



TSUBAKI Screw Lock Link Connecting Links for Large Size Conveyor Chain

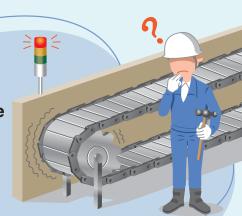


Screw Lock Link™ allows



Using a hammer is dangerous.

The outer plate pushing in too far results in poor articulation.



Connection/disconnection on large size conveyor chains requires significant labor.



Chain can't be repaired quickly if there's a problem.

Requires a lot of tools and jigs.



Makes work safe

No hammering required.

Reduces production loss

As long as you have spare parts on hand, restoration is fast.



Prevents improper installation

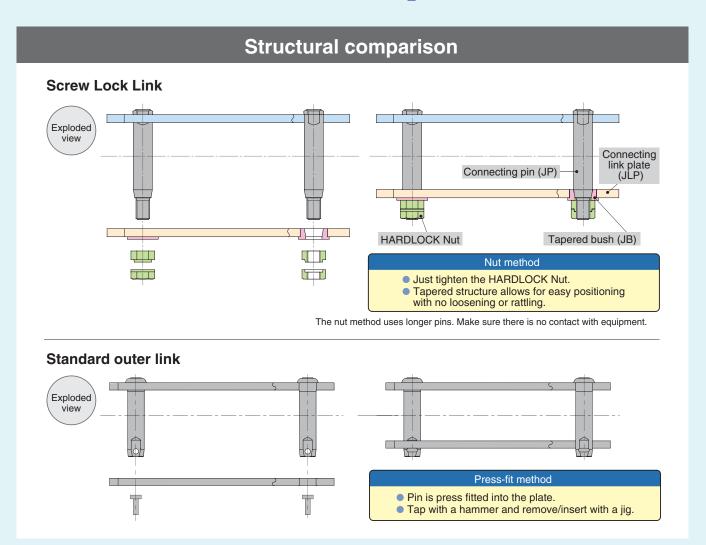
Avoid problems such as poor articulation due to the outer plate pushing in too far.

Easy installation

Reduces labor: the only tool needed is a torque wrench.

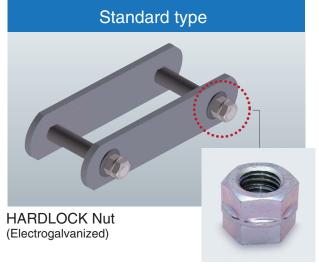
No reduction in strength.

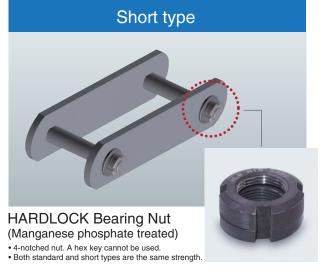
safe and fast replacement.



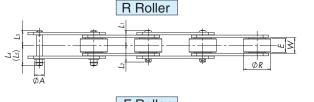
2 types of nuts available

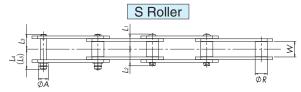
A short type with a minimized pin length is also available.

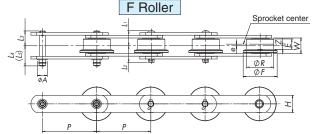


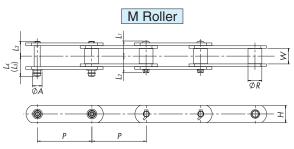


Sizes RF10 to RF26









Standard Type Short Type

■ Connecting Link Dimensions

		Max. Allowable Load		Min. Tensile Strength		Pin Connecting Pin			Nut Size		Connecting Bush Flange Dia.	Approx. A	Additional ass each)
Size	DT kN{kgf}	AT kN{kgf}	DT kN{kgf}	AT kN{kgf}	Pitch P	Lз	Standard Type	Short Type	Standard Type	Short Type	Α	Standard Type	Short Type
RF10100	17.	00.0	107	1.0	100								
RF10125	17.6 {1 <i>7</i> 90}	32.3 {3290}	107 {11000}	169 {17000}	125	33	48.5	42	M12	M12	25	0.13	0.08
RF10150	(1770)	[0270]			150								
RF12200	26.6	39.9	160	249	200	40.5	55.5	49	M12	M12	28	0.17	0.11
RF12250	{2710}	{4060}	{16500}	{25500}	250	40.5	33.3	49	///12	MIZ	20	0.17	0.11
RF17200	25.0	E E O	010	336 {34000}	200			61.5		M15	32	0.25	0.14
RF17250	35.0 {3570}	55.3	213 {22000}		250	51.5	69.5		M14				
RF17300	(00, 0)	(00.0)	(22000)	(0.000)	300								
RF26200					200								
RF26250	44.9	74.3	285	448	250	55.5	74	64	M16	M17	36	0.33	0.17
RF26300	{4570}	} {7580}	{29000}	{45500}	300	55.5	/4	04	MIO	/V\17	30	0.33	0.17
RF26450					450								

■ Base Chain Dimensions

	Roller Type	laaaa Bala	/idth VVIdth	Pi	in	Roller									
C.		Inner Link Inner Width W		Cotte	er Pin	R R	oller				S Roller	M Roller			
Size				L ₁	L 2	Dia. R	Contact Width	Dia. <i>R</i>	Flange Dia.	Contact Width	Off-center e	Z	Dia. R	Dia. R	
RF10100	R/S/M									_					
RF10125	R/F/S/M	30	38.1	33	36	50.8	27	50.8	65	20	3	7	29	31.8	
RF10150	K/1/3/141							30.0	05	20	3	/			
RF12200	R/F/S/M	37.1	44.5	40.5	43	65	32	65	80	24	4	8	34.9	38.1	
RF12250	K/1/0/141	37.1	44.5	40.5	45	05	32	03	00	24	4	0	34.7	30.1	
RF17200															
RF17250	R/F/S/M	51.4	50.8	51.5	58	80	44	80	100	34	5	12	40.1	44.5	
RF17300															
RF26200	S/M														
RF26250		57.2	63.5	55.5	61	100	50	100	125	38	6	13	44.5	50.8	
RF26300	R/F/S/M	37.2	00.5	33.3	01	100	30	100	123	30		13	44.5	30.0	
RF26450															

Note: 1. Operating temperature range is -20°C to 150°C. Contact a Tsubaki representative for use outside this range.

2. L₄ and L₅ are longer pin lengths than L₂. Make sure there is no contact with equipment.
3. Regarding selection and usage, see Screw Lock Link Handling Instructions on page 5, and the Tsubaki Large Size Conveyor Chains & Sprockets catalog.

4. To tighten the short-type nut, use a hook spanner or socket wrench.
5. For attachment type, see the *Tsubaki Large Size Conveyor Chains & Sprockets* catalog.
6. Sizes (e.g. in inches) and specifications (e.g. stainless steel) other than those in the table above may also be manufactured. Contact a Tsubaki representative.

Model Numbering Example

Connecting Link

Assembly Chain

RF12200 - DT - A2 - LNJL 8K

Size Attachment type

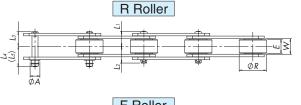
Quantity/unit (piece) Part name

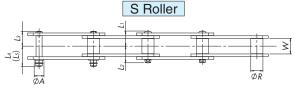
LNJL: Standard type LSJL: Short type

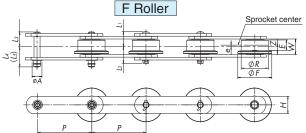
RF12200 R - AT - 2LK2 + 140L - LNJR 2H Size No. of links Series Quantity/unit Attachment End link Roller type spacing/type

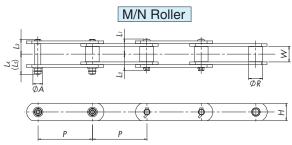
Packing \blacktriangleright 14L (link) × 20H (strand) Total 140L (link) × 2H (strand) Note: A Screw Lock Link is attached to one end of the 14th link.

Sizes RF36 to RF90









Standard Type

Short Type

 \bigcirc $^{\perp}$

■ Connecting Link Dimensions

	Size	Max. Al	lowable ad	Min. Tensile Strength		Pitch	Pin Connecting Pin			Nut Size		Connecting Bush Flange Dia.	Approx. Additional Mass (kg/each)	
	Size	DT kN{kgf}	AT kN{kgf}	DT kN{kgf}	AT kN{kgf}	P	L ₃	Standard Type L 4	Short Type L 5	Standard Type	Short Type	Α	Standard Type	Short Type
İ	RF36250					250								
	RF36300	68.0	97.4 {9930}	457 {46500}	614 {62500}	300	66	91.5	78.5	M20	M20	42	0.55	0.26
	RF36450	{6930}				450								
	RF36600					600								
	RF52300	71.4	1 <i>47</i> {15000}	481	953	300		110	93.5		M25	48	0.85	0.39
	RF52450				{97000}	450				M24				
	RF52600	()				600								
	RF60300	71.4	149	479	1010	300					M30	55	1.18	0.53
	RF60350		{15200}	{49000}	{103000}	350	72.5	104	86.5	M27				
	RF60400	,	,	,	,	400								
	RF90350	113	233	754	1600	350					0 M35	65	1.85	0.88
	RF90400			{77000}			85.5	120.5	102	M30				
	RF90500	<u> </u>		i ,		500								

■ Base Chain Dimensions

	Roller Type	Inner Link Inner Width W	Plate Width H	Pi	n	Roller												
Size				Cotter Pin		R Roller		F Roller					S Roller	M Roller				
Size				L ₁	L 2	Dia. R	Contact Width E	Dia. <i>R</i>	Flange Dia.	Contact Width	Off-center e	Z	Dia. R	Dia.				
RF36250	S/M																	
RF36300		66.7	76.2	68	78	125	56	125	150	42	7	14	50.8	57.2				
RF36450	R/F/S/M			00														
RF36600																		
RF52300																		
RF52450	R/F/S	77	76.2	82	90	140	65	140	170	49	8	16.5	57.2	_				
RF52600																		
RF60300																		
RF60350	R/F/N	77	90	77	83.5	140	65	140	170	49	8	16.5	_	70				
RF60400																		
RF90350	N								_									
RF90400	─ R/F/N	88 11	8 110	89.5	95.5	170	76	170	205	56	10	18	_	85				
RF90500						170	, 0	1/0	203	50	10	18						

Note: 1. Operating temperature range is -20°C to 150°C. Contact a Tsubaki representative for use outside this range.

2. L₄ and L₅ are longer pin lengths than L₂. Make sure there is no contact with equipment.

3. Regarding selection and usage, see Screw Lock Link Handling Instructions on page 5, and the Tsubaki Large Size Conveyor Chains & Sprockets catalog.

4. To tighten the short-type nut, use a hook spanner or socket wrench.

5. For attachment type, see the Tsubaki Large Size Conveyor Chains & Sprockets catalog.

6. Sizes (e.g. in inches) and specifications (e.g. stainless steel) other than those in the table above may also be manufactured. Contact a Tsubaki representative.

End Links

End Link Code	One End	Other End
LNJR	Screw Lock Link standard type	Inner link
LSJR	Screw Lock Link short type	Inner link
LNJ LNJ	Screw Lock Link standard type	Screw Lock Link standard type
LSJ LSJ	Screw Lock Link short type	Screw Lock Link short type

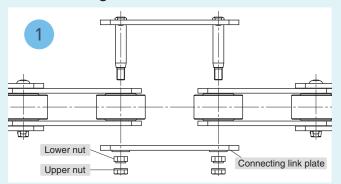
Note: The Screw Lock Link (connecting link) is shipped with its lower nut tightened at the prescribed torque and its upper nut lightly tightened to prevent it from getting lost.

Screw Lock Link Handling Instructions

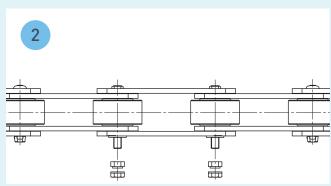
Caution

Whether the conveyor is parallel, slanted, or vertical, always attach a chain block or piano wire to the area to be connected/disconnected to ensure there is no tension on the chain.

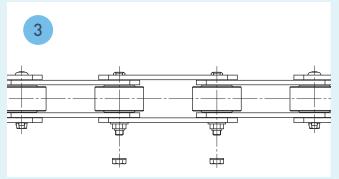
Connecting



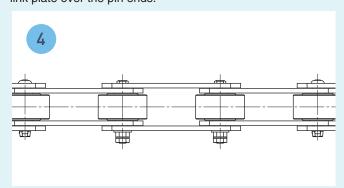
Remove the nuts and the connecting link plate.



Pull both ends of the chain together, insert the connecting link into the joints of the inner link, and place the connecting link plate over the pin ends.



Tighten the lower nut at the torque prescribed below. Before tightening the nut, remove oil and other substances from the screw threads using a cloth.



Tighten the upper nut at the torque prescribed below to complete connection.

Disconnecting



Remove the upper nut, then the lower nut.



Remove the connecting link plate, then remove the connecting link from the inner link.

Note: Nuts may be difficult to remove due to things like residue from conveyed items or corrosion.

Maintenance and Inspection

Nuts may come loose or fall off depending on usage environment and conditions. Periodically check for loosening of the nuts. (Making matchmarks on the nuts makes it easier to check them.)

Refer to the Tsubaki Large Size Conveyor Chains & Sprockets catalogue for maintenance and inspection.

■ Nut Tightening Torque (N·m)*1

		RF10	RF12	RF17	RF26	RF36	RF52	RF60	RF90
	Nut Size	M12×P1.75	M12×P1.75	M14×P2.0	M16×P2.0	M20×P2.5	M24×P3.0	M27×P3.0	M30×P3.5
Standard Type	Lower Nut	27–32	28–33	46–55	72–82	120–130	218–228	250–260	367–377
	Upper Nut	27–32	28–33	46–55	72-82	120–130	218–228	250–260	367–377
	Nut Size	M12×P1.0	M12×P1.0	M15×P1.0	M17×P1.0	M20×P1.0	M25×P1.5	M30×P1.5	M35×P1.5
Short Type* ²	Lower Nut	23–27	28–33	49–58	76–86	117–127	227–237	254–264	428–438
,,	Upper Nut	16–19	16–19	28–33	37–44	55–65	80–90	115–125	130–140

^{*1} The tightening torque in the above table is for steel nuts. Contact a Tsubaki representative regarding stainless steel nuts. *2 The short type is a 4-notched nut. Use a hook spanner or socket wrench.

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.
- 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 using the chain 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.
- Strictly observe the rules and regulations concerning occupational safety and health in your region/country.
- When installing, removing, inspecting, maintaining, and lubricating the chain:
 - · Perform the work as instructed in the manual, catalog, or other documentation that was provided with the product.
 - · Always turn off the power switch to the equipment beforehand and make sure that it cannot be turned on accidentally.
 - · Secure the chain and parts 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.
 - · 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 replace chains and sprockets.



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.

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

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