

U.S. TSUBAKI RS ROLLER CHAIN

U.S. TSUBAKI RS ROLLER CHAIN – IMPROVED

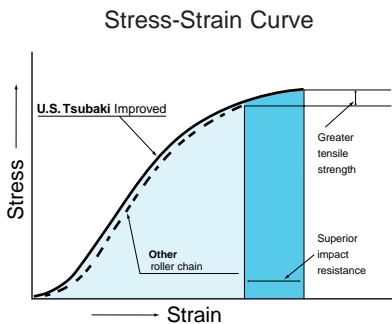
ANSI RS Roller Chain



RS ROLLER CHAIN RS11 ~ RS240

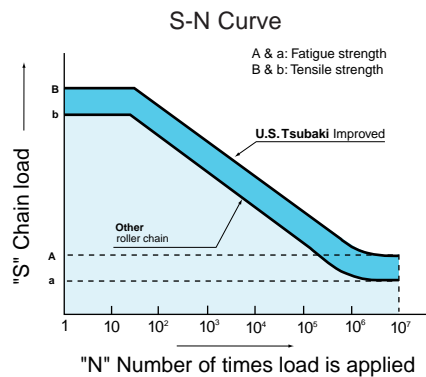
Superior Impact Resistance

U.S. Tsubaki chain has increased tensile strength and approximately 20% greater impact resistance than ANSI standard chain. The Stress-Strain Curve below illustrates how this extra U.S. Tsubaki strength provides greater protection against dangerous ultimate strength failure.



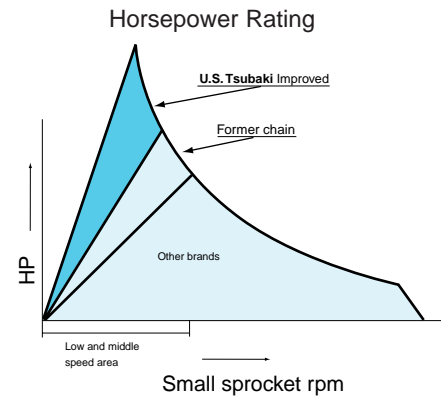
Greater Fatigue Strength

When you compare U.S. Tsubaki chains for fatigue strength performance, the facts put U.S. Tsubaki out in front. Compare the S-N Curve below for U.S. Tsubaki chains and see how the competition fades.



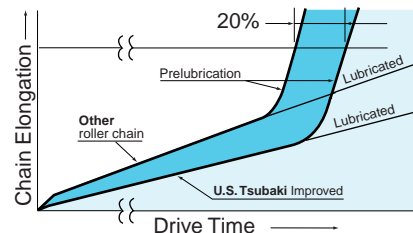
Higher Horsepower Rating

Tough U.S. Tsubaki chains not only last longer but stand up to higher horsepower ratings. In fact, RS35 and RS40 through RS240 withstand 25% higher horsepower ratings. The improvement comes from a U.S. Tsubaki exclusive ring coining process for the slip fit connecting link and special processing on the two-pitch off-set links. That means you can choose a smaller, less costly chain yet more than fulfill your requirements.



Improved Performance and Ease of Use

We have introduced production technology for the chain bearing section which eliminates the barrel shape of the bushing to give total surface contact between the pin and bushing. This improvement results in a reduction of initial elongation and a 20% improvement in wear life.



U.S. Tsubaki ring coining

U.S. TSUBAKI RS ROLLER CHAIN

Assurance of Greater Fatigue Strength

The wider waist of U.S. Tsubaki link plates ensures greater fatigue strength for all chain sizes. Fatigue strength (max. allowable load) of each size can be found in this catalog.



U.S. Tsubaki Other Brands

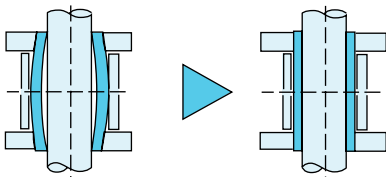
Longer Wear Life & Less Initial Adjustment

- 1) U.S. Tsubaki has decreased initial stretch to 0.01% and increased wear life by as much as 140% over the competition. Where initial elongation is a problem, as in precision applications or when you simply demand the best, U.S. Tsubaki roller chain is the solution.
- 2) Our original prelubricant minimizes stretch to enable a vast increase in the chain's wear life.
- 3) U.S. Tsubaki bushings are "curl formed" from high quality cold rolled alloy steel into a completely cylindrical shape with uniform wall thickness.

Perfectly cylindrical inside bushing wall

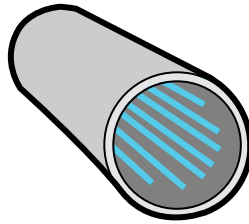


- 4) Micron control has enabled U.S. Tsubaki to produce perfectly straight bushings and significantly reduce stretch during initial operation.

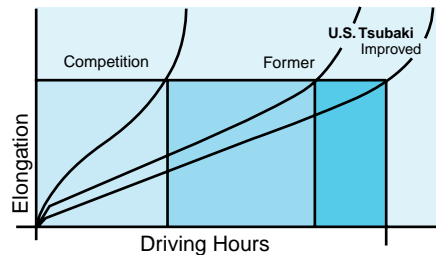


Micron Control

- 5) Improved U.S. Tsubaki roller chain sizes RS80, RS100, RS120, and RS140 last up to 30% longer – even without re-lubrication. A U.S. Tsubaki innovation – a lube groove (patent pending) on the inner surface of the bushing – retains the factory pre-lubricant oil.



Lube Groove



Shot Peened Parts

Link plates and rollers are shot peened for greater fatigue strength.



Factory Preloading

U.S. Tsubaki roller chains are continuously preloaded on multi-sprockets after final assembly as shown below. This results in minimum initial stretch.



Preloading on Sprockets

Heat Treatment Ensures Durability

Chain durability depends to a great extent on the heat-treatment of the various parts. The use of the most advanced heat-treatment methods and equipment guarantees that U.S. Tsubaki roller chains are highly durable.



Heat Treatment

Prelubrication

A special lubrication is applied by U.S. Tsubaki to bearing surfaces by hot dipping to extend chain life and reduce maintenance costs.



Prelubrication

A Completely Automated Manufacturing Process

The manufacture of U.S. Tsubaki roller chains employs advanced, automated techniques. The specialized equipment used in each process ensures that all parts are uniform and high quality. The photo below shows the automated positioning of bushings.



Automated Manufacturing

U.S. TSUBAKI RS ROLLER CHAIN

APPLICATIONS

Roller chains can be operated at speeds of up to 10,000 rpm. Even at high speeds, chain drive is quieter and smoother than a gear drive. You never have to worry about slippage as you would with a belt.

Roller chains are inherently elastic. Compared with gear drives, they soften shock and absorb vibration. They can be used in machines which are subjected to great shock or which constantly move or vibrate. Both the machine's body and bearing parts are protected against damage.



For accurate high speed drives... automobile engines



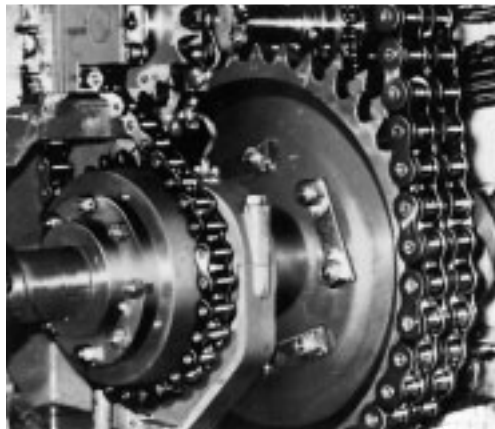
For high speed and heavy load drives... oil-well drilling equipment



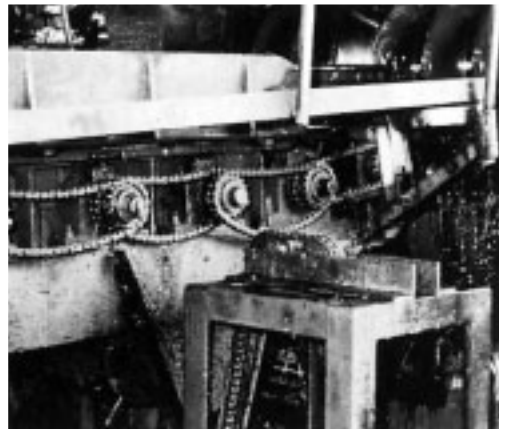
For heavy shock... draw benches



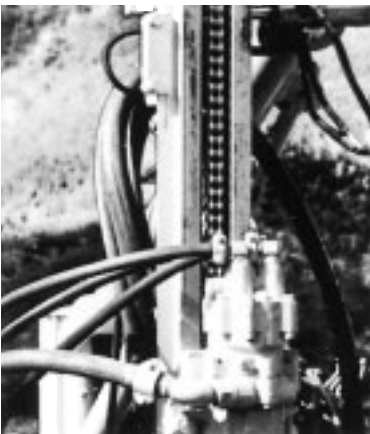
For long center distance drives... container straddle carriers



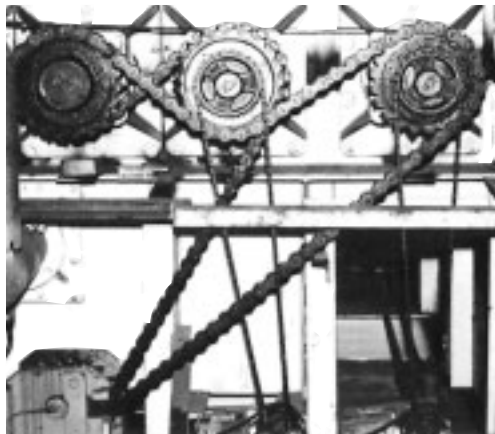
For precision drives... marine diesel engines



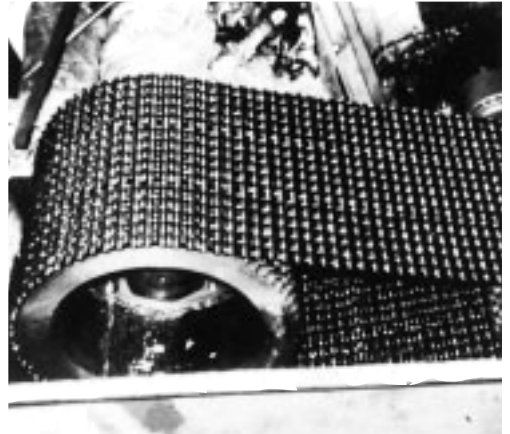
For severe conditions... tilting tables



For heavy shock... crawler drills



For multi-shaft drives... roller tables



For high speed operation... pump drives

U.S. TSUBAKI RS ROLLER CHAIN

CONNECTION OF RS ROLLER CHAIN – IMPROVED

Roller chain is normally used as a continuous length with a connecting link, resulting in an even number of pitches.

Connecting Links

Standard connecting links are used when RS roller chain is operated under normal conditions. For severe applications, press fit connecting links are suggested. In either case, a spring clip connecting link is used for RS roller chains of sizes RS60 or smaller, a cottered connecting link for sizes RS80 to RS200, and a spring pin connecting link for RS240. A cottered type connecting link is used for three to six strands of RS40 to RS60. A cottered type can be provided for single and double strands of RS40 to RS60 upon request.

Standard connecting links have a slip fit cover plate.

The wider waist of U.S. Tsubaki's cover plates provides higher fatigue strength.

Installation of press fit connecting links may be less convenient than that of standard connecting links, but performance is better. Press fit connecting links should be used in extremely high-speed or heavy duty applications.

The slip fit connecting links on improved U.S. Tsubaki chain have 25% greater fatigue strength. These connecting links are ring coined, which means improved capacity for your application.



If a continuous length has an odd number of pitches, an offset link must be used. However, the use of offset links should be avoided.

Offset Links

Both two-pitch offset links and one-pitch offset links are available for RS roller chains. U.S. Tsubaki's redesigned link plate and improved manufacturing process make our two-pitch offset links stronger than ever.

The two-pitch offset link is a combination of a roller link and an offset link connected with a riveted pin. The connecting link can be attached to either side of a two-pitch offset link.

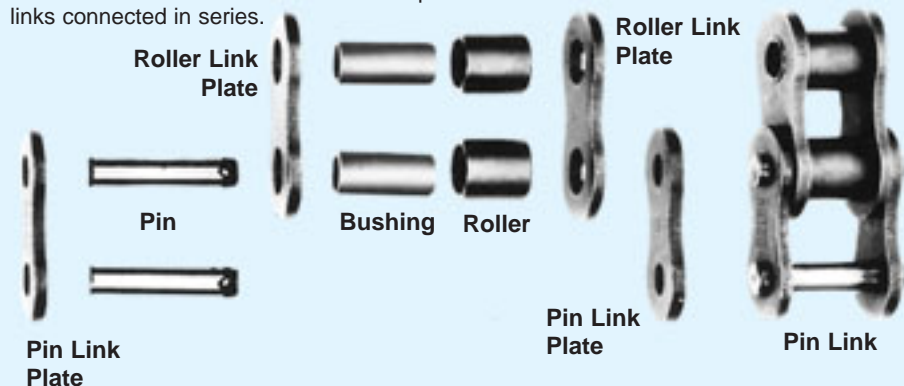
One-pitch offset links are very handy, but pin and offset link plates have to be slip-fitted. One-pitch offset links are also weaker than plain chain and two-pitch offset links. Therefore, one-pitch offset links are not suggested, especially for frequent on-and-off operation, heavy impact loads, and high-speed driving.

Note: Only two-pitch offset links are available for RS25.



Roller Chain

A roller chain consists of roller links and pin links connected in series.



U.S. TSUBAKI RS ROLLER CHAIN

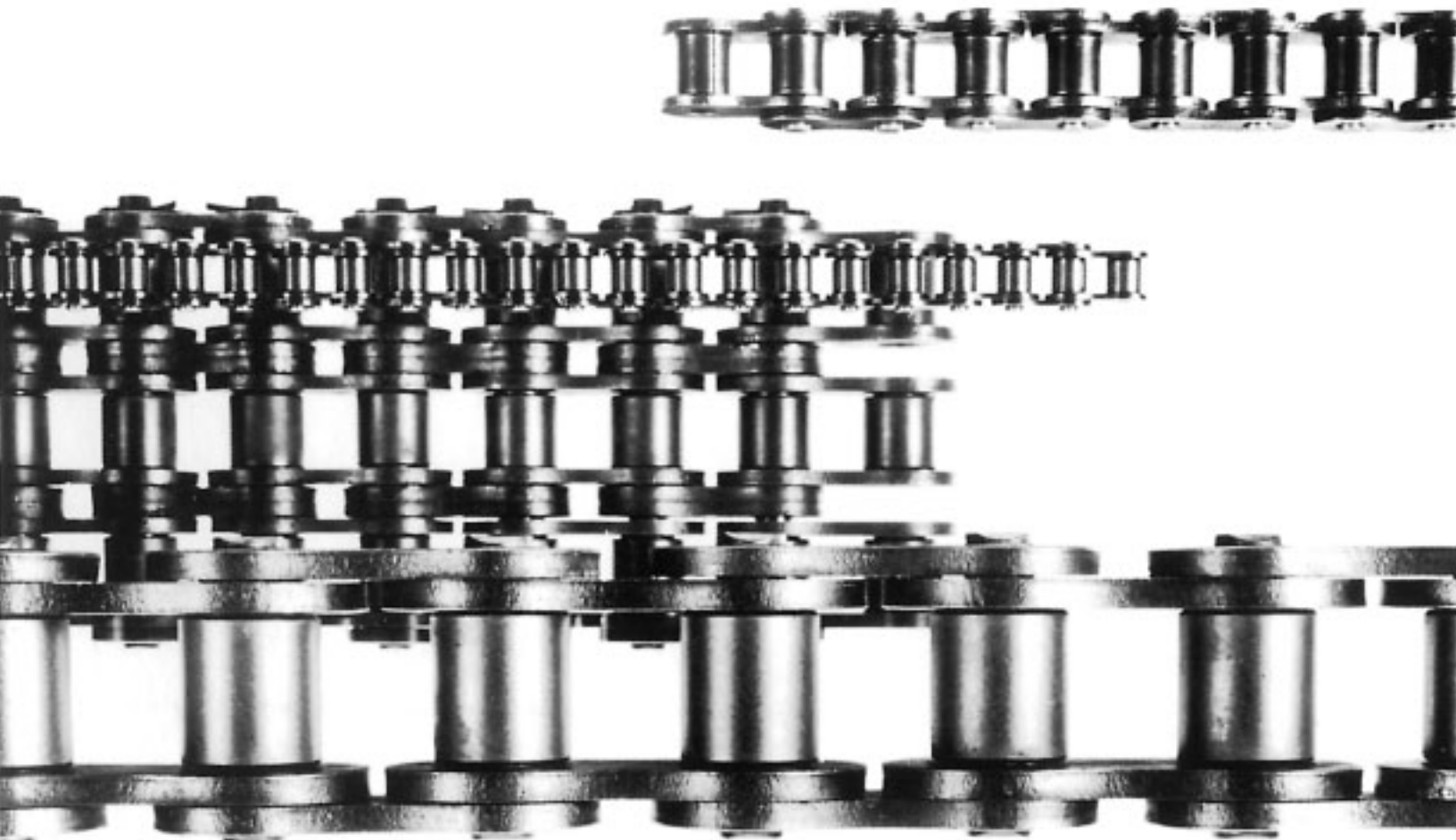
CHAIN DIMENSIONS (inch)

U.S. TSUBAKI									Single Strand			
Chain No.	ANSI No.	Page No.	Pitch	Roller Diameter	Width Between Roller Link Plates	Connecting Pin Length	Plate Thickness	Minimum Ultimate Strength ANSI Standard lbs.	Average Tensile Strength lbs.	Maximum Allowable Load lbs.	Number of Links Per 10 ft.	
RS11SS ▲	—	A-45	.1475	※ .090	.072	.214	.015	—	175	11	814	
RS15 ▲	—	A-45	.1875	※ .098	.094	.272	.024	—	510	70	640	
RS25 ▲	25	A-6	.250	※ .130	.125	.339	.030	780	1,050	140	480	
RS35 ▲	35	A-7	.375	※ .200	.188	.500	.050	1,760	2,530	480	320	
RS37 (43)	—	—	.500	※ .306	.134	.425	.040	—	2,120	370	240	
RS38 (42)	—	—	.500	※ .306	.188	.496	.040	—	2,120	370	240	
RS41	41	A-8	.500	※ .306	.250	.579	.050	1,500	2,640	500	240	
RS40	40	A-9	.500	※ .312	.312	.717	.060	3,125	4,290	810	240	
RS50	50	A-10	.625	※ .400	.375	.878	.080	4,880	7,050	1,430	192	
RS60	60	A-11	.750	※ .469	.500	1.087	.094	7,030	9,920	1,980	160	
RS80	80	A-12	1.000	※ .625	.625	1.398	.125	12,500	17,640	3,300	120	
RS100	100	A-13	1.250	※ .750	.750	1.678	.156	19,530	26,460	5,070	96	
RS120	120	A-14	1.500	※ .875	1.000	2.118	.187	28,125	37,480	6,830	80	
RS140	140	A-15	1.750	※ 1.000	1.000	2.307	.219	38,280	48,510	9,040	68	
RS160	160	A-16	2.000	※ 1.125	1.250	2.705	.250	50,000	60,630	11,900	60	
RS180	180	A-17	2.250	※ 1.406	1.406	3.075	.281	63,280	80,480	13,670	54	
RS200	200	A-18	2.500	※ 1.562	1.500	3.299	.312	78,125	103,630	16,090	48	
RS240	240	A-19	3.000	※ 1.875	1.875	4.071	.375	112,500	152,140	22,270	40	

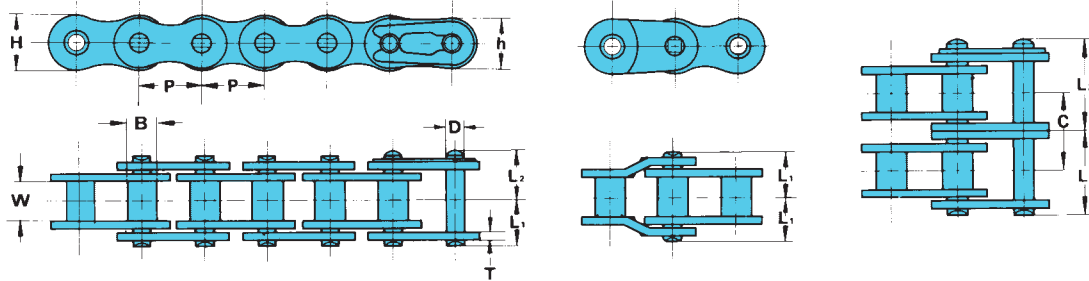
▲ Rollerless

※ Bushing Diameter

※※ Refer to page A-23, "Selection for Slow Speed."



RS25 ^{1/4"} Pitch



U.S. TSUBAKI Chain No.	ANSI Pitch No.	Pitch No.	Bushing Diameter B	Width Between Inner Link Plates W	Link Plate			Pin Diameter D
					T	H	h	
RS25	25	.250	.130	.125	.030	.230	.199	.0905

U.S. TSUBAKI Chain No.	Number of Strands	Pin			Transverse Pitch C	Standard Type of Pin	Minimum Ultimate Strength ANSI Standard lbs.	Average Tensile Strength lbs.	* Maximum Allowable Load lbs.	Approx. Weight lbs./ft.	Number of Links per 10 ft.
		L1+L2	L1	L2							
RS25	1	.339	.150	.189	.252	Riveted	780	1,050	140	.094	480
RS25-2	2	.591	.276	.315		Riveted	1,560	2,100	240	.181	

Note: Only two-pitch offset links are available for RS25 and RS25-2.

* Refer to page A-23, "Selection for Slow Speed."

Maximum Horsepower Ratings

No. of Teeth Small Splt.	Maximum Speed – Small Sprocket (rpm)																								
	50	100	300	500	700	900	1200	1500	1800	2100	2500	3000	3500	4000	4500	5000	5500	6000	6500	7000	7500	8000	8500	9000	10,000
	Lubrication System A											Lubrication System B													
11	0.03	0.05	0.14	0.23	0.31	0.39	0.50	0.60	0.71	0.83	0.95	1.13	1.29	1.38	1.16	0.99	0.86	0.75	0.67	0.60	0.54	0.49	0.45	0.41	0.35
12	0.03	0.06	0.16	0.25	0.34	0.43	0.55	0.66	0.78	0.90	1.05	1.23	1.42	1.57	1.32	1.12	0.97	0.86	0.76	0.68	0.61	0.56	0.51	0.47	0.40
13	0.04	0.06	0.17	0.27	0.37	0.47	0.60	0.72	0.84	0.98	1.14	1.34	1.54	1.74	1.49	1.27	1.10	0.96	0.86	0.77	0.69	0.63	0.57	0.53	0.45
14	0.04	0.07	0.19	0.30	0.40	0.50	0.65	0.78	0.94	1.06	1.23	1.46	1.68	1.89	1.66	1.42	1.23	1.08	0.96	0.86	0.77	0.70	0.64	0.59	0.50
15	0.04	0.08	0.20	0.32	0.43	0.54	0.68	0.84	0.99	1.14	1.33	1.57	1.81	2.04	1.84	1.57	1.36	1.20	1.06	0.95	0.86	0.78	0.71	0.65	0.56
16	0.04	0.08	0.22	0.34	0.47	0.58	0.74	0.90	1.06	1.22	1.43	1.69	1.93	2.19	2.03	1.73	1.50	1.32	1.17	1.05	0.94	0.86	0.78	0.72	0.61
17	0.05	0.09	0.23	0.37	0.48	0.60	0.79	0.97	1.14	1.30	1.53	1.80	2.07	2.33	2.22	1.90	1.64	1.44	1.28	1.14	1.03	0.94	0.86	0.79	0.67
18	0.05	0.09	0.25	0.39	0.53	0.64	0.84	1.02	1.21	1.38	1.62	1.92	2.20	2.48	2.42	2.07	1.79	1.57	1.39	1.25	1.12	1.02	0.93	0.86	0.73
19	0.05	0.10	0.26	0.41	0.56	0.68	0.89	1.09	1.29	1.48	1.72	2.02	2.33	2.63	2.62	2.24	1.94	1.70	1.51	1.35	1.22	1.11	1.01	0.93	0.79
20	0.06	0.10	0.28	0.44	0.59	0.72	0.94	1.15	1.35	1.56	1.82	2.15	2.47	2.78	2.83	2.42	2.10	1.84	1.63	1.46	1.32	1.20	1.09	1.00	0.86
21	0.06	0.11	0.29	0.46	0.60	0.76	0.99	1.21	1.42	1.64	1.92	2.27	2.60	2.92	3.05	2.60	2.26	1.98	1.76	1.57	1.42	1.29	1.17	1.08	0.92
22	0.06	0.11	0.31	0.48	0.64	0.80	1.05	1.27	1.50	1.73	2.01	2.37	2.74	3.08	3.27	2.79	2.42	2.12	1.88	1.69	1.52	1.38	1.26	1.16	0.99
23	0.06	0.12	0.32	0.51	0.67	0.84	1.10	1.34	1.57	1.81	2.12	2.49	2.87	3.23	3.50	2.98	2.59	2.27	2.01	1.80	1.62	1.47	1.35	1.24	1.06
24	0.07	0.13	0.34	0.53	0.72	0.90	1.14	1.39	1.65	1.89	2.21	2.61	3.00	3.38	3.73	3.18	2.76	2.42	2.15	1.92	1.73	1.57	1.44	1.32	1.12
25	0.07	0.13	0.35	0.55	0.75	0.94	1.19	1.46	1.72	1.98	2.32	2.72	3.14	3.54	3.93	3.38	2.93	2.57	2.28	2.04	1.84	1.67	1.53	1.40	1.20
26	0.07	0.14	0.37	0.56	0.76	0.98	1.25	1.53	1.80	2.07	2.41	2.84	3.27	3.69	4.10	3.59	3.11	2.73	2.42	2.17	1.95	1.77	1.62	1.49	1.27
28	0.08	0.15	0.40	0.63	0.83	1.05	1.35	1.65	1.94	2.24	2.61	3.08	3.54	4.00	4.44	4.01	3.47	3.05	2.70	2.42	2.18	1.98	1.81	1.66	1.42
30	0.08	0.16	0.43	0.66	0.90	1.13	1.46	1.78	2.09	2.41	2.82	3.33	3.82	4.30	4.79	4.45	3.85	3.38	3.00	2.68	2.42	2.20	2.01	1.84	1.57
32	0.09	0.17	0.44	0.71	0.98	1.21	1.56	1.90	2.25	2.59	3.02	3.57	4.09	4.61	5.14	4.90	4.25	3.73	3.30	2.96	2.67	2.42	2.21	2.03	1.73
35	0.10	0.19	0.51	0.78	1.06	1.33	1.72	2.11	2.48	2.84	3.33	3.93	4.51	5.08	5.65	5.60	4.86	4.26	3.78	3.38	3.05	2.77	2.53	2.32	1.98
40	0.12	0.22	0.58	0.90	1.22	1.53	1.98	2.43	2.86	3.29	3.85	4.53	5.20	5.87	6.53	6.85	5.93	5.21	4.62	4.13	3.73	3.38	3.09	2.83	2.42
45	0.13	0.25	0.64	1.03	1.39	1.74	2.25	2.76	3.25	3.73	4.37	5.15	5.91	6.66	7.42	8.15	7.08	6.21	5.51	4.93	4.45	4.04	3.69	3.38	2.89

Note: 1. Multiply the value given above by the multiple strand factor (page A-22, Table II) in order to obtain the transmission horsepower of multiple strand chain.

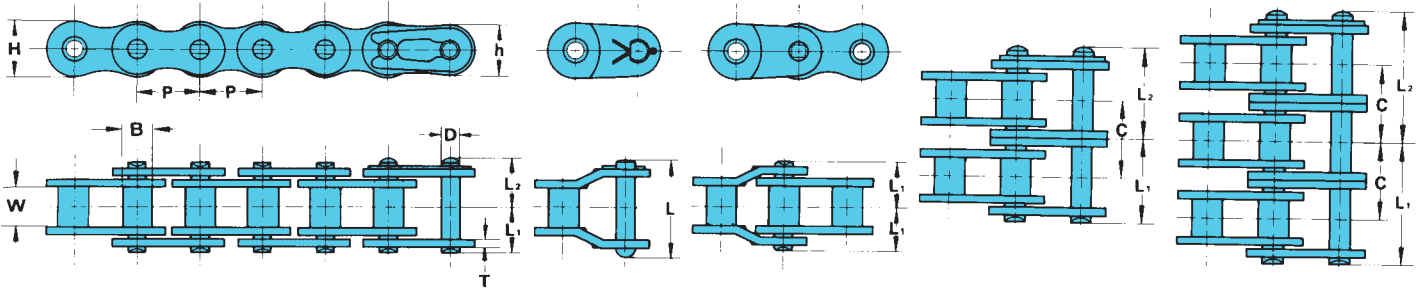
2. For lubrication systems A, B & C, refer to page A-77 for explanation. Please consult U.S. Tsubaki for use of horsepower ratings to the right of the boundary line.

3. Refer to page A-22, "Procedures for Selecting Roller Chain."

4. Gray portion of Maximum Horsepower Ratings Table is Lubrication System C.

U.S. TSUBAKI RS ROLLER CHAIN

RS35 ^{3/8" Pitch}



U.S. TSUBAKI Chain No.	ANSI No.	Pitch P	Bushing Diameter B	Link Plate				Pin Diameter D
				Width Between Inner Link Plates W	T	H	h	
RS35	35	.375	.200	.188	.050	.354	.307	.141

U.S. TSUBAKI Chain No.	Number of Strands	Pin				Transverse Pitch C	Standard Type of Pin	Minimum Ultimate Strength ANSI Standard lbs.	Average Tensile Strength lbs.	*Maximum Allowable Load lbs.	Approx. Weight lbs./ft.	Number of Links per 10 ft.
		L ₁ +L ₂	L ₁	L ₂	L							
RS35	1	.500	.230	.270	.531	Riveted	1,760	2,530	480	.22	320	
RS35-2	2	.898	.429	.469	.965	Riveted	3,520	5,060	810	.46		
RS35-3	3	1.295	.630	.665	1.362	Riveted	5,280	7,590	1,200	.70		

Note: * Refer to page A-23, "Selection for Slow Speed."

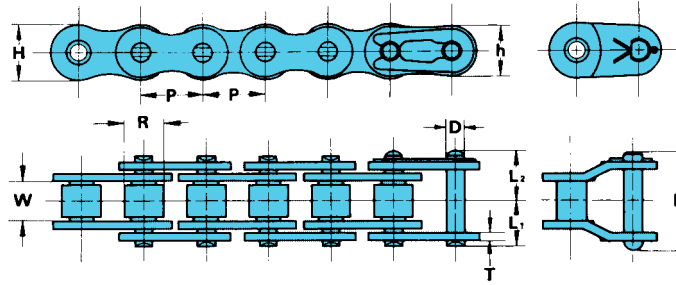
Maximum Horsepower Ratings

No. of Teeth Small Spkt.	Maximum Speed - Small Sprocket (rpm)																								
	50	100	300	500	700	900	1200	1500	1800	2100	2500	3000	3500	4000	4500	5000	5500	6000	6500	7000	7500	8000	8500	9000	10,000
	Lubrication System																								
	A												B						C						
11	0.16	0.30	0.78	1.23	1.66	2.09	2.71	3.31	3.90	4.48	3.86	2.92	2.32	1.90	1.58	1.18	1.03	0.91	0.82	0.74	0.67	0.60	0.56	0.48	
12	0.17	0.32	0.86	1.35	1.84	2.29	2.98	3.63	4.29	4.92	4.40	3.35	2.66	2.17	1.82	1.56	1.35	1.18	1.05	0.94	0.84	0.76	0.70	0.64	0.55
13	0.19	0.35	0.94	1.48	2.00	2.51	3.25	3.97	4.68	5.38	4.96	3.75	2.99	2.45	2.05	1.74	1.50	1.33	1.17	1.05	0.94	0.86	0.78	0.72	0.62
14	0.20	0.38	1.01	1.60	2.16	2.71	3.51	4.30	5.07	5.82	5.55	4.21	3.34	2.72	2.29	1.96	1.70	1.49	1.31	1.18	1.06	0.97	0.87	0.80	0.68
15	0.21	0.40	1.09	1.72	2.33	2.92	3.80	4.63	5.46	6.26	6.16	4.65	3.70	3.03	2.53	2.17	1.88	1.65	1.46	1.31	1.18	1.07	0.98	0.90	0.76
16	0.23	0.43	1.17	1.85	2.49	3.14	4.06	4.96	5.85	6.72	6.77	5.10	4.08	3.34	2.80	2.39	2.07	1.82	1.61	1.43	1.30	1.18	1.07	0.99	0.83
17	0.25	0.47	1.25	1.97	2.67	3.35	4.33	5.30	6.25	7.17	7.42	5.59	4.47	3.66	3.06	2.61	2.27	1.98	1.77	1.58	1.42	1.29	1.18	1.07	0.93
18	0.27	0.50	1.33	2.09	2.84	3.57	4.61	5.65	6.64	7.63	8.09	6.09	4.87	3.98	3.34	2.84	2.47	2.17	1.92	1.72	1.54	1.41	1.29	1.18	1.01
19	0.28	0.52	1.41	2.23	3.02	3.77	4.89	5.98	7.04	8.09	8.77	6.60	5.28	4.32	3.62	3.08	2.68	2.35	2.09	1.86	1.68	1.53	1.38	1.27	1.09
20	0.30	0.55	1.49	2.35	3.18	4.00	5.16	6.32	7.44	8.56	9.47	7.13	5.70	4.67	3.90	3.34	2.90	2.53	2.25	2.01	1.82	1.65	1.50	1.41	1.18
21	0.31	0.58	1.57	2.48	3.35	4.21	5.44	6.66	7.84	9.01	10.2	7.67	6.13	5.02	4.21	3.59	3.11	2.72	2.41	2.17	1.96	1.77	1.62	1.49	1.27
22	0.32	0.62	1.65	2.60	3.53	4.43	5.73	7.00	8.25	9.48	10.9	8.31	6.58	5.38	4.51	3.85	3.34	2.92	2.60	2.33	2.09	1.90	1.74	1.60	1.35
23	0.35	0.64	1.73	2.74	3.70	4.64	6.01	7.35	8.66	9.95	11.6	8.88	7.05	5.77	4.83	4.13	3.58	3.14	2.79	2.49	2.25	2.04	1.86	1.72	1.46
24	0.36	0.67	1.81	2.86	3.88	4.85	6.29	7.70	9.07	10.4	12.2	9.47	7.50	6.13	5.15	4.39	3.80	3.34	2.96	2.64	2.39	2.17	1.98	1.82	1.54
25	0.38	0.70	1.89	2.99	4.05	5.08	6.57	8.05	9.48	10.9	12.7	10.1	7.99	6.54	5.48	4.66	4.05	3.57	3.16	2.82	2.55	2.31	2.11	1.94	1.65
26	0.39	0.74	1.97	3.12	4.22	5.30	6.87	8.39	9.88	11.4	13.3	10.7	8.46	6.92	5.81	4.96	4.30	3.77	3.34	2.99	2.70	2.45	2.24	2.05	1.74
28	0.43	0.79	2.13	3.38	4.57	5.74	7.43	9.09	10.7	12.3	14.3	11.9	9.48	7.75	6.49	5.55	4.81	4.22	3.74	3.35	3.02	2.74	2.51	2.31	1.96
30	0.46	0.86	2.31	3.65	4.93	6.18	8.01	9.79	11.5	13.2	15.6	13.2	10.5	8.57	7.17	6.14	5.32	4.67	4.14	3.70	3.34	3.03	2.76	2.53	2.17
32	0.50	0.91	2.47	3.90	5.28	6.62	8.58	10.5	12.4	14.2	16.6	14.6	11.5	9.44	7.91	6.76	5.86	5.14	4.56	4.08	3.67	3.34	3.04	2.80	0
35	0.54	1.01	2.72	4.30	5.82	7.31	9.45	11.6	13.7	15.7	18.4	16.6	13.2	10.8	9.07	7.72	6.71	5.87	5.22	4.67	4.21	3.82	3.49	3.21	0
40	0.63	1.17	3.14	4.98	6.73	8.44	10.9	13.4	15.7	18.1	21.2	20.4	16.1	13.2	11.1	9.45	8.19	7.19	6.37	5.70	5.14	4.67	0	0	0
45	0.71	1.33	3.57	5.65	7.64	9.57	12.4	15.2	17.8	20.5	24.0	24.3	19.3	15.8	13.2	11.3	9.79	8.60	7.63	6.83	0	0	0	0	0

- Note: 1. Multiply the value given above by the multiple strand factor (page A-22, Table II) in order to obtain the transmission horsepower of multiple strand chain.
 2. For lubrication systems A, B & C, refer to page A-77 for explanation. Please consult U.S. Tsubaki for use of horsepower ratings to the right of the boundary line.
 3. Refer to page A-22, "Procedures for Selecting Roller Chain."

RS41

1/2" Pitch



U.S. TSUBAKI Chain No.	ANSI No.	Pitch P	Roller Diameter R	Width Between Roller Link Plates W	Link Plate			Pin Diameter D
					T	H	h	
RS41	41	.500	.306	.250	.050	.386	.331	.141

U.S. TSUBAKI Chain No.	Pin				Standard Type of Pin	Minimum Ultimate Strength ANSI Standard lbs.	Average Tensile Strength lbs.	* Maximum Allowable Load lbs.	Approx. Weight lbs./ft.	Number of Links per 10 ft.
	L1+L2	L1	L2	L						
RS41	.579	.266	.313	.594	Riveted	1,500	2,640	500	.27	240

Note: * Refer to page A-23, "Selection for Slow Speed."

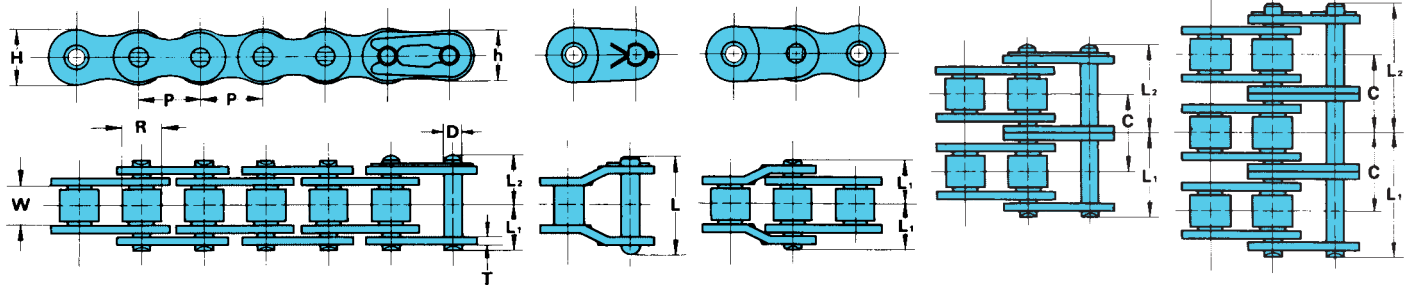
Maximum Horsepower Ratings

No. of Teeth Small Spkt.	Maximum Speed - Small Sprocket (rpm)																								
	10	25	50	100	200	300	400	500	700	900	1000	1200	1400	1600	1800	2100	2400	2700	3000	3500	4000	5000	6000	7000	8000
	Lubrication System A										Lubrication System B										Lubrication System C				
11	0.04	0.09	0.16	0.31	0.58	0.82	1.06	1.30	1.76	2.20	2.27	1.71	1.36	1.11	0.93	0.74	0.61	0.51	0.43	0.34	0.28	0.20	0.15	0.12	0.10
12	0.04	0.09	0.19	0.34	0.63	0.90	1.17	1.42	1.93	2.41	2.59	1.95	1.55	1.27	1.06	0.84	0.69	0.58	0.49	0.39	0.32	0.23	0.17	0.14	0.11
13	0.04	0.11	0.20	0.36	0.68	0.98	1.27	1.55	2.10	2.63	2.90	2.20	1.75	1.43	1.20	0.95	0.78	0.65	0.56	0.44	0.36	0.26	0.20	0.16	0.13
14	0.05	0.11	0.21	0.39	0.74	1.06	1.37	1.68	2.28	2.85	3.14	2.46	1.95	1.60	1.34	1.06	0.87	0.73	0.62	0.49	0.40	0.29	0.22	0.17	0.14
15	0.05	0.12	0.23	0.43	0.79	1.14	1.47	1.81	2.45	3.07	3.38	2.73	2.17	1.77	1.49	1.18	0.96	0.81	0.69	0.55	0.45	0.32	0.24	0.19	0.16
16	0.05	0.13	0.24	0.46	0.84	1.22	1.58	1.94	2.63	3.30	3.62	3.01	2.39	1.95	1.64	1.30	1.06	0.89	0.76	0.60	0.49	0.35	0.27	0.21	0.17
17	0.07	0.13	0.25	0.48	0.91	1.31	1.69	2.08	2.80	3.51	3.86	3.29	2.61	2.14	1.79	1.42	1.16	0.98	0.83	0.66	0.54	0.39	0.29	0.23	0.19
18	0.07	0.15	0.28	0.52	0.97	1.39	1.80	2.20	2.98	3.74	4.11	3.59	2.86	2.33	1.95	1.55	1.27	1.06	0.91	0.72	0.59	0.42	0.32	0.25	0
19	0.07	0.16	0.29	0.55	1.02	1.47	1.90	2.33	3.16	3.97	4.36	3.89	3.10	2.53	2.12	1.68	1.38	1.15	0.98	0.78	0.64	0.46	0.35	0.28	0
20	0.07	0.16	0.31	0.58	1.09	1.55	2.02	2.47	3.34	4.20	4.61	4.24	3.33	2.73	2.29	1.81	1.49	1.24	1.06	0.84	0.69	0.49	0.38	0.30	0
21	0.08	0.17	0.32	0.62	1.14	1.65	2.13	2.60	3.52	4.41	4.85	4.56	3.59	2.94	2.46	1.95	1.60	1.34	1.14	0.91	0.74	0.53	0.40	0.32	0
22	0.08	0.19	0.35	0.64	1.19	1.73	2.22	2.73	3.70	4.64	5.11	4.88	3.85	3.15	2.64	2.09	1.71	1.44	1.23	0.97	0.80	0.57	0.43	0.34	0
23	0.08	0.19	0.36	0.67	1.26	1.81	2.35	2.87	3.89	4.87	5.36	5.21	4.11	3.37	2.82	2.24	1.83	1.54	1.31	1.04	0.85	0.61	0.46	0.37	0
24	0.09	0.20	0.38	0.71	1.31	1.90	2.45	3.00	4.07	5.11	5.60	5.56	4.38	3.59	3.01	2.39	1.95	1.64	1.40	1.11	0.91	0.65	0.49	0.39	0
25	0.09	0.21	0.40	0.74	1.38	1.98	2.57	3.14	4.25	5.33	5.86	5.91	4.66	3.81	3.20	2.54	2.08	1.74	1.49	1.18	0.96	0.69	0.53	0	0
26	0.09	0.23	0.42	0.76	1.43	2.06	2.68	3.28	4.44	5.56	6.11	6.27	4.94	4.05	3.39	2.69	2.20	1.85	1.58	1.25	1.02	0.73	0.56	0	0
28	0.11	0.24	0.44	0.83	1.55	2.24	2.91	3.55	4.81	6.03	6.62	7.01	5.52	4.52	3.79	3.01	2.46	2.06	1.76	1.40	1.14	0.82	0.62	0	0
30	0.11	0.25	0.48	0.90	1.68	2.41	3.12	3.82	5.17	6.49	7.13	7.77	6.13	5.01	4.20	3.33	2.73	2.29	1.95	1.55	1.27	0.91	0.69	0	0
32	0.12	0.28	0.51	0.97	1.80	2.59	3.36	4.10	5.55	6.96	7.65	8.56	6.75	5.52	4.63	3.67	3.01	2.52	2.15	1.71	1.40	1.00	0	0	0
35	0.13	0.31	0.58	1.06	1.98	2.85	3.70	4.52	6.11	7.67	8.43	9.80	7.72	6.32	5.29	4.20	3.44	2.88	2.46	1.95	1.60	1.14	0	0	0
40	0.16	0.35	0.66	1.23	2.29	3.30	4.26	5.21	7.06	8.86	9.73	11.5	9.43	7.72	6.47	5.13	4.20	3.52	3.01	2.39	1.95	1.40	0	0	0
45	0.17	0.40	0.75	1.39	2.60	3.74	4.85	5.92	8.03	10.1	11.1	13.0	11.3	9.21	7.72	6.13	5.01	4.20	3.59	2.85	2.33	0	0	0	0

Note: 1. For lubrication systems A, B & C, refer to page A-77 for explanation. Please consult U.S. Tsubaki for use of horsepower ratings to the right of the boundary line.
 2. Refer to page A-22, "Procedures for Selecting Roller Chain."

U.S. TSUBAKI RS ROLLER CHAIN

RS40 1/2" Pitch



U.S. TSUBAKI Chain No.	ANSI No.	Pitch P	Roller Diameter R	Link Plate				Pin Diameter D
				Width Between Roller Link Plates W	T	H	h	
RS40	40	.500	.312	.312	.060	.472	.409	.156

U.S. TSUBAKI Chain No.	Number of Strands	Pin				Transverse Pitch C	Standard Type of Pin	Minimum Ultimate Strength ANSI Standard lbs.	Average Tensile Strength lbs.	*Maximum Allowable Load lbs.	Approx. Weight lbs./ft.	Number of Links per 10 ft.
		L ₁ +L ₂	L ₁	L ₂	L							
RS40	1	.717	.325	.392	.709	.566	Riveted	3,125	4,290	810	.43	240
RS40-2	2	1.283	.608	.675	1.319		Riveted	6,250	8,580	1,370	.85	
RS40-3	3	1.843	.892	.951	1.886		Riveted	9,375	12,870	2,020	1.28	
RS40-4	4	2.409	1.177	1.232	2.453		Riveted	12,500	17,160	2,670	1.70	
RS40-5	5	2.980	1.461	1.519	3.024		Riveted	15,625	21,450	3,150	2.12	
RS40-6	6	3.547	1.744	1.803	3.591		Riveted	18,750	25,740	3,720	2.55	

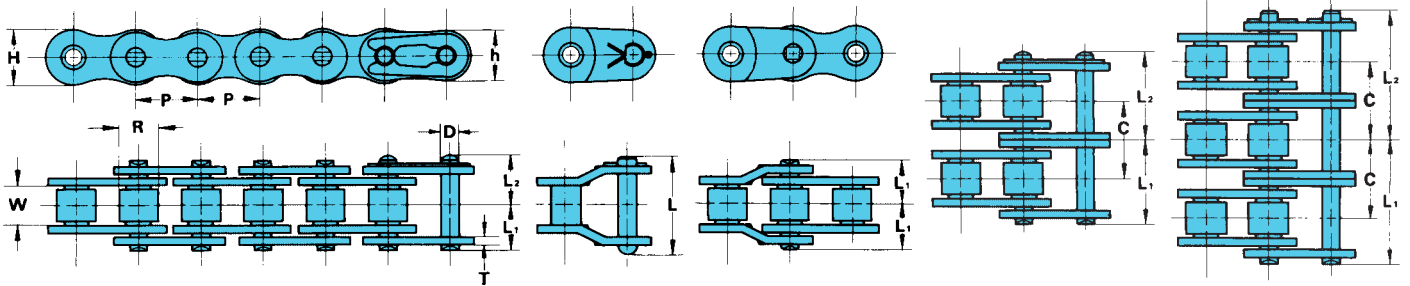
Note: * Refer to page A-23, "Selection for Slow Speed."

Maximum Horsepower Ratings

No. of Teeth Small Spkt.	Maximum Speed - Small Sprocket (rpm)																								
	10	25	50	100	200	300	400	500	700	900	1000	1200	1400	1600	1800	2100	2400	2700	3000	3500	4000	5000	6000	7000	8000
	A												B						C						
11	0.08	0.19	0.35	0.64	1.21	1.73	2.24	2.74	3.70	4.65	5.11	6.02	6.81	5.58	4.67	3.70	3.03	2.55	2.15	1.72	1.41	1.01	0.76	0.62	0.50
12	0.09	0.20	0.38	0.71	1.31	1.90	2.47	3.00	4.08	5.11	5.62	6.61	7.60	6.36	5.31	4.22	3.45	2.90	2.47	1.96	1.60	1.14	0.87	0.68	0.58
13	0.09	0.23	0.42	0.76	1.43	2.07	2.68	3.29	4.44	5.57	6.13	7.21	8.29	7.16	5.99	4.76	3.89	3.26	2.79	2.21	1.81	1.29	0.98	0.78	0.64
14	0.11	0.24	0.44	0.83	1.56	2.24	2.91	3.55	4.81	6.03	6.64	7.82	8.97	8.01	6.71	5.31	4.36	3.65	3.11	2.47	2.02	1.45	1.10	0.87	0.71
15	0.11	0.25	0.48	0.90	1.68	2.41	3.14	3.84	5.19	6.50	7.15	8.42	9.67	8.88	7.43	5.89	4.83	4.04	3.45	2.74	2.24	1.60	1.22	0.97	0.79
16	0.12	0.28	0.52	0.97	1.80	2.59	3.35	4.10	5.55	6.97	7.66	9.03	10.4	9.79	8.18	6.49	5.31	4.45	3.81	3.02	2.47	1.77	1.34	1.07	0.87
17	0.13	0.30	0.55	1.03	1.92	2.76	3.58	4.39	5.93	7.44	8.18	9.64	11.1	10.7	8.97	7.11	5.82	4.88	4.17	3.31	2.71	1.94	1.48	1.17	0.97
18	0.13	0.31	0.59	1.10	2.04	2.95	3.81	4.67	6.32	7.91	8.70	10.2	11.8	11.7	9.76	7.75	6.34	5.31	4.55	3.61	2.96	2.11	1.60	1.27	0
19	0.15	0.34	0.62	1.17	2.17	3.12	4.05	4.95	6.69	8.39	9.23	10.9	12.5	12.7	10.5	8.41	6.88	5.77	4.92	3.92	3.21	2.29	1.74	1.38	0
20	0.16	0.35	0.66	1.23	2.29	3.30	4.28	5.23	7.07	8.86	9.75	11.5	13.2	13.7	11.1	9.08	7.53	6.22	5.31	4.22	3.45	2.47	1.88	1.49	0
21	0.16	0.38	0.70	1.29	2.41	3.47	4.51	5.51	7.46	9.35	10.3	12.1	13.9	14.8	12.4	9.76	7.99	6.71	5.73	4.55	3.71	2.66	2.02	1.60	0
22	0.17	0.39	0.72	1.35	2.53	3.66	4.73	5.79	7.84	9.83	10.8	12.7	14.6	15.8	13.2	10.5	8.57	7.19	6.13	4.87	3.98	2.86	2.17	1.72	0
23	0.17	0.42	0.76	1.42	2.67	3.84	4.98	6.07	8.22	10.3	11.3	13.4	15.3	16.9	14.1	11.2	9.16	7.68	6.56	5.20	4.26	3.06	2.32	1.84	0
24	0.19	0.43	0.80	1.49	2.79	4.02	5.20	6.36	8.61	10.8	11.9	13.9	16.1	18.0	15.0	11.9	9.76	8.18	7.00	5.54	4.55	3.25	2.47	1.96	0
25	0.20	0.44	0.83	1.56	2.91	4.20	5.44	6.65	9.00	11.3	12.4	14.6	16.8	18.9	16.0	12.7	10.4	8.70	7.43	5.89	4.83	3.45	2.63	2.0	0
26	0.20	0.47	0.87	1.62	3.04	4.39	5.67	6.93	9.39	11.8	12.9	15.3	17.6	19.7	17.0	13.5	11.0	9.24	7.89	6.25	5.12	3.66	2.76	0	0
28	0.23	0.51	0.95	1.77	3.30	4.75	6.14	7.51	10.2	12.8	14.1	16.5	19.0	21.5	19.0	15.0	12.3	10.3	8.81	7.00	5.73	4.09	3.11	0	0
30	0.24	0.55	1.02	1.90	3.55	5.11	6.62	8.10	11.0	13.7	15.2	17.8	20.4	23.1	21.1	16.8	13.5	11.4	9.76	7.75	6.34	4.55	3.45	0	0
32	0.25	0.59	1.09	2.04	3.81	5.48	7.09	8.68	11.7	14.8	16.2	19.0	21.9	24.7	23.2	18.4	15.0	12.6	10.8	8.54	7.00	5.00	0	0	0
35	0.28	0.64	1.21	2.24	4.20	6.03	7.82	9.56	12.9	16.2	17.8	21.1	24.1	27.2	26.6	21.1	17.2	14.3	12.3	9.76	7.99	5.73	0	0	0
40	0.32	0.75	1.39	2.59	4.84	6.97	9.04	11.1	14.9	18.8	20.7	24.3	27.9	31.5	32.5	25.7	21.1	17.6	15.0	11.9	9.76	7.00	0	0	0
45	0.38	0.84	1.58	2.95	5.50	7.93	10.3	12.5	17.0	21.3	23.5	27.6	31.6	35.7	38.6	30.6	25.1	21.1	18.0	14.2	11.7	0	0	0	0

- Note: 1. Multiply the value given above by the multiple strand factor (page A-22, Table II) in order to obtain the transmission horsepower of multiple strand chain.
 2. For lubrication systems A, B & C, refer to page A-77 for explanation. Please consult U.S. Tsubaki for use of horsepower ratings to the right of the boundary line.
 3. Refer to page A-22, "Procedures for Selecting Roller Chain."

RS50 ^{5/8" Pitch}



U.S. TSUBAKI Chain No.	ANSI No.	Pitch P	Roller Diameter R	Width Between Roller Link Plates W	Link Plate			Pin Diameter D
					T	H	h	
RS50	50	.625	.400	.375	.080	.591	.512	.200

U.S. TSUBAKI Chain No.	Number of Strands	Pin				Transverse Pitch C	Standard Type of Pin	Minimum Ultimate Strength ANSI Standard lbs.	Average Tensile Strength lbs.	* Maximum Allowable Load lbs.	Approx. Weight lbs./ft.	Number of Links per 10 ft.
		L1+L2	L1	L2	L							
RS50	1	.878	.406	.472	.886	.713	Riveted	4,880	7,050	1,430	.70	192
RS50-2	2	1.595	.762	.833	1.646		Riveted	9,760	14,100	2,430	1.39	
RS50-3	3	2.307	1.118	1.189	2.358		Riveted	14,640	21,150	3,570	2.08	
RS50-4	4	3.020	1.475	1.545	3.075		Riveted	19,520	28,200	4,710	2.76	
RS50-5	5	3.732	1.831	1.901	3.787		Riveted	24,400	35,250	5,570	3.45	
RS50-6	6	4.449	2.189	2.260	4.504		Riveted	29,280	42,300	6,570	4.14	

Note: * Refer to page A-23, "Selection for Slow Speed."

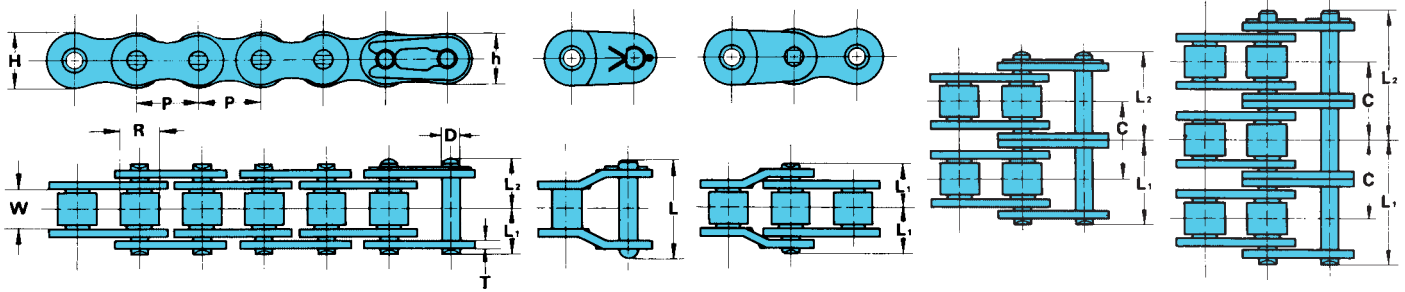
Maximum Horsepower Ratings

No. of Teeth Small Spk.	Maximum Speed - Small Sprocket (rpm)																								
	10	25	50	100	200	300	400	500	700	900	1000	1200	1400	1600	1800	2100	2400	2700	3000	3500	4000	4500	5000	5500	6000
	A											B						C							
11	0.16	0.38	0.71	1.33	2.48	3.58	4.64	5.66	7.67	9.62	10.6	10.3	8.14	6.65	5.58	4.43	3.62	3.04	2.59	2.07	1.68	1.41	1.21	1.05	0.93
12	0.19	0.42	0.78	1.46	2.72	3.93	5.10	6.22	8.42	10.6	11.6	11.7	9.27	7.59	6.36	5.04	4.13	3.46	2.95	2.35	1.92	1.61	1.37	1.19	1.05
13	0.20	0.46	0.86	1.60	2.98	4.28	5.55	6.79	9.19	11.5	12.7	13.2	10.4	8.56	7.16	5.70	4.65	3.90	3.33	2.64	2.16	1.81	1.56	1.34	0
14	0.21	0.50	0.93	1.73	3.22	4.64	6.01	7.35	9.95	12.5	13.7	14.8	11.7	9.56	8.02	6.36	5.20	4.36	3.73	2.95	2.43	2.02	1.73	1.50	0
15	0.23	0.54	0.99	1.86	3.47	5.00	6.48	7.93	10.7	13.4	14.8	16.4	13.0	10.6	8.89	7.05	5.77	4.83	4.13	3.27	2.68	2.25	1.92	1.66	0
16	0.25	0.58	1.07	2.00	3.73	5.36	6.95	8.49	11.5	14.3	15.8	18.0	14.3	11.7	9.79	7.76	6.36	5.32	4.55	3.61	2.95	2.47	2.11	1.84	0
17	0.27	0.62	1.14	2.13	3.97	5.73	7.42	9.07	12.3	15.4	16.9	19.7	15.7	12.8	10.7	8.50	6.96	5.83	4.99	3.96	3.23	2.71	2.31	2.01	0
18	0.28	0.66	1.22	2.27	4.22	6.09	7.89	9.64	13.0	16.4	18.0	21.2	17.0	13.9	11.7	9.27	7.59	6.36	5.42	4.30	3.53	2.95	2.52	0	
19	0.31	0.68	1.29	2.40	4.48	6.45	8.37	10.2	13.8	17.3	19.0	22.5	18.5	15.2	12.7	10.0	8.22	6.89	5.89	4.67	3.82	3.21	2.74	0	
20	0.32	0.72	1.35	2.53	4.73	6.83	8.84	10.8	14.6	18.4	20.1	23.7	20.0	16.4	13.7	10.8	8.89	7.44	6.36	5.04	4.13	3.46	2.95	0	
21	0.34	0.76	1.43	2.68	4.99	7.19	9.32	11.4	15.4	19.3	21.2	25.1	21.5	17.6	14.8	11.7	9.57	8.02	6.84	5.42	4.44	3.73	3.18	0	
22	0.35	0.80	1.50	2.82	5.24	7.56	9.80	12.0	16.2	20.4	22.4	26.3	23.1	18.8	15.8	12.5	10.2	8.60	7.34	5.82	4.76	4.00	3.41	0	
23	0.38	0.84	1.58	2.95	5.51	7.94	10.3	12.6	17.0	21.3	23.5	27.6	24.7	20.1	16.9	13.4	11.0	9.19	7.84	6.22	5.10	4.28	0		
24	0.39	0.89	1.66	3.08	5.77	8.30	10.8	13.2	17.8	22.4	24.5	29.0	26.3	21.5	18.0	14.3	11.7	9.79	8.35	6.64	5.42	4.55	0		
25	0.40	0.93	1.73	3.23	6.02	8.68	11.3	13.8	18.6	23.3	25.6	30.2	27.9	22.8	19.2	15.2	12.4	10.4	8.89	7.05	5.77	4.83	0		
26	0.43	0.97	1.81	3.37	6.29	9.05	11.7	14.3	19.4	24.4	26.8	31.5	29.6	24.3	20.2	16.1	13.2	11.0	9.43	7.47	6.13	5.14	0		
28	0.46	1.05	1.96	3.65	6.81	9.82	12.7	15.6	21.1	26.4	29.0	34.2	33.1	27.0	22.7	18.0	14.8	12.3	10.5	8.35	6.84	5.74	0		
30	0.50	1.13	2.11	3.93	7.34	10.6	13.7	16.8	22.7	28.4	31.2	36.7	36.7	30.0	25.1	19.8	16.4	13.7	11.7	9.27	7.59	0			
32	0.54	1.21	2.27	4.21	7.87	11.3	14.6	18.0	24.3	30.4	33.5	39.4	40.4	33.3	27.8	22.0	18.0	15.2	12.9	10.2	8.35	0			
35	0.59	1.33	2.49	4.64	8.66	12.5	16.2	19.7	26.8	33.5	36.9	43.4	46.3	38.1	31.6	25.1	20.7	17.2	14.8	11.7	9.56	0			
40	0.67	1.54	2.87	5.36	10.0	14.5	18.6	22.8	31.0	38.8	42.6	50.3	56.5	46.4	38.8	30.7	25.1	21.1	18.0	14.3	0				
45	0.76	1.74	3.27	6.09	11.4	16.4	21.2	25.9	35.1	44.0	48.4	57.0	65.6	55.1	46.1	36.6	30.0	25.1	21.5	0					

- Note: 1. Multiply the value given above by the multiple strand factor (page A-22, Table II) in order to obtain the transmission horsepower of multiple strand chain.
 2. For lubrication systems A, B & C, refer to page A-77 for explanation. Please consult U.S. Tsubaki for use of horsepower ratings to the right of the boundary line.
 3. Refer to page A-22, "Procedures for Selecting Roller Chain."

U.S. TSUBAKI RS ROLLER CHAIN

RS60 3/4" Pitch



U.S. TSUBAKI Chain No.	ANSI No.	Pitch P	Roller Diameter R	Width Between Roller Link Plates			Link Plate		Pin Diameter D
				W	T	H	h		
RS60	60	.750	.469	.500	.094	.713	.614	.234	

U.S. TSUBAKI Chain No.	Number of Strands	Pin				Transverse Pitch C	Standard Type of Pin	Minimum Ultimate Strength ANSI Standard lbs.	Average Tensile Strength lbs.	* Maximum Allowable Load lbs.	Approx. Weight lbs./ft.	Number of Links per 10 ft.
		L ₁ +L ₂	L ₁	L ₂	L							
RS60	1	1.087	.506	.581	1.110	.897	Riveted	7,030	9,920	1,980	1.03	160
RS60-2	2	1.988	.955	1.033	2.071		Riveted	14,060	19,840	3,360	2.04	
RS60-3	3	2.906	1.404	1.502	2.972		Riveted	21,090	29,760	4,950	3.05	
RS60-4	4	3.803	1.852	1.951	3.870		Riveted	28,120	39,680	6,530	4.06	
RS60-5	5	4.705	2.303	2.402	4.772		Riveted	35,150	49,600	7,720	5.07	
RS60-6	6	5.606	2.752	2.854	5.669		Riveted	42,180	59,520	9,100	6.08	

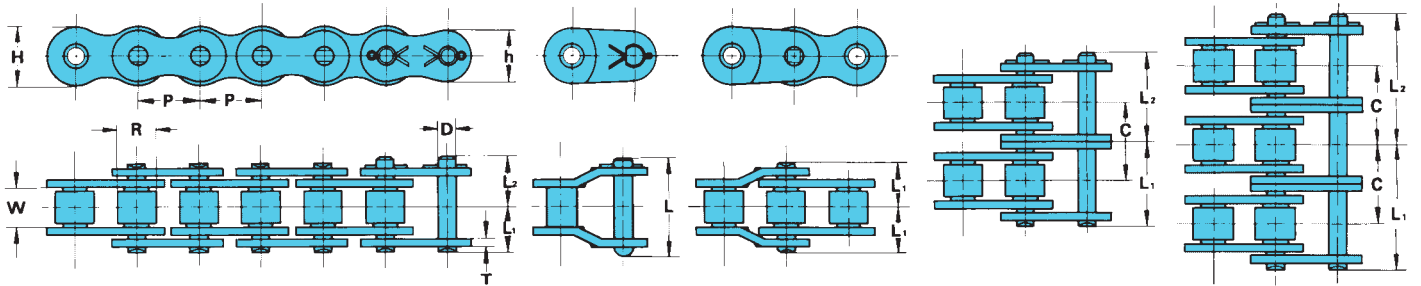
Note: * Refer to page A-23, "Selection for Slow Speed."

Maximum Horsepower Ratings

No. of Teeth Small Spkt.	Maximum Speed - Small Sprocket (rpm)																								
	10	25	50	100	150	200	300	400	500	600	700	800	900	1000	1100	1200	1400	1600	1800	2000	2500	3000	3500	4000	4500
	A										B					C									
11	0.30	0.67	1.26	2.35	3.39	4.39	6.32	8.19	10.0	11.8	13.5	15.3	17.0	15.6	13.5	11.9	9.41	7.70	6.45	5.51	3.94	3.00	2.39	1.94	1.64
12	0.32	0.74	1.38	2.59	3.71	4.81	6.95	9.00	11.0	13.0	14.9	16.8	18.6	17.8	15.6	13.5	10.7	8.77	7.35	6.29	4.49	3.42	2.71	2.23	1.86
13	0.35	0.80	1.52	2.82	4.06	5.26	7.58	9.80	12.0	14.1	16.2	18.2	20.4	20.1	17.4	15.2	12.1	9.90	8.30	7.08	5.07	3.85	3.06	2.51	0
14	0.39	0.87	1.64	3.06	4.40	5.70	8.21	10.6	13.0	15.3	17.6	19.8	22.0	22.4	19.4	17.0	13.5	11.1	9.27	7.91	5.66	4.32	3.42	2.80	0
15	0.42	0.94	1.76	3.29	4.73	6.13	8.84	11.5	13.9	16.5	18.9	21.3	23.7	24.8	21.6	18.8	15.0	12.3	10.3	8.77	6.29	4.77	3.80	3.10	0
16	0.44	1.01	1.89	3.53	5.08	6.57	9.47	12.3	15.0	17.7	20.2	22.9	25.5	27.4	23.7	20.9	16.5	13.5	11.3	9.67	6.92	5.26	4.17	3.42	0
17	0.47	1.09	2.01	3.77	5.42	7.03	10.1	13.1	16.0	18.9	21.7	24.4	27.2	29.9	26.0	22.9	18.1	14.8	12.4	10.6	7.58	5.77	4.57	3.74	0
18	0.51	1.15	2.15	4.00	5.77	7.47	10.8	13.9	17.0	20.1	23.1	26.0	29.0	31.8	28.3	24.9	19.7	16.1	13.5	11.5	8.26	6.29	4.99	4.08	0
19	0.54	1.22	2.28	4.24	6.12	7.91	11.4	14.8	18.1	21.3	24.4	27.6	30.7	33.7	30.7	27.1	21.5	17.6	14.6	12.5	8.96	6.81	5.40	4.43	0
20	0.56	1.29	2.40	4.48	6.46	8.37	12.1	15.6	19.0	22.5	25.9	29.1	32.5	35.7	33.1	29.2	23.1	18.9	15.8	13.5	9.67	7.35	5.83	0	0
21	0.59	1.35	2.53	4.73	6.81	8.82	12.7	16.5	20.1	23.7	27.2	30.7	34.2	37.5	35.7	31.5	24.8	20.2	17.0	14.5	10.4	7.91	6.29	0	0
22	0.63	1.42	2.67	4.98	7.16	9.28	13.4	17.3	21.2	24.9	28.7	32.3	35.9	39.4	38.2	33.8	26.6	21.9	18.2	15.6	11.1	8.49	6.73	0	0
23	0.66	1.50	2.79	5.22	7.51	9.74	14.1	18.1	22.3	26.1	30.0	33.9	37.7	41.4	40.9	36.1	28.4	23.3	19.4	16.8	11.9	9.08	7.19	0	0
24	0.68	1.57	2.92	5.46	7.87	10.2	14.6	19.0	23.2	27.4	31.5	35.5	39.4	43.3	43.6	38.2	30.3	24.8	20.8	17.8	12.7	9.67	7.67	0	0
25	0.72	1.64	3.06	5.71	8.22	10.6	15.3	19.8	24.3	28.6	32.9	37.1	41.2	45.3	46.4	40.6	32.2	26.4	22.1	18.9	13.5	10.3	8.15	0	0
26	0.75	1.72	3.19	5.95	8.58	11.1	16.0	20.8	25.3	29.9	34.3	38.8	43.0	47.3	49.2	43.2	34.2	28.0	23.5	20.0	14.3	10.9	8.55	0	0
28	0.82	1.85	3.46	6.45	9.29	12.0	17.3	22.4	27.5	32.3	37.1	42.0	46.7	51.2	55.0	48.3	38.2	31.4	26.1	22.4	16.0	12.2	0	0	0
30	0.87	2.00	3.73	6.95	10.0	13.0	18.6	24.1	29.6	34.9	40.1	45.2	50.2	55.3	60.2	53.5	42.4	34.7	29.1	24.8	17.8	13.5	0	0	0
32	0.94	2.15	4.00	7.46	10.7	13.9	20.0	25.9	31.8	37.4	42.9	48.4	53.8	59.1	64.5	58.9	46.7	38.2	32.1	27.4	19.6	14.9	0	0	0
35	1.03	2.36	4.40	8.21	11.8	15.3	22.1	28.6	35.0	41.2	47.3	53.4	59.3	65.2	71.1	67.5	53.4	43.7	36.6	31.4	22.4	17.0	0	0	0
40	1.19	2.72	5.08	9.48	13.7	17.7	25.5	33.0	40.4	47.6	54.6	61.6	68.5	75.4	82.1	82.3	65.7	53.5	44.8	38.2	27.4	0	0	0	0
45	1.35	3.10	5.77	10.8	15.6	20.1	29.0	37.5	45.9	54.0	62.1	70.0	77.8	85.6	93.2	98.3	78.4	63.7	53.4	45.6	32.6	0	0	0	0

- Note: 1. Multiply the value given above by the multiple strand factor (page A-22, Table II) in order to obtain the transmission horsepower of multiple strand chain.
 2. For lubrication systems A, B & C, refer to page A-77 for explanation. Please consult U.S. Tsubaki for use of horsepower ratings to the right of the boundary line.
 3. Refer to page A-22, "Procedures for Selecting Roller Chain."

RS80 1" Pitch



U.S. TSUBAKI Chain No.	ANSI No.	Pitch P	Roller Diameter R	Width Between Roller Link Plates W	Link Plate			Pin Diameter D
					T	H	h	
RS80	80	1.000	.625	.625	.125	.949	.819	.312

U.S. TSUBAKI Chain No.	Number of Strands	Pin				Transverse Pitch C	Standard Type of Pin	Minimum Ultimate Strength ANSI Standard lbs.	Average Tensile Strength lbs.	* Maximum Allowable Load lbs.	Approx. Weight lbs./ft.	Number of Links per 10 ft.
		L ₁ +L ₂	L ₁	L ₂	L							
RS80	1	1.398	.640	.758	1.417	1.153	Riveted	12,500	17,640	3,300	1.79	120
RS80-2	2	2.552	1.217	1.335	2.657		Riveted	25,000	35,280	5,610	3.54	
RS80-3	3	3.704	1.795	1.909	3.815		Riveted	37,500	52,920	8,250	5.30	
RS80-4	4	4.862	2.372	2.490	4.972		Riveted	50,000	70,560	10,890	7.06	
RS80-5	5	6.020	2.951	3.069	6.126		Riveted	62,500	88,200	12,870	8.81	
RS80-6	6	7.170	3.528	3.642	7.280		Riveted	75,000	105,840	15,180	10.57	

Note: * Refer to page A-23, "Selection for Slow Speed."

Maximum Horsepower Ratings

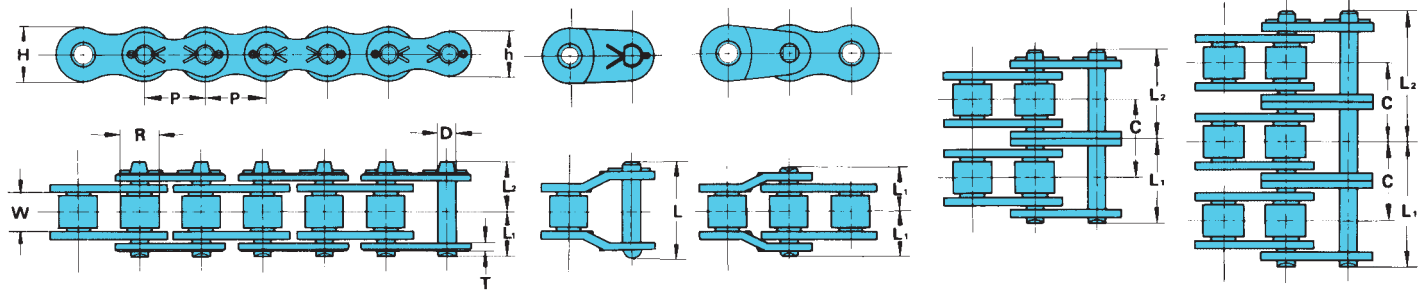
No. of Teeth Small Spkt.	Maximum Speed – Small Sprocket (rpm)																								
	10	25	50	100	150	200	300	400	500	600	700	800	900	1000	1100	1200	1400	1600	1800	2000	2200	2400	2700	3000	3400
	A											B						C							
11	0.66	1.52	2.82	5.27	7.58	9.83	14.2	18.4	22.4	26.4	30.3	27.5	23.1	19.6	17.0	14.9	11.8	9.70	8.13	6.93	6.01	5.27	4.43	3.77	1.70
12	0.72	1.66	3.10	5.78	8.33	10.8	15.6	20.1	24.7	29.0	33.4	31.2	26.1	22.3	19.4	17.0	13.5	11.0	9.25	7.90	6.85	6.01	5.04	4.30	0
13	0.79	1.81	3.38	6.30	9.08	11.8	16.9	22.0	26.8	31.6	36.3	35.3	29.8	25.2	21.9	19.2	15.2	12.5	10.4	8.92	7.72	6.79	5.69	4.85	0
14	0.86	1.96	3.66	6.83	9.84	12.8	18.4	23.7	29.1	34.2	39.4	39.4	33.3	28.2	24.4	21.5	17.0	13.9	11.7	9.96	8.64	7.58	6.36	5.42	0
15	0.93	2.12	3.94	7.36	10.6	13.7	19.8	25.6	31.4	36.9	42.4	43.7	36.9	31.2	27.1	23.9	18.9	15.4	12.9	11.0	9.57	8.41	7.04	6.01	0
16	0.99	2.27	4.22	7.89	11.4	14.8	21.2	27.5	33.5	39.6	45.5	48.1	40.6	34.5	29.8	26.1	20.8	17.0	14.2	12.2	10.5	9.25	7.76	6.62	0
17	1.06	2.41	4.52	8.42	12.1	15.7	22.7	29.4	35.8	42.2	48.5	52.7	44.3	37.7	32.7	28.7	22.7	18.6	15.6	13.3	11.5	10.1	8.49	7.25	0
18	1.13	2.57	4.80	8.96	12.9	16.8	24.1	31.2	38.1	44.9	51.6	57.5	48.1	41.2	35.7	31.2	24.8	20.2	17.0	14.5	12.6	11.0	9.25	7.90	0
19	1.19	2.72	5.10	9.49	13.7	17.7	25.5	33.1	40.5	47.6	54.7	61.7	52.3	44.5	38.6	33.9	27.0	22.0	18.4	15.7	13.5	12.0	10.0	8.57	0
20	1.26	2.88	5.38	10.0	14.5	18.8	27.0	35.0	42.8	50.4	57.8	65.3	56.5	48.1	41.7	36.6	29.0	23.9	19.8	17.0	14.8	12.9	10.8	0	0
21	1.33	3.04	5.67	10.6	15.3	19.7	28.4	36.9	45.1	53.1	61.0	68.8	60.7	51.8	44.8	39.4	31.2	25.6	21.5	18.4	16.0	13.9	11.7	0	0
22	1.39	3.19	5.97	11.1	16.1	20.8	29.9	38.8	47.3	55.8	64.1	72.3	65.0	55.5	48.1	42.2	33.5	27.4	23.1	19.6	17.0	14.9	12.5	0	0
23	1.48	3.35	6.26	11.7	16.8	21.7	31.4	40.6	49.8	58.6	67.3	75.9	69.6	59.3	51.4	45.1	35.8	29.4	24.7	21.1	18.2	16.0	13.4	0	0
24	1.54	3.51	6.56	12.2	17.6	22.8	32.9	42.5	52.0	61.3	70.4	79.4	74.2	63.7	54.8	48.1	38.2	31.2	26.1	22.3	19.4	17.0	14.2	0	0
25	1.61	3.67	6.85	12.8	18.4	23.9	34.3	44.5	54.4	64.1	73.6	83.0	78.9	67.7	57.9	51.1	40.6	33.3	27.8	23.9	20.7	18.1	15.2	0	0
26	1.68	3.82	7.15	13.3	19.2	24.8	35.8	46.4	56.7	66.9	76.8	86.6	83.7	71.7	61.8	54.2	43.0	35.3	29.5	25.2	21.9	19.2	16.1	0	0
28	1.82	4.14	7.74	14.5	20.8	27.0	38.8	50.3	61.4	72.4	83.3	93.9	93.5	80.2	69.1	60.6	48.1	39.4	33.0	28.2	24.4	21.5	0	0	0
30	1.96	4.47	8.34	15.6	22.4	29.0	41.8	54.2	66.2	78.0	89.7	101	104	88.9	76.7	67.2	53.4	43.6	36.6	31.2	27.1	23.9	0	0	0
32	2.11	4.79	8.94	16.6	24.0	31.1	44.8	58.1	71.1	83.7	96.2	108	114	97.5	84.4	74.0	58.7	48.1	40.4	34.5	29.8	26.1	0	0	0
35	2.32	5.28	9.84	18.4	26.4	34.3	49.3	64.0	78.2	92.1	106	119	131	112	96.6	84.8	67.2	55.0	46.1	39.4	34.1	0	0	0	0
40	2.67	6.10	11.4	21.2	30.6	39.6	57.0	73.9	90.4	106	122	138	153	137	117	103	82.2	67.2	56.3	48.1	20.0	0	0	0	0
45	3.03	6.92	12.9	24.1	34.7	44.9	64.8	83.9	103	121	139	157	174	162	142	123	98.0	80.2	67.2	54.2	0	0	0	0	0

- Note: 1. Multiply the value given above by the multiple strand factor (page A-22, Table II) in order to obtain the transmission horsepower of multiple strand chain.
 2. For lubrication systems A, B & C, refer to page A-77 for explanation. Please consult U.S. Tsubaki for use of horsepower ratings to the right of the boundary line.
 3. Refer to page A-22, "Procedures for Selecting Roller Chain."

U.S. TSUBAKI RS ROLLER CHAIN

RS100 1 1/4" Pitch

A - DRIVE CHAINS



U.S. TSUBAKI Chain No.	ANSI No.	Pitch P	Roller Diameter R	Link Plate			Pin Diameter D	
				Width Between Roller Link Plates W	T	H		h
RS100	100	1.250	.750	.750	.156	1.185	1.024	.375

U.S. TSUBAKI Chain No.	Number of Strands	Pin				Transverse Pitch C	Standard Type of Pin	Minimum Ultimate Strength ANSI Standard lbs.	Average Tensile Strength lbs.	* Maximum Allowable Load lbs.	Approx. Weight lbs./ft.	Number of Links per 10 ft.
		L ₁ +L ₂	L ₁	L ₂	L							
RS100	1	1.678	.778	.900	1.748	1.408	Cottered	19,530	26,460	5,070	2.68	96
RS100-2	2	3.090	1.484	1.606	3.209		Cottered	39,060	52,920	8,610	5.27	
RS100-3	3	4.504	2.191	2.313	4.618		Cottered	58,590	79,380	12,670	7.91	
RS100-4	4	5.914	2.896	3.018	6.028		Riveted	78,120	105,840	16,730	10.55	
RS100-5	5	7.326	3.602	3.724	7.437		Riveted	97,650	132,300	19,770	13.12	
RS100-6	6	8.740	4.309	4.431	8.846		Riveted	117,180	158,760	23,320	15.78	

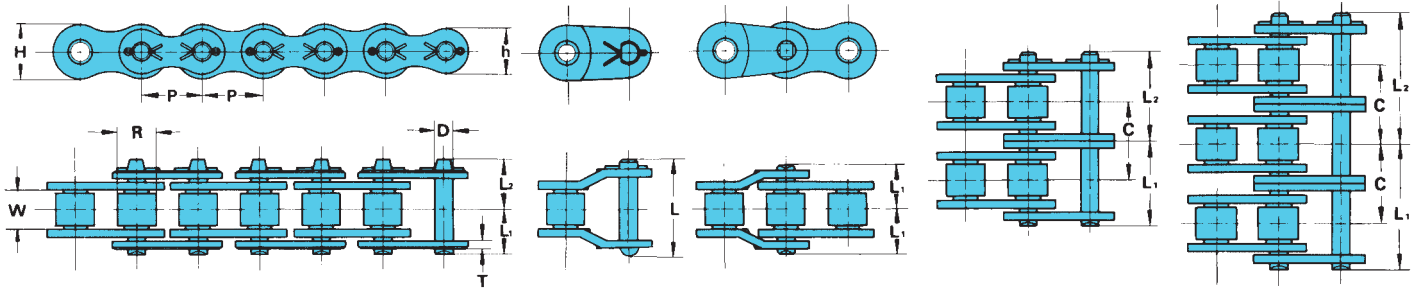
Note: * Refer to page A-23, "Selection for Slow Speed."

Maximum Horsepower Ratings

No. of Teeth Small Spkt.	Maximum Speed - Small Sprocket (rpm)																								
	10	25	50	100	150	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1600	1800	2000	2200	2400	2600	2700
	A										B					C									
11	1.10	2.52	4.71	8.77	12.6	16.4	23.6	30.6	37.4	44.0	40.1	32.9	27.5	23.5	20.2	17.8	15.8	14.2	11.6	9.71	8.30	7.19	6.32	1.29	0
12	1.21	2.76	5.16	9.64	13.9	18.0	25.9	33.5	41.0	48.4	45.7	37.3	31.4	26.7	23.2	20.2	18.0	16.1	13.2	11.1	9.45	8.19	7.19	0	0
13	1.33	3.02	5.63	10.5	15.2	19.6	28.3	36.6	44.8	52.7	51.5	42.1	35.3	30.2	26.1	22.9	20.2	18.2	14.9	12.5	10.6	9.24	8.10	0	0
14	1.43	3.27	6.10	11.4	16.4	21.2	30.6	39.7	48.4	57.1	57.5	47.1	39.4	33.7	29.2	25.6	22.7	20.2	16.6	13.5	11.9	10.3	9.05	0	0
15	1.54	3.53	6.57	12.3	17.7	22.9	33.0	42.8	52.2	61.6	63.8	52.2	43.7	37.3	32.5	28.4	25.2	22.5	18.4	15.6	13.2	11.4	10.0	0	0
16	1.65	3.78	7.05	13.2	18.9	24.5	35.4	45.7	55.9	66.0	70.4	57.5	48.3	41.2	35.7	31.4	27.8	24.8	20.2	17.0	14.5	12.6	11.1	0	0
17	1.77	4.04	7.52	14.1	20.2	26.1	37.7	48.9	59.8	70.4	77.1	63.0	52.8	45.1	39.0	34.3	30.4	27.2	22.3	18.8	16.0	13.8	0.79	0	0
18	1.88	4.29	8.01	14.9	21.5	27.9	40.1	52.0	63.6	75.0	83.9	68.7	57.5	49.1	42.5	37.3	33.1	29.6	24.3	20.2	17.4	15.0	0	0	0
19	2.00	4.55	8.49	15.8	22.8	29.5	42.5	55.1	67.5	79.4	91.1	74.6	62.4	53.2	46.1	40.5	35.9	32.1	26.3	22.0	18.8	16.4	0	0	0
20	2.11	4.80	8.97	16.8	24.1	31.2	44.9	58.3	71.2	83.9	96.4	80.5	67.3	57.5	49.9	43.7	38.8	34.7	28.4	23.9	20.2	17.6	0	0	0
21	2.23	5.07	9.45	17.7	25.3	32.9	47.5	61.4	75.1	88.5	102	86.6	72.4	61.8	53.6	47.1	41.7	37.3	30.6	25.6	21.9	19.0	0	0	0
22	2.33	5.32	9.94	18.5	26.7	34.6	49.9	64.6	79.0	93.1	107	92.8	77.8	66.4	57.5	50.4	44.8	40.0	32.9	27.5	23.5	20.2	0	0	0
23	2.45	5.59	10.4	19.4	28.0	36.3	52.3	67.7	82.9	97.6	112	99.2	83.0	70.9	61.4	53.9	47.9	42.8	35.0	29.4	25.1	21.7	0	0	0
24	2.56	5.85	10.9	20.4	29.4	38.1	54.7	70.9	86.8	102	117	106	88.5	75.6	65.6	57.5	51.1	45.6	37.3	31.4	26.7	0	0	0	0
25	2.68	6.12	11.4	21.3	30.7	39.7	57.3	74.2	90.7	107	123	113	94.1	80.3	69.6	61.2	54.2	48.5	39.7	33.3	28.4	0	0	0	0
26	2.80	6.38	11.9	22.3	32.1	41.4	59.7	77.4	94.5	111	128	119	99.9	85.3	73.9	64.8	57.5	51.4	42.1	35.3	30.2	0	0	0	0
28	3.03	6.91	12.9	24.0	34.7	44.9	64.6	83.8	102	121	138	133	112	95.2	82.6	72.4	64.2	57.5	47.1	39.4	33.7	0	0	0	0
30	3.26	7.44	13.9	25.9	37.4	48.4	69.7	90.3	110	130	149	148	124	106	91.6	80.3	71.2	63.7	52.2	43.7	10.0	0	0	0	0
32	3.50	7.98	14.9	27.8	40.1	51.9	74.7	96.8	118	139	160	162	135	116	101	88.5	78.6	70.3	57.5	45.2	0	0	0	0	0
35	3.86	8.80	16.4	30.6	44.1	57.1	82.3	107	130	154	177	186	156	133	115	101	89.8	80.3	65.8	55.1	0	0	0	0	0
40	4.45	10.2	18.9	35.4	51.0	66.0	95.1	123	150	177	204	228	190	164	141	124	110	98.2	80.3	0	0	0	0	0	0
45	5.06	11.5	21.6	40.2	57.9	75.0	108	139	172	201	232	261	228	194	168	148	131	117	45.3	0	0	0	0	0	0

- Note: 1. Multiply the value given above by the multiple strand factor (page A-22, Table II) in order to obtain the transmission horsepower of multiple strand chain.
 2. For lubrication systems A, B & C, refer to page A-77 for explanation. Please consult U.S. Tsubaki for use of horsepower ratings to the right of the boundary line.
 3. Refer to page A-22, "Procedures for Selecting Roller Chain."

RS120 1 1/2" Pitch



U.S. TSUBAKI Chain No.	ANSI No.	Pitch P	Roller Diameter R	Width Between Roller Link Plates W	Link Plate			Pin Diameter D
					T	H	h	
RS120	120	1.500	.875	1.000	.187	1.425	1.228	.437

U.S. TSUBAKI Chain No.	Number of Strands	Pin				Transverse Pitch C	Standard Type of Pin	Minimum Ultimate Strength ANSI Standard lbs.	Average Tensile Strength lbs.	* Maximum Allowable Load lbs.	Approx. Weight lbs./ft.	Number of Links per 10 ft.
		L ₁ +L ₂	L ₁	L ₂	L							
RS120	1	2.118	.980	1.138	2.197	1.789	Cottered	28,125	37,480	6,830	3.98	80
RS120-2	2	3.905	1.874	2.031	4.063		Cottered	56,250	71,880	11,560	7.86	
RS120-3	3	5.701	2.772	2.929	5.850		Cottered	84,375	107,820	17,070	11.78	
RS120-4	4	7.488	3.665	3.823	7.638		Riveted	112,500	143,760	22,530	15.70	
RS120-5	5	9.280	4.561	4.719	9.425		Riveted	140,625	179,700	26,630	19.59	
RS120-6	6	11.067	5.455	5.612	11.213		Riveted	168,750	215,640	31,410	23.49	

Note: * Refer to page A-23, "Selection for Slow Speed."

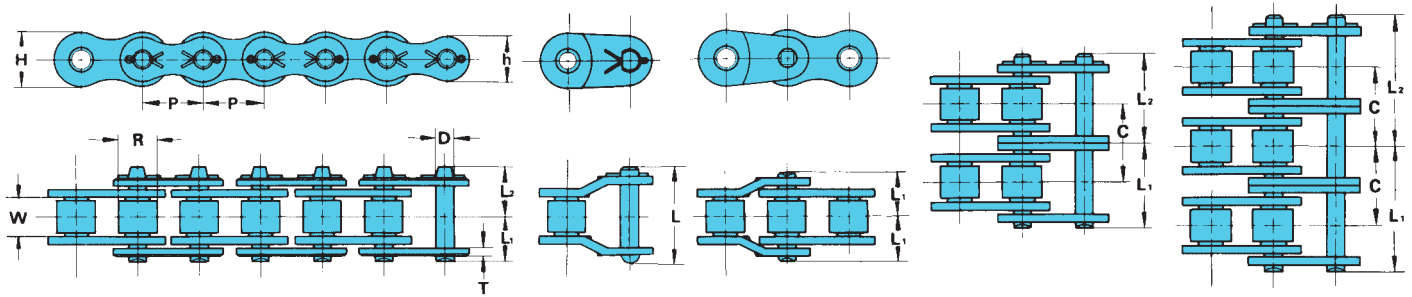
Maximum Horsepower Ratings

No. of Teeth Small Spkt.	Maximum Speed – Small Sprocket (rpm)																								
	10	25	50	100	150	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100
	A											B					C								
11	2.02	4.61	8.61	16.1	23.2	30.0	43.2	55.9	68.4	58.5	46.3	38.0	31.8	27.1	23.5	20.7	18.4	16.4	14.8	13.4	12.2	11.2	10.4	9.6	0
12	2.23	5.07	9.47	17.7	25.5	33.0	47.5	61.6	75.2	66.6	52.8	43.2	36.2	31.0	26.8	23.5	20.9	18.8	16.8	15.3	13.9	12.8	11.8	10.9	0
13	2.43	5.53	10.3	19.3	27.8	35.9	51.8	67.1	81.9	75.1	59.5	48.7	40.8	34.9	30.2	26.6	23.5	21.1	19.0	17.2	15.7	14.3	13.3	12.3	0
14	2.63	5.99	11.2	20.9	30.0	38.9	56.1	72.7	86.8	83.9	66.5	54.4	45.6	39.0	33.8	29.6	26.3	23.5	21.2	19.2	17.6	16.1	14.9	8.94	0
15	2.83	6.45	12.0	22.5	32.3	42.0	60.3	78.3	95.6	93.1	73.9	60.5	50.7	43.2	37.4	32.9	29.1	26.1	23.5	21.3	19.4	18.0	16.5	0	0
16	3.03	6.92	12.9	24.1	34.7	44.9	64.8	83.9	103	103	81.4	66.5	55.8	47.6	41.3	36.2	32.1	28.7	25.9	23.5	21.5	19.7	18.2	0	0
17	3.23	7.39	13.8	25.7	37.0	48.0	69.2	89.6	110	112	89.0	72.8	61.0	52.2	45.2	39.6	35.3	31.5	28.4	25.7	23.5	21.6	19.8	0	0
18	3.45	7.86	14.6	27.4	39.4	51.1	73.5	95.2	117	122	97.1	79.4	66.5	56.9	49.2	43.2	38.4	34.3	31.0	28.2	25.6	23.5	11.3	0	0
19	3.65	8.33	15.6	29.0	41.8	54.2	77.9	101	124	133	105	86.1	72.1	61.7	53.4	46.8	41.6	37.3	33.5	30.4	27.8	25.5	0	0	0
20	3.86	8.81	16.5	30.7	44.1	57.3	82.5	107	130	143	114	92.9	77.9	66.5	57.7	50.7	44.9	40.1	36.2	32.9	30.0	27.5	0	0	0
21	4.06	9.28	17.3	32.3	46.5	60.3	86.9	113	138	154	122	100	83.8	71.6	62.1	54.4	48.3	43.2	39.0	35.4	32.3	29.6	0	0	0
22	4.28	9.76	18.2	33.9	48.9	63.4	91.3	118	145	165	131	107	90.0	76.7	66.5	58.5	51.8	46.3	41.8	38.0	34.6	16.6	0	0	0
23	4.49	10.2	19.0	35.7	51.4	66.5	95.9	124	152	177	139	115	96.2	82.1	71.1	62.5	55.4	49.5	44.7	40.5	37.0	0	0	0	0
24	4.69	10.7	20.0	37.3	53.8	69.6	100	130	158	188	146	122	102	87.4	75.9	66.5	59.0	52.8	47.6	43.2	39.4	0	0	0	0
25	4.91	11.2	20.9	39.0	56.2	72.8	105	135	166	196	160	130	109	92.9	80.6	70.7	62.8	56.2	50.7	45.9	41.3	0	0	0	0
26	5.12	11.7	21.9	40.8	58.6	75.9	109	142	173	204	169	138	115	98.7	85.4	75.1	66.5	59.5	53.8	48.7	26.6	0	0	0	0
28	5.55	12.7	23.6	44.1	63.6	82.3	119	153	188	221	189	154	129	110	95.6	83.8	74.3	66.5	60.1	54.4	0	0	0	0	0
30	5.98	13.7	25.5	47.5	68.4	88.6	128	165	202	239	209	172	143	122	106	92.9	82.5	73.9	66.5	42.4	0	0	0	0	0
32	6.41	14.6	27.4	51.0	73.4	95.1	137	177	217	256	231	188	158	135	117	102	90.8	81.4	73.4	0	0	0	0	0	0
35	7.07	16.1	30.0	56.1	80.9	105	150	196	239	282	263	215	180	154	133	117	104	92.9	47.7	0	0	0	0	0	0
40	8.15	18.6	34.7	64.8	93.3	121	174	225	276	325	322	263	220	188	164	143	127	59.5	0	0	0	0	0	0	0
45	9.27	21.2	39.4	73.6	106	137	198	256	314	369	384	314	263	224	194	172	80.1	0	0	0	0	0	0	0	0

- Note: 1. Multiply the value given above by the multiple strand factor (page A-22, Table II) in order to obtain the transmission horsepower of multiple strand chain.
 2. For lubrication systems A, B & C, refer to page A-77 for explanation. Please consult U.S. Tsubaki for use of horsepower ratings to the right of the boundary line.
 3. Refer to page A-22, "Procedures for Selecting Roller Chain."

U.S. TSUBAKI RS ROLLER CHAIN

RS140 1 3/4" Pitch



U.S. TSUBAKI Chain No.	ANSI No.	Pitch P	Roller Diameter R	Link Plate				Pin Diameter D
				Width Between Roller Link Plates W	T	H	h	
RS140	140	1.750	1.000	1.000	.219	1.661	1.433	.500

U.S. TSUBAKI Chain No.	Number of Strands	Pin				Transverse Pitch C	Standard Type of Pin	Minimum Ultimate Strength ANSI Standard lbs.	Average Tensile Strength lbs.	*Maximum Allowable Load lbs.	Approx. Weight lbs./ft.	Number of Links per 10 ft.
		L1+L2	L1	L2	L							
RS140	1	2.307	1.059	1.248	2.382	1.924	Cottered	38,280	48,510	9,040	5.03	68
RS140-2	2	4.233	2.022	2.211	4.421		Cottered	76,560	94,370	15,360	9.97	
RS140-3	3	6.165	2.986	3.179	6.350		Cottered	114,840	141,550	22,600	14.92	
RS140-4	4	8.091	3.949	4.142	8.276		Riveted	153,120	188,740	29,830	19.16	
RS140-5	5	10.015	4.913	5.102	10.201		Riveted	191,400	235,920	35,250	24.84	
RS140-6	6	11.949	5.878	6.071	12.126		Riveted	229,680	283,110	41,580	29.77	

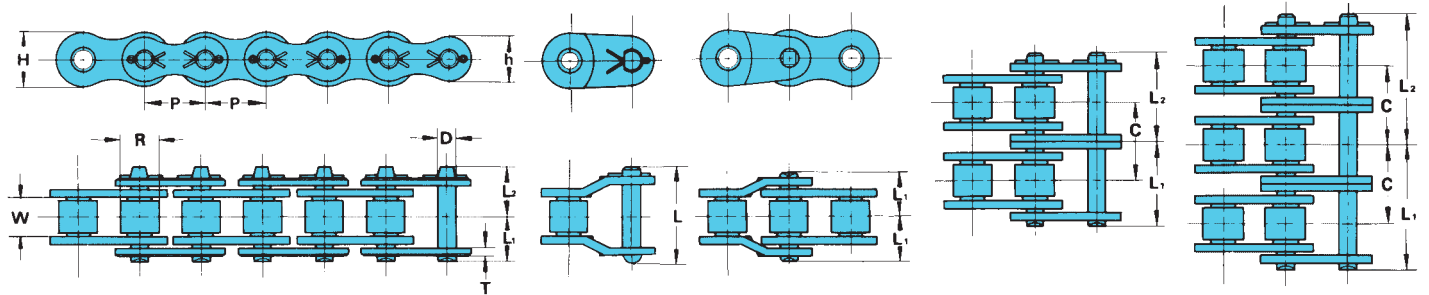
Note: * Refer to page A-23, "Selection for Slow Speed."

Maximum Horsepower Ratings

No. of Teeth Small Spkt.	Maximum Speed - Small Sprocket (rpm)																								
	10	25	50	100	150	200	250	300	350	400	450	500	550	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700
	A										B					C									
11	3.16	7.23	13.5	25.2	36.2	46.9	57.4	67.7	77.8	87.7	97.5	87.0	75.2	66.0	52.4	42.9	35.9	30.7	26.6	23.3	20.7	18.5	16.8	15.2	0
12	3.49	7.94	14.9	27.6	39.8	51.6	63.2	74.3	85.4	96.3	107	99.1	86.4	75.2	59.7	48.9	41.0	35.0	30.3	26.6	23.6	21.1	19.0	17.3	0
13	3.80	8.66	16.2	30.2	43.4	56.3	68.8	81.1	93.2	105	117	112	97.4	84.9	67.3	55.3	46.3	39.4	34.2	30.0	26.6	23.9	21.5	19.4	0
14	4.12	9.39	17.6	32.7	47.1	61.0	74.6	87.8	101	114	126	125	109	94.8	75.2	61.7	51.6	44.1	38.2	33.5	29.8	26.6	24.0	21.9	0
15	4.43	10.1	18.9	35.3	50.7	65.7	80.3	94.7	109	123	137	138	120	105	83.4	68.4	57.3	48.9	42.4	37.3	33.0	29.5	26.6	0	
16	4.75	10.8	20.2	37.7	54.3	70.4	86.1	102	117	131	146	153	132	116	92.0	75.2	63.2	53.8	46.7	41.0	36.3	32.5	29.4	0	
17	5.07	11.6	21.6	40.4	58.1	75.2	91.9	108	124	141	156	168	145	127	101	82.5	69.2	59.0	51.1	44.9	39.8	35.7	32.1	0	
18	5.39	12.3	22.9	42.9	61.7	79.9	97.8	115	132	149	166	182	158	138	110	89.8	75.2	64.2	55.8	48.9	43.3	38.8	35.0	0	
19	5.73	13.0	24.4	45.5	65.4	84.8	104	122	141	158	176	193	172	150	119	97.5	81.7	69.7	60.5	53.0	47.1	42.1	38.0	0	
20	6.05	13.8	25.7	48.0	69.2	89.6	110	129	149	168	186	204	185	161	128	105	88.1	75.2	65.2	57.3	50.8	45.5	0		
21	6.37	14.5	27.1	50.7	73.0	94.5	115	135	157	176	196	216	198	176	138	113	94.8	81.0	70.3	61.7	54.6	48.9	0		
22	6.71	15.3	28.6	53.2	76.7	99.4	121	143	165	185	207	227	213	188	148	121	102	86.9	75.2	66.0	58.6	52.4	0		
23	7.03	16.1	29.9	55.9	80.5	104	127	150	173	194	216	237	228	201	158	130	109	92.8	80.5	70.7	62.6	56.1	0		
24	7.36	16.8	31.4	58.5	84.2	109	133	157	181	204	227	249	243	215	169	138	116	99.0	85.7	75.2	66.8	59.7	0		
25	7.70	17.6	32.7	61.2	88.0	114	139	165	189	213	236	260	259	228	180	148	123	105	91.2	80.1	70.9	63.6	0		
26	8.03	18.4	34.2	63.7	91.9	119	145	172	197	223	247	271	274	241	190	156	131	112	96.7	84.9	75.2	0			
28	8.69	19.8	37.0	69.1	99.5	129	158	185	213	240	267	294	306	268	213	174	146	125	108	94.8	84.1	0			
30	9.37	21.3	39.8	74.4	107	139	170	200	229	259	288	316	339	298	236	193	162	138	120	105	93.2	0			
32	10.0	22.9	42.8	79.8	115	149	182	215	247	278	308	339	370	329	260	213	178	152	132	116	0				
35	11.1	25.2	47.1	87.8	127	164	201	236	271	306	341	374	408	375	298	243	204	174	152	130	0				
40	12.8	29.1	54.4	102	146	189	232	274	314	354	393	432	471	459	363	298	249	213	178	0					
45	14.5	33.1	61.8	115	166	215	263	310	357	401	447	491	535	547	434	355	298	237	92.8	0					

- Note: 1. Multiply the value given above by the multiple strand factor (page A-22, Table II) in order to obtain the transmission horsepower of multiple strand chain.
 2. For lubrication systems A, B & C, refer to page A-77 for explanation. Please consult U.S. Tsubaki for use of horsepower ratings to the right of the boundary line.
 3. Refer to page A-22, "Procedures for Selecting Roller Chain."

RS160 2" Pitch



U.S. TSUBAKI Chain No.	ANSI No.	Pitch P	Roller Diameter R	Width Between Roller Link Plates W	Link Plate			Pin Diameter D
					T	H	h	
RS160	160	2.000	1.125	1.250	.250	1.898	1.638	.562

U.S. TSUBAKI Chain No.	Number of Strands	Pin				Transverse Pitch C	Standard Type of Pin	Minimum Ultimate Strength ANSI Standard lbs.	Average Tensile Strength lbs.	* Maximum Allowable Load lbs.	Approx. Weight lbs./ft.	Number of Links per 10 ft.
		L1+L2	L1	L2	L							
RS160	1	2.705	1.254	1.451	2.795	2.305	Cottered	50,000	60,630	11,900	6.79	60
RS160-2	2	5.011	2.407	2.604	5.205		Cottered	100,000	121,260	20,230	13.47	
RS160-3	3	7.319	3.561	3.758	7.508		Cottered	150,000	181,890	29,750	20.17	
RS160-4	4	9.622	4.715	4.907	9.811		Riveted	200,000	242,520	39,270	26.92	
RS160-5	5	11.929	5.868	6.061	12.114		Riveted	250,000	303,150	46,410	33.53	
RS160-6	6	14.237	7.020	7.217	14.417		Riveted	300,000	363,780	54,740	40.27	

Note: * Refer to page A-23, "Selection for Slow Speed."

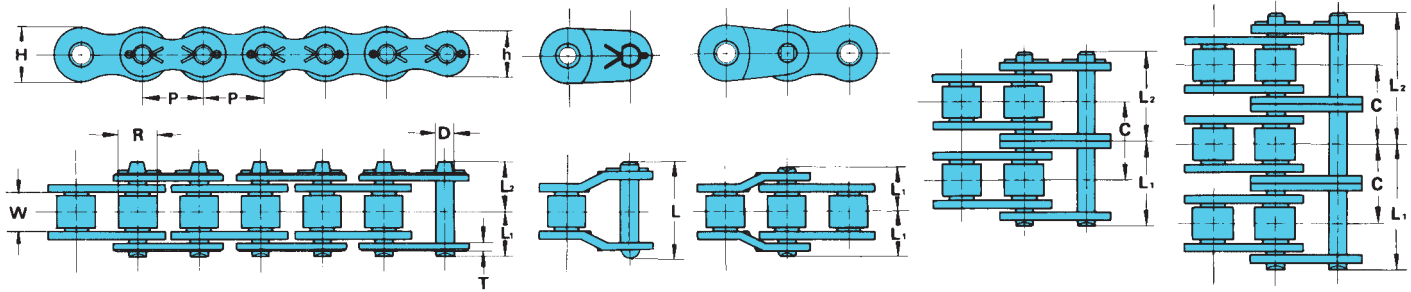
Maximum Horsepower Ratings

No. of Teeth Small Spkt.	Maximum Speed – Small Sprocket (rpm)																								
	10	25	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	1000	1100	1200	1300	1400
	A												B						C						
11	4.77	10.9	20.2	38.0	54.6	70.7	86.5	102	117	132	113	96.7	83.7	73.5	65.2	58.3	52.6	47.7	43.6	40.0	34.1	29.6	26.0	23.1	0
12	5.24	12.0	22.3	41.7	59.9	77.6	94.9	112	129	145	129	110	95.5	83.7	74.3	66.4	59.9	54.4	49.6	45.6	38.9	33.7	29.6	26.3	0
13	5.71	13.0	24.3	45.5	65.4	84.8	104	122	141	158	146	124	108	94.4	83.7	75.0	67.6	61.3	56.1	51.4	44.0	38.1	33.4	29.6	0
14	6.20	14.1	26.4	49.2	70.8	91.7	112	132	152	172	162	139	120	105	93.6	83.7	75.5	68.5	62.6	57.4	49.1	42.5	37.3	33.1	0
15	6.66	15.2	28.4	53.0	76.3	98.8	121	142	164	185	181	156	133	117	104	92.8	83.7	76.0	69.5	63.7	54.4	47.1	41.4	0	
16	7.15	16.4	30.4	56.9	81.8	106	130	153	176	198	198	170	148	129	114	102	92.3	83.7	76.4	70.3	59.9	51.9	45.6	0	
17	7.63	17.4	32.5	60.6	87.4	113	138	164	188	212	217	186	161	141	125	112	101	91.7	83.7	76.8	65.6	57.0	49.9	0	
18	8.13	18.5	34.6	64.5	92.9	120	148	173	200	225	237	202	176	154	135	122	110	99.9	91.2	83.7	71.5	62.1	54.4	0	
19	8.61	19.6	36.6	68.4	98.6	128	156	184	212	239	257	220	190	168	148	132	119	108	99.0	90.8	77.5	67.2	59.0	0	
20	9.11	20.8	38.8	72.3	104	135	165	194	223	252	278	237	205	180	160	143	129	117	107	98.2	83.7	72.7	63.7	0	
21	9.59	21.9	40.9	76.2	110	142	174	205	235	266	295	255	221	194	172	154	139	126	115	105	90.1	78.2	68.5	0	
22	10.1	23.1	42.9	80.2	115	150	182	216	248	279	310	274	237	208	184	165	149	135	123	113	96.7	83.7	0		
23	10.6	24.1	45.1	84.1	121	157	192	227	260	292	326	292	255	223	197	176	159	143	132	121	103	89.6	0		
24	11.1	25.3	47.2	88.0	127	164	201	236	272	307	341	312	272	237	211	188	169	154	139	129	110	95.5	0		
25	11.6	26.4	49.3	92.0	132	172	209	247	284	321	357	331	288	252	223	200	180	164	149	137	117	101	0		
26	12.1	27.6	51.5	96.0	138	180	219	257	296	334	371	351	306	267	237	212	192	173	158	145	124	108	0		
28	13.1	29.9	55.8	104	150	194	237	279	321	362	402	393	342	298	266	237	215	194	177	162	139	120	0		
30	14.1	32.2	60.1	112	161	209	256	302	346	390	433	436	380	331	294	263	237	215	196	180	154	0			
32	15.2	34.5	64.4	120	173	224	274	323	371	418	465	480	416	365	323	290	261	237	216	198	169	0			
35	16.6	38.0	70.9	132	190	247	302	355	409	461	512	550	476	417	370	331	298	271	247	227	180	0			
40	19.2	43.9	81.9	153	220	286	349	410	472	532	591	650	582	514	452	404	365	331	302	257	0				
45	21.9	49.9	93.1	173	249	325	396	467	536	605	672	739	695	613	539	483	418	349	271	189	0				

- Note: 1. Multiply the value given above by the multiple strand factor (page A-22, Table II) in order to obtain the transmission horsepower of multiple strand chain.
 2. For lubrication systems A, B & C, refer to page A-77 for explanation. Please consult U.S. Tsubaki for use of horsepower ratings to the right of the boundary line.
 3. Refer to page A-22, "Procedures for Selecting Roller Chain."

U.S. TSUBAKI RS ROLLER CHAIN

RS180 2 1/4" Pitch



U.S. TSUBAKI Chain No.	ANSI No.	Pitch P	Roller Diameter R	Link Plate				Pin Diameter D
				Width Between Roller Link Plates W	T	H	h	
RS180	180	2.250	1.406	1.406	.281	2.134	1.843	.687

U.S. TSUBAKI Chain No.	Number of Strands	Pin				Transverse Pitch C	Standard Type of Pin	Minimum Ultimate Strength ANSI Standard lbs.	Average Tensile Strength lbs.	* Maximum Allowable Load lbs.	Approx. Weight lbs./ft.	Number of Links per 10 ft.
		L ₁ +L ₂	L ₁	L ₂	L							
RS180	1	3.075	1.404	1.671	3.173	2.592	Cottered	63,280	80,480	13,670	9.04	54
RS180-2	2	5.674	2.707	2.967	5.949		Cottered	126,560	160,960	23,230	17.82	
RS180-3	3	8.276	4.004	4.272	8.539		Cottered	189,840	241,440	34,170	25.68	
RS180-4	4	10.870	5.301	5.569	11.134		Riveted	253,120	321,920	45,110	34.20	
RS180-5	5	13.464	6.598	6.866	13.724		Riveted	316,400	402,400	53,310	42.73	
RS180-6	6	16.059	7.896	8.163	16.315		Riveted	379,680	482,880	62,880	51.25	

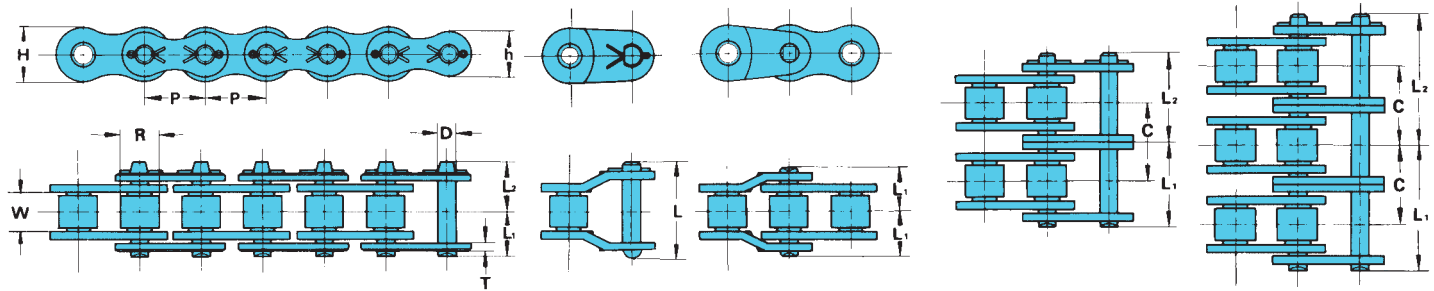
Note: * Refer to page A-23, "Selection for Slow Speed."

Maximum Horsepower Ratings

No. of Teeth Small Spkt.	Maximum Speed - Small Sprocket (rpm)																								
	10	25	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150
	A										B					C									
11	6.17	14.1	26.3	48.9	70.5	91.3	112	132	152	149	124	106	92.0	80.7	71.6	64.1	57.8	52.4	47.9	44.0	40.5	37.5	34.9	32.5	0
12	6.77	15.4	28.8	53.8	77.5	100	123	145	166	169	142	121	105	92.0	81.7	73.1	65.8	59.7	54.6	50.2	46.3	42.8	39.7	37.1	0
13	7.39	16.9	31.4	58.6	84.5	109	134	158	181	190	161	135	118	103	92.0	82.3	74.3	67.5	61.6	56.5	52.2	48.3	44.8	0	
14	7.99	18.2	34.1	63.6	91.5	119	145	170	196	213	178	152	132	115	102	92.0	82.9	75.4	68.8	63.2	58.2	53.9	50.2	0	
15	8.62	19.7	36.7	68.4	98.6	128	156	184	212	236	198	169	146	128	114	102	92.0	83.5	76.2	70.0	64.5	59.7	55.5	0	
16	9.24	21.1	39.3	73.4	106	137	168	197	227	256	219	186	161	141	125	112	101	92.0	84.1	77.2	71.1	65.8	61.3	0	
17	9.87	22.5	42.0	78.3	113	146	178	211	241	272	239	204	177	156	137	123	111	100	92.0	84.5	77.9	72.1	0		
18	10.5	23.9	44.7	83.3	120	156	190	224	257	290	260	223	192	169	150	134	121	110	100	92.0	84.9	78.6	0		
19	11.1	25.3	47.3	88.4	127	165	201	237	272	307	283	241	208	184	162	145	131	119	109	99.9	92.0	85.3	0		
20	11.8	26.8	50.0	93.3	134	174	213	251	288	325	306	260	225	198	176	157	141	128	117	108	99.4	92.0	0		
21	12.4	28.3	52.7	98.4	142	184	224	264	304	343	329	280	243	213	189	169	152	138	126	116	107	99.1	0		
22	13.0	29.8	55.5	104	149	193	236	278	319	361	353	300	260	228	202	181	164	148	135	124	115	0			
23	13.7	31.2	58.2	109	157	202	248	292	335	378	377	323	278	244	216	194	176	160	145	133	123	0			
24	14.3	32.6	60.9	114	164	212	259	306	351	396	401	345	296	260	231	207	186	169	154	142	131	0			
25	15.0	34.1	63.7	119	172	221	271	319	367	414	426	366	315	278	245	220	198	180	164	152	139	0			
26	15.6	35.5	66.4	124	178	232	283	333	382	432	452	386	334	294	260	233	211	192	174	160	0				
28	16.9	38.6	72.0	134	193	251	306	361	414	468	506	432	374	329	291	260	235	213	194	178	0				
30	18.2	41.6	77.5	145	208	270	330	389	447	504	561	479	414	365	322	290	260	236	216	198	0				
32	19.6	44.5	83.1	156	224	290	354	417	479	540	601	527	456	401	355	319	287	260	239	0					
35	21.5	49.1	91.6	170	247	319	390	460	528	595	661	603	522	459	406	365	329	291	220	0					
40	24.8	56.7	106	197	284	369	451	531	610	688	760	610	575	524	465	398	325	244	0						
45	28.2	64.4	120	224	323	418	511	602	692	728	800	632	578	514	441	361	271	0							

- Note: 1. Multiply the value given above by the multiple strand factor (page A-22, Table II) in order to obtain the transmission horsepower of multiple strand chain.
 2. For lubrication systems A, B & C, refer to page A-77 for explanation. Please consult U.S. Tsubaki for use of horsepower ratings to the right of the boundary line.
 3. Refer to page A-22, "Procedures for Selecting Roller Chain."

RS200 2 1/2" Pitch



U.S. TSUBAKI Chain No.	ANSI No.	Pitch P	Roller Diameter R	Width Between Roller Link Plates W	Link Plate			Pin Diameter D
					T	H	h	
RS200	200	2.500	1.562	1.500	.312	2.374	2.047	.781

U.S. TSUBAKI Chain No.	Number of Strands	Pin				Transverse Pitch C	Standard Type of Pin	Minimum Ultimate Strength ANSI Standard lbs.	Average Tensile Strength lbs.	* Maximum Allowable Load lbs.	Approx. Weight lbs./ft.	Number of Links per 10 ft.
		L ₁ +L ₂	L ₁	L ₂	L							
RS200	1	3.299	1.535	1.764	3.437	2.817	Cottered	78,125	103,630	16,090	11.08	48
RS200-2	2	6.122	2.947	3.175	6.346		Cottered	156,250	207,260	27,350	21.93	
RS200-3	3	8.945	4.360	4.585	9.173		Riveted	234,375	310,890	40,220	32.94	
RS200-4	4	11.768	5.772	5.996	11.996		Riveted	312,500	414,520	53,090	43.79	
RS200-5	5	14.590	7.181	7.409	14.815		Riveted	390,625	518,150	62,750	54.64	
RS200-6	6	17.414	8.593	8.821	17.638		Riveted	468,750	621,780	74,010	65.58	

Note: * Refer to page A-23, "Selection for Slow Speed."

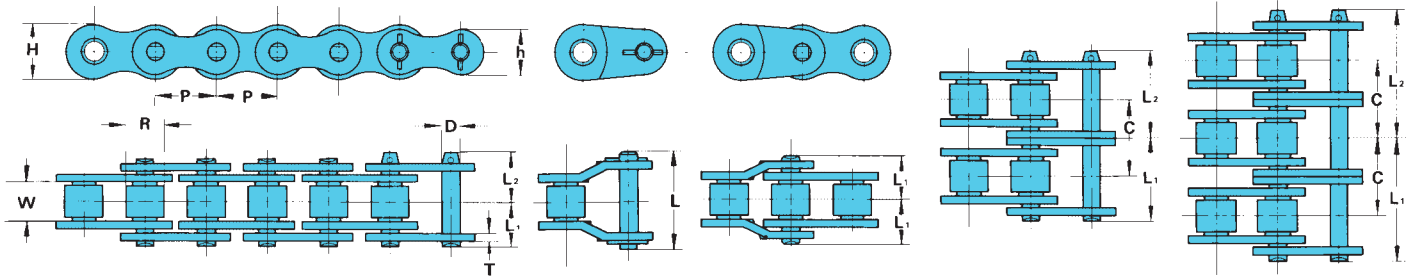
Maximum Horsepower Ratings

No. of Teeth Small Spkt.	Maximum Speed – Small Sprocket (rpm)																			
	10	15	20	30	40	50	70	100	150	200	250	300	350	400	450	500	550	600	650	700
	Lubrication System																			
	A					B					C									
11	7.36	10.6	13.7	19.8	25.6	31.4	42.4	58.5	84.2	109	133	157	181	162	135	115	100	87.8	77.9	0
12	8.09	11.7	15.2	21.7	28.2	34.5	46.7	64.2	92.5	120	146	173	198	184	154	132	114	100	0	0
13	8.82	12.7	16.5	23.7	30.7	37.5	50.8	70.0	101	131	160	188	216	208	174	148	129	113	0	0
14	9.56	13.8	17.8	25.7	33.3	40.6	55.1	75.9	109	142	173	204	235	232	194	166	143	126	0	0
15	10.3	14.9	19.2	27.6	35.8	43.9	59.3	81.8	118	153	186	220	252	257	215	184	160	139	0	0
16	11.0	16.0	20.7	29.6	38.5	46.9	63.6	87.7	126	164	200	236	271	284	237	202	176	154	0	0
17	11.8	17.0	22.0	31.6	41.0	50.2	67.9	93.6	135	174	213	252	290	311	260	223	192	169	0	0
18	12.5	18.1	23.3	33.7	43.6	53.4	72.3	99.5	143	186	227	268	307	338	284	243	209	184	0	0
19	13.3	19.2	24.8	35.7	46.3	56.6	76.6	106	152	197	241	284	326	367	307	261	227	198	0	0
20	14.1	20.2	26.1	37.8	48.9	59.8	81.0	112	161	208	255	300	345	389	333	283	245	0	0	0
21	14.8	21.3	27.6	39.8	51.5	63.0	85.3	118	169	220	268	316	363	409	358	306	264	0	0	0
22	15.6	22.4	29.1	41.8	54.2	66.2	89.7	124	178	231	282	333	382	430	384	327	283	0	0	0
23	16.4	23.5	30.4	43.9	56.9	69.5	94.1	130	186	243	296	349	401	452	409	349	303	0	0	0
24	17.2	24.7	31.9	46.0	59.5	72.8	98.6	135	196	253	310	365	420	473	437	373	323	0	0	0
25	17.8	25.7	33.4	48.0	62.2	76.0	103	142	204	266	323	382	439	495	464	396	343	0	0	0
26	18.6	26.8	34.7	50.2	64.9	79.4	107	148	213	276	338	398	457	516	492	420	365	0	0	0

- Note: 1. Multiply the value given above by the multiple strand factor (page A-22, Table II) in order to obtain the transmission horsepower of multiple strand chain.
 2. For lubrication systems A, B & C, refer to page A-77 for explanation. Please consult U.S. Tsubaki for use of horsepower ratings to the right of the boundary line.
 3. Refer to page A-22, "Procedures for Selecting Roller Chain."

U.S. TSUBAKI RS ROLLER CHAIN

RS240 3" Pitch



U.S. TSUBAKI Chain No.	ANSI No.	Pitch P	Roller Diameter R	Link Plate				Pin Diameter D
				Width Between Roller Link Plates W	T	H	h	
RS240	240	3.000	1.875	1.875	.375	2.850	2.457	.937

U.S. TSUBAKI Chain No.	Number of Strands	Pin				Transverse Pitch C	Standard Type of Pin	Minimum Ultimate Strength ANSI Standard lbs.	Average Tensile Strength lbs.	* Maximum Allowable Load lbs.	Approx. Weight lbs./ft.	Number of Links per 10 ft.
		L ₁ +L ₂	L ₁	L ₂	L							
RS240	1	4.071	1.886	2.185	4.201	3.458	Riveted	112,500	152,140	22,270	16.46	40
RS240-2	2	7.531	3.618	3.913	7.811		Riveted	225,000	304,280	37,850	32.32	
RS240-3	3	10.984	5.348	5.636	11.272		Riveted	337,500	456,420	55,670	48.11	
RS240-4	4	14.453	7.079	7.374	14.732		Riveted	450,000	608,560	73,490	63.90	
RS240-5	5	17.913	8.809	9.104	18.189		Riveted	562,500	760,700	86,850	79.70	
RS240-6	6	21.370	10.539	10.831	21.657		Riveted	675,000	912,840	102,440	95.49	

Note: * Refer to page A-23, "Selection for Slow Speed."

Maximum Horsepower Ratings

No. of Teeth Small Spkt.	Maximum Speed – Small Sprocket (rpm)																				
	5	10	15	20	25	30	40	50	60	80	100	125	150	175	200	250	300	350	400	450	500
	A									B						C					
11	6.81	12.7	18.2	23.7	29.0	34.2	44.3	54.0	63.7	82.6	101	123	145	168	188	231	271	228	188	156	0
12	7.48	13.9	20.1	26.0	31.8	37.5	48.5	59.4	70.0	90.7	111	135	160	184	207	253	298	260	213	0	0
13	8.15	15.2	21.9	28.4	34.7	40.9	53.0	64.8	76.3	99.0	121	148	174	200	225	276	325	294	240	0	0
14	8.84	16.5	23.7	30.7	37.5	44.3	57.4	70.1	82.7	107	131	160	189	217	244	299	353	329	268	0	0
15	9.52	17.7	25.6	33.1	40.5	47.7	61.8	75.6	89.0	115	141	173	204	233	263	322	380	363	298	0	0
16	10.2	19.0	27.5	35.5	43.4	51.2	66.4	81.1	95.5	124	152	185	219	251	283	345	388	372	329	0	0
17	10.9	20.4	29.2	38.0	46.4	54.7	70.8	86.5	102	132	161	197	232	267	302	369	397	381	359	0	0
18	11.6	21.6	31.1	40.4	49.3	58.2	75.4	92.1	108	141	172	211	248	284	321	392	406	390	377	0	0
19	12.3	22.9	33.0	42.8	52.3	61.7	79.8	97.6	115	149	182	223	263	302	339	416	425	408	393	0	0
20	13.0	24.3	34.9	45.2	55.3	65.2	84.4	103	122	157	193	235	278	319	359	439	443	424	408	0	0
21	13.7	25.6	36.7	47.7	58.3	68.7	88.9	109	128	166	202	248	292	335	378	463	463	440	421	0	0
22	14.3	26.8	38.8	50.2	61.3	72.1	93.6	114	134	174	213	261	307	353	398	487	471	455	436	0	0
23	15.2	28.2	40.6	52.6	64.2	75.8	98.2	120	141	184	224	274	322	370	418	496	481	469	448	0	0
24	15.8	29.5	42.5	55.1	67.3	79.4	103	126	148	192	235	287	338	388	437	531	504	483	0	0	0
25	16.5	30.8	44.4	57.5	70.4	82.9	107	131	154	200	245	299	353	405	457	550	520	496	0	0	0
26	17.3	32.2	46.4	60.1	73.4	86.5	112	137	161	209	256	312	369	422	477	561	532	510	0	0	0

- Note: 1. Multiply the value given above by the multiple strand factor (page A-22, Table II) in order to obtain the transmission horsepower of multiple strand chain.
 2. For lubrication systems A, B & C, refer to page A-77 for explanation. Please consult U.S. Tsubaki for use of horsepower ratings to the right of the boundary line.
 3. Refer to page A-22, "Procedures for Selecting Roller Chain."