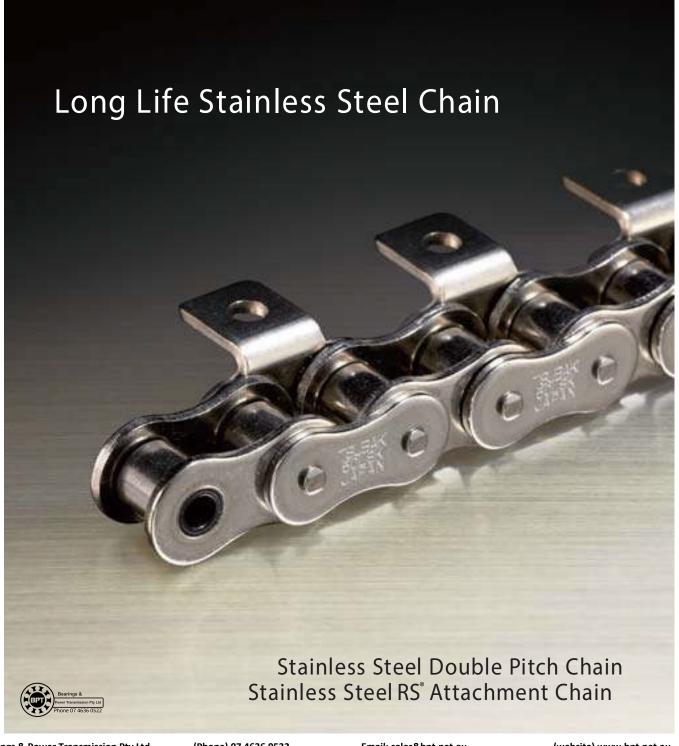


TSUBAKI Small Size Conveyor Chain LSK™Series Corrosion Resistant



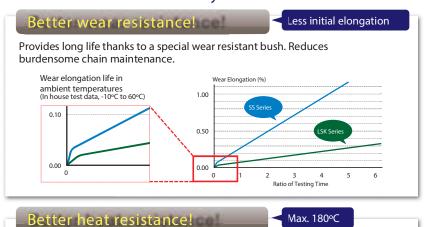


Introducing Tsubaki's new LSK[™] Series

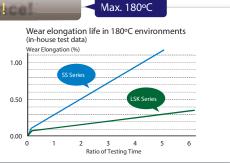
Tsubaki has added another series to its corrosion resistant stainless steel attachment chain line up. The LSK Series chain demonstrates high performance in high temperatures, dry conditions, in contact with water, or even underwater to meet the needs of the food industry and a wide range of other industries. Let Tsubaki's LSK Series be the next solution for your production lines.

Photo: RF2050R-LSK-1LK1

LSK Series with its revolutionary construction offers...







Better chemical resistance!

Tsubaki uses its extensive plastic chain engineering know-how to carefully select the special engineering plastic used with the bush.



Chain Sizes and Performance

Photo: RF2050RPKV-LSK-1LK1

*LSK Series cannot be connected to standard specifications due to the differences in their pins

Chain Size	Roller Type	Roller Material	Maximum Allowable Load	Roller Allowable Load	Continuous Usage Temperature °C					
Cham Size	1.0	induction in decide	kN {kgf }	kN{k g }/(each)	KV Series Rollers	Stain less Steel Rollers				
RS40-LSK			0.44 { 45}	0.05 { 5}						
RS50-LSK	- - S		0.69 { 70}	0.06 { 6}						
RS60-LSK		Stainless steel	1.03 {105}	0.09 { 9}						
RF2040S-LSK			0.44 { 45}	0.05 { 5}	_					
RF2050S-LSK			0.69 { 70}	0.06 { 6}		−20°C ∼180°C				
RF2060S-LSK	_		1.03 {105}	0.09 { 9}		.55 €				
RF2040R-LSK			0.44 { 45}	0.20 {20}						
RF2050R-LSK	R	Stainless steel, KV Series	0.69 { 70}	0.29 {30}	−20°C ∼180°C					
RF2060R-LSK		TW Series	1.03 {105}	0.49 {50}						

Note:

- 1. Contact a Tsubaki representative if you will degrease the chain before use.
- 2. Regularly clean any black wear dust that may develop.
- ${\it 3.}\ Contact\ a\ Tsubaki\ representative\ regarding\ extended\ pins.$
- 4. Standard Series engineering plastic rollers (white) may suffer premature wear in contact with or under water and are not rec

ommended for these environments.



chain for all your production line needs!

Long Life

Heat Resistance

Chemical Resistance



Tsubaki's new LSK Series chain, with greatly improved wear resistance.

Uses a special bush in the bearing area

Tsubaki's LSK Series stainless steel conveyor chain uses a special bush to provide self-lubricating functions between pin and bush for a longer wear life. In addition to stainless steel rollers, we also offer KV Series rollers for our LSK Series Double Pitch chain.

Material

Base chain:18-8 stainless steel (SUS304 equiv.)

Bush:18-8 stainless steel (SUS304 equiv.) + special engineering plastic (Special engineering plastic approved by the Food Sanitation Act)

Roller:18-8 stainless steel (SUS304 equiv.) KV Series (special engineering plastic, black)

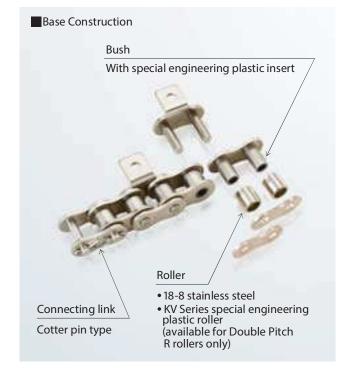
Chain Size

RS40-LSK – RS60-LSK RF2040-LSK – RF2060LSK *Made to order item; above sizes can be used with attachments.

Usage Temperature Range

-20°C to 180°C

(With stainless steel or KV Series engineering plastic rollers)



LSK Series - The solution for all your conveyance needs!

Minimizes chain elongation for less replacement costs and maintenance time!

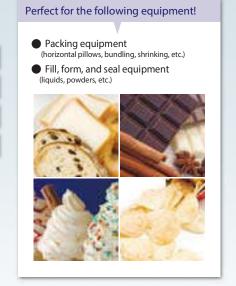
Solves problems with mis-positioning during work transfer!

Quieter for a better work environment!

Say goodbye to articulation worries!







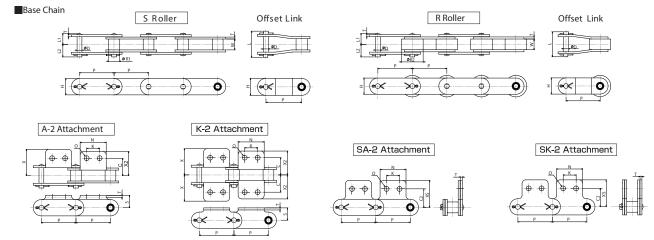
Bearings & Power Transmission Ptv Ltd

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Double Pitch Stainless Steel Chain



- •LSK Series cannot be connected to standard specifications due to the differences in pins.
- Connecting links use cotter pins.
- Offset links use cotter pins on both ends. Contact a Tsubaki representative regarding extended pins. Drawings above show attachments on every link.
- Drawings above show S rollers on the attachments, but the dimensions are the same with R rollers. Drawings above show attachmen

ts on every link.

■Base Chain Dimensions

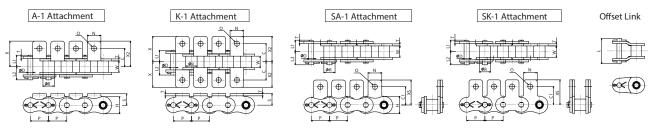
		Roller Diameter				Р	in		Pla	ite	Approx	No. of		
Tsubaki Chain No.	Pitch	S Roller	R Roller	Inner Width	Diameter	L1	L2	L	Thickness T	Width	Stainless St	eel Rollers	Plastic Rollers	Links
	Ρ	R ₁	R ₁ R ₂	W	D					Н	S Roller	R Roller	R Roller	per Unit
RF2040-LSK	25.40	7.92	15.88	7.95	3.56	8.0	9.2	18.5	1.5	12.0	0.51	0.87	0.52	120
RF2050-LSK	31.75	10.16	19.05	9.53	4.45	10.15	11.85	23.9	2.0	15.0	0.84	1.30	0.83	96
RF2060-LSK	38.10	11.91	22.23	12.70	5.09	14.35	15.95	32.0	3.2	17.2	1.51	2.19	1.48	80

■Attachment Dimensions

Tsubaki Chain No.	С	C ₁	C ₂	K	N	0	S	Х	X2	XS
RF2040-LSK	12.7	11.1	13.6	9.5	19.1	3.6	9.1	19.3	17.6	19.8
RF2050-LSK	15.9	14.3	15.9	11.9	23.8	5.2	11.1	24.2	22.0	24.6
RF2060-LSK	21.45	17.5	19.1	14.3	28.6	5.2	14.7	31.5	28.2	30.6

RS® Stainless Steel Attachment Chain

■Base Chain



- •LSK Series cannot be connected to standard specifications due to the differences in pins. •Connecting links use cotter pins.
- Offset links use cotter pins on both ends. Contact a Tsubaki representative regarding extended pins. Drawings above show attachments on every link.

Base Chain Dimensions

Tsubaki	Pitch	Roller	Inner Link Inner Width		P	in			Plate	Approximate Mass	No. of			
	Chain No.	Р	Diameter R	W	Diameter D	L1	L2	L	Thickness T	Width H	Width h	kg/m	Links per Unit	
	RS40-LSK	12.70	7.92	7.95	3.56	8.0	9.2	18.5	1.5	12.0	10.4	0.64	240	
	RS50-LSK	15.875	10.16	9.53	4.45	10.15	11.85	23.9	2.0	15.0	13.0	1.04	192	
	RS60-LSK	19.05	11.91	12.70	5.09	12.65	14.25	28.6	2.4	18.1	15.6	1.53	160	

Attachment Dimensions

Tsubaki Chain No.	С	C 1	N	0	S	Т	Х	X2	XS
RS40-LSK	12.7	12.7	9.5	3.6	8.0	1.5	17.8	17.8	17.40
RS50-LSK	15.9	15.9	12.7	5.2	10.3	2.0	23.4	23.4	23.05
RS60-LSK	19.05	18.3	15.9	5.2	11.9	2.4	28.2	28.2	26.85

Model Numbering Example



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Selection and Handling

1 Selection

Refer to the Tsubaki Small Size Conveyor Chain catalog for Double Pitch and RS attachment chain selection.

Select the appropriate chains size and type based on the conveyor type and capacity. Selection will depend on many varying conveyor usage conditions. If you cannot unconditionally select a chain, follow the general steps below.

Step 1 Confirm conveyor conditions → Step 2 Provisionally select the chain model →

Step 3 Confirm the roller and attachment allowable load

Step 4 Calculate the maximum load acting on the chain → Step 5 Determine the chain size →

Step 6 Use the index conveyance chain selection method if necessary

2 Sprockets

Double Pitch Chain:

When using S rollers, use RS sprockets only if the sprocket will have 30 or more teeth. In all other situations you will need to use Double Pitch chain sprockets.

RS Attachment Chain:
Use RS sprockets.
Refer to the Tsubaki Drive Chains & Sprockets
catalog or the Tsubaki Small Size Conveyor Chain
catalog for more information.

3 LSK Series corrosion resistance

Corrosion resistance varies accordingly depending on application conditions. This table should not be considered a guarantee. U reference, be sure to check the corrosion resistance of the chain in advance according to the actual operating conditions when Data in this table is for 20°C operating temperatures.

sing this table as a selecting your chain.

: Totally resistant	▲:	Separtially resistant (depending on operating conditions)								ons)	×: Not resistant —: Unknown						ļ									
Chemical/ Food Product Chain Series	Alcohol	Aqueous ammonia	Zinc chloride 50%	Ferric chloride 5%	Sodium chloride	Hydrochloric acid 2%	Seawater	Hydrogen peroxide 3%	Formic acid 50%	Chromic acid 5%	Acetic acid 10%	Calcium hypochlorite	Sodium hypochlorite	Oxalic acid 10%	Nitric acid 5%	Vinegar	Potassium hydrate	Sodium hydrate 25%	Concentrated nitric acid 65%	Boric acid 50%	Sulfuric acid 5%	Zinc sulfate 25%	Phosphoric acid 5%	Benzene	Chromic acid	Citric acid
LSK Series			-	-		×			_			-	×						_	_	×	_				
LSC Series						×	_	_	×			_	×		_	_	×	×	×	_	×		×			
SS Series	•					×							×			_					×					
AS Series			×	×	_	×	×	_		_		×	×	_	_	×			×		×		_			•
NS Series			_	_		×																				

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.
 - $\boldsymbol{\cdot}$ 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 Hea 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 speci⊠cations 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 refe allowable operational load.

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