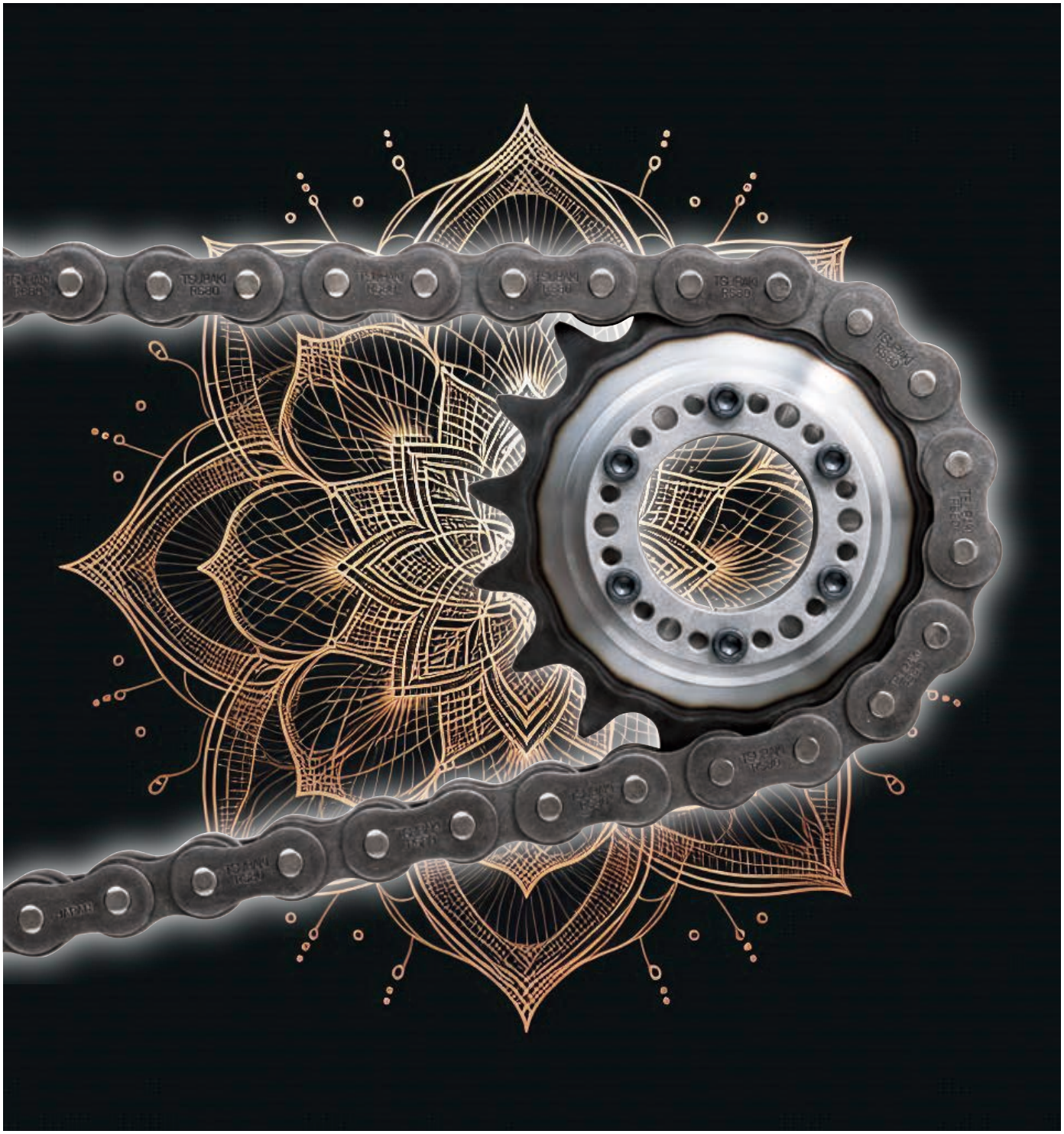
Innovation in Motion

TSUBAKI

TSUBAKI
BIS CERTIFIED
DRIVE CHAIN



Tsubaki obtained BIS certification in 2026. The facilities that obtained BIS certification are the Kyotanabe Plant and the Taiwan Plant. These are our main roller chain manufacturing plants.

Tsubaki's mother plant is Kyotanabe Plant located in Kansai Science City. The Kyotanabe Plant embodies our wide spectrum of cutting-edge technological solutions. Our aim is to develop this environmentally friendly facility into the world's number one chain plant.
Furthermore, Kyotanabe's Technical center plays a vital role within the Tsubaki Group through its R&D activities and dissemination of information.
The Kyotanabe Plant is an excellent example of a facility built on the foundation of Tsubaki's technical expertise.

Tsubakimoto Chain Kyotanabe Plant

IS 2403:2024
CM/L-4100283178

Kyotanabe Plant

IS 2403:2024
CM/L-4100258482

Taiwan Plant

Advantages

Tsubaki's Roller Chain is enhanced with the following advantages:

Lube Groove (LG) Bush

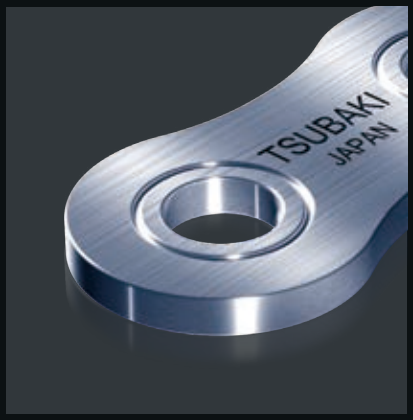
Tsubaki Lube Groove (LG) seamless bushes are precision components and perfectly cylindrical. Our special lube grooves hold oil at the point of contact, where the chain needs it most, providing an internal reservoir for lubricant. The result is a chain that lasts longer with lower maintenance costs over the lifetime of the chain.

Ring Coin: Increased Transmission Capacity

The Ring Coined connecting link allows the chain to be specified up to its full kW rating. The precision and strength achieved on these components is far beyond that of competitor's offerings. The typical standard slip-fit connecting link is usually much weaker than the other links. Tsubaki's Ring Coin technology has overcome that.

Increased kW Rating

Transmission capacity has been increased by applying the Tsubaki Ring Coining process on the connecting link plate.



Before Use

Read through this catalog before use to ensure proper selection and usage. Also, carefully inform persons involved in installation and maintenance of all pertinent matters.

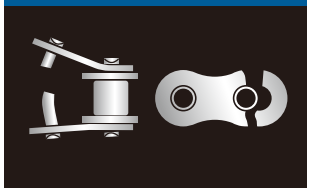
Numerical figures are indicated in both SI and gravimetric units.
(Gravimetric units are for reference.)

Dimensions in this catalog are nominal dimensions and may differ from the actual dimensions.

All photos and artwork in this catalog are for illustrative purposes only.

The external diagrams of the chain, connecting link, offset link, and other parts are provided as examples. Therefore, depending on chain size, the shape of the pin ends and offset pins and the assembly methods of the offset pins and connecting plates may differ from the diagrams.

NOTE



1. Inspect and replace worn roller chain periodically.
2. Roller chains can break and jump up on the sprocket from wear elongation.
3. Overload may cause roller chain to break. Avoid breakage by properly selecting products with consideration of inertia, impact, etc.
4. Roller chains can break due to corrosion and other environmental conditions.
5. The chain may have a shorter life or break if the sprockets are not centered properly or if there are changes in the usage environment or other conditions.
6. Wear dust is generated as a result of wear on chain parts. Lubricant oil may also splatter during operation.
7. When guidelines or legal considerations impose constraints on the selection of roller chain, first make a selection based on these constraints and then make another selection based on the methods given in this catalog. Then choose the roller chain that provides the greater margin of safety.
8. Always install hazard protection devices (safety covers, etc.) for the chain and sprocket.
9. When using a chain and sprocket in lifting applications, install a safety fence and strictly prevent entry to the area directly below the lifted object.
10. Contact a Tsubaki representative regarding whether a product contains substances restricted for use in specific industries and applications.

When You Do Not Know the Roller Chain Number

1 Verification of the roller chain specifications (strength type, material, etc.) is important. Check with the equipment manufacturer.

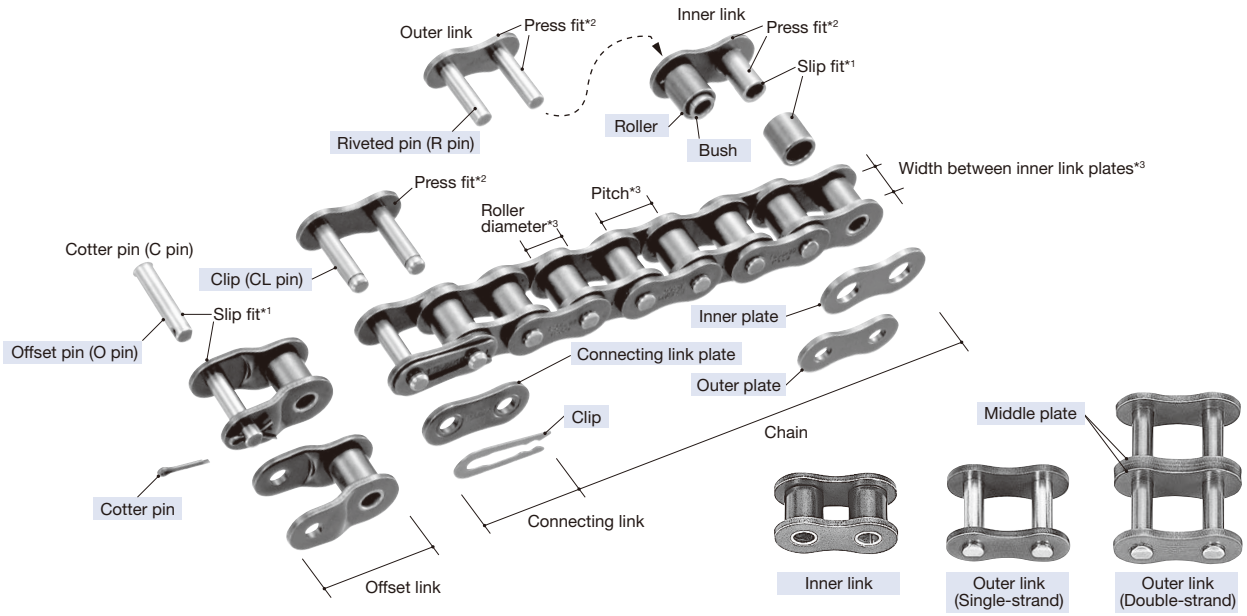
2 Check the roller chain size and specifications that are stamped on the roller chain plate.

3 Measure the pitch, roller diameter, inner width of inner link, and plate thickness of the roller chain.

4 Check the sprocket size and specifications that are stamped on the sprocket. Also measure the sprocket's tooth width.

Roller Chain Construction

Basic Structure



Plate

The plate bears the tension placed on the chain. Usually this is a repetitive load, but sometimes it is accompanied by shock. Therefore, the plate must have not only great static tensile strength, but also must hold up to the dynamic forces of load and shock.

Pin

The pin is subject to shearing and bending forces transmitted by the plate. At the same time, it forms a load-bearing part, together with the bush, when the chain flexes during sprocket engagement. Therefore, the pin needs high tensile and shear strength, resistance to bending, and sufficient endurance against shock and wear.

Bush

The bush is subject to complex forces from all parts, especially from the repetition of shock loads when the chain engages the sprocket. Therefore, the bush needs extremely high shock resistance. In addition, the bush forms a load-bearing part together with the pin, and as such requires great wear resistance.

Roller

The roller is subject to impact load as it strikes the sprocket teeth during chain engagement with the sprocket. After engagement, the roller changes its point of contact and balance. It is held between the sprocket teeth and bush, and moves on the tooth face while receiving a compression load. Therefore, it must be resistant to wear and still have strength against shock, fatigue, and compression.

Inner Link

Two bushes are press fit into two inner plates, and rollers are inserted to allow rotation around the outside of the bush. This is the same for single-strand and multi-strand chain.

Outer Link and Middle Plate

The pin link consists of two pins that have been press fit into two outer plates. With multi-strand roller chain, a middle plate is added to the pin link. The middle plate is slip fit*1 for standard RS Roller Chain and press fit*2 for Super Roller Chain.

◆ Glossary
*1 Slip fit: When the shafts (pins and bushes) and holes are fitted together, there is a continuous loose fit. This is a fit where the range of tolerance for the hole is larger than the range of tolerance for the shaft.
*2 Press fit: When the shafts (pins and bushes) and holes are fitted together, there is a continuous interferential fit. This is a fit where the range of tolerance for the hole is smaller than the range of tolerance for the shaft.
*3 The pitch, roller diameter, and inner width of the inner link are considered the basic three dimensions of a roller chain. When these dimensions are identical, a roller chain and sprocket are dimensionally compatible.

End Links and Part Names

◆ Connecting links

Upper row: End link (Use when ordering chains)
Lower row: End link (Use when ordering individual parts)

					
MWJ MWJL	**MCJ** MCJL	**MSJ** MSJL	**FWJ** FWJL	**FCJ** FCJL	**FSJ** FSJL
M-type connecting link*1 with cotter pin	M-type connecting link*1 with clip	M-type connecting link*1 with spring pin	F-type connecting link*2 with cotter pin	F-type connecting link*2 with clip	F-type connecting link*2 with spring pin

Assembled to the chain before shipment*3 → Add "K" to the end. Example: MWJK, FWJK

◆ Offset links

Upper row: End link (Use when ordering chains)
Lower row: End link (Use when ordering individual parts)

O OL

1-pitch offset link

Assembled to the chain before shipment → Add "K" to the end. Example: OK

Note: *1. M-type connecting link: Connecting link with slip fit
*2. F-type connecting link: Connecting link with press fit
*3. Add "E" when you need an endless formation.

Chain Model Numbering

This page shows the series, number of strands, as well as types of pins and connecting links that can be selected for each size. Customized items are also available. Please contact a Tsubaki representative.

1. Chains ordered by specifying the number of links, etc.

Size – Series – Number of strands – Pin type + Number of links – End link – Options

◆ Model numbering example

RS60–BIS–1–RP+80L–MCJR

2. Individual parts, such as connecting links and offset links, ordered by quantity

Size – Series – Number of strands – Part name

◆ Model numbering example

RS140–BIS–1–MWJL

RS160–BIS–3–OL

■ ISO 606 Standard Roller Chain

	Pin type (column = size; row = no. of strands)			End link symbol for connecting links and part names (column = size; row = no. of strands)			Offset link types and part names (column = size; row = no. of strands)		
	1	2	3	1	2	3	1	2	3
RS35	RP	RP	×	MCJ	MCJ	×	×	×	×
RS40	RP	RP	×	MCJ	MCJ	×	×	×	×
RS50	RP	RP	×	MCJ	MCJ	×	×	×	×
RS60	RP	RP	×	MCJ	MCJ	×	×	×	×
RS80	RP	RP	RP	MWJ/FWJ	MWJ/FWJ	MWJ/FWJ	OL	OL	OL
RS100	RP	RP	RP	MWJ/FWJ	MWJ/FWJ	MWJ/FWJ	OL	OL	OL
RS120	RP	RP	RP	MWJ/FWJ	MWJ/FWJ	MWJ/FWJ	OL	OL	OL
RS140	RP	RP	RP	MWJ/FWJ	MWJ/FWJ	MWJ	OL	OL	OL
RS160	RP	RP	RP	MWJ/FWJ	MWJ/FWJ	MWJ	OL	OL	OL
RS180	RP	RP	RP	MWJ/FWJ	MWJ/FWJ	×	OL	OL	OL
RS200	RP	RP	RP	MWJ/FWJ	MWJ/FWJ	MWJ	OL	OL	OL
RS08B	RP	RP	×	MCJ	MCJ	×	×	×	×
RS10B	RP	RP	×	MCJ	MCJ	×	×	×	×
RS12B	RP	RP	×	MCJ	MCJ	×	×	×	×
RS16B	RP	RP	RP	MCJ	MCJ	MCJ	OL	OL	OL
RS20B	RP	RP	RP	MWJ	MWJ	MWJ	OL	OL	OL
RS24B	RP	RP	RP	MWJ	MWJ	MWJ	OL	OL	OL
RS28B	RP	RP	RP	MWJ	MWJ	MWJ	OL	OL	OL
RS32B	RP	RP	RP	MWJ	MWJ	MWJ	OL	OL	OL
RS40B	RP	RP	RP	MWJ	MWJ	MWJ	OL	OL	OL

Note: 1. FCL for RS80 is available as quoted.
2. RS08B to RS12B are Taiwan-made products.
3. OL for RS80 sizes manufactured in Japan is available.
4. As RS80 includes both Taiwan-made and Japan-made products.

■ Heavy duty Roller Chain

	Pin type (column = size; row = no. of strands)			End link symbol for connecting links and part names (column = size; row = no. of strands)		
	1	2	3	1	2	3
RS60-HT/H	RP	RP	RP	MWJ/FWJ	MWJ/FWJ	MWJ/FWJ
RS80-HT/H	RP	RP	RP	MWJ/FWJ	MWJ/FWJ	MWJ/FWJ
RS100-HT/H	RP	RP	RP	MWJ/FWJ	MWJ/FWJ	MWJ/FWJ
RS120-HT/H	RP	RP	RP	MWJ/FWJ	MWJ/FWJ	MWJ/FWJ
RS140-HT/H	RP	RP	RP	MWJ/FWJ	MWJ/FWJ	MWJ/FWJ
RS160-HT/H	RP	RP	RP	MWJ/FWJ	MWJ/FWJ	MWJ/FWJ
RS180-H	RP	RP	RP	MWJ/FWJ	MWJ/FWJ	MWJ/FWJ
RS200-H	RP	RP	RP	MWJ/FWJ	MWJ/FWJ	MWJ/FWJ
RS240-H	RP	RP	RP	MSJ/FSJ	MSJ/FSJ	MSJ/FSJ

Note: All sizes are Japan-made products.

How to read chart

RP	RP only / Pin is riveted
MCJ	M-type connecting link with clip
FCJ	F-type connecting link with clip pin
MWJ/FWJ	Cotter pins can be selected for M-type and F-type connecting links
MSJ/FSJ	Spring pins can be selected for M-type and F-type connecting links
OL	Offset link only
×	Not available

Ordering RS Roller Chain

Units

The unit for ordering roller chains are as follows.
"U" is for stock items.
"H" is for non-stock items.
"L" is discontinued.
"K" means "piece".

Current	New	Notes
U	U	Stock items
	H	Non-stock items
L	H	
K	K	

Ordering Examples

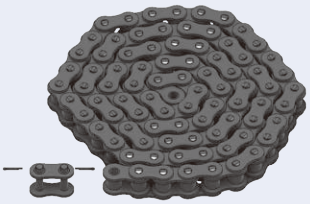
1. Chain (ordering by unit)

Roller chains are stocked on a unit basis. One connecting link is included in one unit. Connecting links must be ordered separately when dividing a chain into two or more pieces or connecting more chains.

➡ Ordering example

Ordering five units of RS100-1-RP chain

Model number	Quantity	Unit
RS100-BIS-1-RP-U	5	U



2. Chain (ordering by specified length)

You can order roller chains with a specified length. Convert the length of the chain you want to use into the number of links when placing an order.

◆ Example of converting chain length into number of links

When ordering RS60-1-RP chain with a length of 150 mm (including connecting links)

150 mm ÷ 19.05 mm (chain pitch)≒ 7.9 links ⇒ 8 links (including connecting links)

Note: The chain length is 152.4 mm.

➡ Ordering example

Ordering five pieces of 8-link RS60-1-RP chain (including M-type connecting link with clip)

Model number	Quantity	Unit
RS60-BIS-1-RP+8L-MCJ R	5	H

MC: M-type connecting link with clip
R: Inner link

The product will be delivered without a connecting link pre-assembled.
If you need a pre-assembled connecting link as shown above, use "MCJKR" for the end link symbol.

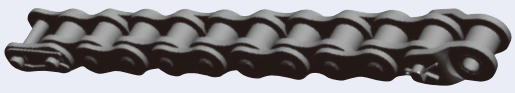
3. Chain (ordering chain with connecting links or offset links on both ends)

➡ Ordering example

Ordering 10 pieces of 11-link RS50-1-RP chain (connecting link and 1-pitch offset link are arranged as shown in the figure)

Model number	Quantity	Unit
RS50-BIS-1-RP+11L-MCJ O	10	H

MC: M-type connecting link with clip
O: Offset link



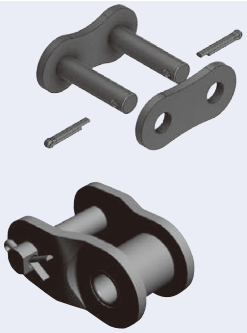
The product will be delivered without a connecting link and an offset link pre-assembled.
If you need a pre-assembled connecting link and offset link as shown above, use "MCJKOK" for the end link symbol.

4. Individual parts, such as connecting links and offset links

➡ Ordering example

Ordering 10 F-type connecting links with cotter pins and 1-pitch offset link for RS160-1 chain

Model number	Quantity	Unit
RS160-BIS-1-FWJL	**10**	**K**
RS160-BIS-1-OL	**1**	**K**



5. Other orders

◆ Chain that has a connecting link or offset link configured in a specified location of the chain, instead of at the end
◆ Chain longer than the standard-length unit (2.5 units or more) but configured in a single chain without using connecting links (super long-length formation)

Tsubaki can manufacture special formations and chains in customer-specific specifications.
Please contact a Tsubaki representative.

Ordering RS Sprockets

The following section includes general ordering examples and points to keep in mind when ordering RS sprockets.

Note: 1. RS sprockets are not BIS certified.
2. The plant that manufactures RS sprockets is currently undergoing BIS certification. This information will be updated after certification is obtained.

Basic Structure of Model Numbers

When ordering, be sure to order by model number to avoid any errors in sprocket specifications.
Refer to the product pages for sizes, processing/machining, and other details.

◆ Model numbering example: Standard pilot bore sprocket

RS60	–	1	B	30T	
①		②	③	④	⑤

1	(K)
Quantity	Unit (piece)

Single Dual sprocket

RS60	–	SD	25T	Q
①		③	④	⑤

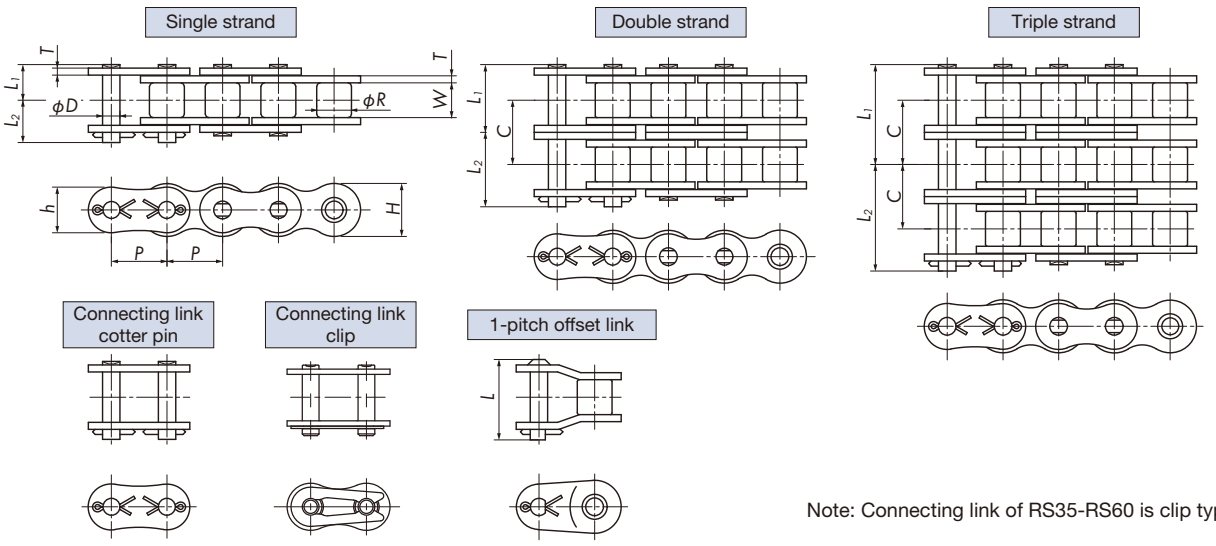
3	(K)
Quantity	Unit (piece)

① Size	Indicates chain size.
② Number of strands	Indicates the number of chain strands. This is not needed for Single Dual sprockets.
③ Hub type	Indicates the type of hub.

④ Number of teeth	Indicates the number of sprocket teeth.
⑤ Teeth hardening	Indicates whether teeth are hardened or not. [Blank]: Non-hardened teeth Q: Hardened teeth

For more information on other products, please scan the QR code to access Tsubaki PT products information site.

To learn selection of drive chain, please scan the QR code to access our Auto Selector.



Note: Connecting link of RS35-RS60 is clip type.

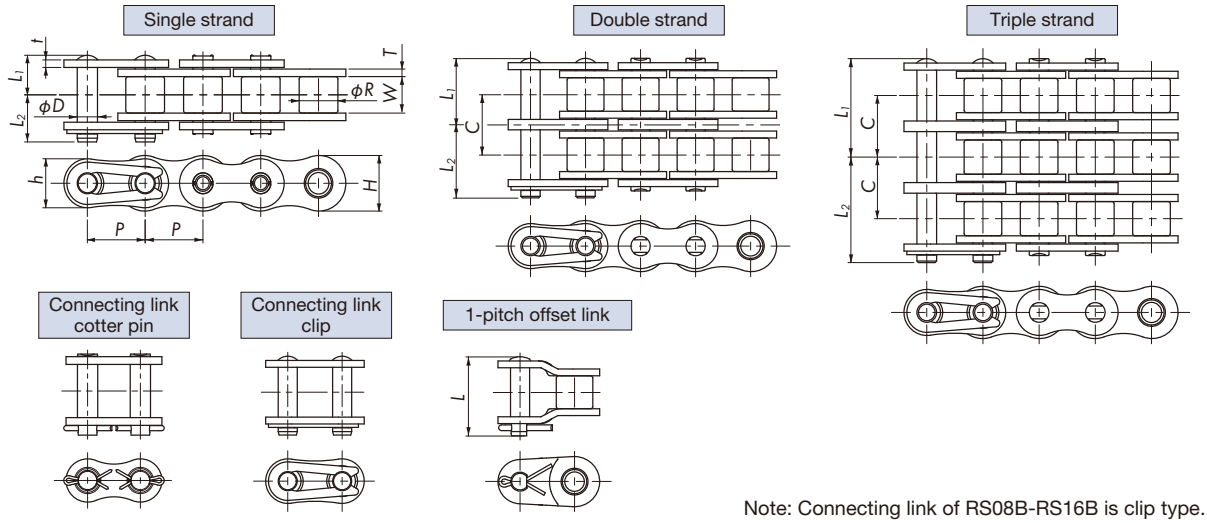
■ Specifications

Size	Number of strands	Pitch *P*	Roller dia. *R*	Inner width of inner link *W*	Pins			Plates			Offset pin length *L*	Transverse pitch *C*	ISO 606 min. tensile strength kN	Max. allowable load kN	Approx. mass kg/m
					Dia. *D*	L_1	L_2	Thickness *T*	Height *H*	Height *h*					
RS35	1	9.525	5.08	4.78	3.59	5.85	6.85	1.25	9.0	7.8	13.5	10.1	7.9	2.16	0.33
	2					10.9	11.9				24.5		15.8	3.63	0.69
RS40	1	12.70	7.92	7.95	3.97	8.25	9.95	1.5	12.0	10.4	18.2	14.4	13.9	3.63	0.64
	2					15.45	17.15				33.5		27.8	6.18	1.27
RS50	1	15.875	10.16	9.53	5.09	10.3	11.9	2.0	15.0	13.0	22.6	18.1	21.8	6.37	1.04
	2					19.35	21.15				41.8		43.6	10.8	2.07
RS60	1	19.05	11.91	12.70	5.96	12.85	14.75	2.4	18.1	15.6	28.2	22.8	31.3	8.83	1.53
	2					24.25	26.25				52.6		62.6	15.0	3.04
RS80	1	25.40	15.88	15.88	7.94	16.25	19.25	3.2	24.1	20.8	36.6	29.3	55.6	14.7	2.66
	2					30.9	33.9				67.5		111.2	25.0	5.27
	3					45.6	48.5				96.9		166.8	36.8	7.89
RS100	1	31.75	19.05	19.05	9.54	19.75	22.85	4.0	30.1	26.0	43.7	35.8	87.0	22.6	3.99
	2					37.7	40.8				81.5		174.0	38.3	7.85
	3					55.65	58.75				117.3		261.0	56.4	11.77
RS120	1	38.10	22.23	25.40	11.11	24.9	28.9	4.8	36.2	31.2	55.0	45.4	125.0	30.4	5.93
	2					47.6	51.6				103.2		250.0	51.7	11.70
	3					70.4	74.4				148.6		375.0	76.0	17.53
RS140	1	44.45	25.40	25.40	12.71	26.9	31.7	5.6	42.2	36.4	59.5	48.9	170.0	40.2	7.49
	2					51.35	56.15				112.3		340.0	68.4	14.83
	3					75.85	80.75				161.3		510.0	101	22.20
RS160	1	50.80	28.58	31.75	14.29	31.85	36.85	6.4	48.2	41.6	70.2	58.5	223.0	53.0	10.10
	2					61.15	66.15				132.2		446.0	90.0	20.04
	3					90.45	95.45				190.7		669.0	132	30.02
RS180	1	57.15	35.71	35.72	17.46	35.65	42.45	7.15	54.2	46.8	80.6	65.8	281.0	60.8	13.45
	2					68.75	75.35				151.1		562.0	103	26.52
	3					101.7	108.5				216.9		843.0	152	38.22
RS200	1	63.50	39.68	38.10	19.85	39.0	44.8	8.0	60.3	52.0	87.3	71.6	347.0	71.6	16.49
	2					74.85	80.65				161.2		694.0	122	32.63
	3					110.75	116.45				233.0		1041.0	179	49.02

Note: 1. RS35 is roller less bushed chain.
2. Maximum allowable load when using 1-pitch offset link is 65% of the above.

Model numbering example **RS80 -BIS -1 -RP + 110L -MWJR**

- RS80: Size
- BIS: Series
- 1: Number of strands
- RP: Pin type
- 110L: Number of links
- MWJR: End link



Note: Connecting link of RS08B-RS16B is clip type.

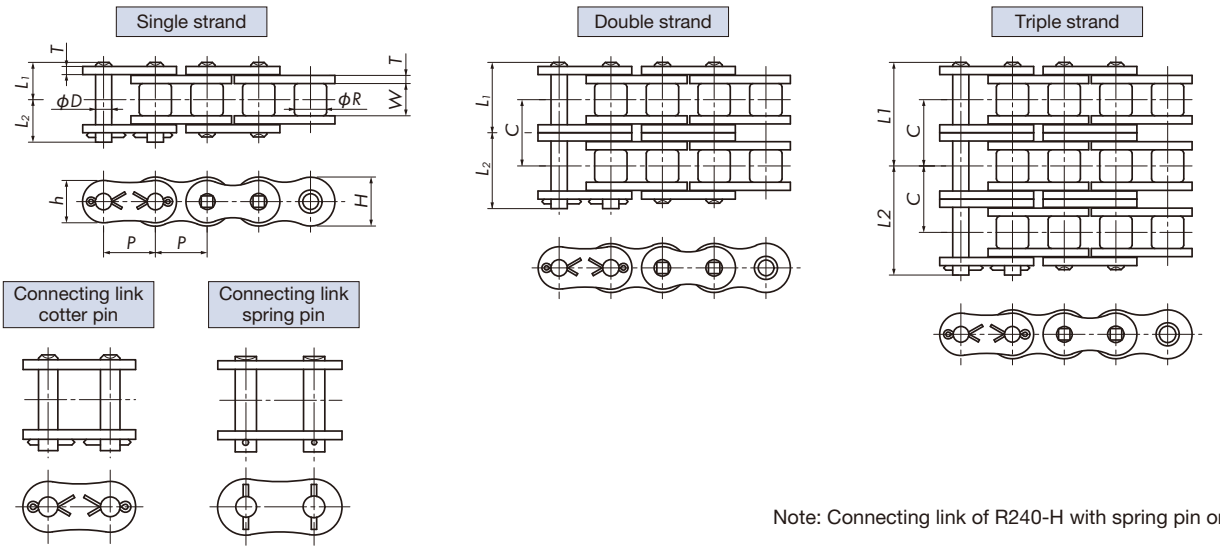
■ Specifications

Size	Number of strands	Pitch *P*	Roller dia. *R*	Inner width of inner link *W*	Pins			Plates				Offset pin length *L*	Transverse pitch *C*	ISO 606 min. tensile strength kN	Max. allowable load kN	Approx. mass kg/m
					Dia. *D*	L_1	L_2	Thickness *T*	Thickness *t*	Height *H*	Height *h*					
RS08B	1	12.70	8.51	7.75	4.45	8.4	10.0	1.6	1.6	11.8	10.4	18.6	13.92	17.8	3.80	0.70
	2					15.3	16.9					34.5		31.1	6.46	1.35
RS10B	1	15.875	10.16	9.65	5.08	9.55	11.25	1.5	1.5	14.7	13.7	20.8	16.59	22.2	4.52	0.95
	2					17.85	19.55					39.4		44.5	7.68	1.85
RS12B	1	19.05	12.07	11.68	5.72	11.1	13.0	1.8	1.8	16.1	16.1	24.4	19.46	28.9	5.28	1.25
	2					20.85	22.75					45.9		57.8	8.98	2.50
RS16B	1	25.40	15.88	17.02	8.28	17.75	19.95	4.0	3.2	21.0	20.8	41.1	31.88	60.0	13.1	2.70
	2					33.55	35.75					75.2		106.0	22.3	5.40
	3					49.5	51.7					107.1		160.0	32.8	8.00
RS20B	1	31.75	19.05	19.56	10.19	19.9	23.1	4.4	3.4	26.0	26.0	46.6	36.45	95.0	18.4	3.85
	2					38.25	41.45					84.6		170.0	31.3	7.65
	3					56.5	59.7					121.0		250.0	46.0	11.45
RS24B	1	38.10	25.40	25.40	14.63	26.65	31.85	6.0	5.6	33.4	31.2	61.7	48.36	160.0	27.1	7.45
	2					50.8	56.0					112.8		280.0	46.1	14.65
	3					75.1	80.2					161.1		425.0	67.8	21.75
RS28B	1	44.45	27.94	30.99	15.90	32.45	37.45	7.5	6.3	36.4	36.4	74.4	59.56	200.0	37.5	9.45
	2					62.15	67.15					136.6		360.0	63.8	18.80
	3					91.95	96.95					195.9		530.0	93.8	28.20
RS32B	1	50.80	29.21	30.99	17.81	32.1	37.7	7.0	6.3	42.2	41.6	73.3	58.55	250.0	41.0	10.25
	2					61.25	66.85					134.5		450.0	69.7	20.10
	3					90.5	96.1					192.6		670.0	103	29.90
RS40B	1	63.50	39.37	38.10	22.89	39.25	45.05	8.5	8.0	52.9	52.0	88.6	72.29	355.0	51.0	16.35
	2					75.4	81.2					163.2		630.0	86.7	32.00
	3					111.5	117.3					235.3		950.0	128	47.75

Note: Maximum allowable load when using 1-pitch offset link is 60% of the above.

Model numbering example **RS16B -BIS -1 -RP + 110L -MCJR**

- RS16B: Size
- -BIS: Series
- -1: Number of strands
- -RP: Pin type
- 110L: Number of links
- -MCJR: End link



Note: Connecting link of R240-H with spring pin only.

Specifications

Size & series	Number of strands	Pitch *P*	Roller dia. *R*	Inner width of inner link *W*	Plates			Pins			Transverse pitch *C*	ISO 606 min.tensile strength kN	Max. allowable load kN	Approx. mass kg/m
					Thickness *T*	Height		Dia. *D*	L_1	L_2				
						H	*h*							
RS60-HT	1	19.05	11.91	12.70	3.2	18.1	15.6	5.96	14.8	17.0	26.1	41.5	9.81	1.80
	2								27.8	29.9		83.0	16.7	3.59
	3								40.85	42.95		124.5	24.5	5.36
RS80-HT	1	25.40	15.88	15.88	4.0	24.1	20.8	7.94	18.3	20.9	32.6	69.2	16.2	3.11
	2								34.6	37.2		138.4	27.6	6.18
	3								50.95	53.55		207.6	40.5	9.24
RS100-HT	1	31.75	19.05	19.05	4.8	30.1	26.0	9.54	21.8	24.5	39.1	104.0	24.5	4.58
	2								41.4	44.1		208.0	41.7	9.03
	3								61.0	63.6		312.0	61.3	13.54
RS120-HT	1	38.10	22.23	25.40	5.6	36.2	31.2	11.11	26.95	30.55	48.9	146.0	32.4	6.53
	2								51.4	55.0		292.0	55.0	12.90
	3								75.9	79.4		438.0	80.9	19.33
RS140-HT	1	44.45	25.40	25.40	6.4	42.2	36.4	12.71	28.9	33.1	52.2	194.0	42.7	8.27
	2								55.0	59.5		388.0	72.6	16.38
	3								81.15	85.25		582.0	107	24.54
RS160-HT	1	50.80	28.58	31.75	7.15	48.2	41.6	14.29	33.95	38.45	61.9	250.0	55.9	10.97
	2								64.9	69.6		500.0	95	21.78
	3								95.95	100.45		750.0	140	32.63
RS60-H	1	19.05	11.91	12.70	3.2	18.1	15.6	5.96	14.8	17.0	26.1	31.3	8.83	1.80
	2								27.8	29.9		62.6	15.0	3.59
	3								40.85	42.95		93.9	22.1	5.36
RS80-H	1	25.40	15.88	15.88	4.0	24.1	20.8	7.94	18.3	20.9	32.6	55.6	14.7	3.11
	2								34.6	37.2		112.2	25.0	6.18
	3								50.95	53.55		166.8	36.8	9.24
RS100-H	1	31.75	19.05	19.05	4.8	30.1	26.0	9.54	21.8	24.5	39.1	87.0	22.6	4.58
	2								41.4	44.1		174.0	38.3	9.03
	3								61.0	63.6		261.0	56.4	13.54
RS120-H	1	38.10	22.23	25.40	5.6	36.2	31.2	11.11	26.95	30.55	48.9	125.0	30.4	6.53
	2								51.4	55.0		250.0	51.7	12.90
	3								75.9	79.4		375.0	76.0	19.33
RS140-H	1	44.45	25.40	25.40	6.4	42.2	36.4	12.71	28.9	33.1	52.2	170.0	40.2	8.27
	2								55.0	59.5		340.0	68.4	16.38
	3								81.15	85.25		510.0	101	24.54
RS160-H	1	50.80	28.58	31.75	7.15	48.2	41.6	14.29	33.95	38.45	61.9	223.0	53.0	10.97
	2								64.9	69.6		446.0	90.0	21.78
	3								95.95	100.45		669.0	132	32.63
RS180-H	1	57.15	35.71	35.72	8.0	54.2	46.8	17.46	37.75	44.05	69.19	281.0	60.8	14.92
	2								72.35	78.55		562.0	103	29.57
	3								106.95	112.95		843.0	152	44.21
RS200-H	1	63.50	39.68	38.10	9.5	60.3	52.0	19.85	42.9	48.1	78.3	347.0	71.6	18.41
	2								82.05	87.3		694.0	122	36.47
	3								121.25	126.55		1041.0	179	54.77
RS240-H	1	76.20	47.63	47.63	12.7	72.4	62.4	23.81	54.8	62.3	101.2	500.0	99.0	29.13
	2								105.3	112.9		1000.0	168	57.35
	3								156.05	163.55		1500.0	248	85.47

Note: No offset links available.

Model numbering example **RS80 -BISHT -2 -RP + 70L -MWJR**

- RS80: Size
- -BISHT: Series
- -2: Number of strands
- -RP: Pin type
- 70L: Number of links
- -MWJR: End link

For Safe Use

Warning Observe the following points to prevent hazardous situations.

- Do not use chains or accessories (peripheral devices and parts) for anything other than their original purpose.
- Never perform additional work on the chain.
  - Do not anneal the various parts of the chain.
  - Do not clean the chain with acids or alkalis, as they may cause cracking.
  - Never electroplate the chain or its parts, as this may cause cracking due to hydrogen embrittlement.
  - Do not weld the chain, as the heat may cause cracking or a reduction in strength.
  - When heating or cutting the chain with a torch, remove the links immediately adjacent and do not use them again.
- When there is a need to replace a damaged (fractured) portion of a chain, always replace the whole chain with a new product rather than replacing only the damaged or fractured portion.
- When using a chain and sprocket on suspension equipment, establish a safety fence and strictly prevent entry to the area directly below the suspended object.
- Always install hazard protection devices (safety covers, etc.) for the chain and sprocket.
- Immediately stop using the chain if it comes into contact with a substance that can cause embrittlement cracking (acid, strong alkali, battery fluid, etc.) and replace with a new chain.
- When installing, removing, inspecting, maintaining, and lubricating the chain:
  - Perform the work according to the instruction manual or this catalog.
  - Always turn off the power switch to the equipment beforehand and make sure that it cannot be turned on accidentally.
  - Secure the chain and sprocket so that they cannot move freely.
  - Use a press or other special tool to cut and connect chain, and cut and connect using the proper procedures.
  - Wear clothing and protective gear (safety glasses, gloves, safety shoes, etc.) that are appropriate for the work.
  - Only experienced personnel should replace chains and sprockets.
- Install hazard protection devices (safety equipment, etc.) on suspension equipment using Leaf Chain to prevent hazard or injury in the event of chain failure.
- Install protection equipment for safety on the equipment side when using chain on personnel transport devices or lifting equipment.

Caution Observe the following points to prevent accidents.

- Only handle chains and sprockets after thoroughly understanding their structure and specifications.
- When installing chains and sprockets, inspect them in advance to confirm that they have not been damaged in transport.
- Always regularly inspect and maintain your chains and sprockets.
- Chain strength varies according to manufacturer. When selecting a chain based on a Tsubaki catalog always use the corresponding Tsubaki product.
- Minimum tensile strength refers to the failure point when a load is applied to the chain once and does not refer to the allowable operational load.
- Lubricate connecting links (CL/OL) before assembling onto the base chain.
- Always ensure that the final customer receives the instruction manual.
  - If you do not have the instruction manual, contact a Tsubaki representative with the product name, series name, and chain/model number to receive the appropriate manual.
- The product information given in this catalog is mainly for selection purposes. Thoroughly read the instruction manual before actually using this product, and use the product properly.

Warranty

1. Warranty Period

Products manufactured by Tsubakimoto Chain Co. (“Products”) are warranted against defects in materials and workmanship for eighteen (18) months from the date of shipment from the factory or twelve (12) months from the date the Products are first placed into operation (calculated from the date the Products have been installed on the customer’s equipment), whichever comes first.

2. Scope of Warranty

During the warranty period, if defects arise in the Products when installed, used, and maintained correctly in accordance to Tsubakimoto Chain’s catalogs, installation manuals (including any documents specially prepared and provided to the customer) and the like, Tsubakimoto Chain will repair or replace such defective Products thereof free of charge upon confirmation of said defect by Tsubakimoto Chain. This warranty shall only apply to Products received, and Tsubakimoto Chain shall not be liable for the following costs and/or damages (including installation manuals or other documents specially prepared and provided to the customer):

(1) Costs required for removing the defective Products from or re-installing the replacement Products on the customer’s equipment for replacement or repair of the defective Product, as well as any associated installation costs.
(2) Costs required to transport the customer’s equipment, if needed, to a repair shop or the like.
(3) Any consequential or indirect damages or loss of profits or benefits the customer may incur due to the defects or repair of the Products.

3. Out of Warranty Service and Repair

Regardless of the warranty period, Tsubakimoto Chain will provide investigation, repair, and/or manufacture of the Products for a fee should the Products experience problems or anomalies under the following situations.

(1) Placement, installation (including connecting and disconnecting), lubrication, or maintenance of the Products not in accordance with Tsubakimoto Chain’s catalogs, installation manuals (including documents specially prepared and provided to the customer), or the like.
(2) Use of the Products (including operating conditions, environment, and allowances) not in accordance with Tsubakimoto Chain’s catalogs, installation manuals (including documents specially prepared and provided to the customer), or the like.
(3) Inappropriate disassembly, modification, or processing of the Products by the customer.
(4) Use of the Products with damaged or worn products. (Example: Use of the Products with a worn sprocket, drum, rail, or the like.)
(5) When the operating conditions exceed the performance of the Products as selected using the Tsubakimoto Chain selection method.
(6) Use of the Products in conditions other than what have been discussed.
(7) When consumables such as bearings, oil seals, and lubricant in the Products deplete, wear, or degrade.
(8) When secondary damage occurs to the Products due to initial or primary damage or failure to the customer’s equipment.
(9) Damage or failure of the Products due to forces majeure such as natural disasters.
(10) Damage or failure of the Products due to unlawful conduct by third parties.
(11) Damage or failure of the Products due to causes not attributable to Tsubakimoto Chain

TSUBAKIMOTO CHAIN CO.

Japan	Tsubakimoto Chain Co.	https://tsubakimoto.com/

Global Group Companies

AMERICAS

United States	U.S. Tsubaki Power Transmission, LLC	https://www.ustsubaki.com/
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Thailand	Tsubakimoto (Thailand) Co., Ltd.	https://tsubaki.co.th/
Vietnam	Tsubakimoto Vietnam Co., Ltd.	https://tsubaki.net.vn/

EAST ASIA

Republic of Korea	Tsubakimoto Korea Co., Ltd.	https://tsubakimoto-tck.co.kr/
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CHINA

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