

TSUBAKI Cold Resistant Drive Chains Cold Resistant Roller Chain Lambda Chain Cold Resistant Series

The low temperature workhorse

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Tsubaki Cold Resistant Drive Chains for

I want to use the chain in freezer and cold-storage facilities.

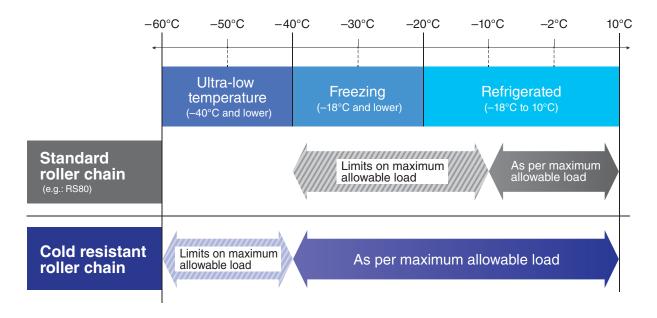
Cold Resistant Roller Chain

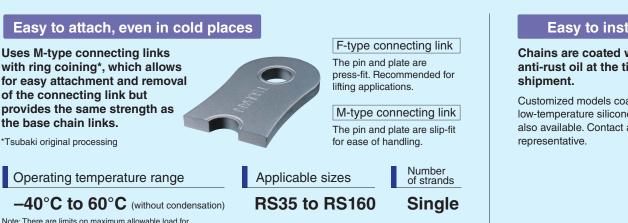
Allowable ambient temperature down to -60°C

Note: There are limits on maximum allowable load for temperatures of -40°C and lower. Refer to the Selection Guide on the back page.

Works below –10°C, a temperature range that degrades standard roller chain.

Can be used in colder temperatures than can standard roller chain.





Note: There are limits on maximum allowable load for temperatures between -60°C and -40°C.

Note: Other sizes, number of strands, BS/DIN standard types, and small conveyor chains are also available Contact a Tsubaki representative.

Easy to install

Chains are coated with an anti-rust oil at the time of

Customized models coated with low-temperature silicone oil are also available. Contact a Tsubaki

Low Temperature Environments

I want to use the chain in freezer and cold-storage facilities without lubrication.

Lambda Chain Cold Resistant Series

Allowable ambient temperature down to -30°C



Lambda chain cold resistant series helps...

... by eliminating the need to lubricate.

This frees up more time to do other work.



Lameoa

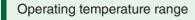
Lambda chain cold resistant series helps...

...keep your workplace clean. No lubrication means no oil to dirty work spaces.

POINT

Can be used in colder temperatures than can the Lambda chain standard series. Has the same kW ratings as the Lambda chain standard series even in -30° C environments.

NSF H1 certified food grade oil impregnated in bushing.



Applicable sizes

Number of strands

Single



RS40 to RS100

Note: Other sizes, number of strands, BS/DIN standard types, and small conveyor chains are also available. Contact a Tsubaki representative.

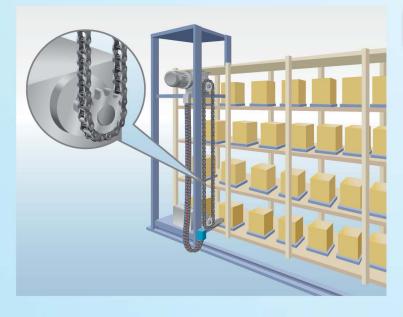


- Applying silicone oil may result in reduced wear performance.
- Debris or dust in between chain parts may result in premature wear of the chain.
- Do not use Lambda chain if the chain will come in direct contact with food, or if coating flakes or wear dust may contaminate food. In non-food applications, take measures to prevent entry of foreign matter; for example, by installing an appropriate cover in environments with coating flakes or wear dust in the air. Or, consult a Tsubaki representative regarding chain selection. Though nickel is not subject to the Japan Food Sanitation Act or the Industrial Safety and Health Act, be careful of nickel plating
- vhen flakes that may come off the sliding members.
 - Depending on usage conditions, the lubricating oil may spatter.
 - Lambda chain is not coated with anti-rust oil. Keep away from hot or humid places, and avoid dusty locations.

Note: Be aware that during the manufacturing process anti-rust oil and assembly oil that do not conform to NSF H1 will become adhered to Lambda chain.

Application

Ideal for use in low temperature environm



Multi-Level Freezer and Cold-Storage Facilities

Our lineup includes chains, sprockets, Cableveyors, and worm gear reducers for use in multi-level freezer and cold-storage facilities. Tsubaki products ensure your facilities operate trouble-free.



Worm gear reducers

Operating temperature range: -30°C to 40°C Note: Consult Tsubaki regarding use in 0°C or colder.

Conveyors for Refrigerated and Frozen Foods

A range of Tsubaki products can be used on conveyors in low-temperature environments in food processing plants. We help you achieve any equipment function, be it conveying, rotating, carrying, protecting, or connecting. Our products ensure that conveyors operate safely in extreme environments and that time-consuming equipment maintenance is kept to a minimum.



Low-temperature plastic modular chain Operating temperature range: -70°C to 60°C



Cableveyor (cable carrier) plastic series Operating temperature range: -40°C to 80°C Note: This temperature range does not apply to certain models.



Hypoid motors cold resistant type Operating temperature range:

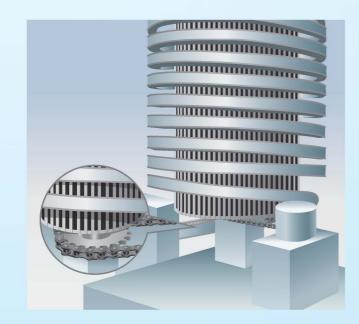
Operating temperature range -30°C to 40°C



Lambda chain cold resistant series Operating temperature range: -30°C to 150°C

Examples

ents. Tsubaki cold resistant product lineup.



Spiral Freezers

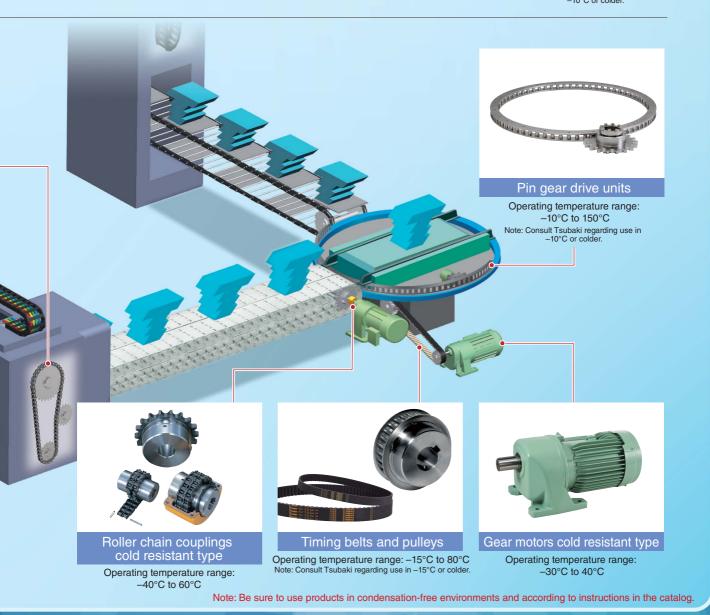
Tsubaki products—such as chains, sprockets, and small gear reducers—are crucial inside spiral freezers, which are subject to low temperatures in frozen food production and continuous freezing processes.



Cold resistant roller chain Operating temperature range: -40°C to 60°C



Sprockets Operating temperature range: -10°C to 60°C Note: Consult Tsubaki regarding use in -10°C or colder.



Cold Resistant Roller Chain

Selection method Allowable load selection method

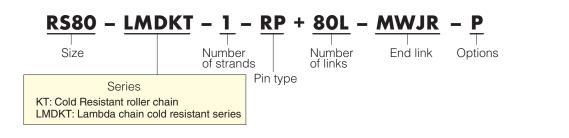
Lambda Chain Cold Resistant Series

Selection method General selection method

Refer to the Tsubaki Drive Chain & Sprockets catalog for selection method, dimensions, and kW ratings.

Maximum allowable load Maximum allowable load of standard roller chain at low temperatures				kW ratings
Temperature	Standard r RS60 or under	oller chain RS80 or over	Cold Resistant chain	
–10°C to 60°C –20°C to –10°C	Catalog value Catalog value × 1/3	Catalog value Catalog value × 1/2	Catalog value Catalog value	-30°C to 150°C Can be used with the same kW ratings as the Lambda chain standard series.
-30°C to -20°C -40°C to -30°C -50°C to -40°C	Catalog value × 1/4 Unusable	Catalog value × 1/3 Catalog value × 1/4 Unusable	Catalog value Catalog value Catalog value × 2/3	
-60°C to -50°C Below -60°C	 		Catalog value × 2/3 Catalog value × 1/2 Unusable	

Model Numbering Example







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Website https://www.tsubakimoto.com

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