ANSI LOW NOISE ROLLER CHAIN



Low Noise Drive Chain - a TSUBAKI innovation - creates a worker-friendly, environmentally friendly plant. It reduces equipment noise, and it eliminates the need for expensive, hard-to-work-around soundproof enclosures.

Technical Evolution

TSUBAKI's uniquely structured spring rollers are used for chain rollers. When TSUBAKI's Low Noise roller chain engages the sprocket, the spring roller deforms and absorbs the force of impact, reducing impact noise between chain and sprocket. Compared with TSUBAKI's standard roller chain, noise levels of Low Noise Roller Chain are 6 - 8 dB lower. Working temperature range: -10°C to +60°C. Allowable chain speed: 200 m/min.

Advantages

Noise Reduction

Lower noise levels increase comfort levels in the workplace. Besides, lower noise levels also eliminate the need for costly, soundproof enclosures.

Stronger than Belts

In some applications, belts are considered as a countermeasure to noise. However, there are many limitations in terms of strength when considering belts. The TSUBAKI Low Noise roller chain is perfect for applications where the strength of a roller chain is needed without the accompanying noise.

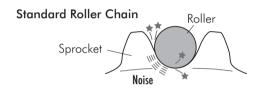
Interchangeability

Chains:

TSUBAKI Low Noise roller chain is directly interchangeable with ANSI standard roller chain.

Sprockets:

Standard ANSI roller chain sprockets can be used. However, if the chain cannot be sufficiently lubricated, TSUBAKI recommends installing sprockets with hardened teeth.



Low Noise Drive Chain

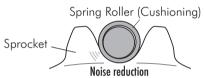
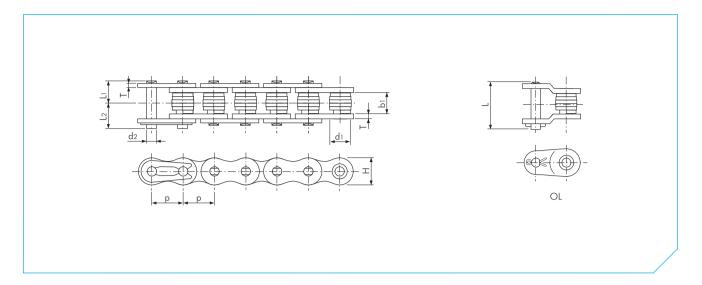


Fig. 17 Cushioning Effect





ANSI LOW NOISE ROLLER CHAIN



ANSI SNS Chain

Dimensions in mm

TSUBAKI Pitch Diameter Width Diameter Length Length Length Thickness Height ANSI Tsubaki Tsuba	ass
TSUBAKI Pitch Diameter Width Diameter Length Length Length Length Thickness Height acc. to ANSI Tsubaki Tsubaki Approximate	ass
TSUBAKI Pitch Pitch Diameter Width Diameter Length Length Length Length Thickness Height acc. to ANSI Tsubaki Tsubaki Mac	ass
Chain No. p d1 b1 d2 L1 L2 L T H (mox) kN kN kN kN kg/ R\$40-\$N\$-1 12.70 (1/2") 8.50 7.95 3.97 8.25 9.95 18.00 1.50 12.00 13.9 17.7 19.1 0.0 R\$50-\$N\$-1 15.875 (5/8") 10.80 9.53 5.09 10.30 12.00 22.50 2.00 15.00 21.8 28.4 31.4 1.0 R\$60-\$N\$-1 19.05 (3/4") 12.60 12.70 5.96 12.85 14.75 28.20 2.40 18.10 31.3 40.2 44.1 1.5	
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RS50-SNS-1 15.875 (5/8") 10.80 9.53 5.09 10.30 12.00 22.50 2.00 15.00 21.8 28.4 31.4 1.0 RS60-SNS-1 19.05 (3/4") 12.60 12.70 5.96 12.85 14.75 28.20 2.40 18.10 31.3 40.2 44.1 1.0	
RS60-SNS-1 19.05 (3/4") 12.60 12.70 5.96 12.85 14.75 28.20 2.40 18.10 31.3 40.2 44.1 1.5	
N300-3143-1 23.40 (1) 10.00 13.00 7.74 10.23 17.23 30.00 3.20 24.10 33.0 71.0 70.3 2.1	
	.00

Note:

- $1. \ \ Connecting \ links \ are \ clip \ type \ for \ sizes \ RS40-SNS \ to \ RS60-SNS, \ and \ cotter \ type \ for \ size \ RS80-SNS.$
- $2. \ \ When a single pitch offset link is used, please calculate a 35\% \ reduction of the \ Fatigue \ Strength.$
- 3. Standard ANSI sprockets can be used.