

TSUBAKI LSC SERIES  
STAINLESS STEEL CHAIN





# Stainless Steel Chain

Tsubaki's long-life LSC Series Stainless Steel Chain is beneficial in dry environments, in contact with water, or even underwater. Stainless steel chains are an ideal choice in production lines with a washdown process; in the food industry, where water is often part of the production process; in sanitary and pharmaceutical packaging industries; and in a wide variety of other industries.



A lube-free, long-life chain to match any need.  
Solves common problems with conventional chains:

Costly and time-consuming replacement of elongated chain

## ■ Uses a Plastic Sleeve for the Bearing

Features black engineering plastic sleeves between the SS Series stainless steel chain pins and bushing. Rollers can be either stainless steel or engineering plastic (white).

### Material

Base chain: Stainless steel (pins, bushes, plates)

Rollers: Stainless steel  
Engineering plastic (white)

Sleeves: Engineering plastic (black)

### Available Sizes

RS40-LSC – RS80-LSC

RF2040-LSC – RF2080-LSC

(Standard small rollers and oversized rollers are available)

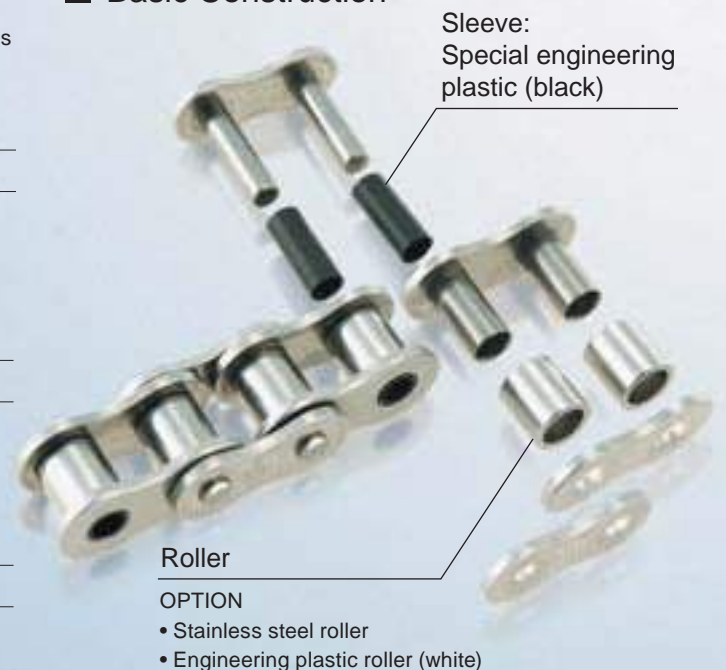
Note: • Made-to-order product  
• Attachments available in all sizes

### Operating Temperature Range

-20°C to 100°C (with stainless steel rollers)

-20°C to 80°C (with engineering plastic rollers)

## ■ Basic Construction



Caution when disassembling or connecting LSC Series Chain

When the chain is disassembled, be careful that the engineering plastic sleeve (black pipe) between the pins and bushing does not fall out. Also, ensure that the sleeves are present between the pins and bushing when connecting an LSC Series Chain.



Clean regularly to remove any black dust that may appear.

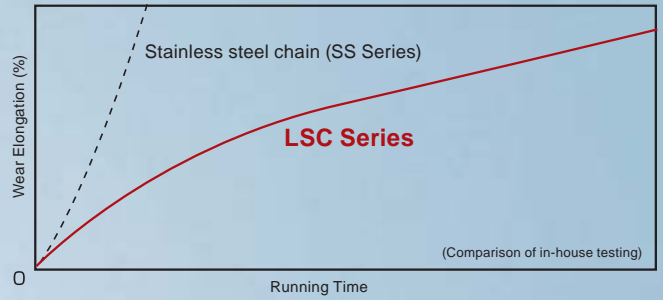
## LSC Series Features

**Long Life** Has the same maximum allowable load as a stainless steel chain, but offers a longer wear life.

The LSC Series Chain with stainless steel rollers provides over four times the wear life compared to SS Series Stainless Steel Chain. Meanwhile, the increased wear resistance of the engineering plastic rollers (white) gives them over ten times the conventional wear life.



Stainless steel rollers



### ◆ Comparison of LSC Series Superior Wear Life

| Operating conditions \ Roller type | Stainless steel        | Engineering plastic (white) |
|------------------------------------|------------------------|-----------------------------|
| Dry environment                    | More than 4x wear life | More than 10x wear life*    |
| Contact with water/underwater      | More than 4x wear life |                             |

Tsubaki does not recommend using LSC Series Chain with engineering plastic rollers in contact with water or underwater, due to the possibility of premature roller wear. (Tsubaki comparison)

\*For white engineering plastic only; small-size rollers rated at 50% MAL. Please refer to the Tsubaki catalog for additional chain selection.

Poor chain articulation

Excessive chain noise in the workplace

Poor positioning during work transfer

Tsubaki's new LSC Series Stainless Steel Chain helps solve all of these problems!



Engineering plastic rollers

### Quiet and Lightweight

(Engineering Plastic Roller)

With engineering plastic rollers there is no metal-on-metal contact. As a result, drives and conveyors are 7 dB to 10 dB quieter than with SS Series stainless steel chain. The LSC Series Chain is also lightweight, making it easier to handle.

#### Comparison with Stainless Steel Chain

**Quieter** 7 dB to 10 dB quieter

**Lightweight** 15% lighter than with standard rollers  
40% lighter than with standard oversized rollers

### Clean

Uses materials\* compliant with the Japanese Food Sanitation Law, making it ideal for food processing plants, sanitary equipment, pharmaceutical packaging equipment, and other situations where cleanliness is important.

\*Plastic rollers and special engineering plastic sleeves





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