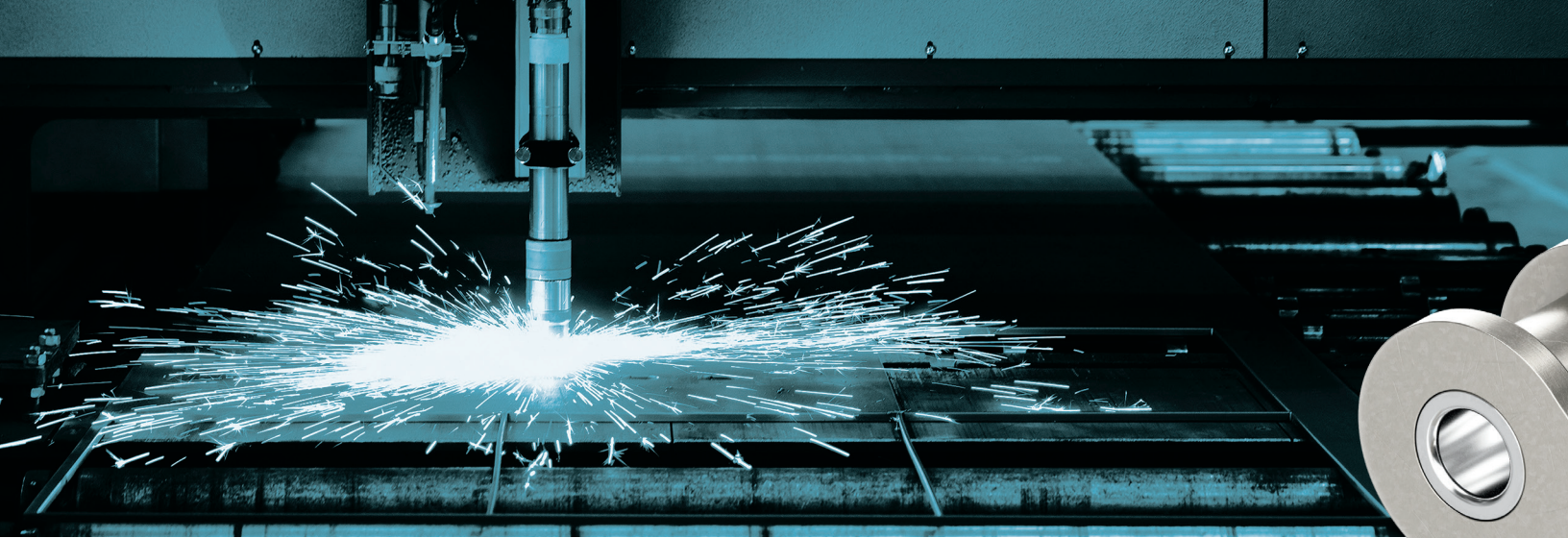




# Super Stainless™ Chain

*A REVOLUTIONARY BREAKTHROUGH IN  
STAINLESS STEEL*





# STAINLESS STEEL WITH CARBON STRENGTH

**The toughest applications require the toughest chain possible. That used to mean choosing between the corrosion resistance of stainless steel or the strength of carbon steel. Now Tsubaki offers both – in a single chain.**

With its Super Stainless™ chain, Tsubaki has engineered a stainless steel chain solution that combines the corrosion resistance of its existing 600 (AS) series chains with the strength of an ANSI carbon steel chain. It can be paired with Super Stainless™ attachments and sprockets to create a reliable stainless steel system that withstands extreme operating conditions while providing superior wear life.

No longer will a complete system redesign be needed to accommodate multi-strand or larger-pitch chains. Designed to deliver maximum strength in corrosive, high-temperature or food-grade environments,

Super Stainless™ chain can replace carbon steel chain one for one. This helps reduce cost while operating with the same loads as standard carbon steel chain.

Super Stainless™ chain offers a higher side-bar waist and greater fatigue strength, as well as hardened pins and bushings. The result is a 100% compliant ASME B29.1 roller chain made entirely of stainless steel. It's just one more way Tsubaki continues to bring greater efficiency, reliability and value to its customers, as it has since 1917.



**UP TO 6x  
STRONGER  
THAN ORDINARY STAINLESS STEEL**

**SUPER STAINLESS™ CHAIN**

# THE ADVANTAGES OF STAINLESS STEEL

Our specially designed stainless steel products outlast the competition to promote cost-effective operations and increased profitability. Only stainless steel can withstand the harsh chemicals, extreme temperatures and high moisture levels present in food-safe and cleanroom environments.

Super Stainless™ chain further augments the inherent benefits of stainless steel by integrating hardened components and specially constructed side plates into its design for improved strength and superior wear life.

Ideal for applications involving:

- Freezers
- Food packaging/processing
- Underwater applications
- Exposure to harsh cleaners
- High-speed conveyors
- High-temperature ovens



**High side-bar waist**  
for greater fatigue strength

**Hardened stainless components** for extended wear life and improved performance

## DELIVERING EXCEPTIONAL VALUE

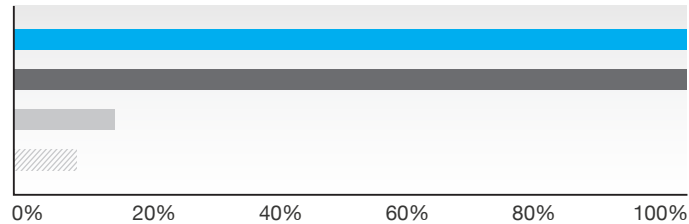
Super Stainless™ chain offers a revolutionary alternative to traditional solutions. One number 50 Super Stainless™ chain has the same maximum allowable load as one equivalent 50 carbon steel chain (1,430 lbs. max. allowable load), and exceeds that of one 50-6 600 (AS) series chain (1,386 lbs. max. allowable load).



## STRENGTH PREVIOUSLY UNSEEN IN STAINLESS CHAIN

Greater strength in a single stainless steel chain translates to big cost savings for applications that require resistance to corrosion and high temperatures. One Super Stainless™ chain equals the load capacity of a larger or multi-strand 600 (AS) or 304 (SS) stainless chain.

### MAXIMUM ALLOWABLE LOAD (MAL) RATING

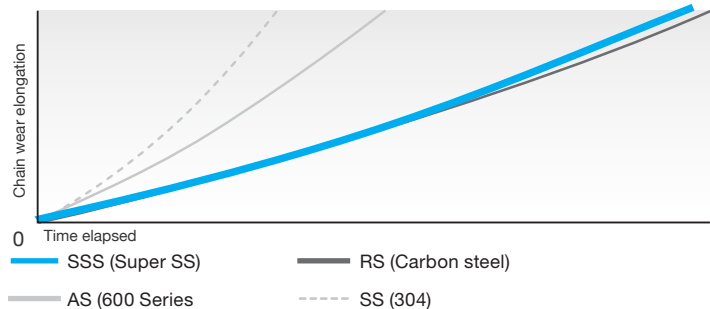


— SSS (Super SS)      — RS (Carbon steel)  
— AS (600 Series)      - - - - SS (304)

## UNPARALLELED WEAR LIFE

Over time, chain elongation is inevitable. But with Super Stainless™ chain, wear life is extended to significantly lengthen the time before replacement is necessary. Super Stainless™ chain combines inherent corrosion resistance with carbon strength to achieve a prolonged wear life that can significantly outperform traditional stainless steel chains.

### CHAIN WEAR ELONGATION VERSUS TIME



— SSS (Super SS)      — RS (Carbon steel)  
— AS (600 Series)      - - - - SS (304)

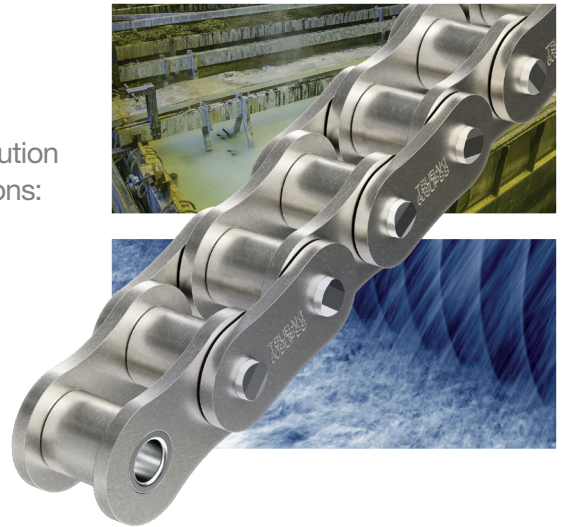
- Offers twice the wear life of existing stainless steel chain options
- Supports the same maximum allowable load as carbon steel chain
- Decreases downtime by extending time to replacement
- Increases sprocket life in certain applications
- Reduces maintenance and replacement costs
- Improves reliability in environments where harsh chemicals and high temperatures are common

## DESIGNED TO DETER CORROSION

Challenging environments are no match for Super Stainless™ chain. Developed for optimal performance in food-safe and cleanroom environments, Super Stainless™ is the highest-strength roller chain solution at elevated temperatures and resists a wide range of corrosive conditions:

- General acids
- Peracetic acid
- Low-dosage caustics and alkalis
- Tap water
- Salt water
- Temperatures from -40° to 750° F

Note: For higher temperatures, please consult our factory.



## A COMPLETE STAINLESS STEEL SOLUTION

Build strength and corrosion resistance into your entire operation and keep your lines running at peak performance with a complete Super Stainless™ steel system.

### Super Stainless™ Sprockets

Super Stainless™ sprockets can be used in most corrosive environments. All standard-style sprockets can be custom-designed in a variety of tooth counts or made to order for specific applications.

- Fully through-hardened construction and hardened teeth
- Machining avoids pits and marks to prevent food and bacteria from gathering
- Custom sprocket designs available by consulting our factory

### Super Stainless™ Attachments

Offering strength equal to Tsubaki premium carbon steel attachment roller chain, Super Stainless attachments can be customized to your application via our highly efficient LASER-EXPRESS™ process. Standard attachments accommodate most common applications, with alternative configurations available on a made-to-order basis.

Additional options include:

- Double-pitch conveyor chain
- Double-pitch sprockets
- Offset links



# More innovative solutions from Tsubaki



**SEALED JOINT  
CHAIN OPTIONS**



**BACKSTOPS &  
OVERRUNNING  
CLUTCHES**



**STEEL CABLE  
CARRIERS**



**CONTINUOUS-  
FLEX CABLES**



**SMART TOOTH®  
SPROCKETS**



**TITAN™ SERIES  
CHAINS**

## EXCELLENCE THROUGH INNOVATION SINCE 1917

For over 100 years, Tsubaki has developed and manufactured the highest-quality products for power transmission and motion control. With a vast network of global production facilities, R&D resources and sales offices, Tsubaki remains committed to providing innovative solutions to customers' problems for the next 100 years.

[ustsubaki.com](http://ustsubaki.com)



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