Innovation in Motion
TSUBAKI

NEW

TSUBAKI
Heavy Duty Drive Chains & Sprockets

Philosophy

One hundred years of fundamental technology, and the endless pursuit of new value.

Tsubakimoto Chain has worked tirelessly on improving chain performance since our founding in 1917. We were the first Japanese factory to be accredited by Japan Industrial Standards (JIS) for roller chain in 1953. We dubbed that roller chain our first generation chain, and every decade since we have made major leaps in performance up to the 2006 launch of our G7 Series, the world's highest quality roller chain. To celebrate our 100th anniversary, we will be launching our next generation G8 Series, the next evolution of our chain line.

History of RS Roller Chain

1917	Founding	
1953	612 Series	JIS accredited
1964	NA Series	2x kW ratings
1969	53 Series	15% higher tensile strength, global quality
1976	60 Series	7% higher tensile strength, 25% higher kW ratings, world's top quality
1985	70 Series	2x wear life, less initial elongation
1995	80 Series	M-type connecting link provides 25% higher kW ratings, 30% increased wear life
2006	G7 Series	33% increased kW ratings, 2x wear life
2009	G7-EX Series	Expanded G7 size range
2016	**G8 Series**	**Centennial model**

As a manufacturing company, Tsubakimoto Chain continues to develop products that adapt to global needs with a century of chain manufacturing know-how and contribute to energy savings, labor savings, and better efficiency around the world.

Leonardo da Vinci, founder of the roller chain (1452–1519)
Leonardo da Vinci, the genius of the Renaissance, devised the prototype of a roller chain that today is widely used as a drive chain. His foresight and advanced ideas are revealed in his notebooks, which contain sketches of an object that looks remarkably like a modern chain. The photo shows a portrait of da Vinci, made entirely out of link plates, on display in the main lobby of Tsubakimoto Chain's Kyotanabe Plant.

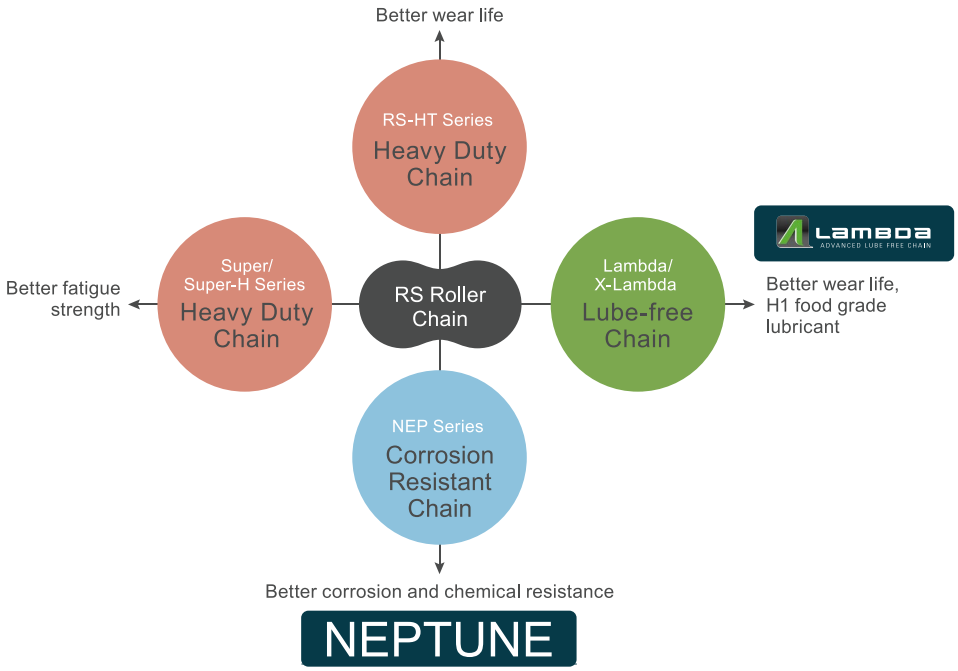
The Start of a New Era

100th Anniversary Model

TSUBAKI G8 SERIES

The rebirth of the drive chain,
with improved quality and performance.

PRODUCT MAP

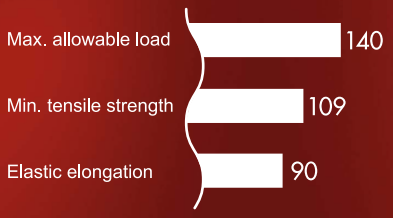


The Ultimate in Strength

G8 Generation8

Super Chain

5–10% higher maximum allowable load than the previous series!



Note: With RS Roller Chain as benchmark (100).

■ Available sizes: RS80–RS240, up to sextuple strand

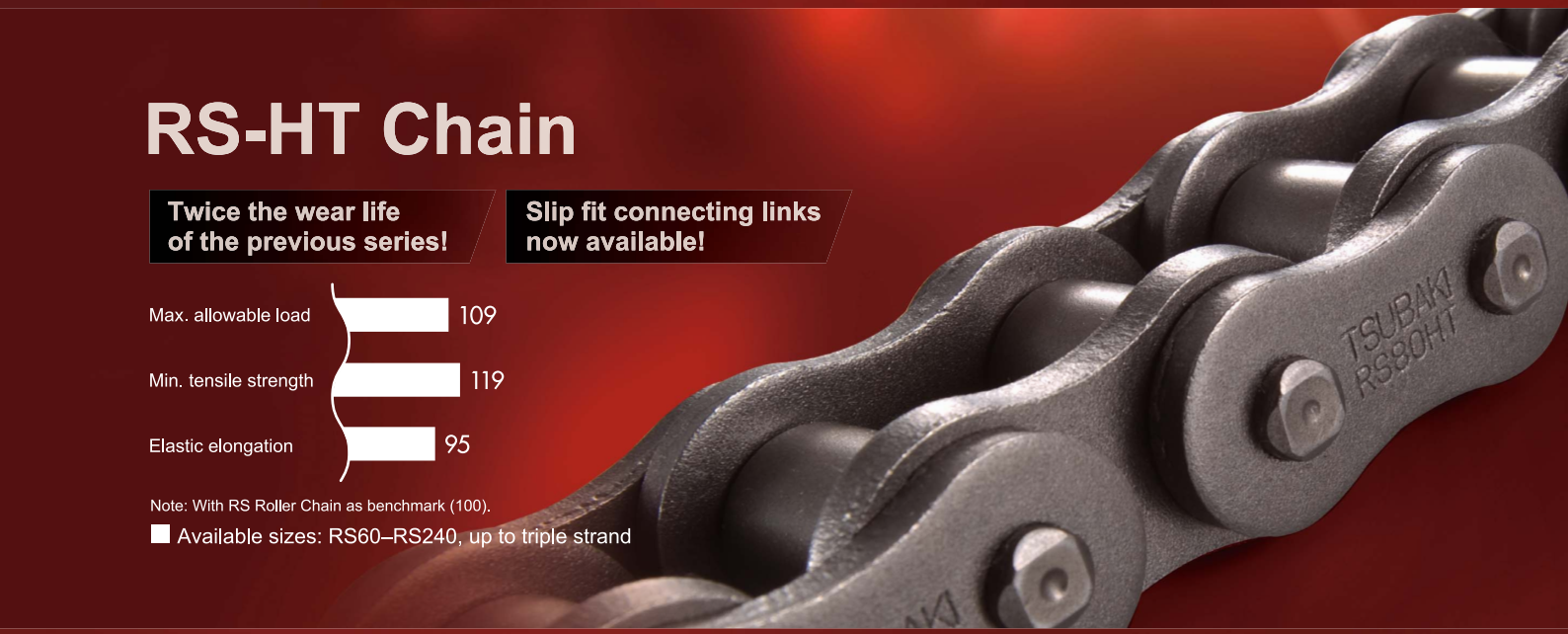
RS-HT Chain

Twice the wear life of the previous series!

Slip fit connecting links now available!

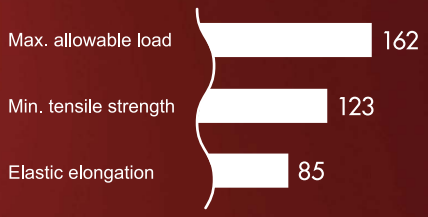
Note: With RS Roller Chain as benchmark (100).

■ Available sizes: RS60–RS240, up to triple strand



Super-H Chain

20% higher max. allowable load than the previous series!



Note: With RS Roller Chain as benchmark (100).

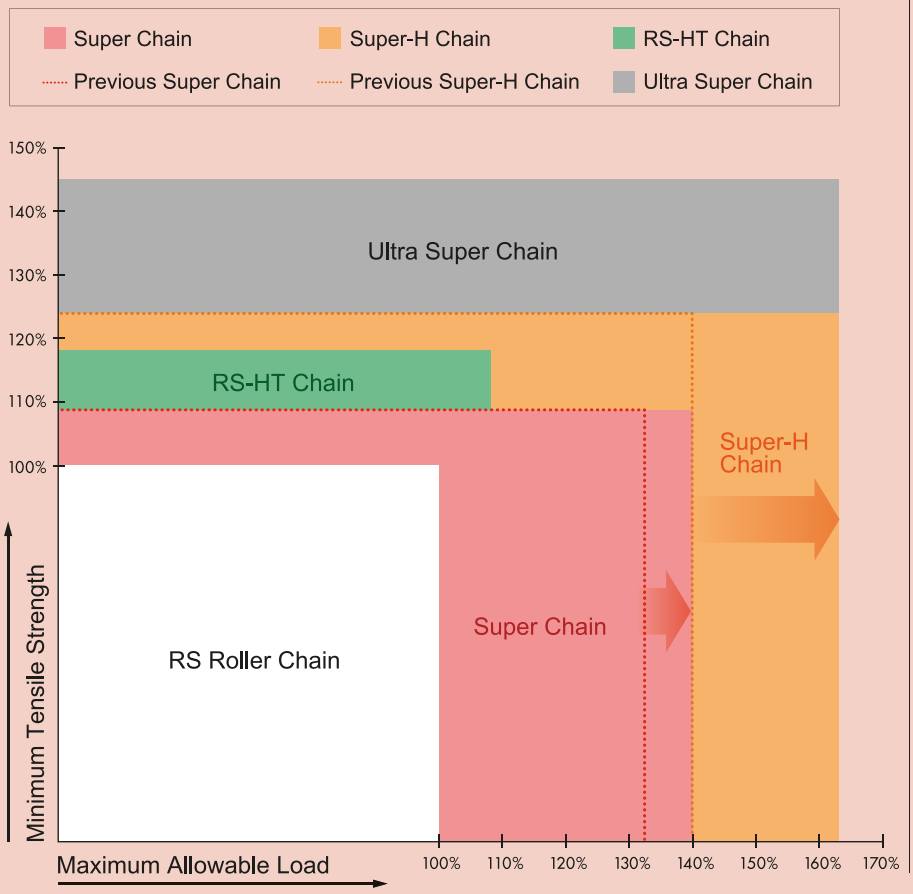
■ Available sizes: RS80–RS240, up to triple strand

The pursuit of higher performance has helped us created a stronger, longer lasting chain. Choose the model that best suits your needs.

Heavy Duty Drive Chain has a higher maximum allowable load and higher minimum tensile strength than standard RS Roller Chain.

Comparison of min. tensile strengths and max. allowable loads

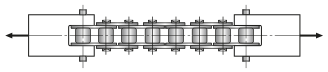
Note: With RS Roller Chain min. tensile strength and max. allowable load as benchmark (100).



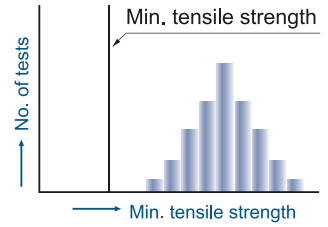
Minimum Tensile Strength

Five or more links of a roller chain are attached to jigs on either side (as shown in the image below) and then pulled until breakage. This test is conducted numerous times, and the minimum value statistically derived is the minimum tensile strength. Any roller chain, attached to jigs on either side and then pulled until breakage, that breaks at a load lower than the minimum tensile strength is considered non-conforming.

Tensile strength test



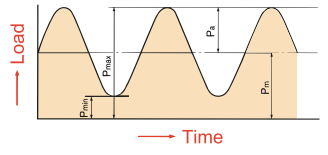
Relationship between test results and min. tensile strength



Max. Allowable Load & Fatigue Strength

A roller chain's maximum allowable load is the lower limit of its fatigue strength (except for stainless steel chains). A roller chain will not suffer fatigue breakage at a load lower than this value, even if the load is repeatedly applied.

Concept of Fatigue Load



Chain Numbering Example

Super Chain

[Base chain]

RS80 - SUP - 1 - M

- SUP: Super Chain
- M: F : Press fit connecting link; M: Slip fit connecting link

[With connecting link]

RS80 - SUP - 1 - FJL

- FJL: F : Press fit connecting link; M: Slip fit connecting link

RS-HT Chain

[Base chain]

RS80 - HT - 1 - M

- HT: RS-HT Chain
- M: Blank: Press fit connecting link; M: Slip fit connecting link

[With connecting link]

RS80 - HT - 1 - JL

- JL: JL: Press fit connecting link; MJL: Slip fit connecting link

Super-H Chain

[Base chain]

RS80 - SUP - H - 1

- SUP - H: Super-H Chain

[With connecting link]

RS80 - SUP - H - 1 - JL

- JL: Press fit connecting link

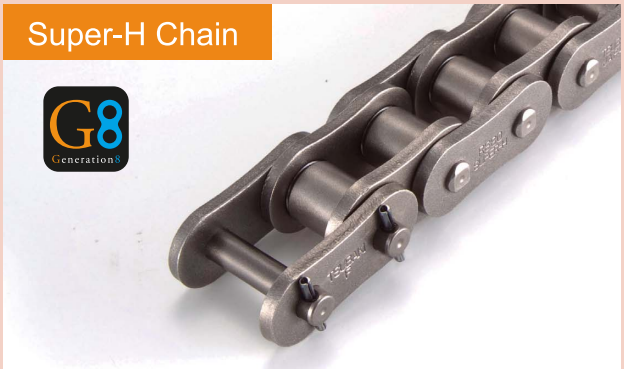
Heavy Duty Chains provide the following benefits.

Super-H Chain

For example…

RS80-SUP-H-1 Super-H Chain has the same maximum allowable load as RS80-2-RP RS Roller Chain.
So, you can replace double strand RS Roller Chain with single strand Super-H Chain, saving you space.

Super-H Chain



RS80-SUP-H-1

Max. Allowable Load	25.0kN

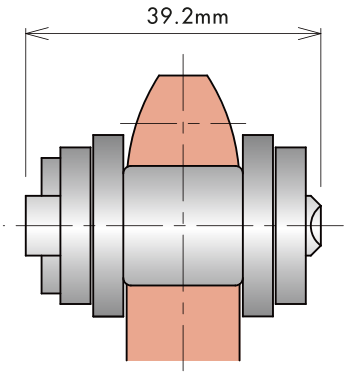
Double strand RS Roller Chain

RS80-2-RP

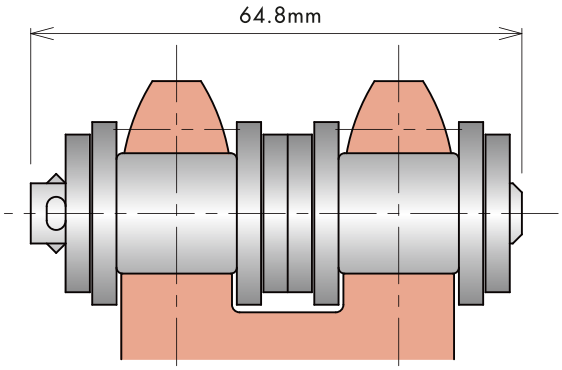
Max. Allowable Load	25.0kN

A smaller chain means a smaller sprocket.

RS Sprocket (for single strand chains)



RS Sprocket (for double strand chains)



A small chain and sprocket means more compact parts for your equipment!

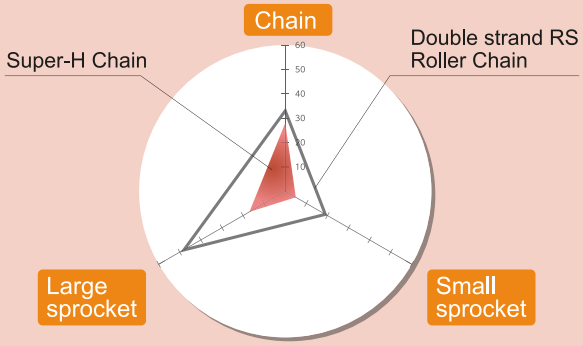
Motors, frames, etc.

You can reduce costs by using smaller chains and sprockets.

Cost Comparison

Note: With total costs of double strand RS Roller Chain as benchmark (100).

	Super-H Chain	Double Strand RS Roller Chain
Chain	28	33
Small sprocket	5	19
Large sprocket	17	48
Total	50	100



Selection Conditions

Chain size: RS80 Center distance between shafts: 800mm Small sprocket: 18T Large sprocket: 36T

Reduce costs 50% with the chain and sprocket

Notes from the Developer

I extensively reviewed all the past specifications in making the G8 Series Heavy Duty Chain. Especially, our main goal with the Super-H Chain was finding a way to somehow improve fatigue strength without changing the chain's basic dimensions. I reviewed how each component was formed, but one key point was adding Tsubaki's original, patented ring coining* to the inner link plates. This creates plastic deformation around the link plate holes, which maintains the precision of the plate holes and in turn influences the chain's quality and performance. In changing the formation methods we also introduced new equipment that could provide a product with better performance and reliability. Check out Tsubaki's new G8 Series Heavy Duty Drive Chain to see how it can help make your equipment more compact and reduce initial costs.

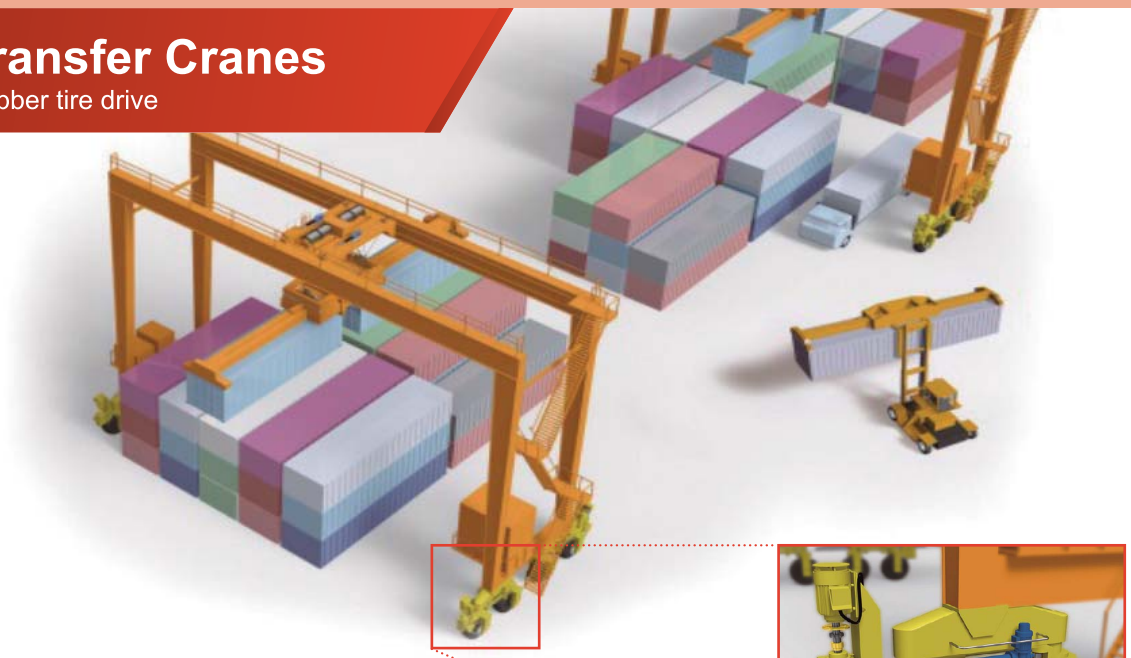
Ring coining

*Ring coining creates an area of plastic deformation around the link plate hole, thereby creating residual stress.

Item \ Chain	Super Chain	RS-HT Chain	Super-H Chain
Features	● High kW ratings ● High shock absorption properties ● Users can go one size down from RS Roller Chain	● High kW ratings ● High tensile strength ● High shock absorption properties	● High fatigue strength ● High tensile strength ● High shock absorption properties ● Same max. allowable load as double strand RS Roller Chain
Offset links	● Can use 4POL with single strand chains only.	● No offset links available. Use an even number of links.	
Sprockets	● Can use RS Roller Chain sprockets in single and multi strand configurations.	● Can use RS Roller Chain sprockets in single strand configurations. ● Cannot use RS Roller Chain sprockets with multi strand configurations for RS-HT and Super-H chains.	
	● Quench harden the small sprocket teeth. ● Use a carbon steel sprocket with a rating of S35C or higher. ● Tsubaki provides Tough Tooth sprockets ideal for use with Heavy Duty Chain. See pages 17–18 of this catalog for more information.		

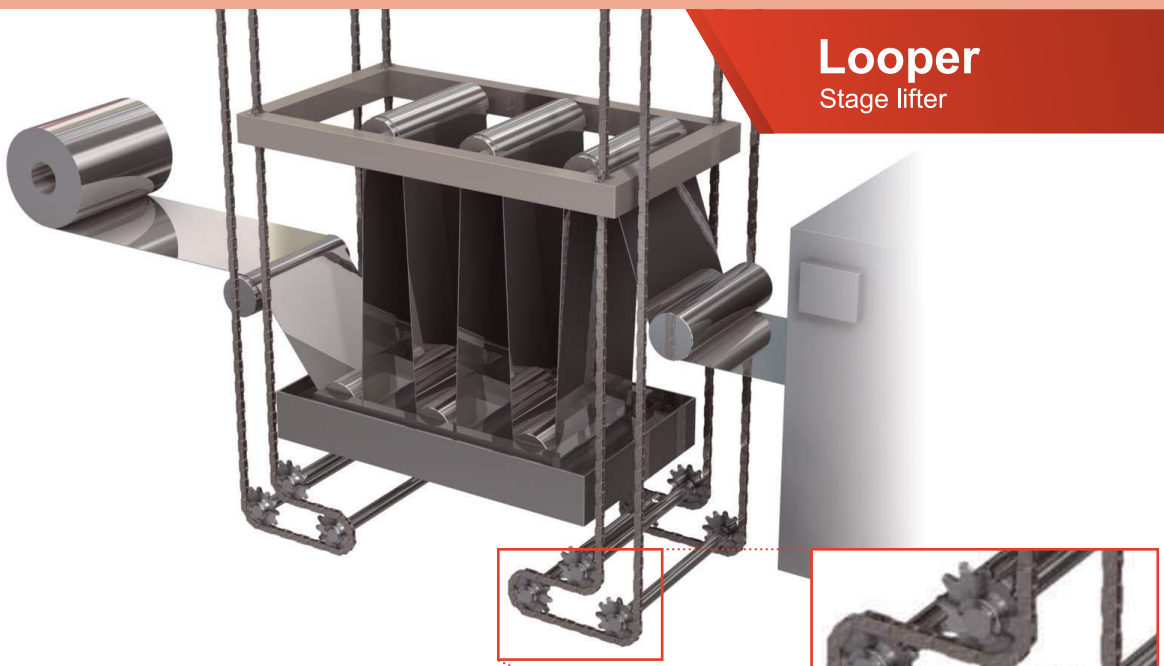
Applications

Transfer Cranes
Rubber tire drive



Chain used	Super Chain
Reason	High kW ratings

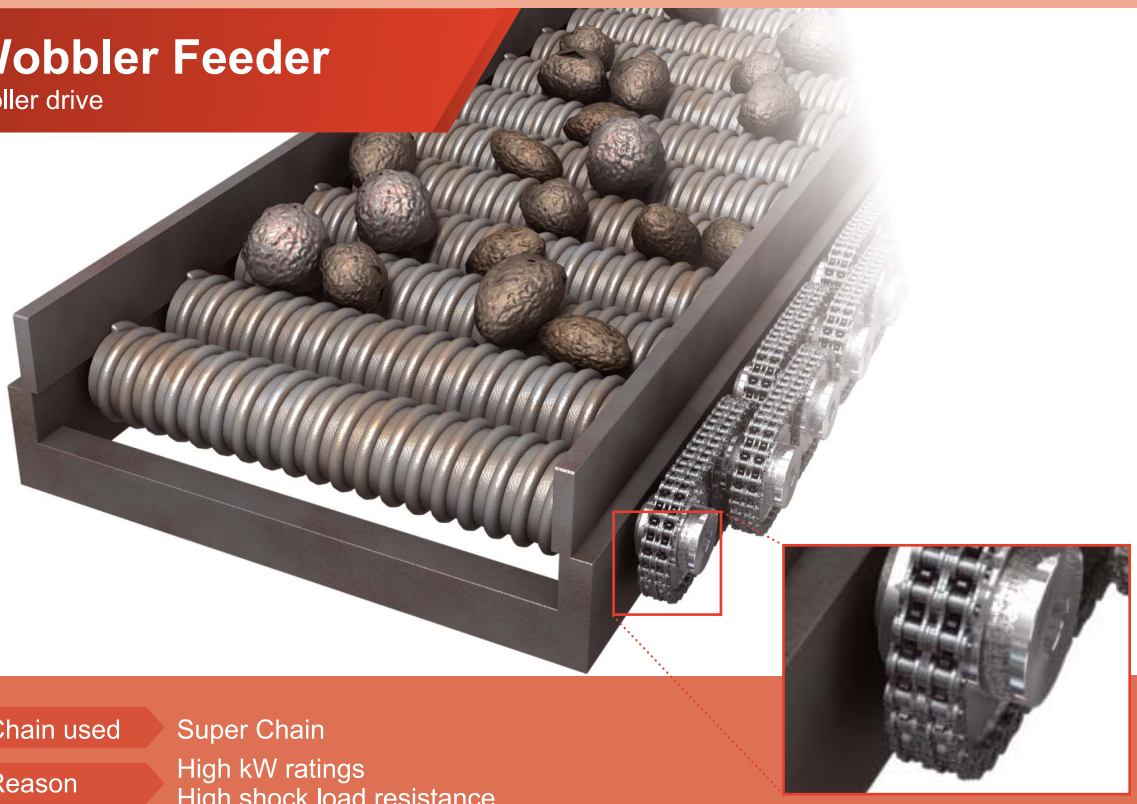
Looper
Stage lifter



Chain used	Super-H Chain
Reason	High minimum tensile strength

Wobbler Feeder

Roller drive



Chain used	Super Chain
Reason	High kW ratings High shock load resistance

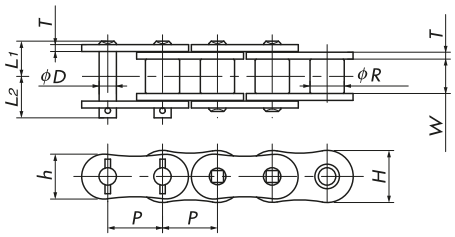
Cultivator

Rotary drive

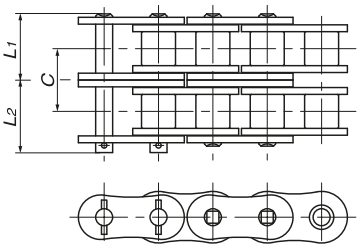
Chain used	Super-H Chain
Reason	High kW ratings Space saving

Super Chain

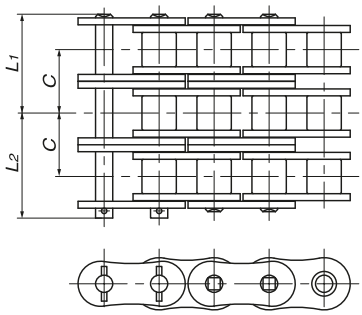
Single Strand



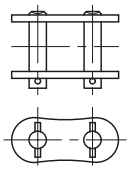
Double Strand



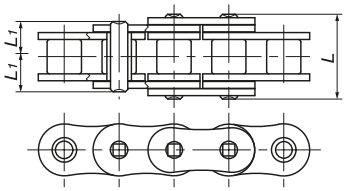
Triple Strand



JL



4POL



Connecting link
Slip fit connecting links and press fit connecting links available.

TSUBAKI Chain Number	Pitch *P*	Roller Diameter *R*	Inner Width of Inner Link *W*	Plates			Pin Diameter *D*	4-Pitch Offset Link Pin Length *L*
				Thickness *T*	Height *H*	Height *h*		
RS80-SUP-1 RS80-SUP-2 RS80-SUP-3	25.40	15.88	15.88	3.2	24.1	20.8	7.94	39.3
RS100-SUP-1 RS100-SUP-2 RS100-SUP-3	31.75	19.05	19.05	4.0	30.1	26.0	9.54	48.0
RS120-SUP-1 RS120-SUP-2 RS120-SUP-3	38.10	22.23	25.40	4.8	36.2	31.2	11.11	59.9
RS140-SUP-1 RS140-SUP-2 RS140-SUP-3	44.45	25.40	25.40	5.6	42.2	36.4	12.71	65.7
RS160-SUP-1 RS160-SUP-2 RS160-SUP-3	50.80	28.58	31.75	6.4	48.2	41.6	14.29	77.2
RS180-SUP-1 RS180-SUP-2 RS180-SUP-3	57.15	35.71	35.72	7.15	54.2	46.8	17.46	86.4
RS200-SUP-1 RS200-SUP-2 RS200-SUP-3	63.50	39.68	38.10	8.0	60.3	52.0	19.85	94.9
RS240-SUP-1 RS240-SUP-2 RS240-SUP-3	76.20	47.63	47.63	9.5	72.4	62.4	23.81	116.0

TSUBAKI Chain Number	No. of Strands	Pin Length *L1+L2*	Dimensions *L1*	Dimensions *L2*	Transverse Pitch *C*	Minimum Tensile Strength kN{kgf}	Average Tensile Strength kN{kgf}	Maximum Allowable Load kN{kgf}	Approximate Mass kg/m	Links per Unit
RS80-SUP-1	1	35.5	16.25	19.25		74.2{ 7570}	85.3{ 8700}	20.1{ 2050}	2.81	
RS80-SUP-2	2	64.8	30.9	33.9	29.3	148 { 15140}	171 { 17400}	34.2{ 3490}	5.62	120
RS80-SUP-3	3	94.1	45.6	48.5		223 { 22710}	256 { 26100}	50.3{ 5130}	8.40	
RS100-SUP-1	1	42.6	19.75	22.85		111 { 11300}	127 { 13000}	32.4{ 3300}	4.25	
RS100-SUP-2	2	78.5	37.7	40.8	35.8	222 { 22600}	255 { 26000}	55.0{ 5610}	8.38	96
RS100-SUP-3	3	114.4	55.65	58.75		332 { 33900}	382 { 39000}	80.9{ 8250}	12.57	
RS120-SUP-1	1	53.8	24.9	28.9		162 { 16500}	186 { 19000}	42.2{ 4300}	6.3	
RS120-SUP-2	2	99.2	47.6	51.6	45.4	324 { 33000}	373 { 38000}	71.7{ 7310}	12.44	80
RS120-SUP-3	3	144.8	70.4	74.4		485 { 49500}	559 { 57000}	105 {10750}	18.64	
RS140-SUP-1	1	58.6	26.9	31.7		213 { 21700}	245 { 25000}	56.9{ 5800}	8.04	
RS140-SUP-2	2	107.5	51.35	56.15	48.9	426 { 43400}	490 { 50000}	96.7{ 9860}	15.92	68
RS140-SUP-3	3	156.6	75.85	80.75		638 { 65100}	735 { 75000}	142 {14500}	23.84	
RS160-SUP-1	1	68.7	31.85	36.85		273 { 27800}	314 { 32000}	73.5{ 7500}	10.79	
RS160-SUP-2	2	127.3	61.15	66.15	58.5	545 { 55600}	628 { 64000}	125 {12750}	21.43	60
RS160-SUP-3	3	185.9	90.45	95.45		818 { 83400}	941 { 96000}	184 {18750}	32.10	
RS180-SUP-1	1	78.1	35.65	42.45		358 { 36500}	412 { 42000}	85.7{ 8740}	14.23	
RS180-SUP-2	2	144.1	68.75	75.35	65.8	716 { 73000}	824 { 84000}	146 {14860}	28.08	54
RS180-SUP-3	3	210.2	101.7	108.5		1070 {109500}	1240 {126000}	214 {21850}	40.56	
RS200-SUP-1	1	83.8	39.0	44.8		439 { 44800}	505 { 51500}	100 {10200}	17.63	
RS200-SUP-2	2	155.5	74.85	80.65	71.6	879 { 89600}	1010 {103000}	170 {17340}	34.91	48
RS200-SUP-3	3	227.2	110.75	116.45		1320 {134400}	1520 {154500}	250 {25500}	52.44	
RS240-SUP-1	1	103.4	47.9	55.5		639 { 65200}	735 { 75000}	139 {14200}	25.63	
RS240-SUP-2	2	191.3	91.9	99.4	87.8	1280 {130400}	1470 {150000}	237 {24140}	50.88	40
RS240-SUP-3	3	279.0	135.85	143.15		1920 {195600}	2210 {225000}	348 {35500}	76.11	

Note: 1. Pins are riveted.
2. Four-pitch offset links (4POL) available for single strand only.
3. Maximum allowable load when using a four-pitch offset link (4POL) is 90% that of the above values.

Kilowatt Ratings Tables RS80SUP – RS140-SUP

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

Small Sprocket No. of Teeth / Lubrication Type	Small Sprocket Max rpm											
	10	25	50	100	150	200	300	400	500	600	700	800
	AII			B			C					
13	1.08	2.46	4.59	8.57	12.3	16.0	23.0	29.8	32.1	32.1	32.1	
14	1.17	2.67	4.97	9.28	13.4	17.3	25.0	32.3	35.9	35.9	35.9	
15	1.26	2.87	5.36	10.0	14.4	18.7	26.9	34.8	39.8	39.8	39.8	
16	1.35	3.08	5.75	10.7	15.4	20.0	28.8	37.3	43.8	43.8	43.8	
17	1.44	3.29	6.14	11.4	16.5	21.4	30.8	39.9	48.0	48.0	48.0	
18	1.53	3.50	6.53	12.2	17.5	22.7	32.7	42.4	51.4	51.4	51.4	
19	1.62	3.71	6.92	12.9	18.6	24.1	34.7	45.0	54.4	54.4	54.4	
20	1.70	3.92	7.31	13.6	19.7	25.5	36.7	47.5	57.5	57.5	57.5	
21	1.79	4.13	7.71	14.4	20.7	26.8	38.7	50.1	60.7	60.7	60.7	
22	1.87	4.34	8.11	15.1	21.8	28.2	40.7	52.7	63.8	63.8	63.8	
23	1.96	4.56	8.50	15.9	22.9	29.6	42.7	55.3	66.9	66.9	66.9	
24	2.04	4.77	8.90	16.6	23.9	31.0	44.7	57.9	70.1	70.1	70.1	
25	2.13	4.99	9.31	17.4	25.0	32.4	46.7	60.5	73.2	73.2	73.2	
26	2.21	5.20	9.71	18.1	26.1	33.8	48.7	63.1	76.4	76.4	76.4	
28	2.38	5.64	10.5	19.6	28.3	36.6	52.7	68.3	83.0	83.0	83.0	83.0
30	2.55	6.07	11.3	21.1	30.5	39.5	56.8	73.6	90.0	92.1	92.1	92.1
32	2.72	6.51	12.1	22.7	32.7	42.3	60.9	78.9	96.5	101	101	101
35	2.98	7.17	13.4	25.0	36.0	46.6	67.1	87.0	106	116	116	116
40	3.40	8.28	15.5	28.8	41.6	53.8	77.5	101	123	137	137	137
45	3.83	9.41	17.6	32.8	47.2	61.1	88.1	114	139	156	156	156

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

Small Sprocket No. of Teeth / Lubrication Type	Small Sprocket Max rpm										
	10	25	50	100	150	200	300	400	500	600	700
	AII			B	C						
13	2.17	4.96	9.25	17.3	24.9	32.2	46.4	48.9	48.9		
14	2.35	5.37	10.0	18.7	26.9	34.9	50.3	54.0	54.0	54.0	
15	2.54	5.79	10.8	20.2	29.0	37.6	54.2	59.9	59.9	59.9	
16	2.72	6.20	11.6	21.6	31.1	40.3	58.1	66.0	66.0	66.0	
17	2.90	6.62	12.4	23.1	33.2	43.0	62.0	72.3	72.3	72.3	
18	3.09	7.05	13.1	24.5	35.3	45.8	66.0	78.8	78.8	78.8	
19	3.26	7.47	13.9	26.0	37.5	48.5	69.9	85.4	85.4	85.4	
20	3.43	7.90	14.7	27.5	39.6	51.3	73.9	91.8	91.8	91.8	
21	3.60	8.32	15.5	29.0	41.7	54.1	77.9	96.8	96.8	96.8	
22	3.77	8.75	16.3	30.5	43.9	56.9	81.9	102	102	102	
23	3.94	9.18	17.1	32.0	46.1	59.7	85.9	107	107	107	
24	4.11	9.61	17.9	33.5	48.2	62.5	90.0	112	112	112	
25	4.29	10.1	18.7	35.0	50.4	65.3	94.0	117	117	117	
26	4.46	10.5	19.6	36.5	52.6	68.1	98.1	122	122	122	
28	4.80	11.4	21.2	39.5	57.0	73.8	106	132	132	132	
30	5.14	12.2	22.8	42.6	61.4	79.5	115	142	142	142	
32	5.49	13.1	24.5	45.7	65.8	85.2	123	153	153	153	
35	6.00	14.5	27.0	50.3	72.5	93.9	135	170	170	170	170
40	6.86	16.7	31.1	58.1	83.7	108	156	202	207	207	207
45	7.72	19.0	35.4	66.0	95.1	123	177	230	247	247	247

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

Small Sprocket No. of Teeth / Lubrication Type	Small Sprocket Max rpm									
	10	25	50	100	150	200	300	400	500	600
	AII		B		C					
13	3.40	7.75	14.5	27.0	38.9	50.4	72.5	73.5	73.5	
14	3.68	8.40	15.7	29.2	42.1	54.6	78.6	82.2	82.2	
15	3.97	9.05	16.9	31.5	45.4	58.8	84.7	91.2	91.2	
16	4.25	9.70	18.1	33.8	48.6	63.0	90.8	100	100	
17	4.54	10.4	19.3	36.1	51.9	67.3	96.9	110	110	
18	4.82	11.0	20.6	38.4	55.2	71.6	103	118	118	
19	5.09	11.7	21.8	40.7	58.6	75.9	109	125	125	
20	5.36	12.3	23.0	43.0	61.9	80.2	116	132	132	
21	5.63	13.0	24.3	45.3	65.2	84.5	122	139	139	
22	5.90	13.7	25.5	47.6	68.6	88.9	128	146	146	
23	6.16	14.4	26.8	50.0	72.0	93.3	134	153	153	
24	6.43	15.0	28.0	52.3	75.4	97.6	141	160	160	
25	6.70	15.7	29.3	54.7	78.8	102	147	168	168	
26	6.97	16.4	30.6	57.1	82.2	107	153	175	175	
28	7.50	17.7	33.1	61.8	89.0	115	166	190	190	
30	8.04	19.1	35.7	66.6	95.9	124	179	204	204	
32	8.58	20.5	38.3	71.4	103	133	192	219	219	
35	9.38	22.6	42.1	78.6	113	147	211	247	247	247
40	10.7	26.1	48.7	90.8	131	170	244	302	302	302
45	12.1	29.6	55.3	103	149	193	277	359	360	360

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

Small Sprocket No. of Teeth / Lubrication Type	Small Sprocket Max rpm												
	10	25	50	100	150	200	250	300	350	400	450	500	550
	AII		B	C									
13	5.34	12.2	22.7	42.5	61.1	79.2	96.8	96.8	96.8	96.8			
14	5.79	13.2	24.6	46.0	66.2	85.8	105	109	109	109	109		
15	6.24	14.2	26.6	49.5	71.4	92.5	113	121	121	121	121		
16	6.69	15.3	28.5	53.1	76.5	99.1	121	133	133	133	133		
17	7.14	16.3	30.4	56.7	81.7	106	129	144	144	144	144		
18	7.59	17.3	32.3	60.3	86.9	113	138	153	153	153	153		
19	8.01	18.4	34.3	64.0	92.1	119	146	162	162	162	162		
20	8.43	19.4	36.2	67.6	97.4	126	154	171	171	171	171		
21	8.85	20.5	38.2	71.3	103	133	163	181	181	181	181		
22	9.27	21.5	40.2	74.9	108	140	171	190	190	190	190		
23	9.70	22.6	42.1	78.6	113	147	179	199	199	199	199		
24	10.1	23.6	44.1	82.3	119	154	188	209	209	209	209		
25	10.5	24.7	46.1	86.0	124	161	196	222	222	222	222	222	
26	11.0	25.8	48.1	89.7	129	167	205	235	235	235	235	235	
28	11.8	27.9	52.1	97.2	140	181	222	261	263	263	263	263	
30	12.6	30.1	56.1	105	151	195	239	282	292	292	292	292	
32	13.5	32.3	60.2	112	162	210	256	302	313	313	313	313	
35	14.8	35.5	66.3	124	178	231	282	333	345	345	345	345	
40	16.9	41.0	76.6	143	206	267	326	384	398	398	398	398	
45	19.0	46.6	87.0	162	234	303	370	436	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 (4POL) is 90% that of the above values.

Multi Strand Factor	No. of chain strands	2	3	4	5	6
	Multi strand factor	1.7	2.5	3.3	3.9	4.6

Lubrication Method	AII	B	C
	Drip lubrication	Oil bath or slinger disc lubrication	Forced pump lubrication

Note: See the Tsubaki Drive Chains & Sprockets catalog for more information.

Kilowatt Ratings Tables RS160-SUP – RS240-SUP

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

Small Sprocket No. of Teeth / Lubrication Type	Small Sprocket Max rpm										
	10	25	50	100	150	200	250	300	350	400	450
	AII		B	C							
13	7.89	18.0	33.6	62.7	90.3	117	129	129	129		
14	8.55	19.5	36.4	67.9	97.8	127	145	145	145	145	
15	9.21	21.0	39.2	73.1	105	136	160	160	160	160	
16	9.87	22.5	42.0	78.4	113	146	177	177	177	177	
17	10.5	24.0	44.9	83.7	121	156	191	193	193	193	
18	11.2	25.6	47.7	89.1	128	166	203	207	207	207	
19	11.8	27.1	50.6	94.4	136	176	215	219	219	219	
20	12.4	28.7	53.5	99.8	144	186	228	232	232	232	
21	13.1	30.2	56.4	105	152	196	240	244	244	244	
22	13.7	31.8	59.3	111	159	206	252	257	257	257	
23	14.3	33.3	62.2	116	167	217	265	270	270	270	
24	14.9	34.9	65.1	122	175	227	277	282	282	282	
25	15.6	36.5	68.1	127	183	237	290	295	295	295	
26	16.2	38.0	71.0	132	191	247	302	308	308	308	
28	17.4	41.2	76.9	144	207	268	327	343	343	343	343
30	18.7	44.4	82.9	155	223	289	353	380	380	380	380
32	19.9	47.6	88.8	166	239	309	378	419	419	419	419
35	21.8	52.4	97.9	183	263	341	417	472	472	472	472
40	24.9	60.6	113	211	304	394	481	545	545	545	545
45	28.0	68.8	128	240	345	447	547	619	619	619	619

RS180-SUP-1 Kilowatt Ratings Table (kW Ratings for Single Strand Chain)

Small Sprocket No. of Teeth / Lubrication Type	Small Sprocket Max rpm									
	10	25	50	100	150	200	250	300	350	400
	AII	B		C						
13	10.3	23.6	44.1	82.2	118	153	173	173	173	
14	11.2	25.6	47.7	89.1	128	166	187	187	187	
15	12.1	27.6	51.4	95.9	138	179	202	202	202	
16	13.0	29.5	55.1	103	148	192	216	216	216	
17	13.8	31.5	58.9	110	158	205	231	231	231	
18	14.7	33.5	62.6	117	168	218	245	245	245	
19	15.5	35.6	66.4	124	178	231	260	260	260	
20	16.3	37.6	70.2	131	189	244	275	275	275	
21	17.1	39.6	73.9	138	199	257	290	290	290	
22	18.0	41.7	77.8	145	209	271	305	305	305	
23	18.8	43.7	81.6	152	219	284	320	320	320	
24	19.6	45.8	85.4	159	230	297	335	335	335	
25	20.4	47.8	89.3	167	240	311	350	350	350	
26	21.2	49.9	93.1	174	250	324	365	365	365	
28	22.9	54.1	101	188	271	351	429	446	446	446
30	24.5	58.2	109	203	292	378	463	481	481	481
32	26.1	62.5	117	217	313	406	496	515	515	515
35	28.6	68.8	128	240	345	447	546	568	568	568
40	32.7	79.5	148	277	399	516	631	656	656	656
45	36.7	90.3	168	314	453	586	717	745	745	745

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

Small Sprocket No. of Teeth / Lubrication Type	Small Sprocket Max rpm													
	10	15	20	30	40	50	70	100	150	200	250	300	350	
	AII		B			C								
13	13.4	19.3	25.0	36.1	46.7	57.1	77.3	107	154	194	194	194		
14	14.5	20.9	27.1	39.1	50.6	61.9	83.8	115	166	211	211	211	211	
15	15.7	22.6	29.2	42.1	54.5	66.7	90.2	124	179	232	234	234	234	
16	16.8	24.2	31.3	45.1	58.5	71.5	96.8	133	192	249	258	258	258	
17	17.9	25.8	33.5	48.2	62.4	76.3	103	142	205	266	283	283	283	
18	19.1	27.5	35.6	51.3	66.4	81.2	110	151	218	283	308	308	308	
19	20.1	29.1	37.7	54.3	70.4	86.0	116	161	231	300	334	334	334	
20	21.2	30.8	39.9	57.4	74.4	91.0	123	170	244	317	355	355	355	
21	22.2	32.4	42.0	60.5	78.4	95.9	130	179	258	334	374	374	374	
22	23.3	34.1	44.2	63.7	82.5	101	136	188	271	351	393	393	393	
23	24.3	35.8	46.4	66.8	86.5	106	143	197	284	368	412	412	412	
24	25.4	37.5	48.5	69.9	90.6	111	150	207	298	386	432	432	432	
25	26.5	39.2	50.7	73.1	94.7	116	157	216	311	403	451	451	451	
26	27.5	40.9	52.9	76.2	98.8	121	163	225	325	420	471	471	471	

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

Small Sprocket No. of Teeth / Lubrication Type	Small Sprocket Max rpm																	
	5	10	15	20	25	30	40	50	60	80	100	125	150	175	200	250	300	
	AII			B			C											
13	11.5	22.4	32.2	41.8	51.1	60.2	77.9	95.3	112	145	178	217	256	276	276	276	276	
14	12.4	24.2	34.9	45.2	55.3	65.2	84.4	103	122	158	193	235	277	308	308	308	308	
15	13.2	26.1	37.6	48.7	59.6	70.2	91.0	111	131	170	207	254	299	341	341	341	341	
16	14.1	28.0	40.3	52.3	63.9	75.3	97.5	119	140	182	222	272	320	368	376	376	376	
17	15.0	29.9	43.1	55.8	68.2	80.4	104	127	150	194	238	290	342	393	412	412	412	
18	15.9	31.8	45.8	59.4	72.6	85.5	111	135	160	207	253	309	364	418	449	449	449	
19	16.8	33.5	48.6	62.9	76.9	90.6	117	144	169	219	268	327	386	443	483	483	483	
20	17.7	35.3	51.3	66.5	81.3	95.8	124	152	179	232	283	346	408	468	510	510	510	
21	18.5	37.1	54.1	70.1	85.7	101	131	160	188	244	298	365	430	494	538	538	538	
22	19.4	38.8	56.9	73.7	90.1	106	138	168	198	257	314	384	452	519	565	565	565	
23	20.3	40.6	59.7	77.3	94.5	111	144	176	208	269	329	402	474	545	593	593	593	
24	21.2	42.4	62.5	81.0	99.0	117	151	185	218	282	345	421	497	570	621	621	621	
25	22.1	44.1	65.3	84.6	104	122	158	193	227	295	360	440	519	596	649	649	649	
26	22.9	45.9	68.2	88.3	108	127	165	201	237	307	376	459	541	622	677	677	677	

Note: 1. Use RS Roller Chains in the high speed range.
2. Maximum allowable load when using a four-pitch offset link (4POL) is 90% that of the above values.

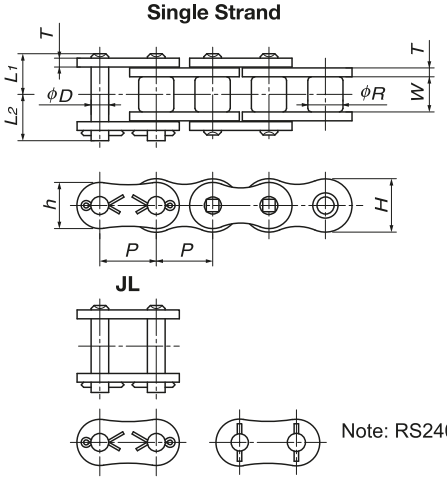
Multi Strand Factor	No. of chain strands	2	3	4	5	6
	Multi strand factor	1.7	2.5	3.3	3.9	4.6

Lubrication Method	AII	B	C
	Drip lubrication	Oil bath or slinger disc lubrication	Forced pump lubrication

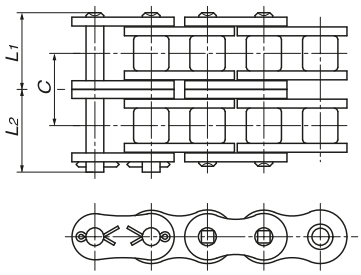
Note: See the Tsubaki Drive Chains & Sprockets catalog for more information.

RS-HT Chain

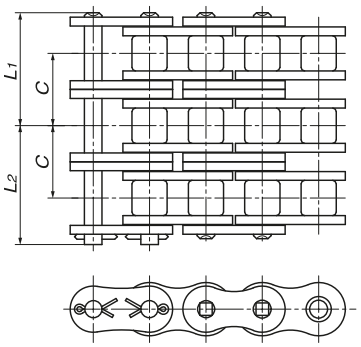
Single Strand



Double Strand



Triple Strand



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Note: RS240-HT uses a spring pin for the connecting link.

Connecting link
Slip fit connecting links and press fit connecting links available.

TSUBAKI Chain Number	Pitch *P*	Roller Diameter *R*	Inner Width of Inner Link *W*	Plates			Pin Diameter *D*
				Thickness *T*	Height *H*	Height *h*	
RS60-HT-1 RS60-HT-2 RS60-HT-3	19.05	11.91	12.70	3.2	18.1	15.6	5.96
RS80-HT-1 RS80-HT-2 RS80-HT-3	25.40	15.88	15.88	4.0	24.1	20.8	7.94
RS100-HT-1 RS100-HT-2 RS100-HT-3	31.75	19.05	19.05	4.8	30.1	26.0	9.54
RS120-HT-1 RS120-HT-2 RS120-HT-3	38.10	22.23	25.40	5.6	36.2	31.2	11.11
RS140-HT-1 RS140-HT-2 RS140-HT-3	44.45	25.40	25.40	6.4	42.2	36.4	12.71
RS160-HT-1 RS160-HT-2 RS160-HT-3	50.80	28.58	31.75	7.15	48.2	41.6	14.29
RS200-HT-1 RS200-HT-2 RS200-HT-3	63.50	39.68	38.10	9.5	60.3	52.0	19.85
RS240-HT-1 RS240-HT-2 RS240-HT-3	76.20	47.63	47.63	12.7	72.4	62.4	23.81

TSUBAKI Chain Number	Number of Strands	Dimensions *L1*	Dimensions *L2*	Transverse Pitch *C*	Minimum Tensile Strength kN{kgf}	Average Tensile Strength kN{kgf}	Maximum Allowable Load kN{kgf}	Approximate Mass kg/m	Links per Unit
RS60-HT-1	1	14.8	17.0	26.1	48.1{ 4900}	55.9{ 5700}	9.81{ 1000}	1.80	160
RS60-HT-2	2	27.8	29.9		96.1{ 9800}	112 { 11400}	16.7 { 1700}	3.59	
RS60-HT-3	3	40.85	42.95		144 { 14700}	168 { 17100}	24.5 { 2500}	5.36	
RS80-HT-1	1	18.3	20.9	32.6	81.4{ 8300}	93.2{ 9500}	16.2 { 1650}	3.11	120
RS80-HT-2	2	34.6	37.2		163 { 16600}	186 { 19000}	27.6 { 2810}	6.18	
RS80-HT-3	3	50.95	53.55		244 { 24900}	279 { 28500}	40.5 { 4130}	9.24	
RS100-HT-1	1	21.8	24.5	39.1	124 { 12600}	142 { 14500}	24.5 { 2500}	4.58	96
RS100-HT-2	2	41.4	44.1		247 { 25200}	284 { 29000}	41.7 { 4250}	9.03	
RS100-HT-3	3	61.0	63.6		371 { 37800}	427 { 43500}	61.3 { 6250}	13.54	
RS120-HT-1	1	26.95	30.55	48.9	167 { 17000}	191 { 19500}	32.4 { 3300}	6.53	80
RS120-HT-2	2	51.4	55.0		333 { 34000}	382 { 39000}	55.0 { 5610}	12.90	
RS120-HT-3	3	75.9	79.4		500 { 51000}	574 { 58500}	80.9 { 8250}	19.33	
RS140-HT-1	1	28.9	33.1	52.2	218 { 22200}	250 { 25500}	42.7 { 4350}	8.27	68
RS140-HT-2	2	55.0	59.5		435 { 44400}	500 { 51000}	72.6 { 7400}	16.38	
RS140-HT-3	3	81.15	85.25		653 { 66600}	750 { 76500}	107 {10880}	24.54	
RS160-HT-1	1	33.95	38.45	61.9	278 { 28300}	319 { 32500}	55.9 { 5700}	10.97	60
RS160-HT-2	2	64.9	69.6		555 { 56600}	638 { 65000}	95 { 9690}	21.78	
RS160-HT-3	3	95.95	100.45		833 { 84900}	956 { 97500}	140 {14250}	32.63	
RS200-HT-1	1	42.9	48.1	78.3	486 { 49600}	559 { 57000}	78.5 { 8000}	18.41	48
RS200-HT-2	2	82.05	87.3		973 { 99200}	1120 {114000}	133 {13600}	36.47	
RS200-HT-3	3	121.25	126.55		1460 {148800}	1680 {171000}	196 {20000}	54.77	
RS240-HT-1	1	54.8	62.3	101.2	768 { 78300}	883 { 90000}	113 {11500}	29.13	40
RS240-HT-2	2	105.3	112.9		1540 {156600}	1770 {180000}	192 {19550}	57.35	
RS240-HT-3	3	156.05	163.55		2300 {234900}	2650 {270000}	282 {28750}	85.47	

Note: 1. No offset links available.
2. Made-to-order product.

Kilowatt Ratings Tables RS60-HT – RS120-HT

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

Small Sprocket No. of Teeth \ Lubrication Type	Small Sprocket Max rpm															
	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

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

Small Sprocket No. of Teeth \ Lubrication Type	Small Sprocket Max rpm										
	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

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

Small Sprocket No. of Teeth \ Lubrication Type	Small Sprocket Max rpm								
	10	25	50	100	150	200	300	400	500
	A					B			C
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
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

"C" range

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

Small Sprocket No. of Teeth \ Lubrication Type	Small Sprocket Max rpm								
	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	No. of chain strands	2	3
	Multi strand factor	1.7	2.5

Lubrication Method	AII	B	C
	Drip lubrication	Oil bath or slinger disc lubrication	Forced pump lubrication

Note: See the Tsubaki Drive Chains & Sprockets catalog for more information.

Kilowatt Ratings Tables RS140-HT – RS240-HT

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

Small Sprocket No. of Teeth / Lubrication Type	Small Sprocket Max rpm										
	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

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

Small Sprocket No. of Teeth / Lubrication Type	Small Sprocket Max rpm									
	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

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

Small Sprocket No. of Teeth / Lubrication Type	Small Sprocket Max rpm											
	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

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

Small Sprocket No. of Teeth / Lubrication Type	Small Sprocket Max rpm															
	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	97.2	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	
18	13.9	25.9	37.2	48.3	59.0	69.5	90.0	110	130	168	205	251	296	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	
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		

"C" range

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

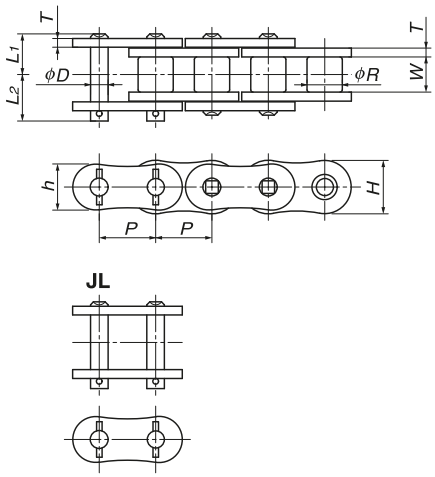
Multi Strand Factor	No. of chain strands	2	3
	Multi strand factor	1.7	2.5

Lubrication Method	All	B	C
	Drip lubrication	Oil bath or slinger disc lubrication	Forced pump lubrication

Note: See the Tsubaki Drive Chains & Sprockets catalog for more information.

Super-H Chain

Single Strand



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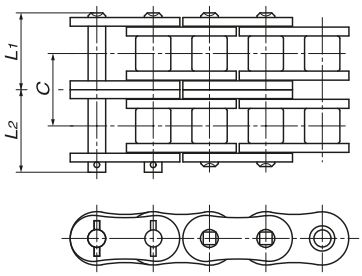
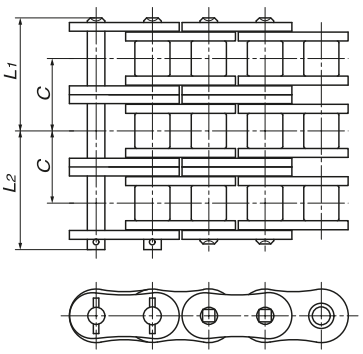
Double Strand



Triple Strand



TSUBAKI Chain Number	No. of Strands	Pitch *P*	Roller Diameter *R*	Inner Width of Inner Link *W*	Plates			Pin			Transverse Pitch *C*	Minimum Tensile Strength kN{kgf}	Average Tensile Strength kN{kgf}	Maximum Allowable Load kN{kgf}	Approx. Mass kg/m
					Thickness *T*	Height *H*	Height *h*	Diameter *D*	*L*1	*L*2					
RS80-SUP-H-1	1	25.40	15.88	15.88	4.0	24.1	20.8	7.94	18.3	20.9	32.6	85.3{ 8700}	98.1{ 10000}	25.0{ 2550}	3.29
RS80-SUP-H-2	2								34.6	37.2		171 { 17400}	196 { 20000}	42.0{ 4280}	6.52
RS80-SUP-H-3	3								50.95	53.55		256 { 26100}	294 { 30000}	61.8{ 6300}	9.75
RS100-SUP-H-1	1	31.75	19.05	19.05	4.8	30.1	26.0	9.54	21.8	24.5	39.1	127 { 12900}	145 { 14800}	39.2{ 4000}	4.88
RS100-SUP-H-2	2								41.4	44.1		253 { 25800}	290 { 29600}	66.7{ 6800}	9.51
RS100-SUP-H-3	3								61.0	63.6		380 { 38700}	435 { 44400}	98.1{10000}	14.14
RS120-SUP-H-1	1	38.10	22.23	25.40	5.6	36.2	31.2	11.11	26.95	30.55	48.9	171 { 17400}	196 { 20000}	53.9{ 5500}	6.94
RS120-SUP-H-2	2								51.4	55.0		341 { 34800}	392 { 40000}	91.7{ 9350}	13.51
RS120-SUP-H-3	3								75.9	79.4		512 { 52200}	588 { 60000}	135 {13750}	20.09
RS140-SUP-H-1	1	44.45	25.40	25.40	6.4	42.2	36.4	12.71	28.9	33.1	52.2	222 { 22600}	255 { 26000}	68.4{ 6970}	8.88
RS140-SUP-H-2	2								55.0	59.5		443 { 45200}	510 { 52000}	108 {11050}	17.38
RS140-SUP-H-3	3								81.15	85.25		665 { 67800}	765 { 78000}	159 {16250}	25.88
RS160-SUP-H-1	1	50.80	28.58	31.75	7.15	48.2	41.6	14.29	33.95	38.45	61.9	281 { 28700}	324 { 33000}	90.0{ 9180}	11.72
RS160-SUP-H-2	2								64.9	69.6		563 { 57400}	647 { 66000}	145 {14790}	22.97
RS160-SUP-H-3	3								95.95	100.45		844 { 86100}	971 { 99000}	213 {21750}	34.22
RS200-SUP-H-1	1	63.50	39.68	38.10	9.5	60.3	52.0	19.85	42.9	48.1	78.3	520 { 53000}	598 { 61000}	122 {12410}	19.68
RS200-SUP-H-2	2								82.05	87.3		1040 {106000}	1200 {122000}	183 {18700}	38.48
RS200-SUP-H-3	3								121.25	126.55		1560 {159000}	1790 {183000}	270 {27500}	57.29
RS240-SUP-H-1	1	76.20	47.63	47.63	12.7	72.4	62.4	23.81	54.8	62.3	101.2	802 { 81800}	922 { 94000}	168 {17170}	30.47
RS240-SUP-H-2	2								105.3	112.9		1600 {163600}	1840 {188000}	257 {26180}	59.77
RS240-SUP-H-3	3								156.05	163.55		2410 {245400}	2770 {282000}	378 {38500}	89.09

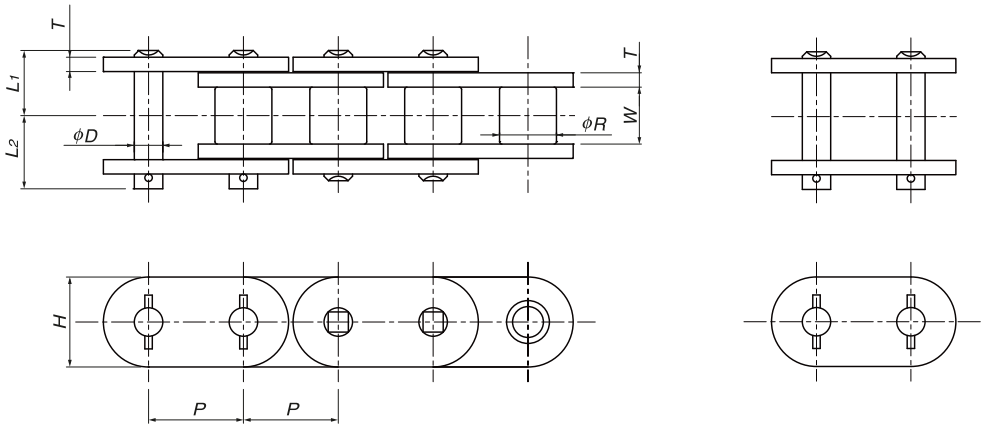
Note: Made-to-order product.

TSUBAKI Chain Number	RS80-SUP-H	RS100-SUP-H	RS120-SUP-H	RS140-SUP-H	RS160-SUP-H	RS200-SUP-H	RS240-SUP-H
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 only be used with single strand chains. Cast iron sprockets cannot be used.
  Use sprockets made of S35C or higher carbon steel. Quench harden the teeth on sprockets with small numbers of teeth.
  Check key strength, etc.

Ultra Super Roller Chain



TSUBAKI Chain Number	Pitch P	Roller Diameter R	Inner Width of Inner Link W	Plates		Pins				Minimum Tensile Strength kN{kgf}	Maximum Allowable Load 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	9.54	46.3	21.8	24.5	149{15200}	39.2{4000}	5.07
RF120-US-1	38.10	22.23	25.40	5.6	36.2	11.11	57.5	26.95	30.55	213{21700}	53.9{5500}	7.22
RF140-US-1	44.45	25.40	25.40	6.4	42.2	12.71	62.0	28.9	33.1	273{27800}	68.4{6970}	9.24
RF160-US-1	50.80	28.58	31.75	7.1	48.2	14.29	72.4	33.95	38.45	341{34800}	90.0{9180}	12.19
RF200-US-1	63.50	39.68	38.10	9.5	60.3	19.85	91.0	42.9	48.1	580{59100}	122{12410}	20.47
RF240-US-1	76.20	47.63	47.63	12.7	72.4	23.81	117.1	54.8	62.3	853{87000}	168{17170}	31.69

Notes for use

- Select chains and sprockets using 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 sprockets can be used, but cast iron sprockets cannot. Use sprockets made of S35C or higher carbon steel and harden the teeth of sprockets with low numbers of teeth.
- Check key strength, etc. Consider Tough Tooth sprockets (pgs. 17–18) with stronger hubs.
- Multi strand chains are not available. Consider a different Tsubaki Heavy Duty Chain if required.
- The specifications changed in October 2016 from "US" to "US-N." US-N has a smaller pin diameter than previous US. When replacing, replace the entire chain. This change does not affect the chain's minimum tensile strength or maximum allowable load.

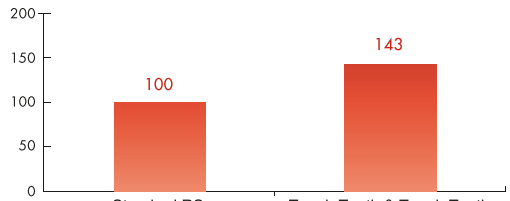
RS® Tough Tooth Sprocket

Tough Tooth sprockets have increased strength and durability to bring out the best in Tsubaki's new G8 Series Heavy Duty Drive Chains.

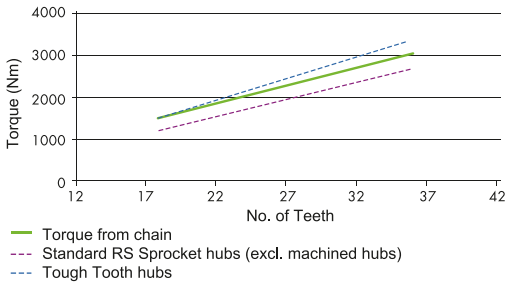
Features

- Teeth have ample strength to handle the increased strength of the G8 Series Heavy Duty Chain. The hub has been further strengthened as well.
- All models feature hardened teeth to give the sprocket more wear resistance.
- A special coating that even further increases tooth hardness is also available (optional)— ideal for harsh operating environments where users want to reduce chain and sprocket replacement frequency. The coating has a Vickers hardness over 800 to give the sprocket more wear resistance.

Comparison of Hub Strength



Comparison of Hub kW Ratings



Note: 1. Torque is calculated from the keyway allowable surface pressure using a JIS parallel key at the maximum shaft hub diameter.
2. Comparison using RS80-SUP-H-1.

Specifications

- B and C types standardized for single and double strand RS-HT Series RS60 and above.
- RS-HT Chains and Super-H Chains in multi strand configurations have a different tooth transverse pitch than RS Roller Chain sprockets.
- Other multi strand configurations, hub types, and numbers of teeth are made-to-order. Other shaft hub finishing also available.
- Both teeth and hubs use carbon steel for machine structural use.
- Made-to-order product.

Model Numbering Example

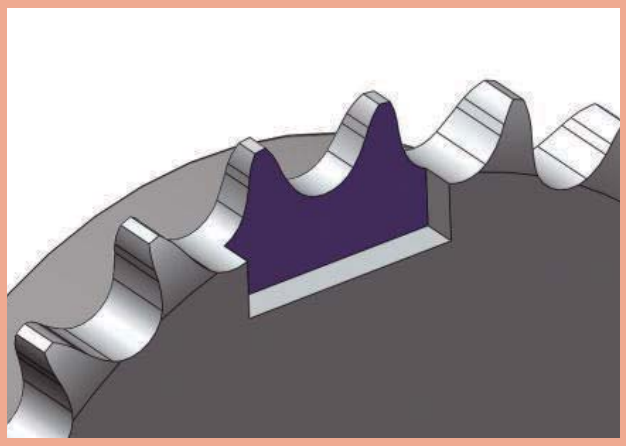
RS120 — 1B 30T — T — K1

- RS120 — Tsubaki chain number
- 1B — No. of strands and hub type: 2B, 1C, 2C, 2HB*, 2HC*
- 30T — No. of teeth
- T — Series no.
- K1 — Blank : Standard pilot bore; K1 : Coating specifications

*2HB and 2HC are for Super-H Chain use.

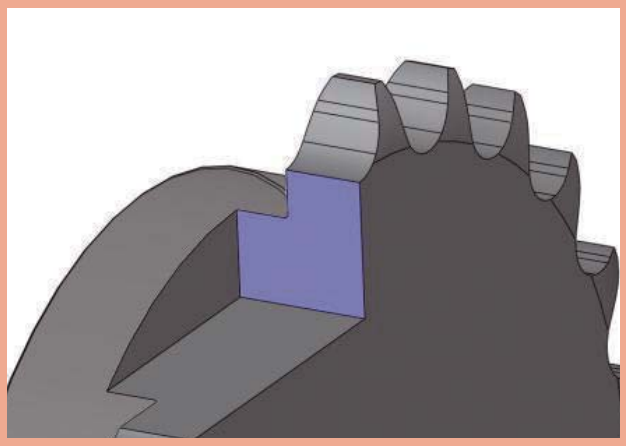
The tooth hardening used on Tsubaki Sprockets is overwhelmingly superior.

Comparison of Tooth Hardening



Cross-sectional observation of tooth hardening
(darker area is the hardened layer)

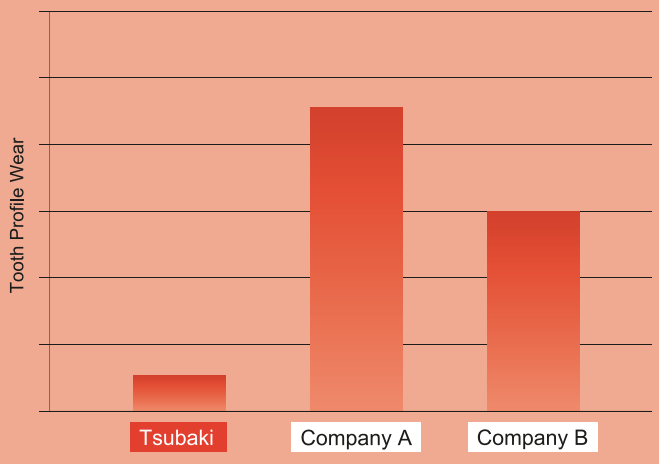
Comparison of Tooth Hardness and Hardened Layer Depth

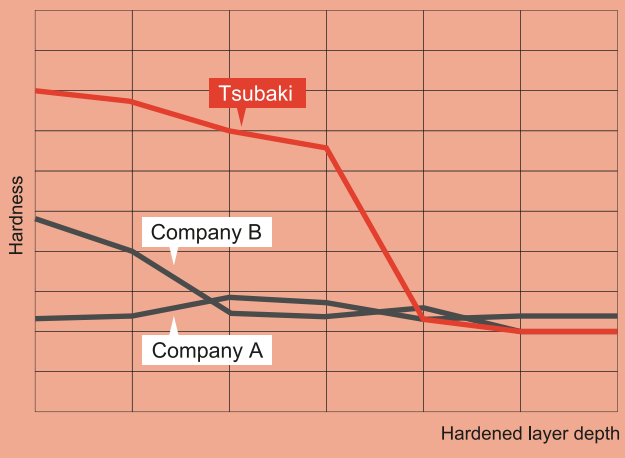


Cross-section observation of tooth hardened layer depth
(darker area is the hardened layer)

Comparison of Tooth Profile Wear When Tested under Load

After 500 hours of testing RS40 sprockets for wear, the Tsubaki sprocket had the overwhelmingly superior wear performance.





RS® Tough Tooth Sprockets

Available Range

RS Tough Tooth Sprockets
Use standard RS Sprockets
Made-to-order

1B (single strand B type)

No. of Teeth/Size	RS60	RS80	RS100	RS120	RS140	RS160	RS180	RS200	RS240
9T									
10T									
11T									
12T									
13T									
14T									
15T									
16T									
17T									
18T									
19T									
20T									
21T									
22T									
23T									
24T									
25T									
26T									
27T									
28T									
30T									
32T									
34T									
35T									
36T									
38T									
40T or more									

1C (single strand C type)

No. of Teeth/Size	RS60	RS80	RS100	RS120	RS140	RS160	RS180	RS200	RS240
9T									
10T									
11T									
12T									
13T									
14T									
15T									
16T									
17T									
18T									
19T									
20T									
21T									
22T									
23T									
24T									
25T									
26T									
27T									
28T									
30T									
32T									
34T									
35T									
36T									
38T									
40T or more									

Refer to the Tsubaki Drive Chains & Sprockets catalog for information on material and dimensions.

- Contact a Tsubaki representative for any inquiries.
- Sizes, nos. of teeth, and hub dimensions not shown above, as well as multi strand configurations, are made-to-order items.

● 2B (double strand B type)

No. of Teeth/Size	RS60	RS80	RS100	RS120	RS140~240
9T					
10T					
11T					
12T					
13T					
14T					
15T					
16T					
17T					
18T					
19T					
20T					
21T					
22T					
23T					
24T					
25T					
26T					
27T					
28T					
30T					
32T					
34T					
35T					
36T or more					

● 2C (double strand C type)

No. of Teeth/Size	RS60	RS80	RS100	RS120	RS140~240
9T					
10T					
11T					
12T					
13T					
14T					
15T					
16T					
17T					
18T					
19T					
20T					
21T					
22T					
23T					
24T					
25T					
26T					
27T					
28T					
30T					
32T					
34T					
35T					
36T or more					

Refer to the Tsubaki Drive Chains & Sprockets catalog for information on material and dimensions.

- The tooth transverse pitch differs with Super-H triple strand and above.
- Contact a Tsubaki representative for any inquiries.
- Sizes, nos. of teeth, and hub dimensions not shown above, as well as multi strand configurations, are made-to-order items.

Optional (made-to-order)

Special Coating Specifications

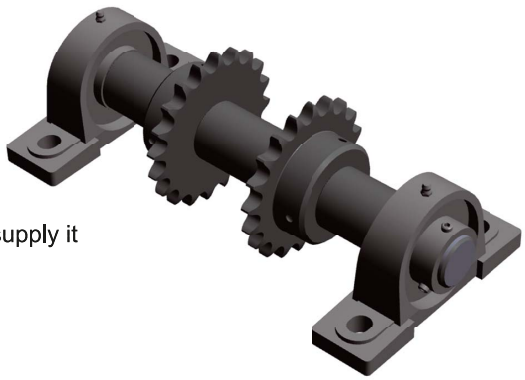
A special coating gives the teeth a hardness of over HV800 for better wear resistance. Effective in harsh operating environments where sprocket replacement frequency is high.

Shaft Bore Finishing Service

Optional shaft bore finishing service available.

Shaft Set Delivery

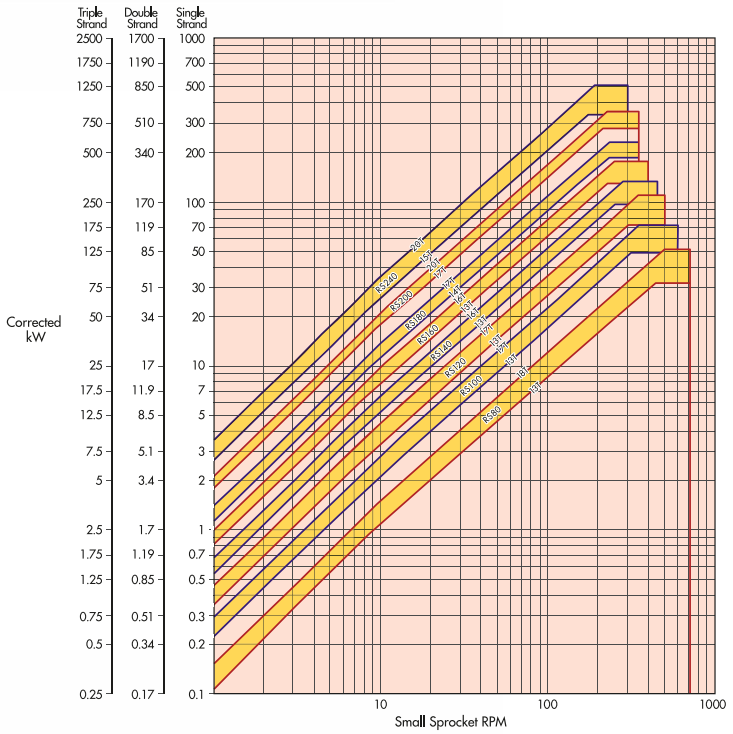
We can quote you for a shaft based on your drawings, manufacture it, and supply it together with your sprocket as a set. By also requesting inspection records, you can reduce inspection/assembly man-hours and cost.



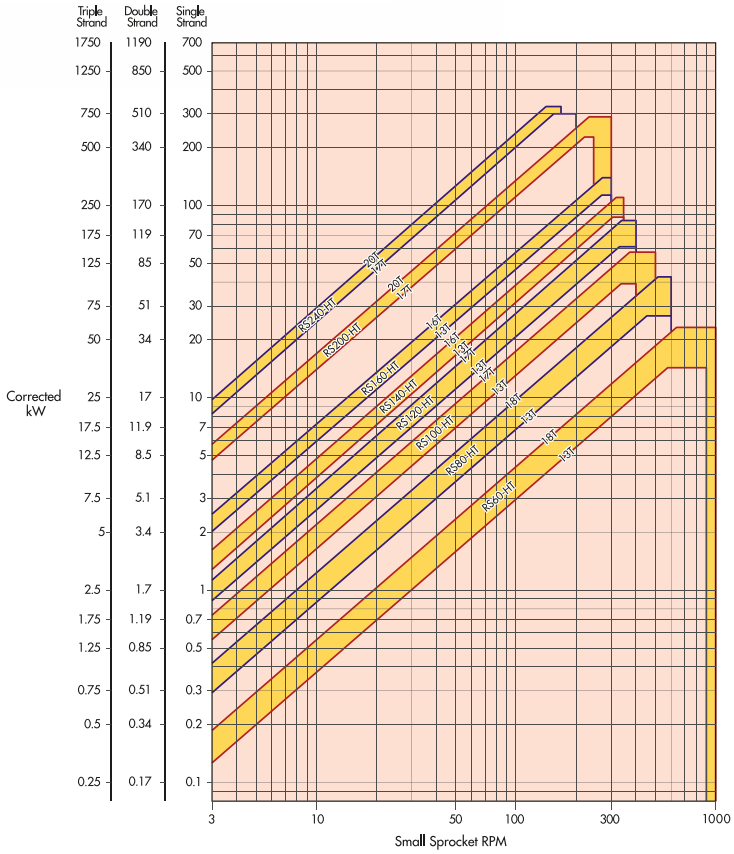
Selection

When Heavy Duty Drive Chain is used in winding drives, then they can be selected using the General Selection Method or the Allowable Load Selection Method. Refer to the Tsubaki Drive Chains & Sprockets catalog for more information. See below for the easy selection graphs for RS-HT and Super Chains.

RS-SUP Easy Selection Graph



RS-HT Easy Selection Graph



Understanding the Graph

1. (Ex.) For single strand chains with a corrected kW of 20kW

(1) For small sprockets at 100rpm

Looking at the corrected kW of 7kW (X-axis) and RPM (Y-axis), an RS100 chain has a sprocket smaller than 17T and larger than 13T, so from the intersection of those a 15T sprocket can be used.

(2) For small sprockets at 200rpm

Using the preceding example, the sprocket is smaller than RS80-18T and larger than RS80-13T. Because we performed a rough selection using this graph, as we did above, you will want to confirm the selection using the kilowatt ratings table for each chain number.

(3) Allow for a decrease in kilowatt ratings when using offset links as noted under each kilowatt ratings table.

Ordering	Refer to the Tsubaki Drive Chains & Sprockets catalog for more information on ordering Heavy Duty Drive Chains and Sprockets.

For Your Safety When Using the Chain

Warning To avoid danger, observe the following rules.

- Do not use chain or chain accessories for any purpose other than their originally intended use.
- Never perform additional work on chain.
  - ·Do not anneal any chain parts.
  - ·Do not clean chain with acids or alkalis. These may cause cracking.
  - ·Never attempt to electroplate chain or chain parts. This may cause hydrogen embrittlement.
  - ·Do not weld chain. Heating effects will cause weakening and cracking.
  - ·When a torch is used to heat or cut chain, remove the links on each side and do not reuse them.
- When replacing a worn or damaged part, do not replace just the worn or damaged part. Replace all parts with new parts.
- If a material that causes hydrogen embrittlement (acid, strong alkali, battery fluid, etc.) comes in contact with the chain, immediately stop using the chain and replace it with new chain.
- When using chain in a lifting device, set up a safety barrier and do not allow anyone to go under the equipment.
- Always install safety equipment (safety covers, etc.) on chain and sprockets.
- Strictly observe the general guidelines listed in Section 1, Chapter 1, 2nd Edition of the Japanese Occupational Safety and Health Regulations as well as rules and regulations concerning occupational safety and health in your region/country.
- When installing, removing, inspecting, maintaining and oiling chain,
  - ·Perform the work as instructed in the manual, catalog or other documentation that was provided with the product.
  - ·Before starting work, turn off the power switch and take measures to prevent it from being turned on accidentally.
  - ·Secure the chain and parts to prevent them from moving freely.
  - ·Use a press tool or other special tools to separate or connect chain, and follow the correct procedures.
  - ·Remove and insert pins and rivets in the correct direction.
  - ·Wear clothing and protective gear (safety glasses, gloves, safety shoes, etc.) that are appropriate for the work.
  - ·Only experienced personnel should perform chain replacement.

Caution To prevent accidents, observe the following rules.

- Understand the structure and specifications of the chain that you are handling.
- Before installing chain, inspect it to make sure no damage occurred during delivery.
- Inspect and maintain chain and sprockets at regular intervals.
- Chain strength varies by manufacturer. Only Tsubaki products should be used when chain is selected using Tsubaki catalogs.
- Minimum tensile strength refers to the failure point when the corresponding load is applied to the chain once and does not refer to the allowable operational load.

Warranty

1. LIMITED WARRANTY

Products manufactured by Seller: (a) conform to the design and specifications, if any, expressly agreed to in writing by Seller; and (b) are free of defects in workmanship and materials at the time of shipment. The warranties set forth in the preceding sentence are exclusive of all other warranties, express or implied, and extend only to Buyer and to no other person. ALL WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE ARE HEREBY EXCLUDED.

2. NON-RELIANCE

Buyer is not relying upon any advice, representations or warranties (except the warranties expressly set forth above) of Seller, or upon Seller's skill or judgment regarding the Seller's products.

Buyer is solely responsible for the design and specifications of the products, including without limitation, the determination of suitability for Buyer's application of the products.

3. CLAIMS

(a) Any claim relating to quantity or type shall be made to Seller in writing within 7 days after receipt of the products; any such claim made thereafter shall be barred.

(b) Any claim under the above-stated Limited Warranty shall be made to Seller in writing within three (3) months after receipt of the products; any such claim made thereafter shall be barred.

(c) Seller's liability for breach of warranty or otherwise is limited to repair or replacement, at Seller's option, of non-conforming or defective products. Buyer waives all other remedies, including, but not limited to, all rights to consequential, special or incidental damages, including, but not limited to, damages resulting from personal injury, death or damage to or loss of use of property.

(d) Repair, alteration, neglect or misuse of the products shall void all applicable warranties.

4. INDEMNIFICATION

Buyer will indemnify, defend and hold Seller harmless from all loss, liability, damage and expense, including attorneys' fees, arising out of any claim (a) for infringement of any patent, trademark, copyright, misappropriation of trade secrets, unfair competition or similar charge by any products supplied by Seller in accordance with the design or specifications furnished by Buyer, or (b) arising out of or connected with the products or any items into which the products are incorporated, including, but not limited to, any claim for product liability (whether or not based on negligence or strict liability of Seller), breach of warranty, breach of contract or otherwise.

5. ENTIRE AGREEMENT

These terms and conditions constitute the entire agreement between Buyer and Seller and supersede any inconsistent terms and conditions, whether contained in Buyer's purchase order or otherwise, and whether made heretofore or hereafter.

No statement or writing subsequent to the date hereof which purports to modify or add to the terms and conditions hereof shall be binding unless consented to in writing, which makes specific reference hereto, and which has been signed by the party against which enforcement thereof is sought. Seller reserves the right to change these terms and conditions without prior notice.

Note: The logos, brand names, or product names in this catalog are trademarks or registered trademarks of Tsubakimoto Chain Co. in Japan and other countries.

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CHINA

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The Tsubaki Eco Link logo is used only on products that satisfy the standards for environmental friendliness set by the Tsubaki Group.

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