



Lambda[®] Chain

MAXIMIZING PERFORMANCE IN
LUBE-FREE OPERATIONS

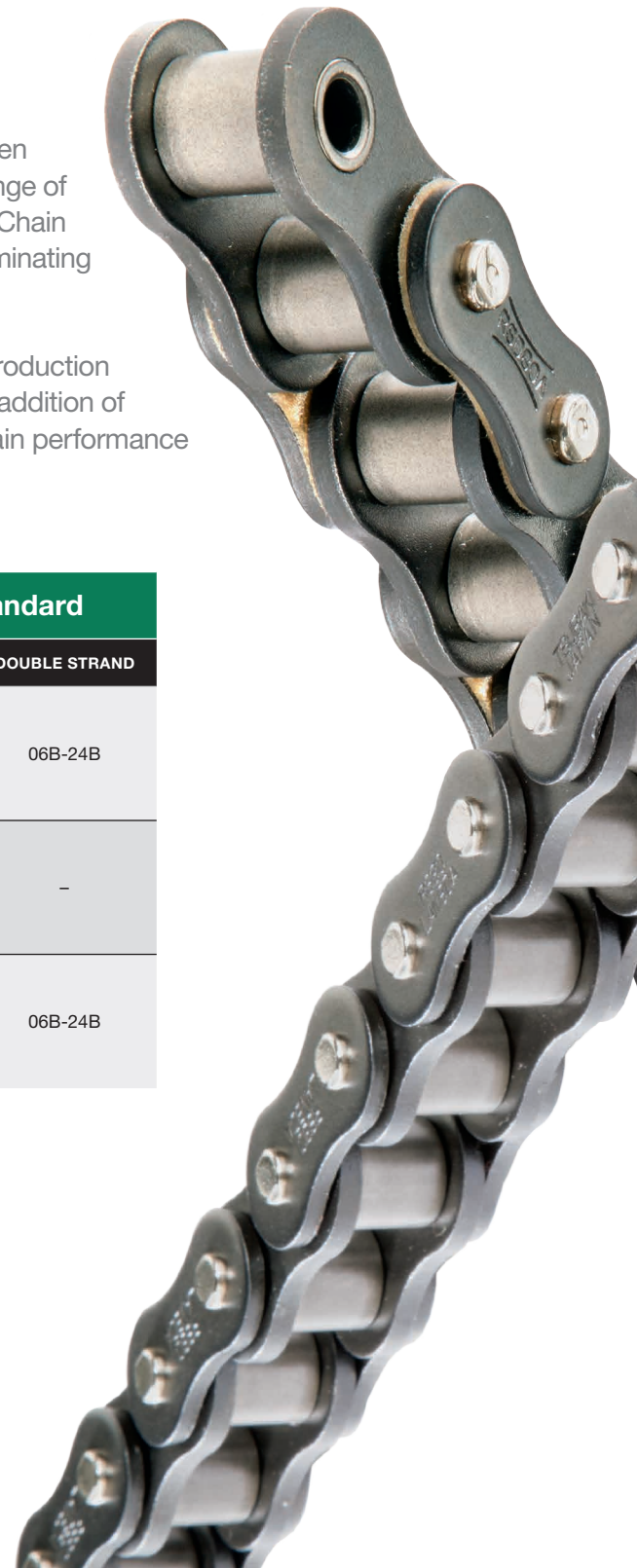


THE CLEAR CHOICE FOR CLEAN APPLICATIONS

Since its founding in 1917, Tsubaki has worked tirelessly to improve chain performance for its customers. More than a century of experience goes into the development of roller chain products that adapt to global needs and contribute to energy savings, labor savings and better efficiency.

Tsubaki revolutionized the use of oil-impregnated sintered bushings when it introduced its Lambda® Chain in 1988. Capable of meeting a wide range of customer needs for long life in a lubrication-free environment, Lambda Chain reduces long-term costs by providing better wear performance and eliminating unnecessary maintenance.

For the newest evolution of Lambda Chain, Tsubaki has upgraded its production methods to further optimize its oil-impregnated sintered bushings. The addition of NSF-H1 food-grade lubricant helps stabilize quality, improve overall chain performance and extend wear life.



	ANSI®		British Standard	
	SINGLE STRAND	DOUBLE STRAND	SINGLE STRAND	DOUBLE STRAND
STANDARD DRIVE	40-160	40-160	06B-24B	06B-24B
STANDARD ATTACHMENT*	35-140, C2040-C2120H	35-140, C2040-C2120H		
XCEEDER DRIVE	40-120	-	08B-24B	-
XCEEDER ATTACHMENT*	40-100, C2040-C2100H			
HIGH TEMPERATURE (KF) DRIVE	40-100	40-100	06B-24B	06B-24B
HIGH TEMPERATURE (KF) ATTACHMENT*	35-100, C2040-C2100H	35-100, C2040-C2100H		

*Attachments are available in standard and MTO.

TYPICAL APPLICATIONS

- Conveying (food & beverage, packaging, etc.)
- Hard-to-access drive systems
- Operations where lubrication is not possible

BENEFITS OF BEING LUBE-FREE

When machines and conveyed materials must be free from contact with oil, or when lubrication is difficult, Lambda Chain is the ideal choice. In addition to staying cleaner longer and reducing product contamination, Lambda Chain also improves equipment reliability and minimizes maintenance costs.

- No additional lubrication needed
- Eliminates contamination
- Environmentally friendly
- Reduces maintenance and replacement costs
- Decreases overall downtime
- Increases sprocket life



STANDARD LAMBDA CHAIN FEATURES

Operating range 14°–302°F (-10°–150°C) for use in a broad range of applications

Nickel-plated pins for superior bearing surface and corrosion resistance

NEW AND IMPROVED!

Sintered bushings with NSF-H1 high-temperature food-grade lubricant for optimal performance in lube-free environments

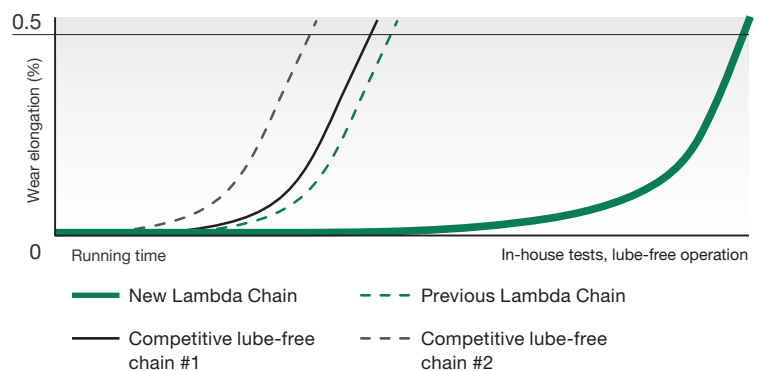
Black oxide plates for extra corrosion resistance

Hardened components for maximum performance under standard load capacities

Ring-coined connection links for superior plate strength

NEW AND IMPROVED

PERFORMANCE IN AMBIENT TEMPERATURES 14°–302°F (-10°–150°C)



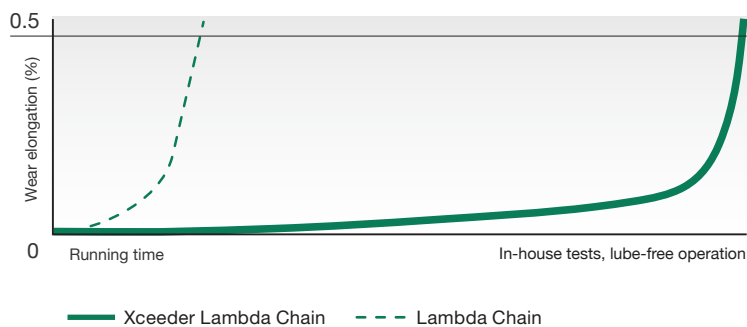
LAMBDA CHAINS FOR SPECIFIC APPLICATIONS

XCEEDER® CHAIN

The industry's longest-lasting lube-free chain

Designed to last up to 10 times longer than other lube-free chain, Xceeder Chain extends the wear resistance of Lambda Chain by adding oil-impregnated felt seals between the link plates. The special, high-density felt seals lock in lube while keeping dirt and abrasives out. No chain is better suited to environments that require extended replacement intervals.

PERFORMANCE AT 14°-140°F (-10°-60°C)



FEATURES

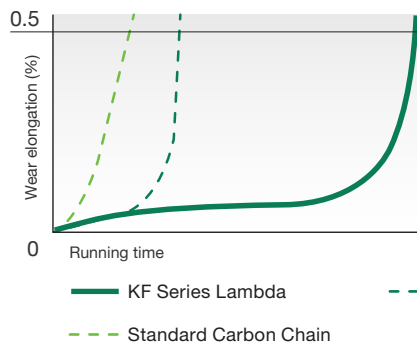
- Ultra-long life without additional lubrication
- Exceeds ANSI minimum tensile strength requirements
- Operating range 14°-140°F (-10°-60°C)

KF SERIES CHAIN

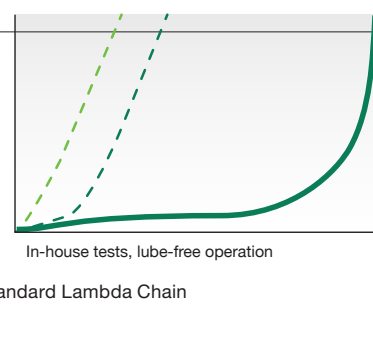
Superior performance in hot environments

Even in high-temperature environments, the volatilization- and degradation-resistant lubricant used in the design of our KF Series Chain promotes optimal performance. This makes it especially valuable in food applications where lubrication is not desirable or possible.

WEAR ELONGATION LIFE AT 150°C



WEAR ELONGATION LIFE AT 230°C



FEATURES

- Long-lasting life in hot temperatures
- Operating range 14°-446°F (-10°-230°C)*
- Exterior includes NSF-H3 food-grade rust preventative
- Bushings use NSF-H1 high-temperature, food-grade lubricant

*Do not use in environments over 446°F (230°C), as this will considerably reduce wear life. Harmful gases may be emitted at temperatures over 536°F (280°C).



SPECIALTY LAMBDA OPTIONS

LAMBDA CHAIN with Nickel Plating

Plates and rollers feature special nickel plating for light corrosion resistance.

- Ideal for mildly corrosive environments
- Operates in temperatures up to 302°F (150°C)
- Long-lasting and lube-free, like all Lambda Chains

LAMBDA CHAIN with Neptune® Coating

Corrosion-resistant, lube-free chain with the strength of carbon steel.

- Excellent corrosion resistance to extend wear life in applications that require water washdowns or exposure to moisture (not suitable for applications that require contact with food)
- Protection that won't flake or peel off, preventing product damage and premature chain wear



MADE-TO-ORDER (MTO) LAMBDA CHAIN

Need something custom? Let our team of experienced engineers and manufacturing experts design the right chain for your operation.



PLASTIC TOP ROLLER CONVEYOR LAMBDA CHAIN

- Narrow-width accumulating chain



PLASTIC OUTBOARD ROLLER CONVEYOR LAMBDA CHAIN

- Low center of gravity
- Long wear life



TN/TS TOP PLATE CONVEYOR LAMBDA CHAIN

- Plastic or stainless steel top plates
- Nickel-plated base chain



HOLLOW PIN CONVEYOR LAMBDA CHAIN

- Attachments or crossrods can be inserted at any pitch spacing
- Single and double pitch sizes available

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



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