



Heavy Duty Roller Chains

1. Extensive line-up with outstanding reliability

Tsubaki's Heavy Duty Roller Chains come in a wide array of products. Their high maximum allowable load make them commonly used in compact transmission systems.

2. Uses

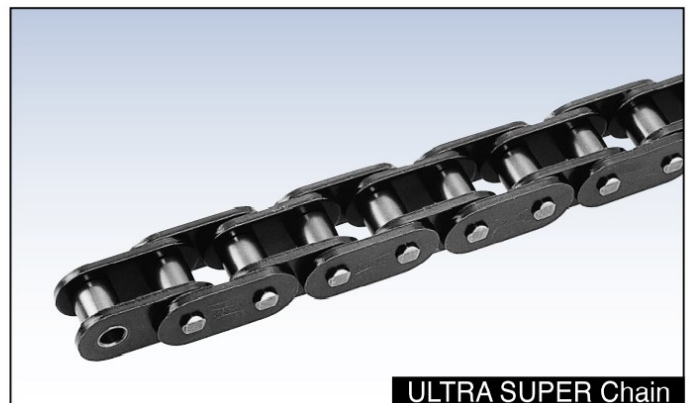
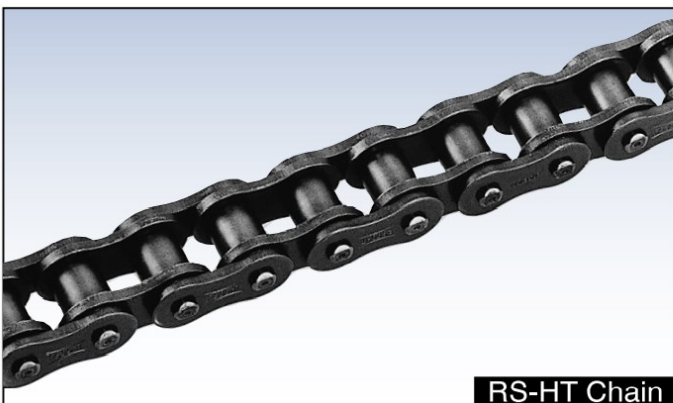
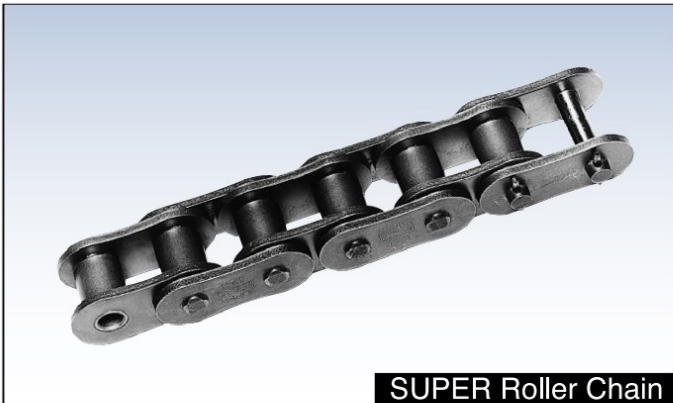
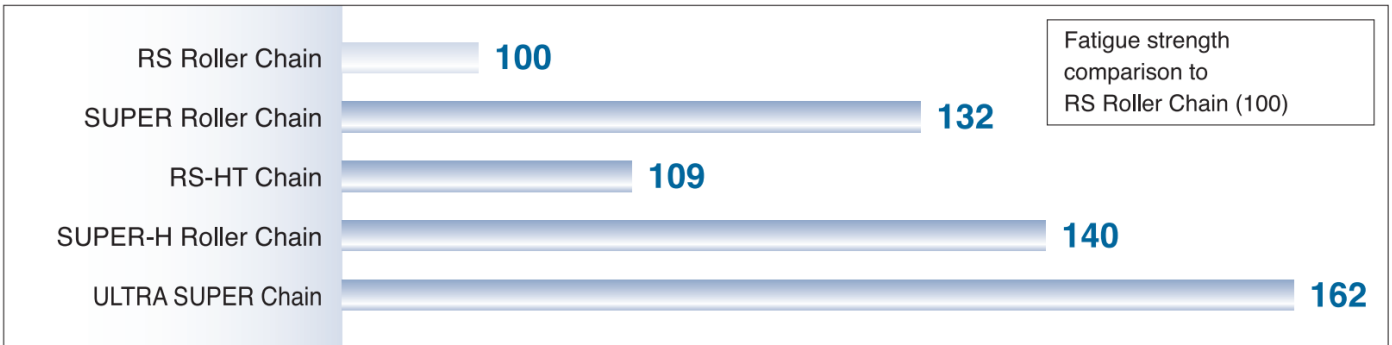
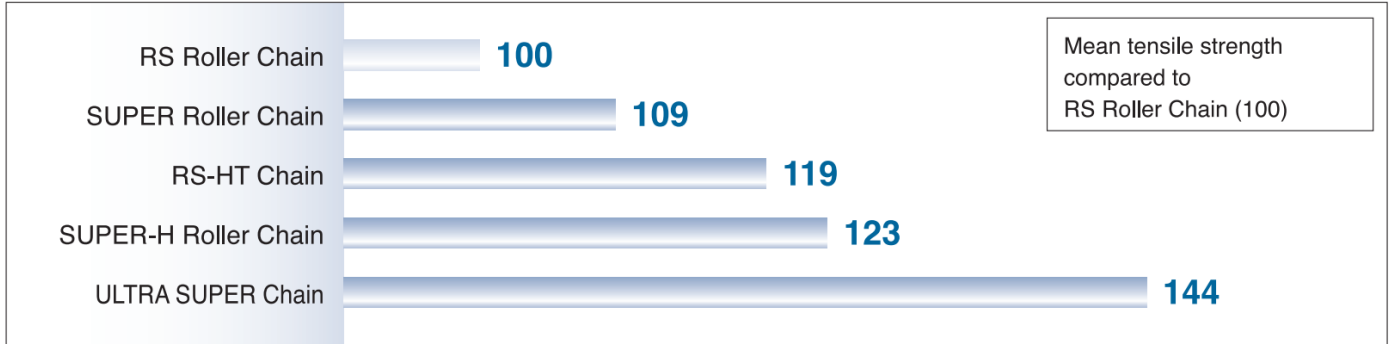
Use Tsubaki Heavy Duty Roller Chains when capacity exceeds that of RS Roller Chains, such as in:

1. Harsh environments where the chain will be subjected to heavy impact.
2. Compact drives for equipment or machines that must work in tight spaces.
3. When higher transmission power, allowable load or tensile strength is required.
4. When a lower rate of elastic elongation is required.

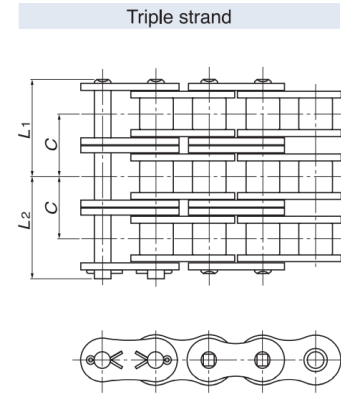
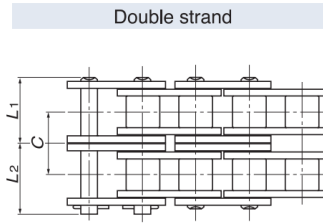
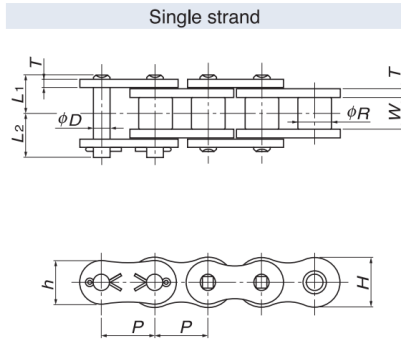
3. Applications and features

Model Item	SUPER Roller Chain	RS-HT Chain	SUPER-H Roller Chain	ULTRA SUPER Chain
Main applications	For heavy-duty transmission, lifting			
Features	<ul style="list-style-type: none"> ● High kilowatt ratings ● High shock absorption ● Can go down one size when used in place of RS Roller Chain 	<ul style="list-style-type: none"> ● High kilowatt ratings ● High tensile strength 	<ul style="list-style-type: none"> ● High fatigue strength ● High tensile strength ● High shock absorption 	<ul style="list-style-type: none"> ● Has the highest fatigue strength, tensile strength, and shock absorption of all Tsubaki chains. Designed for compact drives.
	<p>Note Tsubaki's Heavy Duty Roller Chains are designed for low to medium speed heavy-duty transmission. RS Roller Chain should be used in speed ranges not appearing in the kilowatt ratings tables.</p>			
Example applications	Construction machinery, farm equipment, lifting mechanisms, port equipment, parking structures, etc.			
Offset links	<ul style="list-style-type: none"> ● Single-strand 4POL 	<ul style="list-style-type: none"> ● Offset links are not available. Use an even number of links. 		
Sprockets	<ul style="list-style-type: none"> ● Both single and multi-strand chains can use RS Roller Chain sprockets. 	<ul style="list-style-type: none"> ● Use sprockets made of S35C or higher carbon steel. Small sprockets must have hardened teeth. Steel sprockets cannot be used. 		

4. Tensile strength and fatigue strength comparison



RS60-HT



TSUBAKI Chain Number	Number of Strands	Pitch P	Roller Diameter R	Inner Width of Inner Link W	Plates			Pins			Transverse Pitch C	Minimum Tensile Strength kN{kgf}	Average Tensile Strength kN{kgf}	Maximum Allowable Tension kN{kgf}	Approximate Mass kg/m
					Thickness T	Height H	Height h	Diameter D	L ₁	L ₂					
RS60-HT-1	1								14.8	17.0	—	48.1 { 4900 }	55.9 { 5700 }	9.81 { 1000 }	1.80
RS60-HT-2	2	19.05	11.91	12.70	3.2	18.1	15.6	5.96	27.8	29.9	26.1	96.1 { 9800 }	112 { 11400 }	16.7 { 1700 }	3.59
RS60-HT-3	3								40.85	42.95	26.1	144 { 14700 }	168 { 17100 }	24.5 { 2500 }	5.36

Note: 1. Number of links per unit = 160
2. Offset links are not available.

RS60-HT-1 Maximum Kilowatt Ratings Table (kW Ratings for Single Strand Chain)

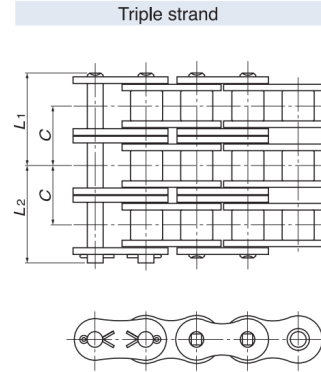
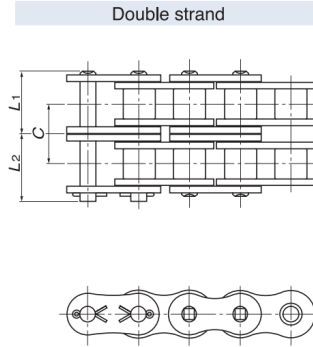
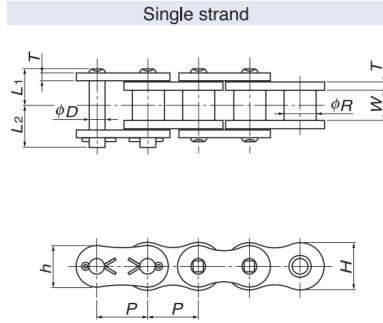
Small Sprocket No. of Teeth	Small Sprocket Max r/min																
	10	25	50	100	150	200	300	400	500	600	700	800	900	1000	1100	1200	
	A							B							C		
9	0.27	0.61	1.13	2.11	3.04	3.93	5.67	7.34	8.98	10.1	10.1	10.1	10.1				
10	0.30	0.68	1.27	2.36	3.40	4.41	6.35	8.23	10.1	11.4	11.4	11.4	11.4				
11	0.33	0.75	1.40	2.62	3.77	4.89	7.04	9.12	11.1	12.7	12.7	12.7	12.7				
12	0.36	0.83	1.54	2.88	4.14	5.37	7.73	10.0	12.2	13.9	13.9	13.9	13.9				
13	0.39	0.90	1.68	3.14	4.52	5.85	8.43	10.9	13.4	15.2	15.2	15.2	15.2				
14	0.43	0.98	1.82	3.40	4.89	6.34	9.13	11.8	14.5	16.7	16.7	16.7	16.7	16.7			
15	0.46	1.05	1.96	3.66	5.27	6.83	9.84	12.7	15.6	18.4	18.5	18.5	18.5	18.5			
16	0.49	1.13	2.10	3.93	5.65	7.32	10.6	13.7	16.7	19.7	20.4	20.4	20.4	20.4			
17	0.53	1.20	2.25	4.19	6.04	7.82	11.3	14.6	17.8	21.0	22.3	22.3	22.3	22.3			
18	0.56	1.28	2.39	4.46	6.42	8.32	12.0	15.5	19.0	22.4	23.7	23.7	23.7	23.7			
19	0.59	1.36	2.53	4.73	6.81	8.82	12.7	16.5	20.1	23.7	25.1	25.1	25.1	25.1			
20	0.63	1.43	2.68	4.99	7.19	9.32	13.4	17.4	21.3	25.1	26.6	26.6	26.6	26.6			
21	0.66	1.51	2.82	5.27	7.58	9.83	14.2	18.3	22.4	26.4	28.0	28.0	28.0	28.0			
22	0.70	1.59	2.97	5.54	7.97	10.3	14.9	19.3	23.6	27.8	29.5	29.5	29.5	29.5			
23	0.73	1.67	3.11	5.81	8.37	10.8	15.6	20.2	24.7	29.1	30.9	30.9	30.9	30.9			
24	0.77	1.75	3.26	6.08	8.76	11.3	16.3	21.2	25.9	30.5	32.5	32.5	32.5	32.5	32.5		
25	0.80	1.83	3.41	6.36	9.16	11.9	17.1	22.1	27.1	31.9	34.5	34.5	34.5	34.5	34.5		
26	0.83	1.90	3.55	6.63	9.55	12.4	17.8	23.1	28.2	33.3	36.6	36.6	36.6	36.6	36.6		
28	0.90	2.06	3.85	7.18	10.3	13.4	19.3	25.0	30.6	36.0	40.9	40.9	40.9	40.9	40.9		
30	0.97	2.22	4.15	7.74	11.1	14.4	20.8	26.9	32.9	38.8	44.6	44.9	44.9	44.9	44.9		
32	1.04	2.38	4.45	8.30	12.0	15.5	22.3	28.9	35.3	41.6	47.8	48.1	48.1	48.1	48.1		
35	1.15	2.63	4.90	9.14	13.2	17.1	24.6	31.8	38.9	45.9	52.7	53.0	53.0	53.0	53.0		
40	1.33	3.03	5.66	10.6	15.2	19.7	28.4	36.8	44.9	53.0	60.8	61.3	61.3	61.3	61.3	61.3	
45	1.51	3.44	6.43	12.0	17.3	22.4	32.2	41.8	51.0	60.1	69.1	73.2	73.2	73.2	73.2	73.2	73.2

Note: Use RS Roller Chains in the high-speed range.

Multi-strand factor	Number of chain strands	Multi-strand factor	Number of chain strands	Multi-strand factor
	Double strand	1.7	Quintuple strand	3.9
	Triple strand	2.5	Sextuple strand	4.6
	Quadruple strand	3.3	—	—

Lubrication method	A	Manual lubrication or drip lubrication
	B	Oil bath or slinger disc lubrication
	C	Forced pump lubrication

RS80-HT



TSUBAKI Chain Number	Number of Strands	Pitch P	Roller Diameter R	Inner Width of Inner Link W	Plates			Pins			Transverse Pitch C	Minimum Tensile Strength kN{kgf}	Average Tensile Strength kN{kgf}	Maximum Allowable Load Tension kN{kgf}	Approximate Mass kg/m
					Thickness T	Height H	Height h	Diameter D	L1	L2					
RS80-HT-1	1														
RS80-HT-2	2	25.40	15.88	15.88	4.0	24.1	20.8	7.94	34.6	37.2	32.6	163 { 16600}	186 { 19000}	27.6 { 2810}	6.18
RS80-HT-3	3								50.95	53.55	32.6	244 { 24900}	279 { 28500}	40.5 { 4130}	9.24

Note: 1. Number of links per unit = 120
2. Offset links are not available.

RS80-HT-1 Maximum Kilowatt Ratings Table (kW Ratings for Single Strand Chain)

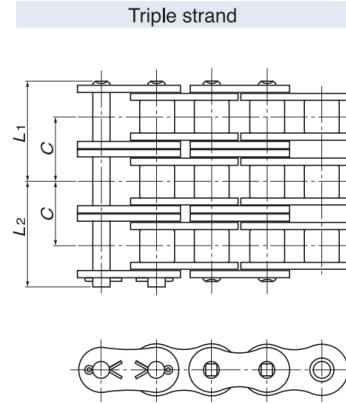
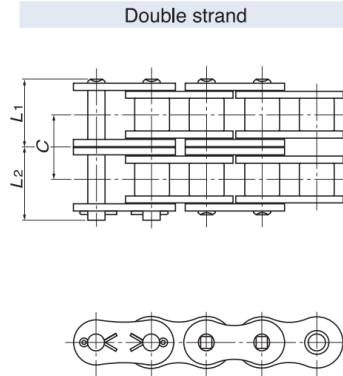
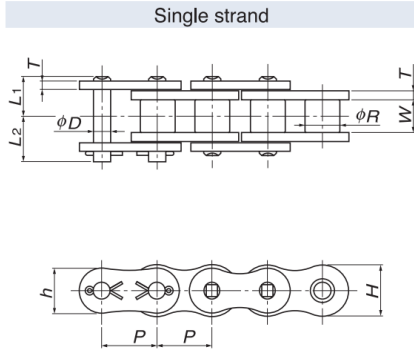
Small Sprocket No. of Teeth	Small Sprocket Max r/min										
	10	25	50	100	150	200	300	400	500	600	700
	A						B				C
9	0.58	1.33	2.49	4.64	6.69	8.66	12.5	16.2	18.2	18.2	
10	0.65	1.49	2.79	5.20	7.49	9.71	14.0	18.1	20.4	20.4	
11	0.73	1.66	3.09	5.77	8.31	10.8	15.5	20.1	22.6	22.6	
12	0.80	1.82	3.39	6.33	9.12	11.8	17.0	22.1	24.9	24.9	
13	0.87	1.98	3.70	6.91	9.95	12.9	18.6	24.0	27.1	27.1	
14	0.94	2.15	4.01	7.48	10.8	14.0	20.1	26.1	29.4	29.4	
15	1.01	2.31	4.32	8.06	11.6	15.0	21.7	28.1	32.6	32.6	
16	1.09	2.48	4.63	8.64	12.4	16.1	23.2	30.1	35.9	35.9	
17	1.16	2.65	4.94	9.23	13.3	17.2	24.8	32.1	39.3	39.3	
18	1.24	2.82	5.26	9.82	14.1	18.3	26.4	34.2	41.8	42.8	
19	1.31	2.99	5.58	10.4	15.0	19.4	28.0	36.2	44.3	46.0	
20	1.38	3.16	5.89	11.0	15.8	20.5	29.6	38.3	46.8	48.7	
21	1.46	3.33	6.21	11.6	16.7	21.6	31.2	40.4	49.3	51.3	
22	1.53	3.50	6.53	12.2	17.6	22.7	32.8	42.4	51.9	53.9	
23	1.61	3.67	6.85	12.8	18.4	23.9	34.4	44.5	54.4	56.6	
24	1.69	3.85	7.18	13.4	19.3	25.0	36.0	46.6	57.0	59.3	
25	1.76	4.02	7.50	14.0	20.2	26.1	37.6	48.7	59.6	61.9	
26	1.84	4.19	7.82	14.6	21.0	27.2	39.2	50.8	62.2	64.6	
28	1.99	4.54	8.48	15.8	22.8	29.5	42.5	55.1	67.3	70.0	
30	2.15	4.89	9.13	17.0	24.5	31.8	45.8	59.3	72.5	77.2	
32	2.30	5.25	9.79	18.3	26.3	34.1	49.1	63.6	77.8	85.0	85.0
35	2.53	5.78	10.8	20.1	29.0	37.6	54.1	70.1	85.7	97.3	97.3
40	2.93	6.68	12.5	23.2	33.5	43.4	62.5	81.0	99.0	114	114
45	3.32	7.58	14.1	26.4	38.0	49.3	71.0	91.9	112	130	130

Note: Use RS Roller Chains in the high-speed range.

Multi-strand factor	Number of chain strands	Multi-strand factor	Number of chain strands	Multi-strand factor
	Double strand	1.7	Quintuple strand	3.9
	Triple strand	2.5	Sextuple strand	4.6
	Quadruple strand	3.3	—	—

Lubrication method	A	Manual lubrication or drip lubrication
	B	Oil bath or slinger disc lubrication
	C	Forced pump lubrication

RS100-HT



TSUBAKI Chain Number	Number of Strands	Pitch P	Roller Diameter R	Inner Width of Inner Link W	Plates			Pins		Transverse Pitch C	Minimum Tensile Strength kN{kgf}	Average Tensile Strength kN{kgf}	Maximum Allowable Load Tension kN{kgf}	Approximate Mass kg/m	
					Thickness T	Height H	Height h	Diameter D	L ₁						L ₂
RS100-HT-1	1										124 { 12600 }	142 { 14500 }	24.5 { 2500 }	4.58	
RS100-HT-2	2	31.75	19.05	19.05	4.8	30.1	26.0	9.54	41.4	44.1	39.1	247 { 25200 }	284 { 29000 }	41.7 { 4250 }	9.03
RS100-HT-3	3								61.0	63.6	39.1	371 { 37800 }	427 { 43500 }	61.3 { 6250 }	13.54

Note: 1. Number of links per unit = 96
2. Offset links are not available.

RS100-HT-1 Maximum Kilowatt Ratings Table (kW Ratings for Single Strand Chain)

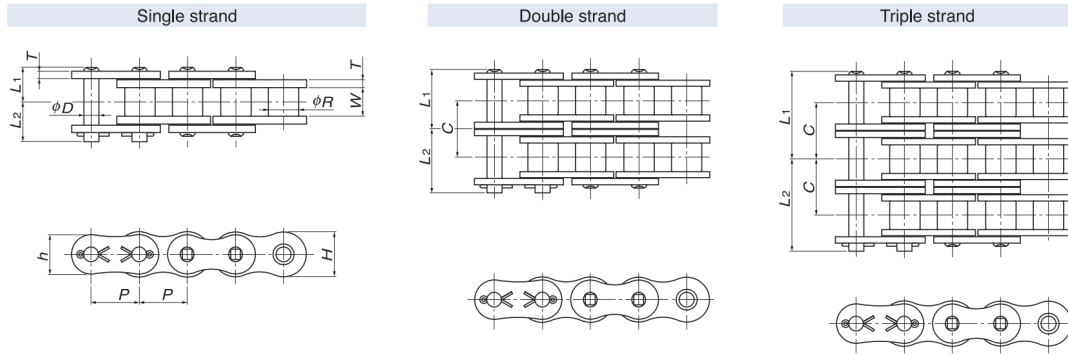
Small Sprocket No. of Teeth	Small Sprocket Max r/min										
	10	25	50	100	150	200	300	400	500		
	A					B					
9	1.10	2.52	4.70	8.78	12.6	16.4	23.6	26.4			
10	1.24	2.82	5.27	9.83	14.2	18.4	26.4	29.6			
11	1.37	3.13	5.84	10.9	15.7	20.3	29.3	32.8			
12	1.51	3.44	6.42	12.0	17.2	22.3	32.2	36.1			
13	1.64	3.75	7.00	13.1	18.8	24.4	35.1	39.3			
14	1.78	4.06	7.58	14.1	20.4	26.4	38.0	42.9			
15	1.92	4.38	8.17	15.2	21.9	28.4	41.0	47.6			
16	2.06	4.69	8.76	16.3	23.5	30.5	43.9	52.4			
17	2.20	5.01	9.35	17.4	25.1	32.6	46.9	57.4	57.4		
18	2.34	5.33	9.94	18.6	26.7	34.6	49.9	62.5	62.5		
19	2.48	5.65	10.5	19.7	28.3	36.7	52.9	67.8	67.8		
20	2.62	5.97	11.1	20.8	29.9	38.8	55.9	71.9	71.9		
21	2.76	6.29	11.7	21.9	31.6	40.9	58.9	75.8	75.8		
22	2.90	6.62	12.3	23.0	33.2	43.0	61.9	79.7	79.7		
23	3.04	6.94	13.0	24.2	34.8	45.1	65.0	83.7	83.7		
24	3.19	7.27	13.6	25.3	36.5	47.2	68.0	87.6	87.6		
25	3.33	7.60	14.2	26.5	38.1	49.4	71.1	91.5	91.5	※C	
26	3.47	7.93	14.8	27.6	39.8	51.5	74.2	95.5	95.5		
28	3.76	8.59	16.0	29.9	43.1	55.8	80.4	103	103		
30	4.06	9.25	17.3	32.2	46.4	60.1	86.6	111	111		
32	4.35	9.92	18.5	34.5	49.8	64.5	92.8	120	121		
35	4.79	10.9	20.4	38.0	54.8	71.0	102	132	139		
40	5.53	12.6	23.6	44.0	63.3	82.0	118	153	170		
45	6.28	14.3	26.7	49.9	71.9	93.1	134	174	196		

Note: Use RS Roller Chains in the high-speed range.

Multi-strand factor	Number of chain strands	Multi-strand factor	Number of chain strands	Multi-strand factor
	Double strand	1.7	Quintuple strand	3.9
	Triple strand	2.5	Sextuple strand	4.6
	Quadruple strand	3.3	-	-

Lubrication method	A	Manual lubrication or drip lubrication
	B	Oil bath or slinger disc lubrication
	C	Forced pump lubrication

RS120-HT



TSUBAKI Chain Number	Number of Strands	Pitch P	Roller Diameter R	Inner Width of Inner Link W	Plates			Pins			Transverse Pitch C	Minimum Tensile Strength kN{kgf}	Average Tensile Strength kN{kgf}	Maximum Allowable Load Tension kN{kgf}	Approximate Mass kg/m
					Thickness T	Height H	Height h	Diameter D	L ₁	L ₂					
RS120-HT-1	1								26.95	30.55	—	167 { 17000}	191 { 19500}	32.4 { 3300}	6.53
RS120-HT-2	2	38.10	22.23	25.40	5.6	36.2	31.2	11.11	51.4	55.0	48.9	333 { 34000}	382 { 39000}	55.0 { 5610}	12.90
RS120-HT-3	3								75.85	79.55	48.9	500 { 51000}	574 { 58500}	80.9 { 8250}	19.33

Note: 1. Number of links per unit = 80
2. Offset links are not available.

RS120-HT-1 Maximum Kilowatt Ratings Table (kW Ratings for Single Strand Chain)

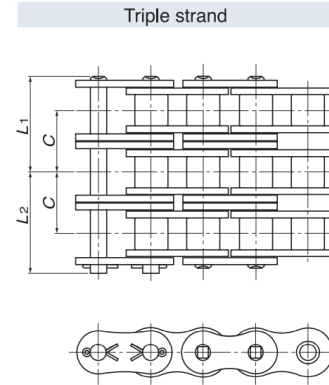
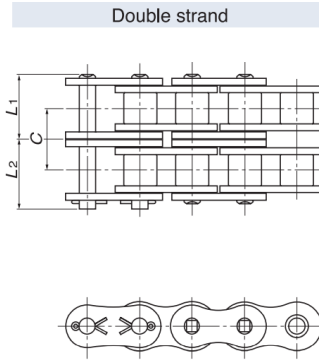
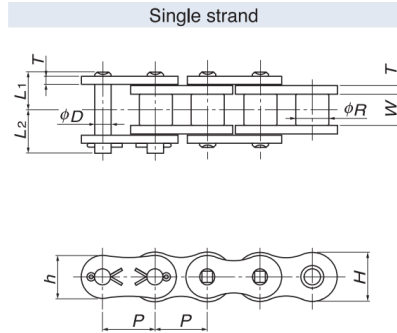
Small Sprocket No. of Teeth	Small Sprocket Max r/min								
	10	25	50	100	150	200	300	400	500
	A				B				C
9	1.75	4.00	7.46	13.9	20.1	26.0	37.4	41.1	
10	1.96	4.48	8.36	15.6	22.5	29.1	41.9	46.1	
11	2.18	4.97	9.27	17.3	24.9	32.3	46.5	51.0	
12	2.39	5.46	10.2	19.0	27.4	35.5	51.1	56.1	
13	2.61	5.95	11.1	20.7	29.8	38.7	55.7	61.1	
14	2.83	6.45	12.0	22.4	32.3	41.9	60.3	66.2	
15	3.04	6.94	13.0	24.2	34.8	45.1	65.0	71.3	
16	3.26	7.45	13.9	25.9	37.3	48.4	69.7	76.5	
17	3.49	7.95	14.8	27.7	39.9	51.7	74.4	83.7	
18	3.71	8.46	15.8	29.4	42.4	54.9	79.1	91.2	
19	3.93	8.96	16.7	31.2	45.0	58.3	83.9	98.9	
20	4.15	9.47	17.7	33.0	47.5	61.6	88.7	107	
21	4.38	9.99	18.6	34.8	50.1	64.9	93.5	115	115
22	4.60	10.5	19.6	36.6	52.7	68.2	98.3	123	123
23	4.83	11.0	20.6	38.4	55.3	71.6	103	132	132
24	5.06	11.5	21.5	40.2	57.9	75.0	108	140	140
25	5.29	12.1	22.5	42.0	60.5	78.3	113	146	146
26	5.51	12.6	23.5	43.8	63.1	81.7	118	152	152
28	5.97	13.6	25.4	47.5	68.3	88.5	128	165	165
30	6.44	14.7	27.4	51.1	73.6	95.4	137	178	178
32	6.90	15.7	29.4	54.8	79.0	102	147	191	191
35	7.60	17.3	32.4	60.4	87.0	113	162	210	210
40	8.78	20.0	37.4	69.7	100	130	187	242	242
45	9.97	22.7	42.4	79.2	114	148	213	276	286

Note: Use RS Roller Chains in the high-speed range.

Multi-strand factor	Number of chain strands	Multi-strand factor	Number of chain strands	Multi-strand factor
	Double strand	1.7	Quintuple strand	3.9
	Triple strand	2.5	Sextuple strand	4.6
	Quadruple strand	3.3	—	—

Lubrication method	A	Manual lubrication or drip lubrication
	B	Oil bath or slinger disc lubrication
	C	Forced pump lubrication

RS140-HT



TSUBAKI Chain Number	Number of Strands	Pitch P	Roller Diameter R	Inner Width of Inner Link W	Plates			Pins			Transverse Pitch C	Minimum Tensile Strength kN{kgf}	Average Tensile Strength kN{kgf}	Maximum Allowable Load Tension kN{kgf}	Approximate Mass kg/m
					Thickness T	Height H	Height h	Diameter D	L1	L2					
RS140-HT-1	1														
RS140-HT-2	2	44.45	25.40	25.40	6.4	42.2	36.4	12.71	28.9	33.1	52.2	435 { 44400}	500 { 51000}	72.6 { 7400}	16.38
RS140-HT-3	3								81.15	85.25	52.2	653 { 66600}	750 { 76500}	107 { 10880}	24.54

Note: 1. Number of links per unit = 68
2. Offset links are not available.

RS140-HT-1 Maximum Kilowatt Ratings Table (kW Ratings for Single Strand Chain)

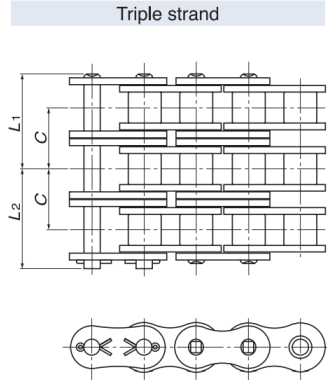
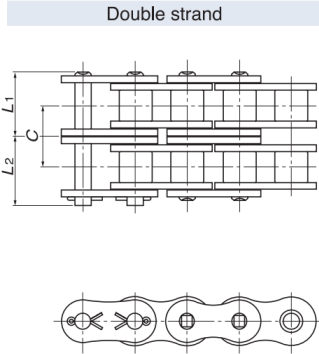
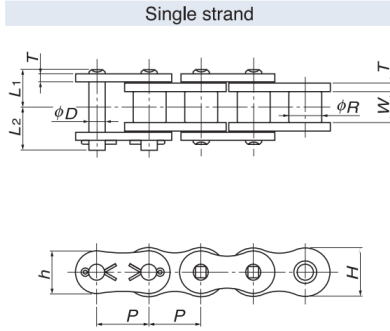
Small Sprocket No. of Teeth	Small Sprocket Max r/min											
	10	25	50	100	150	200	250	300	350	400	450	
	A			B								C
9	2.70	6.15	11.5	21.4	30.8	40.0	48.9	56.1	56.1			
10	3.02	6.89	12.9	24.0	34.6	44.8	54.7	64.5	65.6			
11	3.35	7.64	14.3	26.6	38.3	49.6	60.7	71.5	72.7			
12	3.68	8.39	15.7	29.2	42.1	54.5	66.7	78.5	79.9			
13	4.01	9.15	17.1	31.9	45.9	59.4	72.7	85.6	87.1			
14	4.34	9.91	18.5	34.5	49.7	64.4	78.7	92.8	94.4			
15	4.68	10.7	19.9	37.2	53.6	69.4	84.8	100	103			
16	5.02	11.4	21.4	39.9	57.4	74.4	90.9	107	114			
17	5.36	12.2	22.8	42.6	61.3	79.4	97.1	114	124			
18	5.70	13.0	24.3	45.3	65.2	84.5	103	122	136	136		
19	6.04	13.8	25.7	48.0	69.1	89.6	109	129	144	144		
20	6.39	14.6	27.2	50.7	73.1	94.7	116	136	152	152		
21	6.73	15.4	28.7	53.5	77.0	100	122	144	161	161		
22	7.08	16.1	30.1	56.2	81.0	105	128	151	169	169		
23	7.43	16.9	31.6	59.0	85.0	110	135	159	177	177		
24	7.78	17.7	33.1	61.8	89.0	115	141	166	186	186		
25	8.13	18.5	34.6	64.6	93.0	120	147	174	194	194		
26	8.48	19.3	36.1	67.3	97.0	126	154	181	204	204		
28	9.18	21.0	39.1	73.0	105	136	166	196	225	228		
30	9.90	22.6	42.1	78.6	113	147	179	211	243	253		
32	10.6	24.2	45.2	84.3	121	157	192	227	260	276		
35	11.7	26.7	49.8	92.8	134	173	212	250	287	304		
40	13.5	30.8	57.5	107	154	200	245	288	331	351		
45	15.3	35.0	65.3	122	175	227	278	327	376	408	408	

Note: Use RS Roller Chains in the high-speed range.

Multi-strand factor	Number of chain strands	Multi-strand factor	Number of chain strands	Multi-strand factor
	Double strand	1.7	Quintuple strand	3.9
	Triple strand	2.5	Sextuple strand	4.6
	Quadruple strand	3.3	—	—

Lubrication method	A	Manual lubrication or drip lubrication
	B	Oil bath or slinger disc lubrication
	C	Forced pump lubrication

RS160-HT



TSUBAKI Chain Number	Number of Strands	Pitch P	Roller Diameter R	Inner Width of Inner Link W	Plates			Pins		Transverse Pitch C	Minimum Tensile Strength kN{kgf}	Average Tensile Strength kN{kgf}	Maximum Allowable Load Tension kN{kgf}	Approximate Mass kg/m	
					Thickness T	Height H	Height h	Diameter D	L ₁						L ₂
RS160-HT-1	1									-	278 { 28300}	319 { 32500}	55.9 { 5700}	10.97	
RS160-HT-2	2	50.80	28.58	31.75	7.15	48.2	41.6	14.29	64.9	69.6	61.9	555 { 56600}	638 { 65000}	95 { 9690}	21.78
RS160-HT-3	3								95.95	100.45	61.9	833 { 84900}	956 { 97500}	140 {14250}	32.63

Note: 1. Number of links per unit = 60
2. Offset links are not available.

RS160-HT-1 Maximum Kilowatt Ratings Table (kW Ratings for Single Strand Chain)

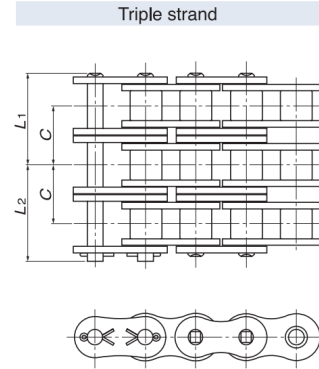
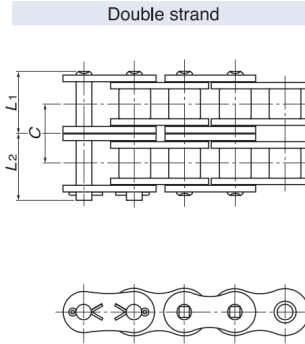
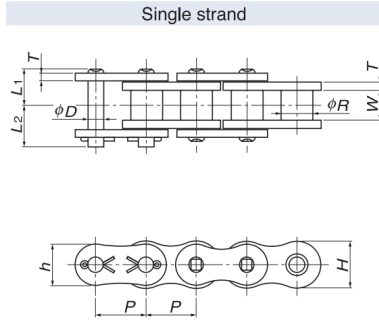
Small Sprocket No. of Teeth	Small Sprocket Max r/min										
	10	25	50	100	150	200	250	300	350	400	
	A			B						C	
9	4.03	9.20	17.2	32.0	46.2	59.8	73.1	74.5			
10	4.52	10.3	19.2	35.9	51.7	67.0	81.9	87.3			
11	5.01	11.4	21.3	39.8	57.3	74.3	90.8	98.5			
12	5.50	12.6	23.4	43.7	63.0	81.6	100	108			
13	6.00	13.7	25.5	47.7	68.7	88.9	109	118			
14	6.50	14.8	27.7	51.6	74.4	96.4	118	128			
15	7.00	16.0	29.8	55.6	80.1	104	127	138			
16	7.51	17.1	32.0	59.6	85.9	111	136	148			
17	8.02	18.3	34.1	63.7	91.7	119	145	162			
18	8.53	19.5	36.3	67.7	97.6	126	155	177	177		
19	9.04	20.6	38.5	71.8	103	134	164	192	192		
20	9.56	21.8	40.7	75.9	109	142	173	204	207		
21	10.1	23.0	42.9	80.0	115	149	183	215	220		
22	10.6	24.2	45.1	84.1	121	157	192	226	231		
23	11.1	25.3	47.3	88.3	127	165	201	237	243		
24	11.6	26.5	49.5	92.4	133	172	211	248	254		
25	12.2	27.7	51.8	96.6	139	180	220	260	266		
26	12.7	28.9	54.0	101	145	188	230	271	277		
28	13.7	31.3	58.5	109	157	204	249	293	300		
30	14.8	33.8	63.0	118	169	219	268	316	325		
32	15.9	36.2	67.6	126	182	235	288	339	358		
35	17.5	39.9	74.4	139	200	259	317	373	409	409	
40	20.2	46.1	86.0	160	231	299	366	431	485	485	
45	22.9	52.3	97.6	182	262	340	416	490	551	551	

Note: Use RS Roller Chains in the high-speed range.

Multi-strand factor	Number of chain strands	Multi-strand factor	Number of chain strands	Multi-strand factor
	Double strand	1.7	Quintuple strand	3.9
	Triple strand	2.5	Sextuple strand	4.6
	Quadruple strand	3.3	-	-

Lubrication method	A	Manual lubrication or drip lubrication
	B	Oil bath or slinger disc lubrication
	C	Forced pump lubrication

RS200-HT



TSUBAKI Chain Number	Number of Strands	Pitch P	Roller Diameter R	Inner Width of Inner Link W	Plates			Pins			Transverse Pitch C	Minimum Tensile Strength kN{kgf}	Average Tensile Strength kN{kgf}	Maximum Allowable Load Tension kN{kgf}	Approximate Mass kg/m
					Thickness T	Height H	Height h	Diameter D	L ₁	L ₂					
RS200-HT-1	1								42.9	48.1	–	486 { 49600}	559 { 57000}	78.5 { 8000}	18.41
RS200-HT-2	2	63.50	39.68	38.10	9.5	60.3	52.0	19.85	82.05	87.3	78.3	973 { 99200}	1120 { 114000}	133 { 13600}	36.47
RS200-HT-3	3								121.25	126.55	78.3	1460 { 148800}	1680 { 171000}	196 { 20000}	54.77

Note: 1. Number of links per unit = 48
2. Offset links are not available.

RS200-HT-1 Maximum Kilowatt Ratings Table (kW Ratings for Single Strand Chain)

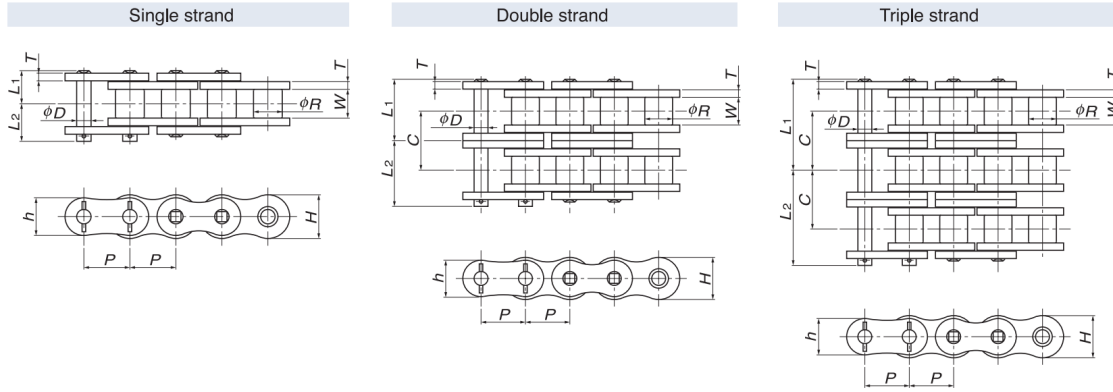
Small Sprocket No. of Teeth	Small Sprocket Max r/min											
	10	15	20	30	40	50	70	100	150	200	250	300
	A					B						C
9	7.08	10.2	13.2	19.0	24.7	30.1	40.8	56.2	81.0	105	108	
10	7.93	11.4	14.8	21.3	27.6	33.8	45.7	63.0	90.8	118	122	
11	8.79	12.7	16.4	23.6	30.6	37.4	50.7	69.9	101	130	135	
12	9.66	13.9	18.0	26.0	33.6	41.1	55.7	76.7	111	143	148	
13	10.5	15.2	19.7	28.3	36.7	44.8	60.7	83.7	121	156	161	
14	11.4	16.4	21.3	30.7	39.7	48.6	65.8	90.6	131	169	175	
15	12.3	17.7	22.9	33.0	42.8	52.3	70.8	97.6	141	182	192	
16	13.2	19.0	24.6	35.4	45.9	56.1	76.0	105	151	195	211	
17	14.1	20.3	26.3	37.8	49.0	59.9	81.1	112	161	209	231	
18	15.0	21.6	27.9	40.2	52.1	63.7	86.3	119	171	222	252	252
19	15.9	22.9	29.6	42.7	55.3	67.5	91.4	126	182	235	273	273
20	16.8	24.2	31.3	45.1	58.4	71.4	96.6	133	192	249	290	290
21	17.7	25.5	33.0	47.5	61.6	75.3	102	140	202	262	305	305
22	18.6	26.8	34.7	50.0	64.7	79.1	107	148	213	276	321	321
23	19.5	28.1	36.4	52.4	67.9	83.0	112	155	223	289	337	337
24	20.4	29.4	38.1	54.9	71.1	86.9	118	162	234	303	353	353
25	21.3	30.7	39.8	57.4	74.3	90.9	123	170	244	316	369	369
26	22.3	32.1	41.6	59.9	77.5	94.8	128	177	255	330	385	385

Note: Use RS Roller Chains in the high-speed range.

Multi-strand factor	Number of chain strands	Multi-strand factor	Number of chain strands	Multi-strand factor
	Double strand	1.7	Quintuple strand	3.9
	Triple strand	2.5	Sextuple strand	4.6
	Quadruple strand	3.3	–	–

Lubrication method	A	Manual lubrication or drip lubrication
	B	Oil bath or slinger disc lubrication
	C	Forced pump lubrication

RS240-HT



Spring pins are used with RS240HT joint links.

TSUBAKI Chain Number	Number of Strands	Pitch P	Roller Diameter R	Inner Width of Inner Link W	Plates			Pins			Transverse Pitch C	Minimum Tensile Strength kN{kgf}	Average Tensile Strength kN{kgf}	Maximum Allowable Load Tension kN{kgf}	Approximate Mass kg/m
					Thickness T	Height H	Height h	Diameter D	L ₁	L ₂					
RS240-HT-1	1														
RS240-HT-2	2	76.20	47.63	47.63	12.7	72.4	62.4	23.81	105.3	112.9	101.2	1540 {156600}	1770 {180000}	192 {19550}	57.35
RS240-HT-3	3								156.05	163.55	101.2	2300 {234900}	2650 {270000}	282 {28750}	85.47

Note: 1. Number of links per unit = 40
2. Offset links are not available.

RS240-HT-1 Maximum Kilowatt Ratings Table (kW Ratings for Single Strand Chain)

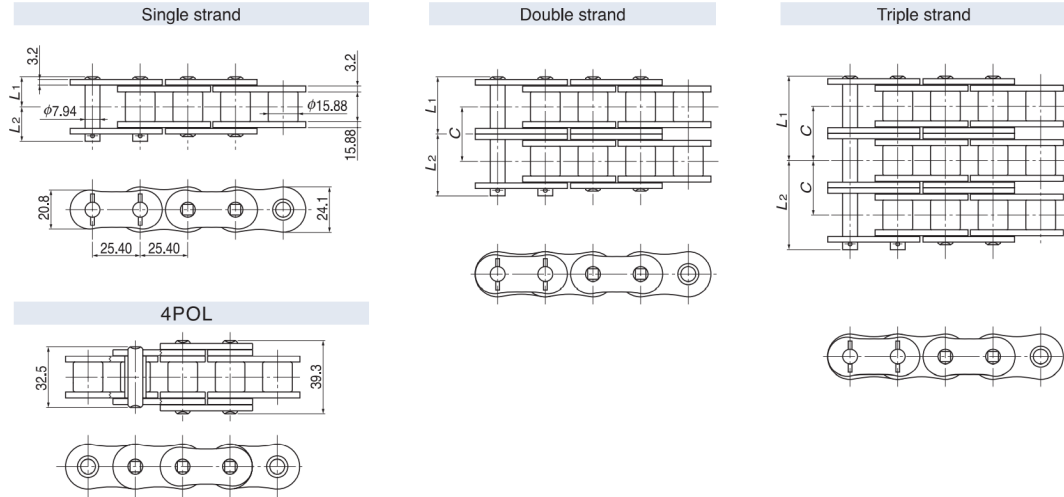
Lubrication Type Small Sprocket No. of Teeth	Small Sprocket Max r/min															
	5	10	15	20	25	30	40	50	60	80	100	125	150	175	200	250
	A						B									
9	6.55	12.2	17.6	22.8	27.9	32.9	42.6	52.1	61.3	79.5	97.15	119	140	159	159	
10	7.34	13.7	19.7	25.6	31.3	36.8	47.7	58.3	68.7	89.1	109	133	157	180	183	183
11	8.14	15.2	21.9	28.3	34.7	40.8	52.9	64.7	76.2	98.7	121	148	174	200	202	202
12	8.94	16.7	24.0	31.1	38.1	44.9	58.1	71.0	83.7	108	133	162	191	219	222	222
13	9.75	18.2	26.2	34.0	41.5	48.9	63.4	77.4	91.3	118	145	177	208	239	242	242
14	10.6	19.7	28.4	36.8	45.0	53.0	68.6	83.9	98.9	128	157	191	226	259	263	263
15	11.4	21.2	30.6	39.6	48.4	57.1	73.9	90.4	107	138	169	206	243	279	283	283
16	12.2	22.8	32.8	42.5	51.9	61.2	79.3	96.9	114	148	181	221	261	299	299	299
17	13.0	24.3	35.0	45.4	55.5	65.3	84.6	103	122	158	193	236	278	300	300	300
18	13.9	25.9	37.2	48.3	59.0	69.5	90.0	110	130	168	205	251	296	303	303	303
19	14.7	27.4	39.5	51.2	62.5	73.7	95.5	117	137	178	218	266	314	317	317	317
20	15.5	29.0	41.7	54.1	66.1	77.9	101	123	145	188	230	281	330	330		
21	16.4	30.5	44.0	57.0	69.7	82.1	106	130	153	198	243	297	345	345		
22	17.2	32.1	46.3	59.9	73.3	86.3	112	137	161	209	255	312	346	346		
23	18.1	33.7	48.5	62.9	76.9	90.6	117	143	169	219	268	327	370	370		
24	18.9	35.3	50.8	65.8	80.5	94.8	123	150	177	229	280	343	396	396		
25	19.8	36.9	53.1	68.8	84.1	99.1	128	157	185	240	293	358	410	410		
26	20.6	38.5	55.4	71.8	87.7	103	134	164	193	250	306	373	418	418		

Note: Use RS Roller Chains in the high-speed range.

Multi-strand factor	Number of chain strands	Multi-strand factor	Number of chain strands	Multi-strand factor
	Double strand	1.7	Quintuple strand	3.9
	Triple strand	2.5	Sextuple strand	4.6
	Quadruple strand	3.3	—	—

Lubrication method	A	Manual lubrication or drip lubrication
	B	Oil bath or slinger disc lubrication
	C	Forced pump lubrication

RS80-SUP



TSUBAKI Chain Number	Number of Strands	Pin Length L_1+L_2	Dimensions L_1	Dimensions L_2	Transverse Pitch C	Pin Type	Min. Ultimate Strength ANSI Standard kN{kgf}	Minimum Tensile Strength kN{kgf}	Average Tensile Strength kN{kgf}	Maximum Allowable Load kN{kgf}	Approximate Mass kg/m
RS80-SUP-1	1	35.5	16.25	19.25	29.3	Riveting	61.2 {6241}	74.2{7570}	85.3{8700}	18.6{1900}	2.81
RS80-SUP-2	2	64.8	30.9	33.9			122.4{12481}	148{15140}	171{17400}	31.7{3230}	5.62
RS80-SUP-3	3	94.1	45.6	48.5			183.6{18722}	223{22710}	256{26100}	46.6{4750}	8.40
RS80-SUP-4	4	123.5	60.25	63.25			222.4{22680}	297{30280}	341{34800}	61.5{6270}	11.17
RS80-SUP-5	5	152.9	74.95	77.95			278.0{28350}	371{37850}	427{43500}	72.7{7410}	13.97
RS80-SUP-6	6	182.1	89.6	92.5			333.6{34020}	445{45420}	512{52200}	85.7{8740}	16.75

- Note: 1. Number of links per unit = 120
 2. Four-pitch offset links (4POL) are only for single-strand chains.
 3. Maximum allowable load when using a four-pitch offset link (OL) is 90% that of the above values.

RS80-SUP-1 Maximum Kilowatt Ratings Table (kW Ratings for Single Strand Chain)

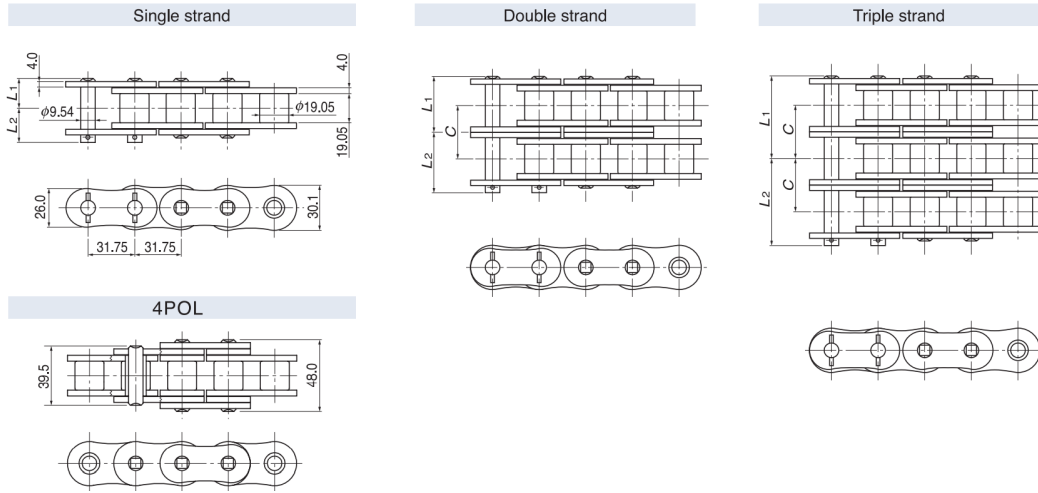
Lubrication Type Small Sprocket No. of Teeth	Small Sprocket Max r/min											
	10	25	50	100	150	200	300	400	500	600	700	800
	A II			B			C					
13	1.00	2.28	4.25	7.93	11.4	14.8	21.3	27.6	32.1	32.1	32.1	
14	1.08	2.47	4.60	8.59	12.4	16.0	23.1	29.9	35.9	35.9	35.9	
15	1.17	2.66	4.96	9.25	13.3	17.3	24.9	32.2	39.4	39.8	39.8	
16	1.25	2.85	5.32	9.92	14.3	18.5	26.7	34.6	42.2	43.8	43.8	
17	1.33	3.04	5.68	10.6	15.3	19.8	28.5	36.9	45.1	48.0	48.0	
18	1.42	3.24	6.04	11.3	16.2	21.0	30.3	39.2	48.0	51.4	51.4	
19	1.50	3.43	6.40	11.9	17.2	22.3	32.1	41.6	50.9	54.4	54.4	
20	1.59	3.63	6.77	12.6	18.2	23.6	33.9	44.0	53.8	57.5	57.5	
21	1.68	3.82	7.13	13.3	19.2	24.8	35.8	46.3	56.7	60.7	60.7	
22	1.76	4.02	7.50	14.0	20.2	26.1	37.6	48.7	59.6	63.8	63.8	
23	1.85	4.22	7.87	14.7	21.2	27.4	39.5	51.1	62.5	66.9	66.9	
24	1.94	4.42	8.24	15.4	22.1	28.7	41.3	53.5	65.4	70.1	70.1	
25	2.02	4.61	8.61	16.1	23.1	30.0	43.2	56.0	68.4	73.2	73.2	
26	2.11	4.81	8.98	16.8	24.1	31.3	45.1	58.4	71.4	76.4	76.4	
28	2.29	5.22	9.73	18.2	26.2	33.9	48.8	63.2	77.3	83.0	83.0	83.0
30	2.46	5.62	10.5	19.6	28.2	36.5	52.6	68.1	83.3	92.1	92.1	92.1
32	2.64	6.02	11.2	21.0	30.2	39.1	56.4	73.0	89.3	101	101	101
35	2.91	6.64	12.4	23.1	33.3	43.1	62.1	80.5	98.4	116	116	116
40	3.36	7.67	14.3	26.7	38.5	49.8	71.8	93.0	114	134	137	137
45	3.82	8.71	16.2	30.3	43.7	56.6	81.5	106	129	152	156	156

- Note: 1. Use RS Roller Chains in the high-speed range.
 2. Maximum allowable load when using a four-pitch offset link (OL) is 90% that of the above values.

Multi-strand factor	Number of chain strands	Multi-strand factor	Number of chain strands	Multi-strand factor
	Double strand	1.7	Quintuple strand	3.9
	Triple strand	2.5	Sextuple strand	4.6
	Quadruple strand	3.3	—	—

Lubrication method	A	Manual lubrication or drip lubrication
	B	Oil bath or slinger disc lubrication
	C	Forced pump lubrication

RS100-SUP



TSUBAKI Chain Number	Number of Strands	Pin Length L ₁ +L ₂	Dimensions L ₁	Dimensions L ₂	Transverse Pitch C	Pin Type	Min. Ultimate Strength ANSI Standard kN{kgf}	Minimum Tensile Strength kN{kgf}	Average Tensile Strength kN{kgf}	Maximum Allowable Load kN{kgf}	Approximate Mass kg/m
RS100-SUP-1	1	42.6	19.75	22.85	35.8	Riveting	95.4 {9728}	111{11300}	127{13000}	30.4{3100}	4.25
RS100-SUP-2	2	78.5	37.7	40.8			190.8{19456}	222{22600}	255{26000}	51.7{5270}	8.38
RS100-SUP-3	3	114.4	55.65	58.75			286.2{29184}	332{33900}	382{39000}	76.0{7750}	12.57
RS100-SUP-4	4	150.2	73.55	76.65			346.8{35364}	443{45200}	510{52000}	100{10230}	16.76
RS100-SUP-5	5	186.1	91.5	94.6			433.5{44205}	554{56500}	637{65000}	119{12090}	20.87
RS100-SUP-6	6	222.0	109.45	112.55			520.2{53046}	665{67800}	765{78000}	140{14260}	25.08

- Note: 1. Number of links per unit = 96
 2. Four-pitch offset links (4POL) are only for single-strand chains.
 3. Maximum allowable load when using a four-pitch offset link (OL) is 90% that of the above values.

RS100-SUP-1 Maximum Kilowatt Ratings Table (kW Ratings for Single Strand Chain)

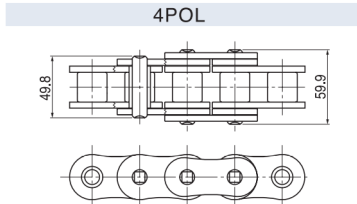
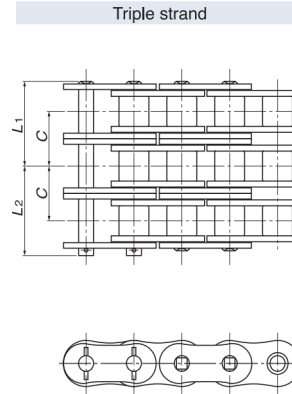
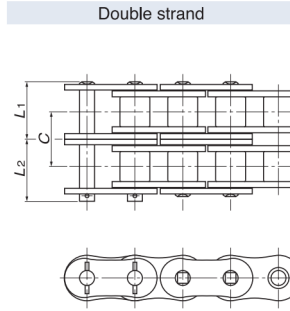
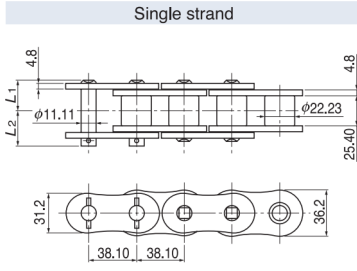
Small Sprocket No. of Teeth	Small Sprocket Max r/min											
	10	25	50	100	150	200	300	400	500	600	700	
	A II			B		C						
13	2.04	4.65	8.68	16.2	23.3	30.2	43.5	48.9	48.9			
14	2.21	5.04	9.40	17.6	25.3	32.8	47.2	54.0	54.0	54.0		
15	2.38	5.43	10.1	18.9	27.2	35.3	50.8	59.9	59.9	59.9		
16	2.55	5.82	10.9	20.3	29.2	37.8	54.5	66.0	66.0	66.0		
17	2.72	6.22	11.6	21.6	31.2	40.4	58.2	72.3	72.3	72.3		
18	2.90	6.61	12.3	23.0	33.2	43.0	61.9	78.8	78.8	78.8		
19	3.07	7.01	13.1	24.4	35.2	45.5	65.6	85.0	85.4	85.4		
20	3.25	7.41	13.8	25.8	37.2	48.1	69.3	89.8	91.8	91.8		
21	3.42	7.81	14.6	27.2	39.2	50.7	73.1	94.7	96.8	96.8		
22	3.60	8.21	15.3	28.6	41.2	53.4	76.9	99.6	102	102		
23	3.78	8.62	16.1	30.0	43.2	56.0	80.6	104	107	107		
24	3.95	9.02	16.8	31.4	45.2	58.6	84.4	109	112	112		
25	4.13	9.43	17.6	32.8	47.3	61.3	88.2	114	117	117		
26	4.31	9.84	18.4	34.2	49.3	63.9	92.1	119	122	122		
28	4.67	10.7	19.9	37.1	53.4	69.2	99.7	129	132	132		
30	5.03	11.5	21.4	40.0	57.6	74.6	107	139	142	142		
32	5.40	12.3	23.0	42.9	61.7	80.0	115	149	153	153		
35	5.94	13.6	25.3	47.2	68.0	88.1	127	164	170	170	170	
40	6.87	15.7	29.2	54.5	78.6	102	147	190	207	207	207	
45	7.80	17.8	33.2	61.9	89.2	116	166	216	247	247	247	

- Note: 1. Use RS Roller Chains in the high-speed range.
 2. Maximum allowable load when using a four-pitch offset link (OL) is 90% that of the above values.

Multi-strand factor	Number of chain strands	Multi-strand factor	Number of chain strands	Multi-strand factor
	Double strand	1.7	Quintuple strand	3.9
	Triple strand	2.5	Sextuple strand	4.6
	Quadruple strand	3.3	-	-

Lubrication method	A II	Drip lubrication
	B	Oil bath or slinger disc lubrication
	C	Forced pump lubrication

RS120-SUP



TSUBAKI Chain Number	Number of Strands	Pin Length L ₁ +L ₂	Dimensions L ₁	Dimensions L ₂	Transverse Pitch C	Pin Type	Min. Ultimate Strength ANSI Standard kN{kgf}	Minimum Tensile Strength kN{kgf}	Average Tensile Strength kN{kgf}	Maximum Allowable Load kN{kgf}	Approximate Mass kg/m
RS120-SUP-1	1	53.8	24.9	28.9	45.4	Riveting	137.1{13980}	162{16500}	186 {19000}	39.2 {4000}	6.3
RS120-SUP-2	2	99.2	47.6	51.6			274.2{27961}	324{33000}	373 {38000}	66.7 {6800}	12.44
RS120-SUP-3	3	144.8	70.4	74.4			411.3{41941}	485{49500}	559 {57000}	98.1{10000}	18.64
RS120-SUP-4	4	190.2	93.1	97.1			498.4{50824}	647{66000}	745 {76000}	129{13200}	24.84
RS120-SUP-5	5	235.7	115.85	119.85			623.0{63530}	809{82500}	932 {95000}	153{15600}	31.02
RS120-SUP-6	6	281.1	138.55	142.55			747.6{76236}	971{99000}	1120{114000}	180{18400}	37.2

- Note: 1. Number of links per unit = 80
 2. Four-pitch offset links (4POL) are only for single-strand chains.
 3. Maximum allowable load when using a four-pitch offset link (OL) is 90% that of the above values.

RS120-SUP-1 Maximum Kilowatt Ratings Table (kW Ratings for Single Strand Chain)

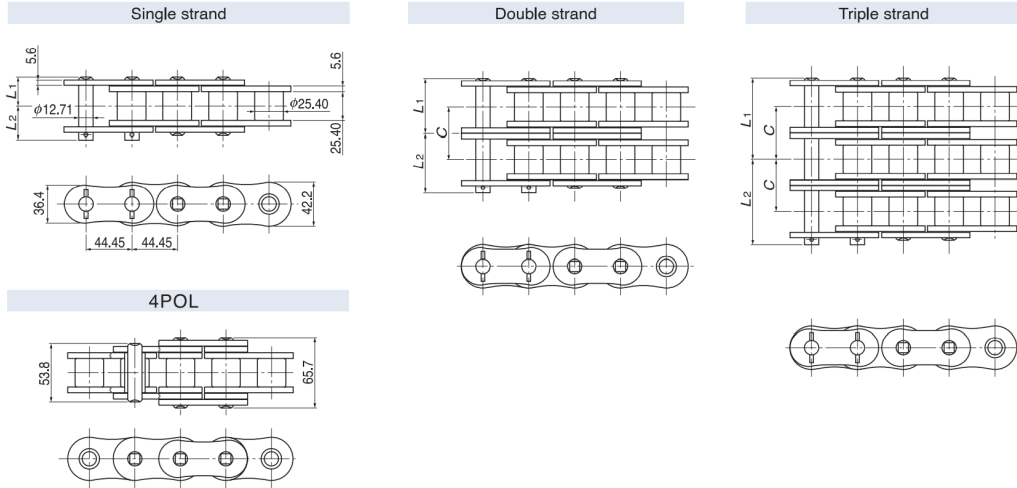
Small Sprocket No. of Teeth	Small Sprocket Max r/min										
	10	25	50	100	150	200	300	400	500	600	
	A II		B		C						
13	3.16	7.20	13.4	25.1	36.1	46.8	67.4	73.5	73.5		
14	3.42	7.80	14.6	27.2	39.1	50.7	73.0	82.2	82.2		
15	3.68	8.40	15.7	29.3	42.1	54.6	78.6	91.2	91.2		
16	3.95	9.01	16.8	31.4	45.2	58.5	84.3	100	100		
17	4.22	9.62	17.9	33.5	48.2	62.5	90.0	110	110		
18	4.48	10.2	19.1	35.6	51.3	66.5	95.8	118	118		
19	4.75	10.8	20.2	37.8	54.4	70.5	101.5	125	125		
20	5.03	11.5	21.4	39.9	57.5	74.5	107.3	132	132		
21	5.30	12.1	22.5	42.1	60.6	78.5	113	139	139		
22	5.57	12.7	23.7	44.2	63.7	82.6	119	146	146		
23	5.84	13.3	24.9	46.4	66.9	86.6	125	153	153		
24	6.12	14.0	26.0	48.6	70.0	90.7	131	160	160		
25	6.39	14.6	27.2	50.8	73.2	94.8	137	168	168		
26	6.67	15.2	28.4	53.0	76.3	98.9	142	175	175		
28	7.23	16.5	30.8	57.4	82.7	107	154	190	190		
30	7.79	17.8	33.1	61.9	89.1	115	166	204	204		
32	8.35	19.0	35.5	66.3	95.5	124	178	219	219		
35	9.20	21.0	39.1	73.1	105	136	196	247	247	247	
40	10.6	24.2	45.2	84.4	122	157	227	294	302	302	
45	12.1	27.5	51.4	95.8	138	179	258	334	360	360	

- Note: 1. Use RS Roller Chains in the high-speed range.
 2. Maximum allowable load when using a four-pitch offset link (OL) is 90% that of the above values.

Multi-strand factor	Number of chain strands	Multi-strand factor	Number of chain strands	Multi-strand factor
	Double strand	1.7	Quintuple strand	3.9
	Triple strand	2.5	Sextuple strand	4.6
	Quadruple strand	3.3	—	—

Lubrication method	A II	Drip lubrication
	B	Oil bath or slinger disc lubrication
	C	Forced pump lubrication

RS140-SUP



TSUBAKI Chain Number	Number of Strands	Pin Length L_1+L_2	Dimensions L_1	Dimensions L_2	Transverse Pitch C	Pin Type	Min. Ultimate Strength ANSI Standard kN{kgf}	Minimum Tensile Strength kN{kgf}	Average Tensile Strength kN{kgf}	Maximum Allowable Load kN{kgf}	Approximate Mass kg/m
RS140-SUP-1	1	58.6	26.9	31.7	48.9	Riveting	185.9 {18957}	213 {21700}	245 {25000}	53.9{5500}	8.04
RS140-SUP-2	2	107.5	51.35	56.15			371.8 {37913}	426 {43400}	490 {50000}	91.7{9350}	15.92
RS140-SUP-3	3	156.6	75.85	80.75			557.7 {56870}	638 {65100}	735 {75000}	135{13750}	23.84
RS140-SUP-4	4	205.5	100.3	105.2			676.0 {68932}	851 {86800}	981{100000}	178{18150}	30.71
RS140-SUP-5	5	254.4	124.8	129.6			845.0 {86165}	1060{108500}	1230{125000}	210{21450}	39.69
RS140-SUP-6	6	303.5	149.3	154.2			1014.0{103398}	1280{130200}	1470{150000}	248{25300}	47.57

- Note: 1. Number of links per unit = 68
 2. Four-pitch offset links (4POL) are only for single-strand chains.
 3. Maximum allowable load when using a four-pitch offset link (OL) is 90% that of the above values.

RS140-SUP-1 Maximum Kilowatt Ratings Table (kW Ratings for Single Strand Chain)

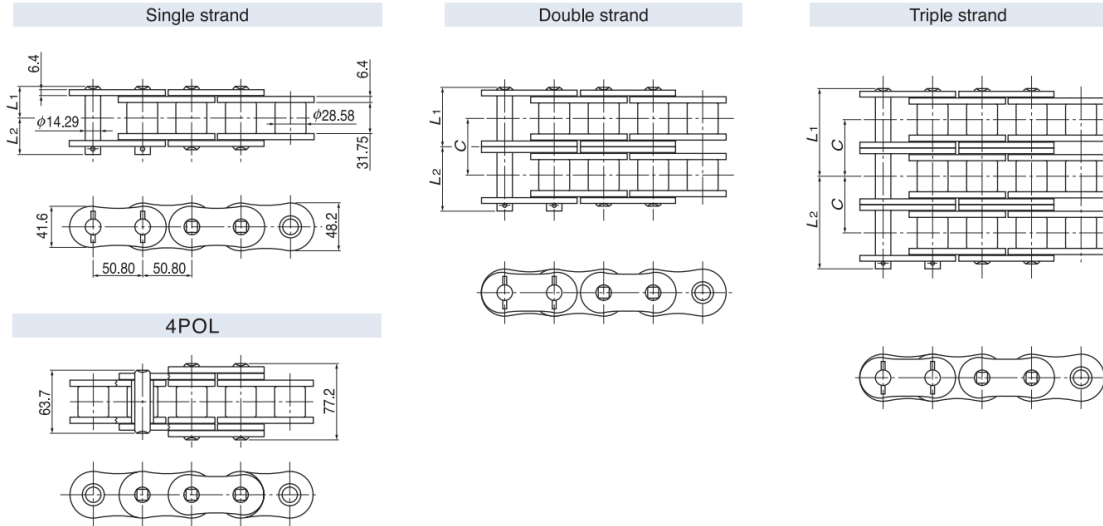
Lubrication Type Small Sprocket No. of Teeth	Small Sprocket Max r/min												
	10	25	50	100	150	200	250	300	350	400	450	500	550
	A II		B	C									
13	5.06	11.5	21.5	40.2	57.9	75.0	91.7	96.8	96.8	96.8			
14	5.48	12.5	23.3	43.6	62.7	81.3	99.4	109	109	109	109		
15	5.91	13.5	25.2	46.9	67.6	87.6	107	121	121	121	121		
16	6.34	14.5	27.0	50.3	72.5	93.9	115	133	133	133	133		
17	6.76	15.4	28.8	53.7	77.4	100	123	144	144	144	144		
18	7.19	16.4	30.6	57.1	82.3	107	130	153	153	153	153		
19	7.63	17.4	32.5	60.6	87.3	113	138	162	162	162	162		
20	8.06	18.4	34.3	64.0	92.2	119	146	171	171	171	171		
21	8.50	19.4	36.2	67.5	97.2	126	154	181	181	181	181		
22	8.94	20.4	38.0	71.0	102	132	162	190	190	190	190		
23	9.38	21.4	39.9	74.5	107	139	170	199	199	199	199		
24	9.82	22.4	41.8	78.0	112	146	178	209	209	209	209		
25	10.3	23.4	43.7	81.5	117	152	186	219	222	222	222	222	
26	10.7	24.4	45.6	85.0	122	159	194	229	235	235	235	235	
28	11.6	26.4	49.4	92.1	133	172	210	248	263	263	263	263	
30	12.5	28.5	53.2	99.2	143	185	226	267	292	292	292	292	
32	13.4	30.6	57.0	106	153	199	243	286	313	313	313	313	
35	14.8	33.7	62.8	117	169	219	267	315	345	345	345	345	
40	17.0	38.9	72.5	135	195	253	309	364	398	398	398	398	
45	19.4	44.1	82.4	154	221	287	351	413	464	464	464	464	464

- Note: 1. Use RS Roller Chains in the high-speed range.
 2. Maximum allowable load when using a four-pitch offset link (OL) is 90% that of the above values.

Multi-strand factor	Number of chain strands	Multi-strand factor	Number of chain strands	Multi-strand factor
	Double strand	1.7	Quintuple strand	3.9
	Triple strand	2.5	Sextuple strand	4.6
	Quadruple strand	3.3	-	-

Lubrication method	A II	Drip lubrication
	B	Oil bath or slinger disc lubrication
	C	Forced pump lubrication

RS160-SUP



TSUBAKI Chain Number	Number of Strands	Pin Length L ₁ +L ₂	Dimensions L ₁	Dimensions L ₂	Transverse Pitch C	Pin Type	Min. Ultimate Strength ANSI Standard kN{kgf}	Minimum Tensile Strength kN{kgf}	Average Tensile Strength kN{kgf}	Maximum Allowable Load kN{kgf}	Approximate Mass kg/m
RS160-SUP-1	1	68.7	31.85	36.85	58.5	Riveting	244.6{24942}	273 {27800}	314 {32000}	70.6{7200}	10.79
RS160-SUP-2	2	127.3	61.15	66.15			489.2{49885}	545 {55600}	628 {64000}	120 {12240}	21.43
RS160-SUP-3	3	185.9	90.45	95.45			733.8{74827}	818 {83400}	941 {96000}	177 {18000}	32.10
RS160-SUP-4	4	244.4	119.75	124.65			889.6{90712}	1090{111200}	1260{128000}	233 {23760}	42.84
RS160-SUP-5	5	303.0	149.05	153.95			1112.0{113390}	1360{139000}	1570{160000}	275 {28080}	53.37
RS160-SUP-6	6	361.6	178.3	183.3			1334.4{136068}	1640{166800}	1880{192000}	325 {33120}	64.10

- Note: 1. Number of links per unit = 60
 2. Four-pitch offset links (4POL) are only for single-strand chains.
 3. Maximum allowable load when using a four-pitch offset link (OL) is 90% that of the above values.

RS160-SUP-1 Maximum Kilowatt Ratings Table (kW Ratings for Single Strand Chain)

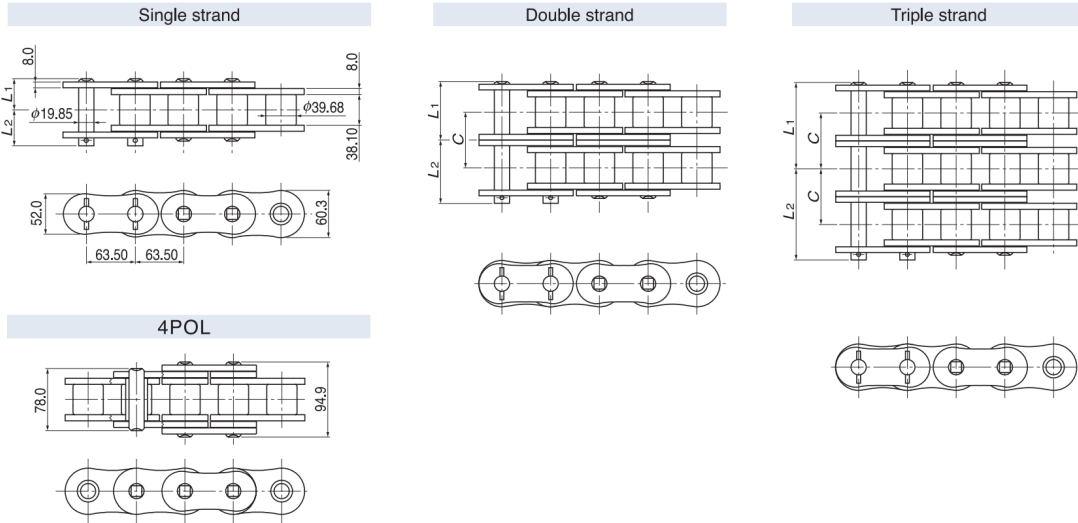
Small Sprocket No. of Teeth	Small Sprocket Max r/min										
	10	25	50	100	150	200	250	300	350	400	450
	A II		B	C							
13	7.58	17.3	32.3	60.2	86.7	112	129	129	129		
14	8.21	18.7	34.9	65.2	93.9	122	145	145	145	145	
15	8.84	20.2	37.7	70.3	101	131	160	160	160	160	
16	9.48	21.6	40.4	75.3	108.5	141	172	177	177	177	
17	10.1	23.1	43.1	80.4	116	150	183	193	193	193	
18	10.8	24.6	45.8	85.5	123	160	195	207	207	207	
19	11.4	26.0	48.6	90.7	131	169	207	219	219	219	
20	12.1	27.5	51.4	95.9	138	179	219	232	232	232	
21	12.7	29.0	54.1	101	146	189	230	244	244	244	
22	13.4	30.5	56.9	106	153	198	242	257	257	257	
23	14.0	32.0	59.7	111	161	208	254	270	270	270	
24	14.7	33.5	62.5	117	168	218	266	282	282	282	
25	15.4	35.0	65.4	122	176	228	278	295	295	295	
26	16.0	36.5	68.2	127	183	237	290	308	308	308	
28	17.4	39.6	73.9	138	199	257	314	343	343	343	343
30	18.7	42.7	79.6	149	214	277	339	380	380	380	380
32	20.0	45.7	85.3	159	229	297	363	419	419	419	419
35	22.1	50.4	94.0	175	253	327	400	472	472	472	472
40	25.5	58.2	108.6	203	292	378	462	545	545	545	545
45	29.0	66.1	123.3	230	331	429	525	619	619	619	619

- Note: 1. Use RS Roller Chains in the high-speed range.
 2. Maximum allowable load when using a four-pitch offset link (OL) is 90% that of the above values.

Multi-strand factor	Number of chain strands	Multi-strand factor	Number of chain strands	Multi-strand factor
	Double strand	1.7	Quintuple strand	3.9
	Triple strand	2.5	Sextuple strand	4.6
	Quadruple strand	3.3	—	—

Lubrication method	A II	Drip lubrication
	B	Oil bath or slinger disc lubrication
	C	Forced pump lubrication

RS200-SUP



TSUBAKI Chain Number	Number of Strands	Pin Length L ₁ +L ₂	Dimensions L ₁	Dimensions L ₂	Transverse Pitch C	Pin Type	Min. Ultimate Strength ANSI Standard kN{kgf}	Minimum Tensile Strength kN{kgf}	Average Tensile Strength kN{kgf}	Maximum Allowable Load kN{kgf}	Approximate Mass kg/m
RS200-SUP-1	1	83.8	39.0	44.8	71.6	Riveting	381.7 {38923}	439 {44800}	505 {51500}	94.1{9600}	17.63
RS200-SUP-2	2	155.5	74.85	80.65			763.4 {77845}	879 {89600}	1010{103000}	160{16320}	34.91
RS200-SUP-3	3	227.2	110.75	116.45			1145.1{116768}	1320{134400}	1520{154500}	235{24000}	52.44
RS200-SUP-4	4	298.9	146.6	152.3			1388.0{141536}	1760{179200}	2020{206000}	311{31680}	69.73
RS200-SUP-5	5	370.6	182.4	188.2			1735.0{176920}	2200{224000}	2530{257500}	367{37440}	87.04
RS200-SUP-6	6	442.3	218.25	224.05			2082.0{212304}	2640{268800}	3030{309000}	433{44160}	94.44

- Note: 1. Number of links per unit = 48
 2. Four-pitch offset links (4POL) are only for single-strand chains.
 3. Maximum allowable load when using a four-pitch offset link (OL) is 90% that of the above values.

RS200-SUP-1 Maximum Kilowatt Ratings Table (kW Ratings for Single Strand Chain)

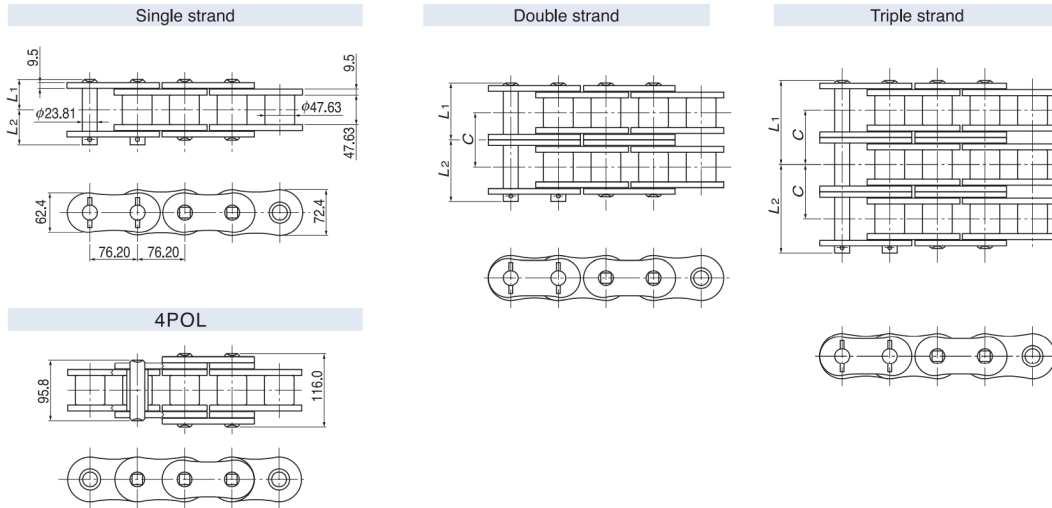
Lubrication Type Small Sprocket No. of Teeth	Small Sprocket Max r/min												
	10	15	20	30	40	50	70	100	150	200	250	300	350
	A II			B				C					
13	12.6	18.2	23.6	33.9	44.0	53.7	72.8	100	144	187	194	194	
14	13.7	19.7	25.5	36.8	47.6	58.2	78.8	109	156	203	211	211	211
15	14.7	21.2	27.5	39.6	51.3	62.7	84.9	117	169	218	234	234	234
16	15.8	22.8	29.5	42.5	55.0	67.3	91.0	126	181	234	258	258	258
17	16.9	24.3	31.5	45.3	58.7	71.8	97.2	134	193	250	283	283	283
18	17.9	25.8	33.5	48.2	62.5	76.4	103	143	205	266	308	308	308
19	19.0	27.4	35.5	51.1	66.2	81.0	110	151	218	282	334	334	334
20	20.1	29.0	37.5	54.0	70.0	85.6	116	160	230	298	355	355	355
21	21.2	30.5	39.5	57.0	73.8	90.2	122	168	242	314	374	374	374
22	22.3	32.1	41.6	59.9	77.6	94.9	128	177	255	330	393	393	393
23	23.4	33.7	43.6	62.8	81.4	99.5	135	186	268	347	412	412	412
24	24.5	35.3	45.7	65.8	85.2	104	141	194	280	363	432	432	432
25	25.6	36.9	47.7	68.8	89.1	109	147	203	293	379	451	451	451
26	26.7	38.4	49.8	71.7	92.9	114	154	212	305	396	471	471	471

- Note: 1. Use RS Roller Chains in the high-speed range.
 2. Maximum allowable load when using a four-pitch offset link (OL) is 90% that of the above values.

Multi-strand factor	Number of chain strands	Multi-strand factor	Number of chain strands	Multi-strand factor
	Double strand	1.7	Quintuple strand	3.9
	Triple strand	2.5	Sextuple strand	4.6
	Quadruple strand	3.3	-	-

Lubrication method	A II	Drip lubrication
	B	Oil bath or slinger disc lubrication
	C	Forced pump lubrication

RS240-SUP



TSUBAKI Chain Number	Number of Strands	Pin Length L ₁ +L ₂	Dimensions L ₁	Dimensions L ₂	Transverse Pitch C	Pin Type	Min. Ultimate Strength ANSI Standard kN{kgf}	Minimum Tensile Strength kN{kgf}	Average Tensile Strength kN{kgf}	Maximum Allowable Load kN{kgf}	Approximate Mass kg/m
RS240-SUP-1	1	103.4	47.9	55.5	87.8	Riveting	550.4 {56125}	639 {65200}	735 {75000}	132{13500}	25.63
RS240-SUP-2	2	191.3	91.9	99.4			1100.8{112250}	1280{130400}	1470{150000}	225{22950}	50.88
RS240-SUP-3	3	279.0	135.85	143.15			1651.2{168376}	1920{195600}	2210{225000}	331{33750}	76.11
RS240-SUP-4	4	367.1	179.8	187.3			2001.6{204108}	2560{260800}	2940{300000}	437{44550}	101.4
RS240-SUP-5	5	455.0	223.75	231.25			2502.0{255135}	3200{326000}	3680{375000}	516{52650}	126.6
RS240-SUP-6	6	542.8	267.7	275.1			3002.4{306162}	3840{391200}	4410{450000}	609{62100}	151.9

- Note: 1. Number of links per unit = 40
 2. Four-pitch offset links (4POL) are only for single-strand chains.
 3. Maximum allowable load when using a four-pitch offset link (OL) is 90% that of the above values.

RS240-SUP-1 Maximum Kilowatt Ratings Table (kW Ratings for Single Strand Chain)

Lubrication Type Small Sprocket No. of Teeth	Small Sprocket Max r/min																
	5	10	15	20	25	30	40	50	60	80	100	125	150	175	200	250	300
	A II			B			C										
13	11.4	21.3	30.6	39.7	48.5	57.1	74.0	90.5	107	138	169	206	243	276	276	276	276
14	12.3	23.0	33.2	43.0	52.5	61.9	80.2	98.0	115	150	183	224	263	303	308	308	308
15	13.3	24.8	35.7	46.3	56.6	66.7	86.4	106	124	161	197	241	284	326	341	341	341
16	14.3	26.6	38.3	49.6	60.7	71.5	92.6	113	133	173	211	258	304	350	376	376	376
17	15.2	28.4	40.9	53.0	64.8	76.3	98.9	121	142	185	226	276	325	373	412	412	412
18	16.2	30.2	43.5	56.4	68.9	81.2	105	129	151	196	240	293	346	397	448	449	449
19	17.2	32.0	46.1	59.8	73.0	86.1	112	136	161	208	254	311	366	421	475	483	483
20	18.1	33.8	48.7	63.2	77.2	91.0	118	144	170	220	269	329	387	445	502	510	510
21	19.1	35.7	51.4	66.6	81.4	95.9	124	152	179	232	283	346	408	469	529	538	538
22	20.1	37.5	54.0	70.0	85.6	101	131	160	188	244	298	364	429	493	556	565	565
23	21.1	39.4	56.7	73.4	89.8	106	137	168	197	256	313	382	450	517	583	593	593
24	22.1	41.2	59.4	76.9	94.0	111	144	175	207	268	327	400	472	542	611	621	621
25	23.1	43.1	62.0	80.4	98.2	115.8	150	183	216	280	342	418	493	566	638	649	649
26	24.1	44.9	64.7	83.8	102	121	156	191	225	292	357	436	514	591	666	677	677

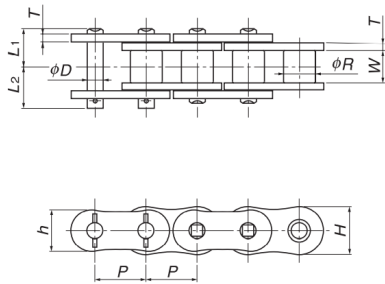
- Note: 1. Use RS Roller Chains in the high-speed range.
 2. Maximum allowable load when using a four-pitch offset link (OL) is 90% that of the above values.

Multi-strand factor	Number of chain strands	Multi-strand factor	Number of chain strands	Multi-strand factor
	Double strand	1.7	Quintuple strand	3.9
	Triple strand	2.5	Sextuple strand	4.6
	Quadruple strand	3.3	-	-

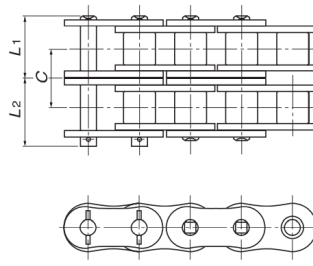
Lubrication method	A II	Drip lubrication
	B	Oil bath or slinger disc lubrication
	C	Forced pump lubrication

RS-SUP-H

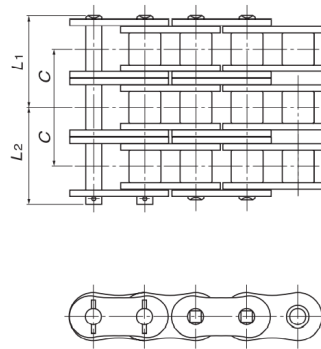
Single strand



Double strand



Triple strand



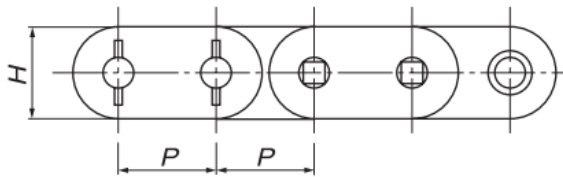
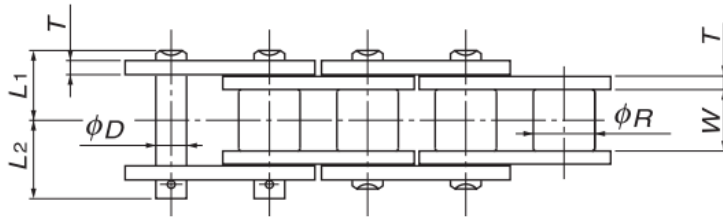
TSUBAKI Chain Number	Number of Strands	Pitch P	Roller Diameter R	Inner Width of Inner Link W	Plates			Pins			Transverse Pitch C	Minimum Tensile Strength kN{kgf}	Average Tensile Strength kN{kgf}	Maximum Allowable Load Tension kN{kgf}	Approximate Mass kg/m
					Thickness T	Width H	Width h	Diameter D	L ₁	L ₂					
RS80-SUP-H-1	1								18.3	20.9	–	85.3{ 8700}	98.1{ 10000}	20.6{ 2100}	3.29
RS80-SUP-H-2	2	25.40	15.88	15.88	4.0	24.1	20.8	7.94	34.6	37.2	32.6	171 { 17400}	196 { 20000}	35.0{ 3570}	6.52
RS80-SUP-H-3	3								50.95	53.55	32.6	256 { 26100}	294 { 30000}	51.5{ 5250}	9.75
RS100-SUP-H-1	1								21.8	24.5	–	127 { 12900}	145 { 14800}	32.4{ 3300}	4.88
RS100-SUP-H-2	2	31.75	19.05	19.05	4.8	30.1	26.0	9.54	41.4	44.1	39.1	253 { 25800}	290 { 29600}	55.0{ 5610}	9.51
RS100-SUP-H-3	3								61.0	63.6	39.1	380 { 38700}	435 { 44400}	80.9{ 8250}	14.14
RS120-SUP-H-1	1								26.95	30.55	–	171 { 17400}	196 { 20000}	42.2{ 4300}	6.94
RS120-SUP-H-2	2	38.10	22.23	25.40	5.6	36.2	31.2	11.11	51.4	55.0	48.9	341 { 34800}	392 { 40000}	71.7{ 7310}	13.51
RS120-SUP-H-3	3								75.85	79.55	48.9	512 { 52200}	588 { 60000}	105 { 10750}	20.09
RS140-SUP-H-1	1								28.9	33.1	–	222 { 22600}	255 { 26000}	56.9{ 5800}	8.88
RS140-SUP-H-2	2	44.45	25.40	25.40	6.4	42.2	36.4	12.71	54.95	59.5	52.2	443 { 45200}	510 { 52000}	96.7{ 9860}	17.38
RS140-SUP-H-3	3								81.15	85.25	52.2	665 { 67800}	765 { 78000}	142 { 14500}	25.88
RS160-SUP-H-1	1								33.95	38.45	–	281 { 28700}	324 { 33000}	73.5{ 7500}	11.72
RS160-SUP-H-2	2	50.80	28.58	31.75	7.15	48.2	41.6	14.29	64.9	69.6	61.9	563 { 57400}	647 { 66000}	125 { 12750}	22.97
RS160-SUP-H-3	3								95.95	100.45	61.9	844 { 86100}	971 { 99000}	184 { 18750}	34.22
RS200-SUP-H-1	1								42.9	48.1	–	520 { 53000}	598 { 61000}	100 { 10200}	19.68
RS200-SUP-H-2	2	63.50	39.68	38.10	9.5	60.3	52.0	19.85	82.05	87.3	78.3	1040 { 106000}	1200 { 122000}	170 { 17340}	38.48
RS200-SUP-H-3	3								121.25	126.55	78.3	1560 { 159000}	1790 { 183000}	250 { 25500}	57.29
RS240-SUP-H-1	1								54.8	62.3	–	802 { 81800}	922 { 94000}	139 { 14200}	30.47
RS240-SUP-H-2	2	76.20	47.63	47.63	12.7	72.4	62.4	23.81	105.3	112.9	101.2	1600 { 163600}	1840 { 188000}	237 { 24140}	59.77
RS240-SUP-H-3	3								156.05	163.55	101.2	2410 { 245400}	2770 { 282000}	348 { 35500}	89.09

Size	RS80 SUP-H	RS100 SUP-H	RS120 SUP-H	RS140 SUP-H	RS160 SUP-H	RS200 SUP-H	RS240 SUP-H
Number of Links Per Unit	120	96	80	68	60	48	40

Notes for use

- Select chains and sprockets as per the "Allowable Load Selection Method".
- Offset links are not available due to the super heavy-duty nature of transmission. Use an even number of links.
- Use drip lubrication, oil bath or splash lubrication, or forced pump lubrication.
- RS Roller Chain sprockets can be used only with single-strand chains. Steel sprockets cannot be used. Use sprockets made of S35C or higher carbon steel. Sprockets with lower teeth number must also have hardened teeth. Check key strength, etc.

RF-US



TSUBAKI Chain Number	Pitch P	Roller Diameter R	Inner Width of Inner Link W	Plates		Pins			Minimum Tensile Strength kN{kgf}	Average Tensile Strength kN{kgf}	Maximum Allowable Load Tension kN{kgf}	Approximate Mass kg/m	
				Thickness T	Width H	Diameter D	L ₁ + L ₂	L ₁					L ₂
RF100-US-1	31.75	19.05	19.05	4.8	30.1	10.32	47.7	22.35	25.35	149{15200}	172 {17500}	39.2{4000}	5.07
RF120-US-1	38.10	22.23	25.40	5.6	36.2	12.28	59.1	27.55	31.55	213{21700}	245 {25000}	53.9{5500}	7.22
RF140-US-1	44.45	25.40	25.40	6.4	42.2	13.97	63.7	29.5	34.2	273{27800}	314 {32000}	63.7{6500}	9.24
RF160-US-1	50.80	28.58	31.75	7.1	48.2	15.62	74.7	34.5	40.2	341{34800}	392 {40000}	85.3{8700}	12.19
RF200-US-1	63.50	39.68	38.10	9.5	60.3	20.41	93.9	42.95	50.95	580{59100}	667 {68000}	108{11000}	20.47
RF240-US-1	76.20	47.63	47.63	12.7	72.4	24.73	119.7	54.8	64.9	853{87000}	981{100000}	151{15400}	31.69

Notes for use

- Select chains and sprockets as per the "Allowable Load Selection Method".
- Offset links are not available due to the super heavy-duty nature of transmission. Use an even number of links.
- Use drip lubrication, oil bath or splash lubrication, or forced pump lubrication.
- RS Roller Chain sprockets can be used only with single-strand chains. Steel sprockets cannot be used. Use sprockets made of S35C or higher carbon steel. Sprockets with lower teeth number must also have hardened teeth. Check key strength, etc.
- Check key strength, etc.
- Multi-strand chains are not available. Consider other heavy-duty chains if required.