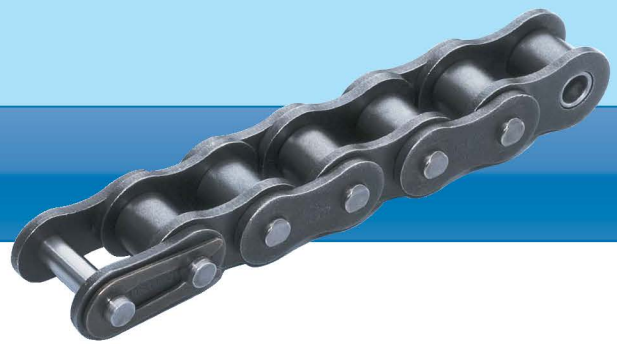


Drive Chains



Current chain number

RS40 - LMD - NP - 1 , pre-stretched

Chain size Series Number of strands

Quantity	Formation
458L	229L×2H(RL-RL)

*H = pc.

RS40 - LMD - NP - 1 - JL

Chain size Series Number of strands Connecting link

Quantity
2K

*K = pc.

New chain number

RS40 - LMDNP - 1 - RP + 230L - MCJR - P

① ② ③ ④ ⑤ ⑥ ⑦

Quantity
2H

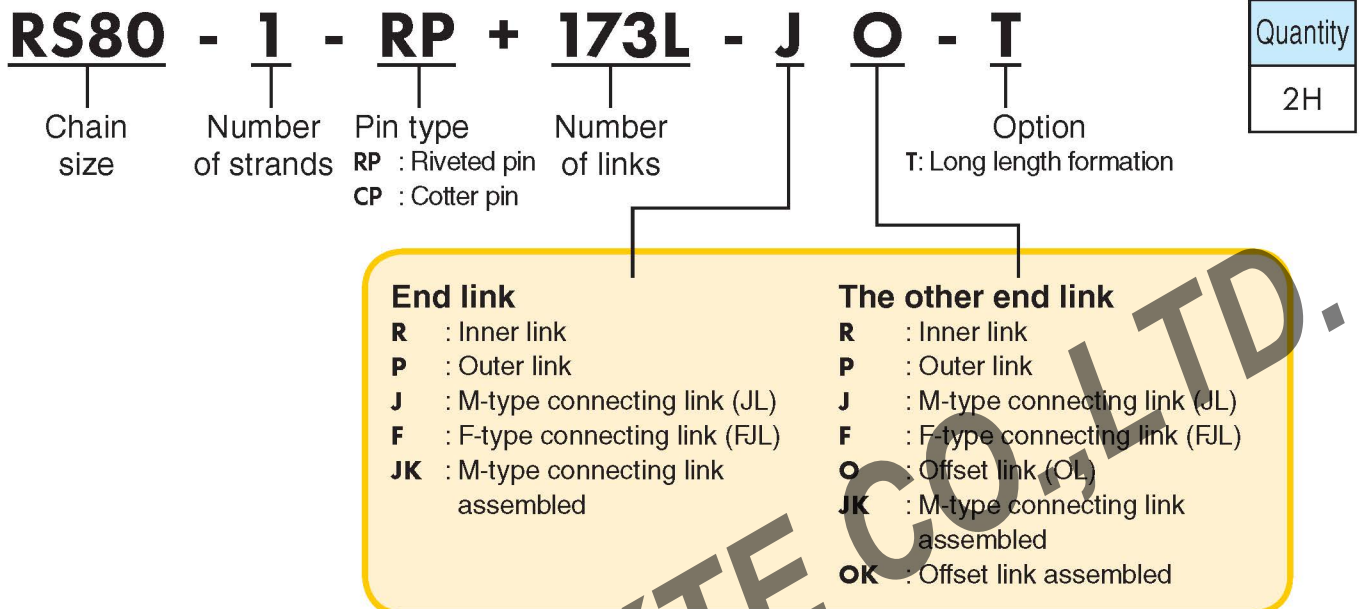
*H = pc.

①	Chain size	Select a chain size such as RS80.
②	Series	Select a specification such as LMD: Lambda, SUP: Super Chain, or SS: Stainless Steel type
③	Number of strands	The number of strands is required for all drive chains.
④	Pin type	Select RP (riveted pin type) or CP (cotter pin type).
⑤	Number of links	This indicates the number of links per piece. The chain is supplied in the standard length unit and balance.
⑥	Each end link formation	Refer to pages 6 to 9.
⑦	Option	Refer to page 10.

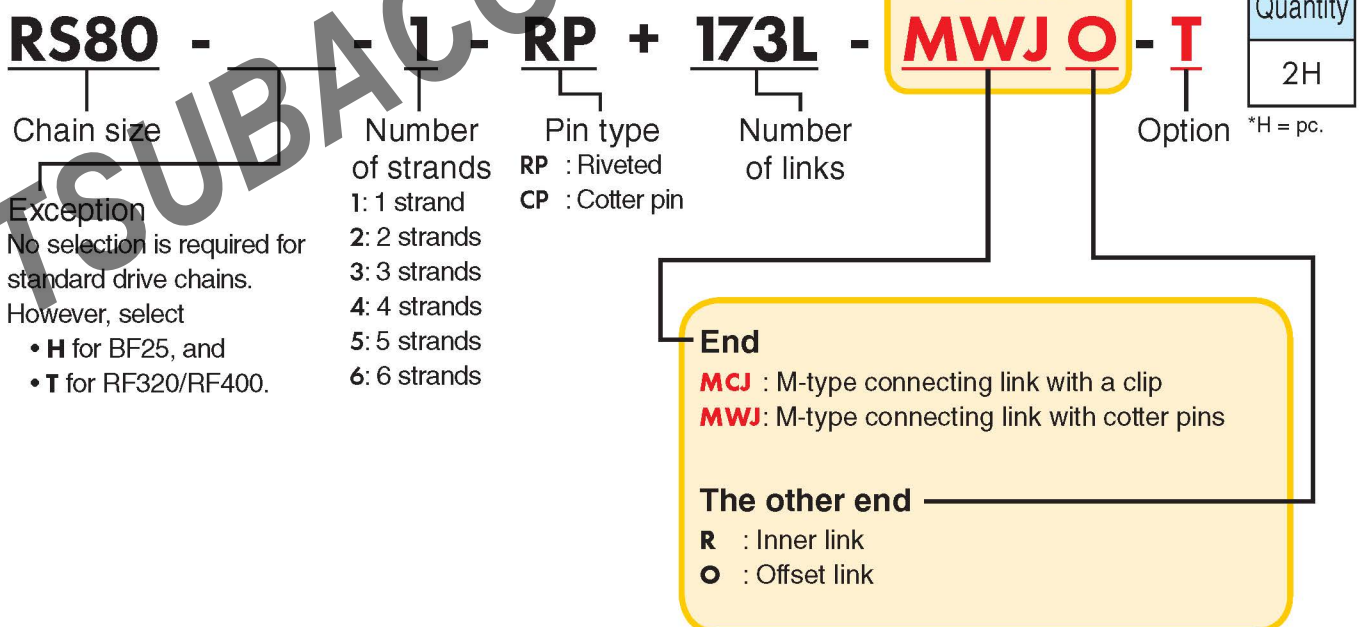
Drive Chains

Example of a current/new chain number (for single-line order procedure)

Current chain number



New chain number



* The end links shown are just an example. You can choose another symbol according to the specification as per page 6.

Drive Chains

Description of series

The hyphen is removed in the new chain number as shown in the table below. (series to be changed are shown in red)

Lube-Free Drive Chains

Current		New	
Lambda Chain	LMD	LMD	
RS Double-Strand Compatible Lambda Chain	LMD-S	LMDS	
Long-Life Lambda Chain	LMDX	LMDX	
Lambda Chain KF Series	LMD-KF	LMDKF	
Heavy Duty Lambda Chain	LMD-H	LMDH	
Surface-Treated Lambda Chain NP Series	LMD-NP	LMDNP	
RS Double-Strand Compatible Lambda Chain NP Series	LMD-S-NP	LMDSNP	
Heavy Duty Lambda Chain NP Series	LMD-H-NP	LMDHNP	
RS Double-Strand Compatible Lambda Chain KF Series	LMD-S-KF	LMDSKF	
RS Double-Strand Compatible Lambda Chain KFNP Series	LMD-S-KF-NP	LMDSKFNP	
Curved Lambda Chain	LMC-CU	LMCCU	
BS/DIN Lambda Chain	LM	LM	

Heavy Duty Drive Chains

Current		New	
Super Chain	SUP	SUP	
Heavy Duty Chain	HT	HT	
Super Heavy Duty Chain	SUP-H	SUPH	
Ultra Super Chain	US-N	USN	

Corrosion-Resistant Drive Chains

Current		New	
SS Series	SS	SS	
NS Series	NS	NS	
AS Series	AS	AS	
LSC Series	LSC	LSC	
NP Series	NP	NP	
NEP Series	NEP	NEP	
APP Series	APP	APP	
Titanium Chain	TI	TI	
Cold-Resistant Chain	KT	KT	
Low-Noise Chain	SNS	SNS	
Poly Steel Chain	PC	PC	
Poly Steel Chain, Super Chemical-Resistant	PC-SY	PCSY	

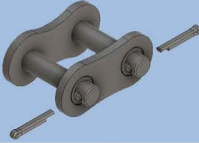
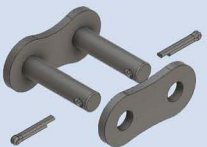
Drive Chains

Examples of end links

◆ Connecting links

Upper row: End link (Apply when ordering chains)

Lower row: End link (Apply when ordering individual parts)

	MWJ MWJL	M-type connecting link ^{*1} with cotter pins	Assembled to the chain before shipment^{*3} ↓ Add "K" to the end. Example: MWJ<u>K</u> FWJ<u>K</u>
	MCJ MCJL	M-type connecting link ^{*1} with a clip	
	MSJ MSJL	M-type connecting link ^{*1} with spring pins	
	FWJ FWJL	F-type connecting link ^{*2} with cotter pins	
	FCJ FCJL	F-type connecting link ^{*2} with a clip	
	FSJ FSJL	F-type connecting link ^{*2} with spring pins	

*1 M-type connecting link: Connecting link with slip fit

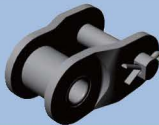
*2 F-type connecting link: Connecting link with press fit

*3 Please use option "E" when you need endless formation.

◆ Offset links

Upper row: End link (Apply when ordering chains)

Lower row: End link (Apply when ordering individual parts)

	O OL	Offset link	Assembled to the chain before shipment ↓ Add "K" to the end. Example: 2O<u>K</u>
	2O 2POL	2-pitch offset link	
	4O 4POL	4-pitch offset link	

Drive Chains

End links examples

The following are examples of typical end links you can select. Some end combinations cannot be selected depending on the combination of chain size, number of strands, specification, etc.

◆ Simplified link formation:

Symbol	Name	Description
	Connecting link	The connecting plate has a loose (slip) fit and tight (press) fit for M-type and F-type, respectively. The plate is fastened with a clip, cotter pins, or spring pins.
	Outer link	Two pins are press-fitted into two plates.
	Inner link	Two bushings are press-fitted into two plates. There is a roller outside the bushing.

Symbol	Name	Description
	Offset link	Used when a roller chain is formed with an odd number of links. The maximum allowable load drops.
	2-pitch Offset link	Used when a roller chain is formed with an odd number of links. The maximum allowable load may drop.

◆ If you use an even number of links:

End link				A side				B side	Chain formation
M	C	J	R	M-type	With a clip	Connecting link		Inner link	
F	C	J	R	F-type	With a clip	Connecting link		Inner link	
M	W	J	R	M-type	With cotter pins	Connecting link		Inner link	
F	W	J	R	F-type	With cotter pins	Connecting link		Inner link	
M	S	J	R	M-type	With spring pins	Connecting link		Inner link	
F	S	J	R	F-type	With spring pins	Connecting link		Inner link	
M	C	J	K	M-type	With a clip	Connecting link	Assembled	Inner link	
M	W	J	K	M-type	With cotter pins	Connecting link	Assembled	Inner link	
M	S	J	K	M-type	With spring pins	Connecting link	Assembled	Inner link	
M	C	J	R	M-type	With a clip	Connecting link		Inner link	
M	W	J	R	M-type	With cotter pins	Connecting link		Inner link	
M	S	J	R	M-type	With spring pins	Connecting link		Inner link	

◆ If you order an odd number of links (offset link):

End link				A side				B side	Chain formation
M	C	J	O	M-type	With a clip	Connecting link		Offset link	
M	W	J	O	M-type	With cotter pins	Connecting link		Offset link	
M	S	J	O	M-type	With spring pins	Connecting link		Offset link	
M	C	J	O	M-type	With a clip	Connecting link	Assembled	Offset link	
M	W	J	O	M-type	With cotter pins	Connecting link	Assembled	Offset link	
M	S	J	O	M-type	With spring pins	Connecting link	Assembled	Offset link	
M	C	J	O	M-type	With a clip	Connecting link		Offset link	
M	W	J	O	M-type	With cotter pins	Connecting link		Offset link	

Drive Chains

◆ If you order an odd number of links (inner link on each end):

End link			A side		B side		Chain formation	
R	R		Inner link		Inner link		A side	B side

End link*					A side	C side			B side	Chain formation		
R	M	C	J	R	Inner link	M-type	With a clip	Connecting link	Inner link	A side	C side	B side
R	M	W	J	R	Inner link	M-type	With cotter pins	Connecting link	Inner link			
R	M	S	J	R	Inner link	M-type	With spring pins	Connecting link	Inner link			

* Used when the number of links exceeds the standard length without option "T" (Long length formation).

◆ If you order an odd number of links (connecting link on each end):

End link						A side			B side		
M	C	J	M	C	J	M-type	With a clip	Connecting link	M-type	With a clip	Connecting link
F	C	J	F	C	J	F-type	With a clip	Connecting link	F-type	With a clip	Connecting link
M	W	J	M	W	J	M-type	With cotter pins	Connecting link	M-type	With cotter pins	Connecting link
F	W	J	F	W	J	F-type	With cotter pins	Connecting link	F-type	With cotter pins	Connecting link
M	S	J	M	S	J	M-type	With spring pins	Connecting link	M-type	With spring pins	Connecting link
F	S	J	F	S	J	F-type	With spring pins	Connecting link	F-type	With spring pins	Connecting link

Chain formation											
-----------------	--	--	--	--	--	--	--	--	--	--	--

A side

B side

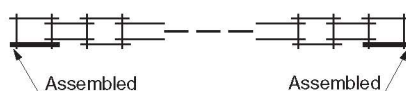


◆ If you order an odd number of links (connecting link on each end, assembled):

End link								A side				B side			
M	C	J	K	M	C	J	K	M-type	With a clip	Connecting link	Assembled	M-type	With a clip	Connecting link	Assembled
M	W	J	K	M	W	J	K	M-type	With cotter pins	Connecting link	Assembled	M-type	With cotter pins	Connecting link	Assembled
M	S	J	K	M	S	J	K	M-type	With spring pins	Connecting link	Assembled	M-type	With spring pins	Connecting link	Assembled
Chain formation															

A side

B side



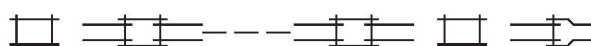
Drive Chains

◆ If you order an odd number of links (2-pitch offset link):

End link								A side			B side			
M	C	J	M	C	J	2	○	M-type	with a clip	Connecting link	M-type	with a clip	Connecting link	2-pitch offset link
M	W	J	M	W	J	2	○	M-type	with cotter pins	Connecting link	M-type	with cotter pins	Connecting link	2-pitch offset link
M	S	J	M	S	J	2	○	M-type	with spring pins	Connecting link	M-type	with spring pins	Connecting link	2-pitch offset link
Chain formation														

A side

B side

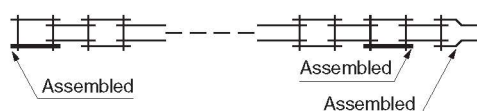


◆ If you order an odd number of links (connecting links and 2-pitch offset link assembled):

End link										A side				B side						
M	C	J	K	M	C	J	K	2	○	K	M-type	with a clip	Connecting link	Assembled	M-type	with a clip	Connecting link	Assembled	2-pitch Offset link	Assembled
M	W	J	K	M	W	J	K	2	○	K	M-type	with cotter pins	Connecting link	Assembled	M-type	with cotter pins	Connecting link	Assembled	2-pitch Offset link	Assembled
M	S	J	K	M	S	J	K	2	○	K	M-type	with spring pins	Connecting link	Assembled	M-type	with spring pins	Connecting link	Assembled	2-pitch Offset link	Assembled
Chain formation																				

A side

B side

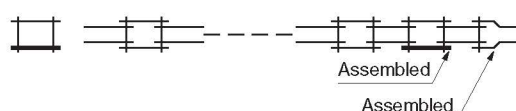


◆ If you order an odd number of links (2-pitch offset link and connecting link assembled, the other connecting link not assembled):

End link										A side			B side						
M	C	J	M	C	J	K	2	○	K	M-type	with a clip	Connecting link	M-type	with a clip	Connecting link	Assembled	2-pitch Offset link	Assembled	
M	W	J	M	W	J	K	2	○	K	M-type	with cotter pins	Connecting link	M-type	with cotter pins	Connecting link	Assembled	2-pitch Offset link	Assembled	
M	S	J	M	S	J	K	2	○	K	M-type	with spring pins	Connecting link	M-type	with spring pins	Connecting link	Assembled	2-pitch Offset link	Assembled	
Chain formation																			

A side

B side



Drive Chains

Options

Option	Name	Description										
T	Long length formation	A chain with an overall length (3,048 mm, 1 unit) that exceeds the standard length is called a long length chain. Chains that exceed the lengths shown in the table below have a super long length formation. Contact a Tsubaki representative for more information.										
		<table><tr><td></td><td>RS25</td><td>RS35–RS180</td><td>RS200</td><td>RS240</td></tr><tr><td>Single strand</td><td>3 units</td><td>2.5 units</td><td>100 links (approx. 6.3 m)</td><td>70 links (approx. 5.3 m)</td></tr></table>		RS25	RS35–RS180	RS200	RS240	Single strand	3 units	2.5 units	100 links (approx. 6.3 m)	70 links (approx. 5.3 m)
			RS25	RS35–RS180	RS200	RS240						
Single strand	3 units	2.5 units	100 links (approx. 6.3 m)	70 links (approx. 5.3 m)								
E	Endless formation	The chain is shaped into a ring for delivery. * "K" is not for the endless formation. If an endless formation is required, select this option. Example chain number for endless formation order 1. Connecting link endless RS60-1-RP+50L-MCJKR-E Assembled with MCJL (colored portion) * Actual components are not colored. 2. Riveted endless RS60-1-RP-50L-PRPKR-E Assembled with PRPL (colored portion) * Actual components are not colored. 										
R	Reel formation	Long length single-strand chains and leaf chains in sizes from RS25 to RS80 can be supplied on long length reel. Example chain number for reel formation order RS80-1-RP+350L-MWJR-R										
P	Pre-stretched	A roller chain slightly elongates for several tens of hours after the first use due to each part running in. This option reduces the initial elongation. * The run-in period varies according to the operating conditions. This option does not eliminate the initial elongation completely.										
2 3 4	Matched and tagged chain	The lengths of roller chains vary within the manufacturing tolerance (0 to +0.15% according to JIS standard). "Matched and tagged formation" is performed to reduce the relative difference in the overall lengths of one set of chains used in parallel. 2: Matched and tagged chain in 2 strands. Order by the number in multiples of 2. 3: Matched and tagged chain in 3 strands. Order by the number in multiples of 3. 4: Matched and tagged chain in 4 strands. Order by the number in multiples of 4.										

Drive Chains

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" is for piece.

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

Ordering example

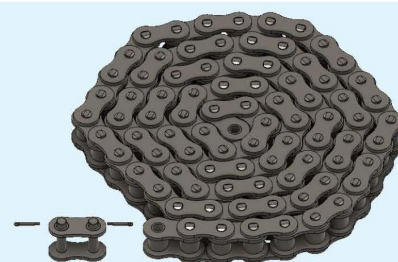
1. Chain (unit basis)

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

If you order five pieces of RS100-1-RP by unit.

Chain No.	Quantity	Unit
RS100-1-RP-U	5	U



2. Chain (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 conversion into the number of links

When placing an order for RS60-1-RP with a length of 150 mm (including connecting links)

150 mm ÷ 19.05 mm (chain pitch) = 7.9 links -> 8 links (including connecting links)

* The chain length is 152.4 mm.

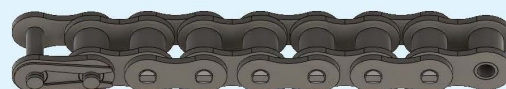
→ Ordering example

If you order five pieces of RS60-1-RP using 8 links (including M-type connecting links with a clip)

Chain No.	Quantity	Unit
RS60-1-RP+8L- MCJ R	5	H

MC: M-type connecting link with a clip

R: Inner link



The product will be delivered without a connecting link being assembled.

* If a connecting link is assembled like the above sketch, the end link will be MCJKR.

Drive Chains

3. Chain (with a connecting link and offset link on both ends)

→ Ordering example

If you order 10 pieces of RS50-LMD-1-RP using 11 links (a connecting link and a 1-pitch offset link are arranged as shown in the figure)

Chain No.	Quantity	Unit
RS50-LMD-1-RP+11L-MCJ O	10	H

MC: M-type connecting link with a clip

O: Offset link



The product will be delivered without a connecting link and an offset link being assembled.
* If a connecting link and an offset link are assembled like the above sketch, the end link will be MCJKOK.

4. Individual parts such as connecting links and offset links

→ Ordering example

If you order 10 F-type connecting links with cotter pins and one 2-pitch offset link for RS160-1

Chain No.	Quantity	Unit
RS160-1-FWJL	10	K
RS160-1-2POL	1	K



5. When adding an option

→ Ordering example

You are adding an option for pre-stretched to 10 pieces of RS100-NEP-1-RP using 80 links (including one M-type connecting link with cotter pins).
If you order two M-type connecting links with cotter pins and two offset links as spare parts

Chain No.	Quantity	Unit
RS100-NEP-1-RP+80L-MWJR-P	10	H
RS100-NEP-1-MWJL	2	K
RS100-NEP-1-OL	2	K

P: Pre-stretched



*Options such as pre-stretched cannot be specified for individual parts.

6. Other orders

- ◆ Formation when a connecting link or an offset link is assembled into a specified location other than the chain end.
 - ◆ Formation made of one chain with a length of 2.5 units or more without using a connecting link (super long length formation)
- You can also ask requests for special specifications. Contact us for details.