of Links in 10ft	Available Construction	
								Cottered	Riveted
35	3/8	0.188	0.200	0.141	0.050	0.354	320	No	Yes

Pin Lengths and Chain Ratings									
ASME/ANSI Chain Number	Number of Strands	Riv. Pin End to C/L of Chain Lr	Cot. Pin End to C/L of Chain Lc	Overall Length Riveted Pin Lr + Lr	Overall Length Conn. Pin Lr + Lc	Transverse Pitch for Multi-strand TP	Rated Working Load (lbs)	Average Ultimate Strength (lbs)	Average Chain Weight (lbs/ft)
35	1	0.236	0.272	0.472	0.508	-	560	2,400	0.23
35-2	2	0.437	0.469	0.874	0.906	0.398	950	4,800	0.42
35-3	3	0.634	0.669	1.268	1.303	0.398	1,400	7,200	0.62
35-4	4	0.835	0.866	1.669	1.701	0.398	1,850	9,600	0.82
35-5	5	1.031	1.063	2.063	2.094	0.398	2,180	12,000	1.05
35-6	6	1.232	1.268	2.465	2.500	0.398	2,580	14,400	1.27

Horsepower Ratings

Please consult Hitachi Maxco product engineering for horsepower ratings to the right of the black boundry line.

	Maximum Speed of Small Sprocket (rpm)																								
Number Teeth Small Sprocket	50	100	300	500	700	900	1200	1500	1800	2100	2500	3000	3500	4000	4500	5000	5500	6000	6500	7000	7500	8000	8500	9000	10000
9	0.11	0.21	0.57	0.90	1.21	1.52	1.97	2.41	2.84	3.26	2.86	2.17	1.73	1.41	1.18	1.01	0.88	0.77	0.68	0.61					
10	0.13	0.24	0.63	1.00	1.36	1.71	2.21	2.70	3.18	3.66	3.35	2.55	2.02	1.65	1.39	1.18	1.03	0.90	0.80	0.71					
11	0.14	0.26	0.70	1.11	1.51	1.89	2.45	2.99	3.53	4.05	3.86	2.94	2.33	1.91	1.60	1.37	1.18	1.04	0.92	0.82	0.74	0.67	0.62	0.57	0.48
12	0.15	0.29	0.77	1.22	1.66	2.08	2.69	3.29	3.87	4.45	4.40	3.35	2.66	2.17	1.82	1.56	1.35	1.18	1.05	0.94	0.85	0.77	0.70	0.64	0.55
13	0.17	0.31	0.84	1.33	1.81	2.26	2.93	3.58	4.22	4.85	4.96	3.77	3.00	2.45	2.05	1.75	1.52	1.33	1.18	1.06	0.95	0.87	0.79	0.73	0.62
14	0.18	0.34	0.91	1.44	1.96	2.45	3.18	3.88	4.58	5.26	5.55	4.22	3.35	2.74	2.30	1.96	1.70	1.49	1.32	1.18	1.07	0.97	0.88	0.81	0.69
15	0.20	0.37	0.98	1.56	2.11	2.64	3.42	4.18	4.93	5.66	6.15	4.68	3.71	3.04	2.55	2.17	1.88	1.65	1.47	1.31	1.18	1.07	0.98	0.90	0.77
16	0.21	0.39	1.05	1.67	2.26	2.83	3.67	4.49	5.29	6.07	6.77	5.15	4.09	3.35	2.81	2.40	2.08	1.82	1.62	1.45	1.30	1.18	1.08	0.99	0.85
17	0.22	0.42	1.13	1.78	2.41	3.02	3.92	4.79	5.64	6.48	7.42	5.64	4.48	3.67	3.07	2.62	2.27	2.00	1.77	1.58	1.43	1.30	1.18	1.09	0.93
18	0.24	0.45	1.20	1.90	2.57	3.22	4.17	5.09	6.00	6.90	8.07	6.15	4.88	3.99	3.35	2.86	2.48	2.17	1.93	1.73	1.56	1.41	1.29	1.18	1.01
19	0.25	0.47	1.27	2.01	2.72	3.41	4.42	5.40	6.36	7.31	8.55	6.67	5.29	4.33	3.63	3.10	2.69	2.36	2.09	1.87	1.69	1.53	1.40	1.28	1.10
20	0.27	0.50	1.34	2.12	2.88	3.60	4.67	5.71	6.73	7.73	9.04	7.20	5.72	4.68	3.92	3.35	2.90	2.55	2.26	2.02	1.82	1.65	1.51	1.39	1.18
21	0.28	0.53	1.41	2.24	3.03	3.80	4.92	6.02	7.09	8.15	9.53	7.75	6.15	5.03	4.22	3.60	3.12	2.74	2.43	2.17	1.96	1.78	1.62	1.49	1.27
22	0.30	0.55	1.49	2.35	3.19	4.00	5.18	6.33	7.46	8.57	10.02	8.31	6.59	5.40	4.52	3.86	3.35	2.94	2.61	2.33	2.10	1.91	1.74	1.60	1.37
23	0.31	0.58	1.56	2.47	3.34	4.19	5.43	6.64	7.82	8.99	10.51	8.88	7.05	5.77	4.83	4.13	3.58	3.14	2.79	2.49	2.25	2.04	1.86	1.71	1.46
24	0.33	0.61	1.63	2.59	3.50	4.39	5.69	6.95	8.19	9.41	11.01	9.47	7.51	6.15	5.15	4.40	3.81	3.35	2.97	2.66	2.40	2.17	1.99	1.82	1.56
25	0.34	0.63	1.71	2.70	3.66	4.59	5.94	7.26	8.56	9.83	11.50	10.07	7.99	6.54	5.48	4.68	4.05	3.56	3.16	2.82	2.55	2.31	2.11	1.94	1.65
26	0.35	0.66	1.78	2.82	3.82	4.79	6.20	7.58	8.93	10.26	12.00	10.68	8.47	6.93	5.81	4.96	4.30	3.77	3.35	3.00	2.70	2.45	2.24	2.05	1.75
28	0.38	0.72	1.93	3.05	4.13	5.18	6.72	8.21	9.67	11.11	13.00	11.93	9.47	7.75	6.49	5.55	4.81	4.22	3.74	3.35	3.02	2.74	2.50	2.30	1.96
30	0.41	0.77	2.08	3.29	4.45	5.59	7.24	8.85	10.42	11.97	14.01	13.23	10.50	8.59	7.20	6.15	5.33	4.68	4.15	3.71	3.35	3.04	2.77	2.55	2.17
32	0.44	0.83	2.23	3.53	4.78	5.99	7.76	9.48	11.18	12.84	15.02	14.58	11.57	9.47	7.93	6.77	5.87	5.15	4.57	4.09	3.69	3.35	3.06	2.81	
35	0.49	0.91	2.45	3.89	5.26	6.60	8.55	10.45	12.31	14.14	16.55	16.67	13.23	10.83	9.08	7.75	6.72	5.90	5.23	4.68	4.22	3.83	3.50	3.21	
40	0.57	1.05	2.84	4.49	6.08	7.62	9.87	12.07	14.22	16.34	19.11	20.37	16.17	13.23	11.09	9.47	8.21	7.20	6.39	5.72	5.15	4.68			
45	0.64	1.20	3.22	5.10	6.90	8.65	11.21	13.71	16.15	18.55	21.70	24.31	19.29	15.79	13.23	11.30	9.79	8.59	7.62	6.82					
Lube	Type A			Type B											Type C										

Horsepower values given in the tables are for single strand chains.
For multiple strand chains use the **"Multi-Strand Factors"** below.

Number of Strands	Multi-Stand Factors				
	2	3	4	5	6
Factor	1.7	2.5	3.3	3.9	4.6

Type A: Manual or Drip Lubrication
Type B: Bath or Sliger Disc Lubrication
Type C: Oil Stream or Pressure Spray Lubrication