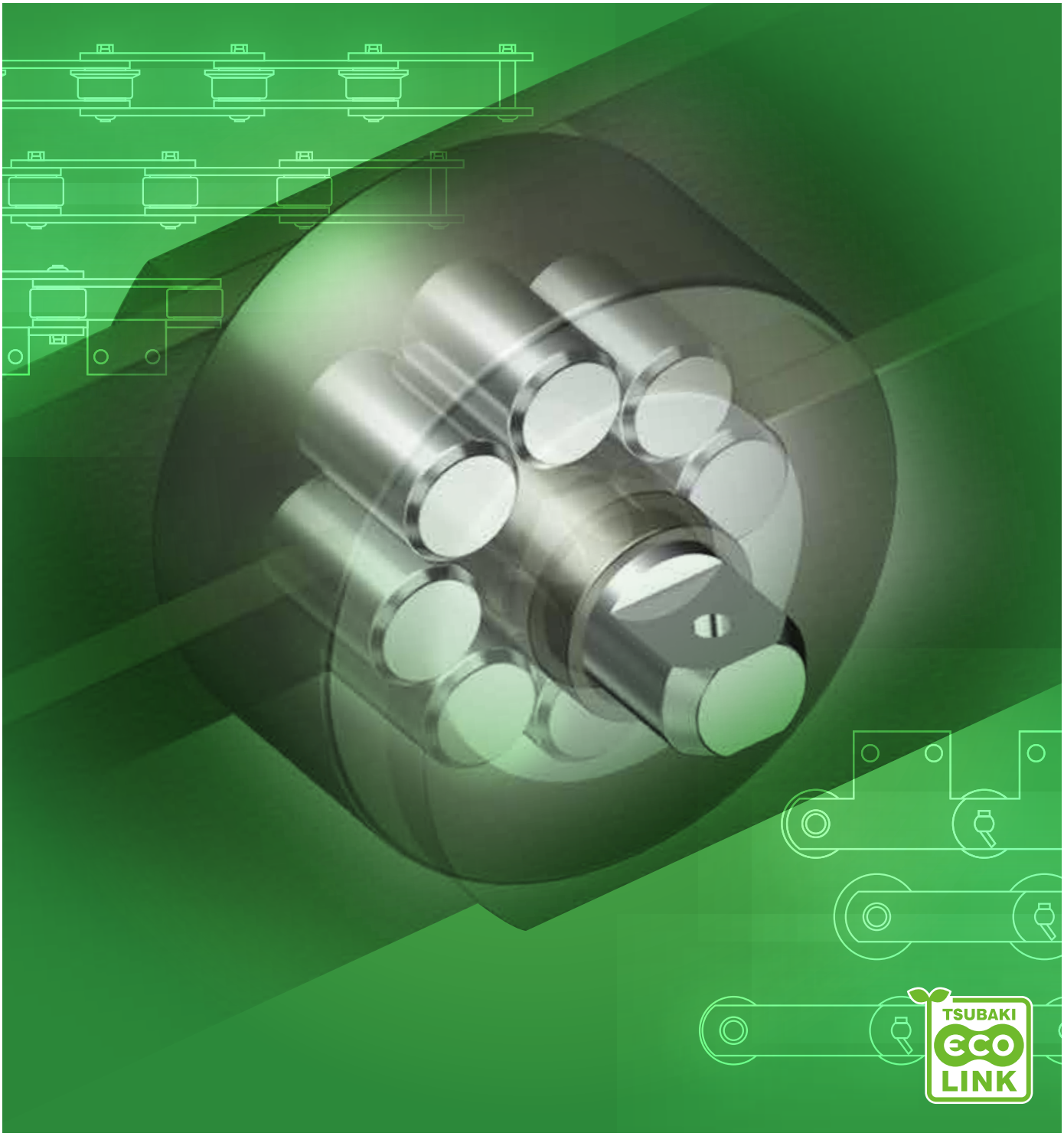
Innovation in Motion
TSUBAKI

TSUBAKI
Bearing Roller Conveyor Chain



CONTENTS

Bearing Roller Conveyor Chain

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General Use

Dust Resistant

Lube Free

Completely Lube Free

Water Resistant

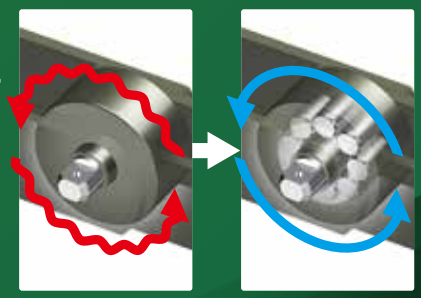
Tough, Eco-Friendly—Tsubaki Bearing Roller Conveyor Chain

Reduces Chain Running Resistance

Chain running resistance reduced by $\frac{1}{3}$

Minimizes poor roller rotation and decreases rail wear

Cylindrical bearings ensure smooth roller rotation and reduce rail wear. Roller wear life is also dramatically increased.



Reduces Required Drive

Reduces motor capacity $\frac{1}{2.5}$

Less power consumed means $\frac{1}{3}$ less CO_2 emissions

Smaller motor means 30% cost savings

Reduces chain replacement labor by $\frac{1}{3}$

With New Installations

Standard RF Conveyor Chain		Bearing Roller Conveyor Chain
Chain load		
RF26250F	2 sizes down	RF 12250BF
0.08 (When lubed)	1/3 the coefficient of friction	0.03
31.4kN {3200kgf}	1/3 the chain load	11.8kN {1200kgf}
13.5kW	1/2.5 the required kW	5.1kW

Can help make your conveyor more compact and reduce energy costs

When Replacing Existing Chain

Standard RF Conveyor Chain		Bearing Roller Conveyor Chain
Chain load		
RF26250F	Same size	RF26250BF
0.08 (When lubed)	1/3 the coefficient of friction	0.03
31.4kN {3200kgf}	1/3 the chain load	11.8kN {1200kgf}
13.5kW	1/2.5 the required kW	5.1kW
1	3x the wear life	Over 3x

Offers superior chain service life, can help reduce conveyor maintenance labor and costs

has a line-up of
s to suit your needs.

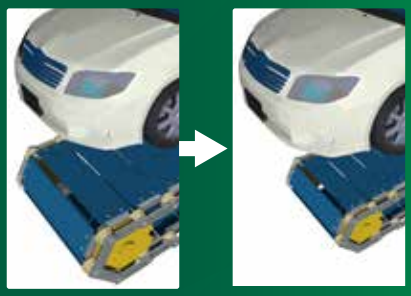
TSUBAKI ECO LINK

Longer Wear Life

Over 3x the wear life

Note: Water resistant series has twice the wear life of RF Series

Chain load and required drive are only 1/3 of standard conveyor chains. This allows users to choose a smaller size chain, as well as reduce the size of their conveyor and necessary drive power, for greater cost savings.

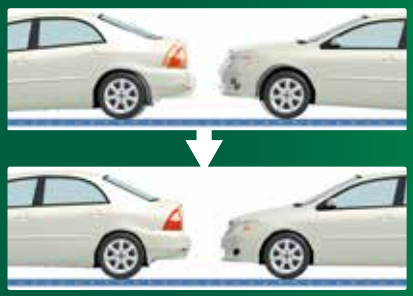


Stable Conveyance

Better productivity

Prevents stick-slip phenomenon at low speeds

Preventing stick-slip and providing smooth movement ensures stable conveyance and eliminates motion sickness on assembly lines for higher productivity.

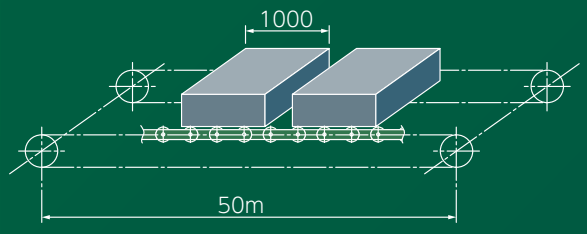


Selection

1. Refer to the Tsubaki Large Size Conveyor Chains & Sprockets catalog for selection.
2. Requirements for selection:

- Roller rotation coefficient of friction
  See pg. 19.
- Operating temperature range
  See pg. 19.
- Sprocket
  All series/specifications can use sprockets for RF Conveyor Chains.
  See pg. 19 for sprocket number of teeth.
- Roller allowable load
  Roller allowable load is the allowable load for one roller on a load-type conveyor. Roller allowable load assumes a guide rail tensile strength of 400N/m²{41kgf/m²}. When using A attachments, compare attachment allowable loads and use the lower of the values.

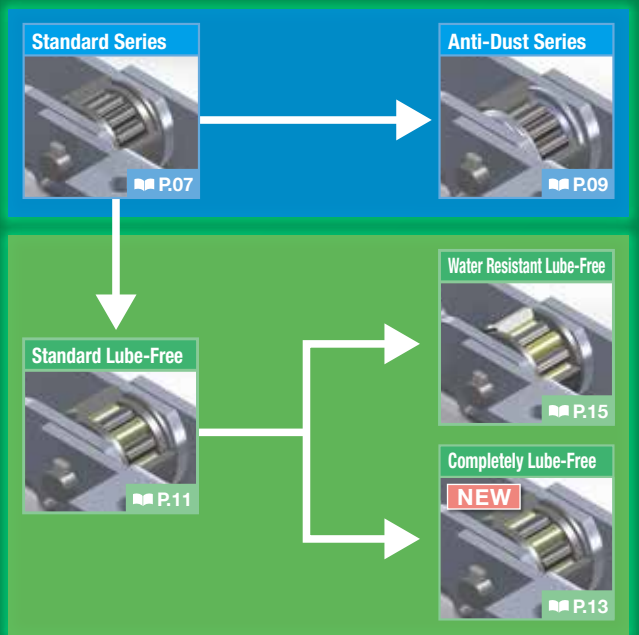
Sample Selection Conditions



Equip. length:	50m
Speed:	10m/min
Chain pitch:	250
Conveyed items:	2000kgf/each x 40
No. of chain strands:	2

F rollers with A2 attachments selected

Line-Up to Suit Any Application



Application Examples

Standard Series

Completed vehicle conveyance

Lube-Free Series

Web roll conveyance

Anti-Dust Series

Casting conveyance
(in contact with molding sand)

Lube-Free Series

Coating line
pallet conveyance

Anti-Dust Series

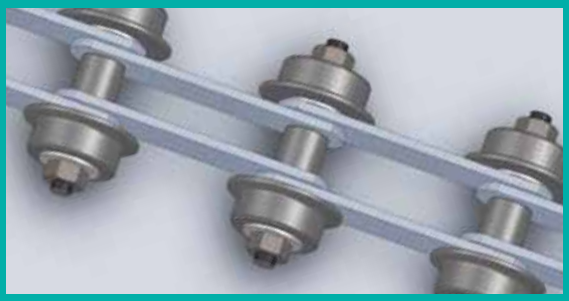
Waste conveyance
(scrap iron, rocks, etc.)

Water Resistant Lube-Free Specs

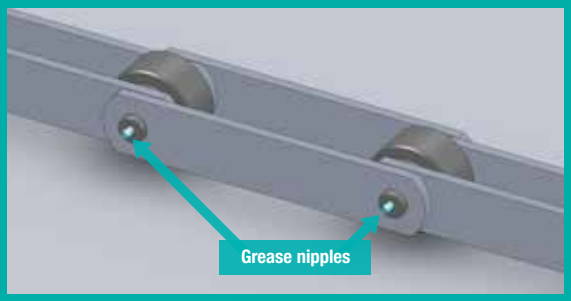
Shower tester

Sample Customizations

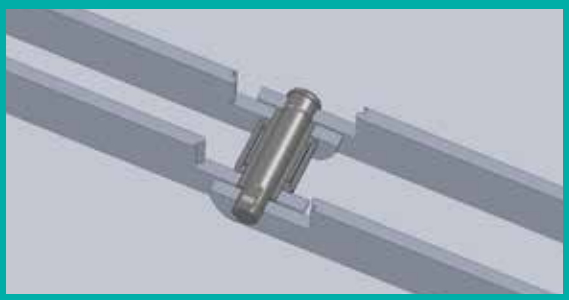
Bearing Outboard Rollers
Easy roller replacement



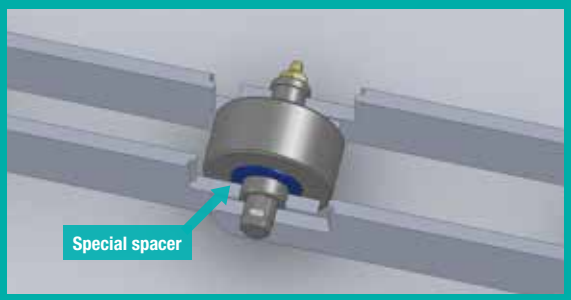
With Grease Nipples
Easy lubrication



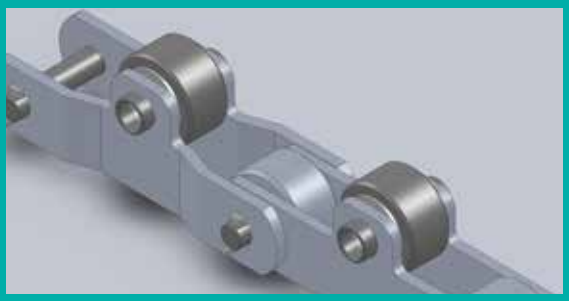
BS Bearing Rollers
Same size as S Rollers on Standard Series



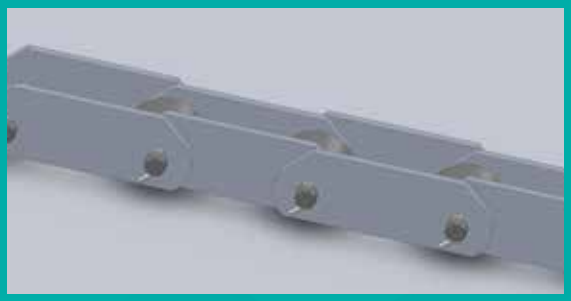
Heat Resistant
Max. operating temp.: 150°C



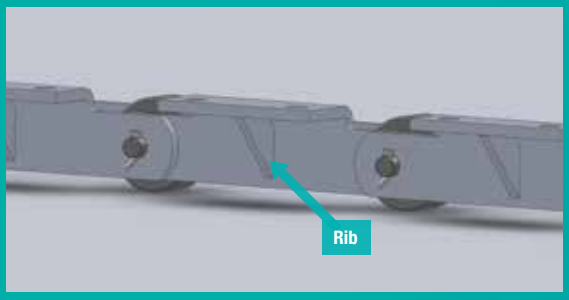
Bearing Top Rollers
Reduces load during accumulation



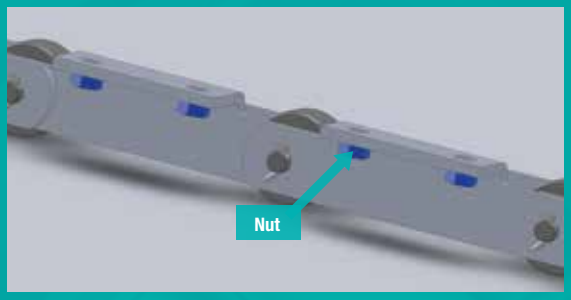
Deep Link
Allows direct conveyance, even with BR rollers



With Ribbed Attachments
Higher attachment allowable load



Attachments with Nuts
Easy attachment

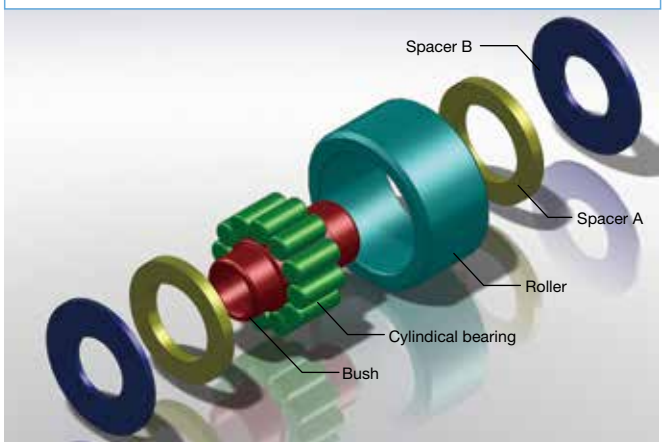


Standard Series

Standard Series Bearing Roller Conveyor Chain features a unique construction of cylindrical bearings between rollers and bushes. (Patented) These rollers have the same dimensions as R and F Rollers on standard RF Conveyor Chain.

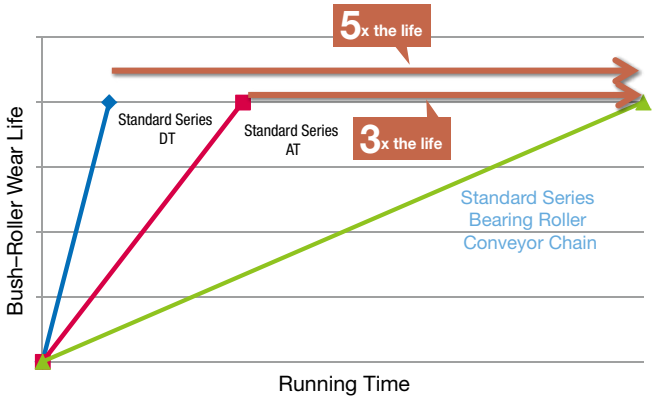
Roller Cross Sectional View

Construction



Features

In-house test comparison, no additional lubrication



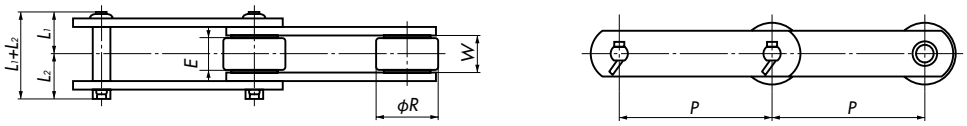
5x the wear life of DT Series and 3x the wear life of AT Series, without additional lubrication.

Chain Numbering Example

RF03075 BR - DT - 1L A2

- RF03075 — Chain size
- BR — Bearing roller type
  - BR: R roller
  - BF: F roller
- DT — Chain series code
  - DT: Standard series
  - AT: Heavy duty series
- 1L — Attachment spacing
- A2 — Attachment type

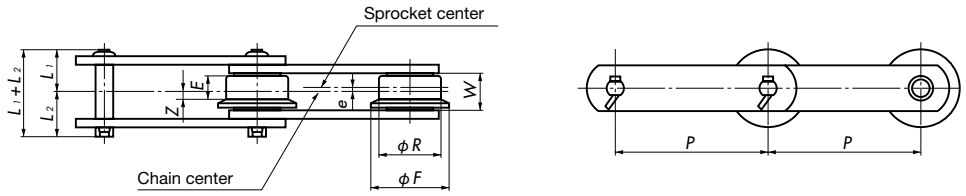
BR Roller



Chain Size	Pitch P	Inner Link Inner Width W	Pin			R Roller		Roller Allowable Load kN{kgf}/pc	Approx. Mass kg/m	Max. Allowable Load	
			L_1+L_2	L_1	L_2	Diameter R	Contact Width E			DT Series kN{kgf}	AT Series kN{kgf}
RF03075	75	16.1	38.0	18.0	20.0	31.8	14.0	1.96{200}	2.8	4.20{430}	7.85{800}
RF03100	100								2.4		
RF05100	100	22.0	53.5	25.0	28.5	40.0	19.0	3.04{310}	5.2	9.80{1000}	14.7{1500}
RF05125	125								4.5		
RF05150	150								4.2		
RF08125	125	27.0	65.5	31.0	34.5	44.5	24.0	4.12{420}	5.9	11.2{1140}	14.7{1500}
RF08150	150								5.6		
RF10100	100	30.0	69.0	33.0	36.0	50.8	26.0	5.49{560}	10.0	16.1{1650}	23.5{2400}
RF10125	125								8.7		
RF10150	150								8.0		
RF12200	200	37.1	83.5	40.5	43.0	65.0	32.0	8.34{850}	11.6	26.6{2710}	36.3{3700}
RF12250	250								10.4		
RF17200	200	51.4	109.5	51.5	58.0	80.0	44.0	14.1{1440}	20.0	35.0{3570}	54.9{5600}
RF17250	250								17.0		
RF17300	300								16.0		
RF26250	250	57.2	116.5	55.5	61.0	100.0	50.0	19.6{2000}	26.0	44.9{4570}	72.6{7400}
RF26300	300								23.0		
RF26450	450								19.0		
RF36300	300	66.7	146.0	68.0	78.0	125.0	56.0	27.5{2800}	40.0	68.0{6930}	97.1{9900}
RF36450	450								32.0		
RF36600	600								28.0		

Note: 1. Contact a Tsubaki representative for imperial sizes.
2. The above dimensions are nominal dimensions and may differ from actual dimensions.

BF Roller



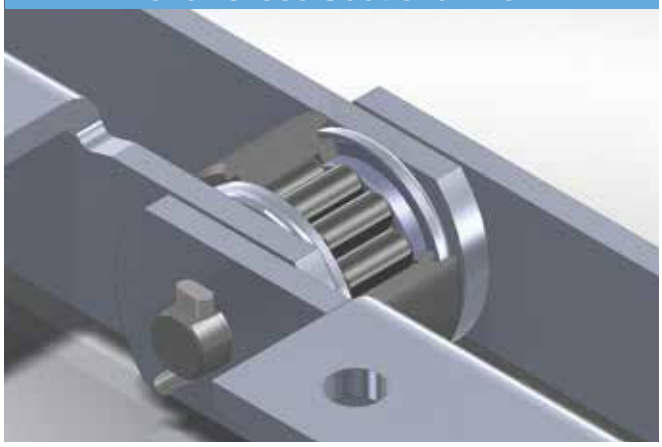
Chain Size	Pitch P	Inner Link Inner Width W	Pin			F Roller					Roller Allowable Load kN{kgf}/pc	Approx. Mass kg/m	Max. Allowable Load	
			L_1+L_2	L_1	L_2	Diameter R	Flange Diameter F	Contact Width E	Off-Center e	Z			DT Series kN{kgf}	AT Series kN{kgf}
RF03075	75	16.1	38.0	18.0	20.0	31.8	42.0	11.0	1.5	4.3	1.27{130}	2.9	4.20{430}	7.85{800}
RF03100	100											2.5		
RF05100	100	22.0	53.5	25.0	28.5	40.0	50.0	14.0	2.5	4.5	1.96{200}	5.4	9.80{1000}	14.7{1500}
RF05125	125											4.6		
RF05150	150											4.4		
RF08125	125	27.0	65.5	31.0	34.5	44.5	55.0	18.0	2.5	6.5	2.65{270}	6.2	11.2{1140}	14.7{1500}
RF08150	150											5.8		
RF10125	125	30.0	69.0	33.0	36.0	50.8	65.0	20.0	3.0	7.0	3.43{350}	9.0	16.1{1650}	23.5{2400}
RF10150	150											8.3		
RF12200	200	37.1	83.5	40.5	43.0	65.0	80.0	24.0	4.0	8.0	5.49{560}	12.1	26.6{2710}	36.3{3700}
RF12250	250											10.8		
RF17200	200	51.4	109.5	51.5	58.0	80.0	100.0	34.0	5.0	12.0	9.81{1000}	21.0	35.0{3570}	54.9{5600}
RF17250	250											18.0		
RF17300	300											16.0		
RF26250	250	57.2	116.5	55.5	61.0	100.0	125.0	38.0	6.0	13.0	13.7{1400}	27.0	44.9{4570}	72.6{7400}
RF26300	300											24.0		
RF26450	450											19.0		
RF36300	300	66.7	146.0	68.0	78.0	125.0	150.0	42.0	7.0	14.0	18.6{1900}	42.0	68.0{6930}	97.1{9900}
RF36450	450											33.0		
RF36600	600											29.0		

Note: 1. Contact a Tsubaki representative for imperial sizes.
2. The above dimensions are nominal dimensions and may differ from actual dimensions.

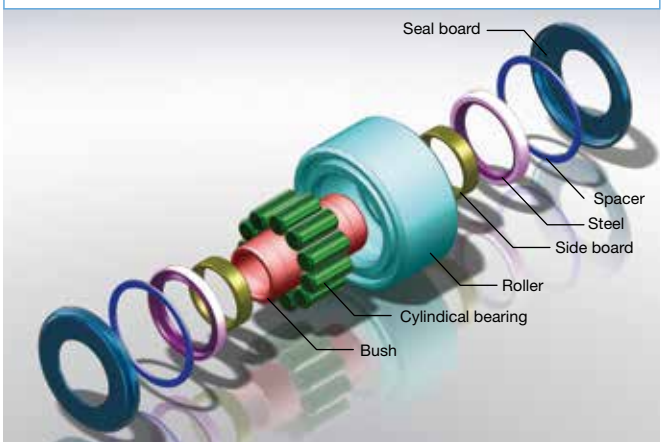
Anti-Dust Series

Anti-Dust Series Bearing Roller Conveyor Chain uses a labyrinth construction and seal to make it harder for dust and debris to infiltrate compared to our Standard Series. (Patented)
These rollers have the same dimensions as R and F Rollers on standard RF Conveyor Chain.

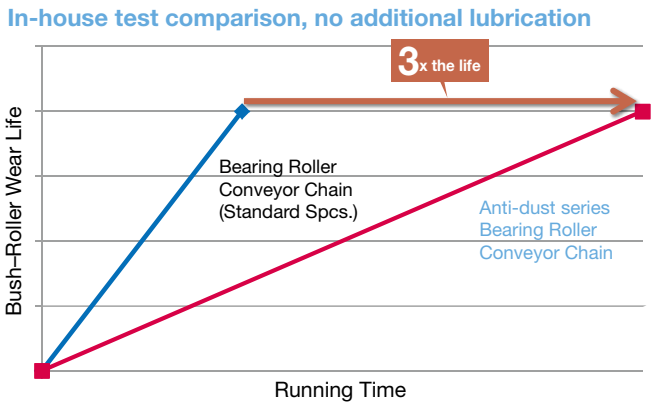
Roller Cross Sectional View



Construction



Features



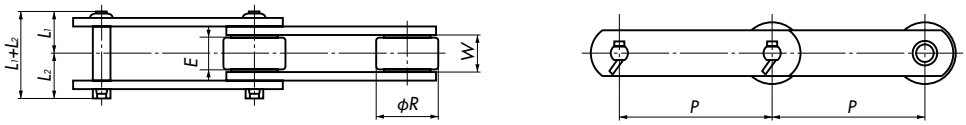
3x the wear life of bearing roller coveyor chain standard specs.

Chain Numbering Example

RF10150 DBR - DT - 1L A2

- RF10150 — Chain size
- DBR — Anti-dust bearing roller type
  - DBR: R type
  - DBF: F type
- DT — Chain series code
  - DT: Standard series
  - AT: Heavy duty series
- 1L — Attachment spacing
- A2 — Attachment type

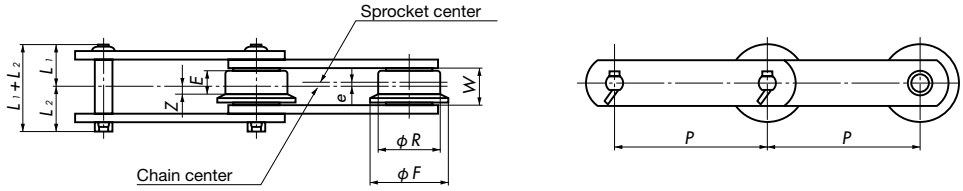
DBR Roller



Chain Size	Pitch P	Inner Link Inner Width W	Pin			R Roller		Roller Allowable Load kN{kgf}/pc	Approx. Mass kg/m	Max. Allowable Load	
			L_1+L_2	L_1	L_2	Diameter R	Contact Width E			DT Series kN{kgf}	AT Series kN{kgf}
RF10100	100	30.0	69.0	33.0	36.0	50.8	26.0	5.49{560}	10.0	16.1{1650}	23.5{2400}
RF10125	125								8.7		
RF10150	150								8.0		
RF12200	200	37.1	83.5	40.5	43.0	65.0	32.0	8.34{850}	11.6	26.6{2710}	36.3{3700}
RF12250	250								10.4		
RF17200	200	51.4	109.5	51.5	58.0	80.0	44.0	14.1{1440}	20.0	35.0{3570}	54.9{5600}
RF17250	250								17.0		
RF17300	300								16.0		
RF26250	250	57.2	116.5	55.5	61.0	100.0	50.0	19.6{2000}	26.0	44.9{4570}	72.6{7400}
RF26300	300								23.0		
RF26450	450								19.0		
RF36300	300	66.7	146.0	68.0	78.0	125.0	56.0	27.5{2800}	40.0	68.0{6930}	97.1{9900}
RF36450	450								32.0		
RF36600	600								28.0		

Note: 1. Chain cannot be used for conveyance in environments where it will be fully covered in dust.
2. Periodically lubricate the base chain using the grease nipple on the pin head.
3. Base chain is compatible with General Use Conveyor Chains and can use current sprockets.
4. Do not use in corrosive environments. (Exposed to or submersed in water, etc.)
5. The above dimensions are nominal dimensions and may differ from actual dimensions.

DBF Roller



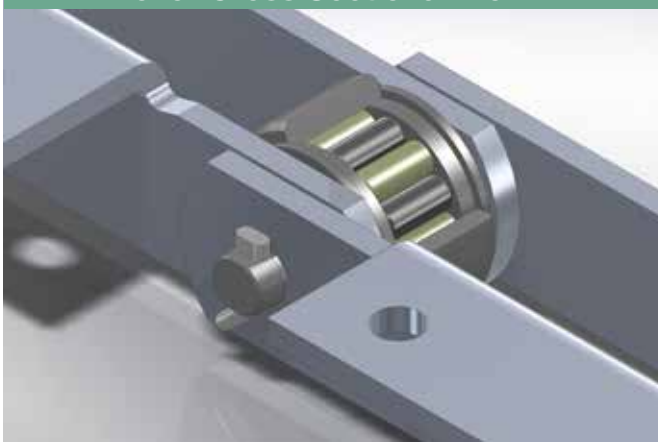
Chain Size	Pitch P	Inner Link Inner Width W	Pin			F Roller					Roller Allowable Load kN{kgf}/pc	Approx. Mass kg/m	Max. Allowable Load	
			L_1+L_2	L_1	L_2	Diameter R	Flange Diameter F	Contact Width E	Off-Center e	Z			DT Series kN{kgf}	AT Series kN{kgf}
RF10125	125	30.0	69.0	33.0	36.0	50.8	65.0	20.0	3.0	7.0	3.43{350}	9.0	16.1{1650}	23.5{2400}
RF10150	150											8.3		
RF12200	200	37.1	83.5	40.5	43.0	65.0	80.0	24.0	4.0	8.0	5.49{560}	12.1	26.6{2710}	36.3{3700}
RF12250	250											10.8		
RF17200	200	51.4	109.5	51.5	58.0	80.0	100.0	34.0	5.0	12.0	9.81{1000}	21.0	35.0{3570}	54.9{5600}
RF17250	250											18.0		
RF17300	300											16.0		
RF26250	250	57.2	116.5	55.5	61.0	100.0	125.0	38.0	6.0	13.0	13.7{1400}	27.0	44.9{4570}	72.6{7400}
RF26300	300											24.0		
RF26450	450											19.0		
RF36300	300	66.7	146.0	68.0	78.0	125.0	150.0	42.0	7.0	14.0	18.6{1900}	42.0	68.0{6930}	97.1{9900}
RF36450	450											33.0		
RF36600	600											29.0		

Note: 1. Chain cannot be used for conveyance in environments where it will be fully covered in dust.
2. Periodically lubricate the base chain using the grease nipple on the pin head.
3. Base chain is compatible with General Use Conveyor Chains and can use current sprockets.
4. Do not use in corrosive environments. (Exposed to or submersed in water, etc.)
5. The above dimensions are nominal dimensions and may differ from actual dimensions.

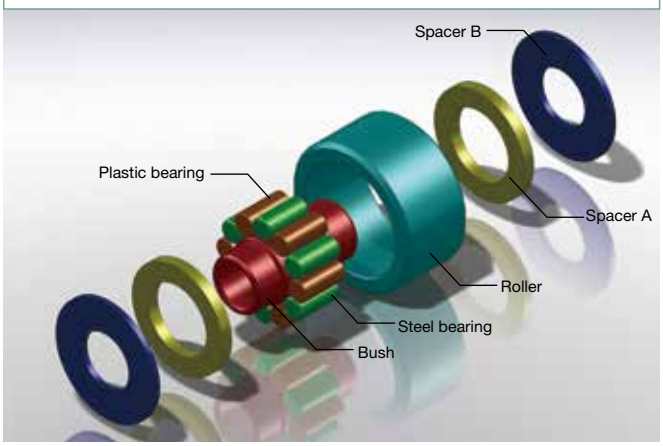
Lube-Free Series (Standard Specs)

Lube-Free Series Bearing Roller Conveyor Chain uses special cylindrical bearings with self-lubricating functions between the bushes and rollers. The rollers can be used without additional lubrication. (Patented)
These rollers have the same dimensions as R and F Rollers on standard RF Conveyor Chain.

Roller Cross Sectional View

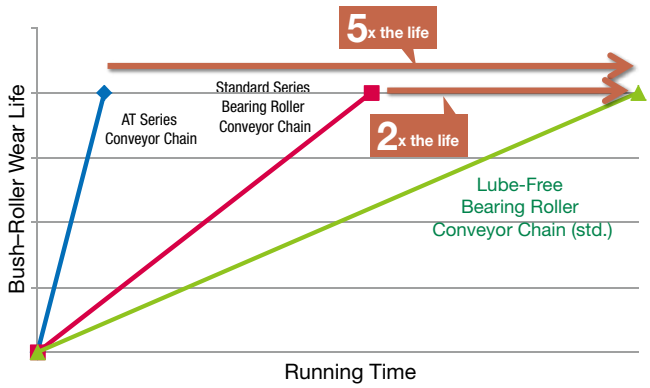


Construction



Features

In-house test comparison, no additional lubrication



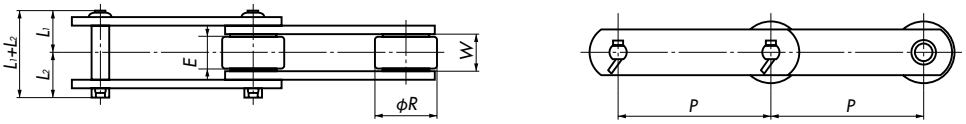
Has 5x the wear life of Standard Conveyor Chain DT Series and 2x the wear life of Bearing Roller Conveyor Chain Standard Specs without additional lubrication.

Chain Numbering Example

RF03075 EBR - DT - 1L A2

- RF03075 — Chain size
- EBR — Lube-free series roller type
  - EBR: R type
  - EBF: F type
- DT — Chain series code
  - DT: Standard series
  - AT: Heavy duty series
- 1L — Attachment spacing
- A2 — Attachment type

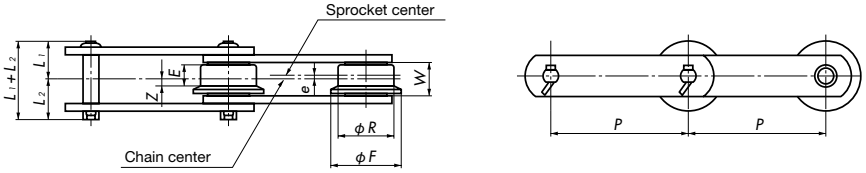
EBR Roller



Chain Size	Pitch P	Inner Link Inner Width W	Pin			R Roller		Roller Allowable Load kN{kgf}/pc	Approx. Mass kg/m	Max. Allowable Load	
			L_1+L_2	L_1	L_2	Diameter R	Flange Diameter E			DT Series kN{kgf}	AT Series kN{kgf}
RF03075	75	16.1	38.0	18.0	20.0	31.8	14.0	1.96{200}	2.8	2.94{300}	5.50{560}
RF03100	100								2.4		
RF05100	100	22.0	53.5	25.0	28.5	40.0	19.0	3.04{310}	5.2	6.86{700}	10.3{1050}
RF05125	125								4.5		
RF05150	150								4.2		
RF08125	125	27.0	65.5	31.0	34.5	44.5	24.0	4.12{420}	5.9	7.84{800}	10.3{1050}
RF08150	150								5.6		
RF10100	100	30.0	69.0	33.0	36.0	50.8	26.0	5.49{560}	10.0	11.3{1150}	16.5{1680}
RF10125	125								8.7		
RF10150	150								8.0		
RF12200	200	37.1	83.5	40.5	43.0	65.0	32.0	8.34{850}	11.6	18.6{1900}	25.4{2590}
RF12250	250								10.4		
RF17200	200	51.4	109.5	51.5	58.0	80.0	44.0	14.1{1440}	20.0	24.5{2500}	38.4{3920}
RF17250	250								17.0		
RF17300	300								16.0		
RF26250	250	57.2	116.5	55.5	61.0	100.0	50.0	19.6{2000}	26.0	31.4{3200}	50.8{5180}
RF26300	300								23.0		
RF26450	450								19.0		
RF36300	300	66.7	146.0	68.0	78.0	125.0	56.0	27.5{2800}	40.0	47.6{4850}	68.0{6930}
RF36450	450								32.0		
RF36600	600								28.0		

Note: 1. Contact a Tsubaki representative for imperial sizes.
2. The above dimensions are nominal dimensions and may differ from actual dimensions.

EBF Roller



Chain Size	Pitch P	Inner Link Inner Width W	Pin			F Roller					Roller Allowable Load kN{kgf}/pc	Approx. Mass kg/m	Max. Allowable Load	
			L_1+L_2	L_1	L_2	Diameter R	Flange Diameter F	Contact Width E	Off-Center e	Z			DT Series kN{kgf}	AT Series kN{kgf}
RF03075	75	16.1	38.0	18.0	20.0	31.8	42.0	11.0	1.5	4.3	1.27{130}	2.9	29.4{300}	5.50{560}
RF03100	100											2.5		
RF05100	100	22.0	53.5	25.0	28.5	40.0	50.0	14.0	2.5	4.5	1.96{200}	5.4	6.86{700}	10.3{1050}
RF05125	125											4.6		
RF05150	150											4.4		
RF08125	125	27.0	65.5	31.0	34.5	44.5	55.0	18.0	2.5	6.5	2.65{270}	6.2	7.84{800}	10.3{1050}
RF08150	150											5.8		
RF10125	125	30.0	69.0	33.0	36.0	50.8	65.0	20.0	3.0	7.0	3.43{350}	9.0	11.3{1150}	16.5{1680}
RF10150	150											8.3		
RF12200	200	37.1	83.5	40.5	43.0	65.0	80.0	24.0	4.0	8.0	5.49{560}	12.1	18.6{1900}	25.4{2590}
RF12250	250											10.8		
RF17200	200	51.4	109.5	51.5	58.0	80.0	100.0	34.0	5.0	12.0	9.81{1000}	21.0	24.5{2500}	38.4{3920}
RF17250	250											18.0		
RF17300	300											16.0		
RF26250	250	57.2	116.5	55.5	61.0	100.0	125.0	38.0	6.0	13.0	13.7{1400}	27.0	31.4{3200}	50.8{5180}
RF26300	300											24.0		
RF26450	450											19.0		
RF36300	300	66.7	146.0	68.0	78.0	125.0	150.0	42.0	7.0	14.0	18.6{1900}	42.0	47.6{4850}	68.0{6930}
RF36450	450											33.0		
RF36600	600											29.0		

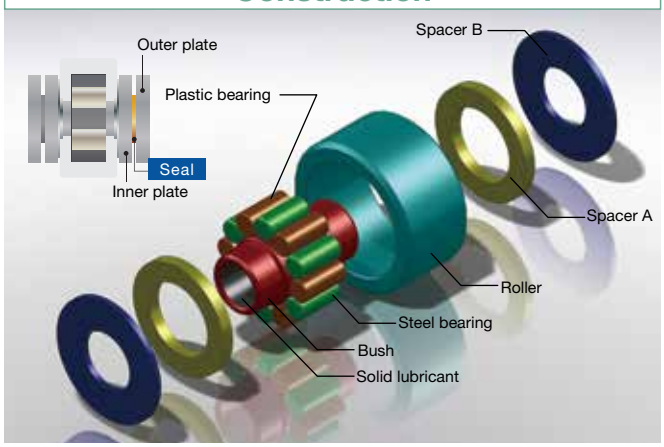
Note: 1. Contact a Tsubaki representative for imperial sizes.
2. The above dimensions are nominal dimensions and may differ from actual dimensions.

Lube-Free Series (Completely Lube-Free Specs)

Completely Lube-Free Bearing Roller Conveyor Chain uses special cylindrical bearings with self-lubricating functions between the bushes and rollers, and further includes a solid lubricant to eliminate the need for additional lubrication.

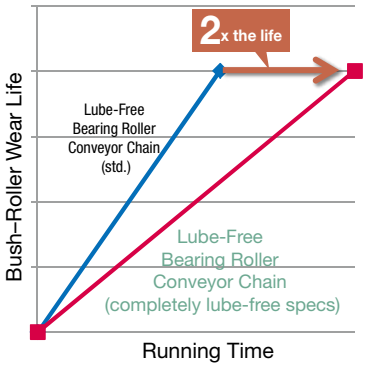
Roller Cross Sectional View

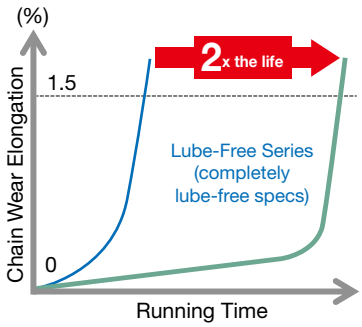
Construction



Features

In-house test comparison, no additional lubrication





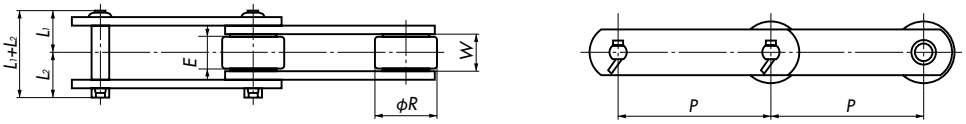
- Bush–roller
  2x the wear life of Bearing Roller Conveyor Chain (standard specs) without additional lubrication.
- Pin–bush
  2x the wear life of Lube-Free Series (standard specs) without additional lubrication.

Chain Numbering Example

RF10150 AEB R - DT - 1L A2

- RF10150: Chain size
- AEB: Lube-free series completely lube-free specs
- R: Roller type (R: R roller, F: F roller)
- DT: Chain series code (DT: Standard series, AT: Heavy duty series)
- 1L: Attachment spacing
- A2: Attachment type

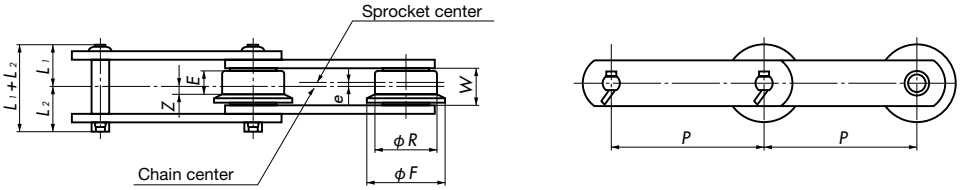
AEBR Roller



Chain Size	Pitch P	Inner Link Inner Width W	Pin			R Roller		Roller Allowable Load kN{kgf}/pc	Approx. Mass kg/m	Max. Allowable Load	
			L_1+L_2	L_1	L_2	Diameter R	Contact Width E			DT Series kN{kgf}	AT Series kN{kgf}
RF05100	100	23.0	58.0	27.0	31.0	40.0	19.0	3.04{310}	5.2	6.86{700}	10.3{1050}
RF05125	125								4.5		
RF05150	150								4.2		
RF08125	125	28.5	70.5	33.5	37.0	44.5	24.0	4.12{420}	5.9	7.84{800}	10.3{1050}
RF08150	150								5.6		
RF10100	100	31.5	74.0	35.5	38.5	50.8	26.0	5.49{560}	10.0	11.3{1150}	16.5{1680}
RF10125	125								8.7		
RF10150	150								8.0		
RF12200	200	37.5	87.0	42.0	45.0	65.0	32.0	8.34{850}	11.6	18.6{1900}	25.4{2590}
RF12250	250								10.4		
RF17200	200	51.5	113.0	53.5	59.5	80.0	44.0	14.1{1440}	20.0	24.5{2500}	38.4{3920}
RF17250	250								17.0		
RF17300	300								16.0		
RF26250	250	57.5	120.0	57.5	62.5	100.0	50.0	19.6{2000}	26.0	31.4{3200}	50.8{5180}
RF26300	300								23.0		

Note: 1. This chain is interchangeable with standard large size conveyor chain and can use the existing sprocket. However, the L1 + L2 dimension is different.
2. The above dimensions are nominal dimensions and may differ from actual dimensions.

AEBF Roller



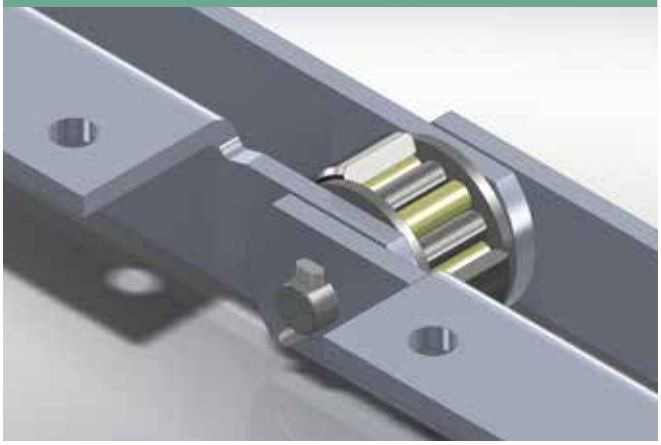
Chain Size	Pitch P	Inner Link Inner Width W	Pin			F Roller					Roller Allowable Load kN{kgf}/pc	Approx. Mass kg/m	Max. Allowable Load	
			L_1+L_2	L_1	L_2	Diameter R	Flange Diameter F	Contact Width E	Off-Center e	Z			DT Series kN{kgf}	AT Series kN{kgf}
RF05100	100	23.0	58.0	27.0	31.0	40.0	50.0	14.0	2.5	4.5	1.96{200}	5.4	6.86{700}	10.3{1050}
RF05125	125											4.6		
RF05150	150											4.4		
RF08125	125	28.5	70.5	33.5	37.0	44.5	55.0	18.0	2.5	6.5	2.65{270}	6.2	7.84{800}	10.3{1050}
RF08150	150											5.8		
RF10125	125	31.5	74.0	35.5	38.5	50.8	65.0	20.0	3.0	7.0	3.43{350}	9.0	11.3{1150}	16.5{1680}
RF10150	150											8.3		
RF12200	200	37.5	87.0	42.0	45.0	65.0	80.0	24.0	4.0	8.0	5.49{560}	12.1	18.6{1900}	25.4{2590}
RF12250	250											10.8		
RF17200	200	51.5	113.0	53.5	59.5	80.0	100.0	34.0	5.0	12.0	9.81{1000}	21.0	24.5{2500}	38.4{3920}
RF17250	250											18.0		
RF17300	300											16.0		
RF26250	250	57.5	120.0	57.5	62.5	100.0	125.0	38.0	6.0	13.0	13.7{1400}	27.0	31.4{3200}	50.8{5180}
RF26300	300											24.0		

Note: 1. This chain is interchangeable with standard large size conveyor chain and can use the existing sprocket. However, the L1 + L2 dimension is different.
2. The above dimensions are nominal dimensions and may differ from actual dimensions.

Lube-Free Series (Water Resistant Specs)

Lube-Free Series Water Resistant Bearing Roller Conveyor Chain features stainless steel cylindrical bearings and special cylindrical bearings with self-lubricating functions between bushes and rollers. The rollers can be used without additional lubrication, even in contact with water. (Patented)

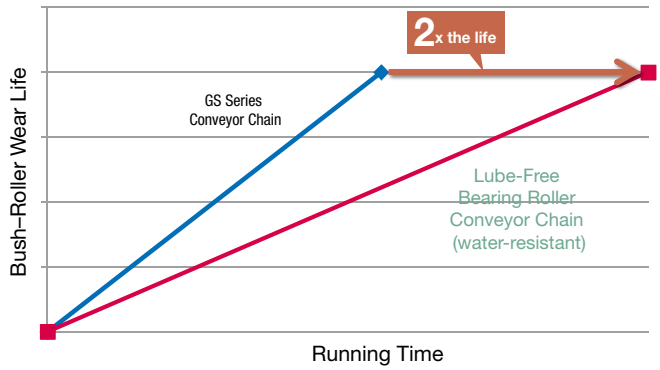
Roller Cross Sectional View



Construction

Features

In-house test comparison, no additional lubrication



2x the wear life of Standard Conveyor Chain RT Series without additional lubrication.

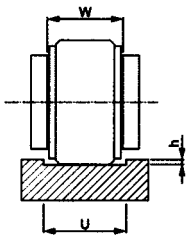
Chain Numbering Example

RF03075 WEBR GS - 1L A2

- RF03075 — Chain size
- WEBR — Lube-free series, water resistant specs roller type (WEBR: R type, WEBF: F type)
- GS — Chain series code (GS: Corrosion resistant series)
- 1L — Attachment spacing
- A2 — Attachment type

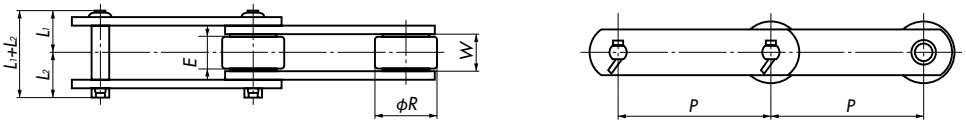
Rail mounting

When using Lube-free Series Water Resistant Specs, be sure to use a grooved rail. There is little difference in roller and spacer diameters, so the groove width (U) needs to be larger than the inner link inner width (W). Recommended rail groove depth can be found in the table on the right.



Chain size	Rail groove depth h
RF03	1.6
RF05	1.6
RF08	1.6
RF10	2.1
RF12	2.1
RF17	2.1
RF26	2.1
RF36	2.6

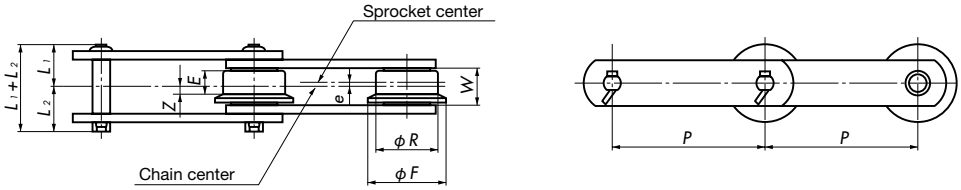
WEBR Roller



Chain Size	Pitch P	Inner Link Inner Width W	Pin			R Roller		Roller Allowable Load kN{kgf}/pc	Approx. Mass kg/m	Max. Allowable Load kN{kgf}
			L_1+L_2	L_1	L_2	Diameter R	Contact Width E			
RF03075	75	16.1	38.0	18.0	20.0	31.8	12.3	1.37{140}	2.8	2.94{300}
RF03100	100								2.4	
RF05100	100	22.0	53.5	25.0	28.5	40.0	17.0	2.13{220}	5.2	6.86{700}
RF05125	125								4.5	
RF05150	150								4.2	
RF08125	125	27.0	65.5	31.0	34.5	44.5	21.0	2.88{290}	5.9	7.84{800}
RF08150	150								5.6	
RF10100	100	30.0	69.0	33.0	36.0	50.8	23.0	3.84{390}	10.0	11.3{1150}
RF10125	125								8.7	
RF10150	150								8.0	
RF12200	200	37.1	83.5	40.5	43.0	65.0	28.0	5.84{600}	11.6	18.6{1900}
RF12250	250								10.4	
RF17200	200	51.4	109.5	51.5	58.0	80.0	40.0	9.87{1010}	20.0	24.5{2500}
RF17250	250								17.0	
RF17300	300								16.0	
RF26250	250	57.2	116.5	55.5	61.0	100.0	46.0	13.7{1400}	26.0	31.4{3200}
RF26300	300								23.0	
RF36300	300	66.7	146.0	68.0	78.0	125.0	55.0	19.3{1970}	40.0	47.6{4850}

Note: 1. Contact a Tsubaki representative for imperial sizes.
2. The above dimensions are nominal dimensions and may differ from actual dimensions.

WEBF Roller



Chain Size	Pitch P	Inner Link Inner Width W	Pin			F Roller					Roller Allowable Load kN{kgf}/pc	Approx. Mass kg/m	Max. Allowable Load kN{kgf}
			L_1+L_2	L_1	L_2	Diameter R	Flange Diameter F	Contact Width E	Off-Center e	Z			
RF03075	75	16.1	38.0	18.0	20.0	31.8	42.0	9.1	1.6	3.0	0.89{90}	2.9	2.94{300}
RF03100	100											2.5	
RF05100	100	22.0	53.5	25.0	28.5	40.0	50.0	13.0	2.0	4.5	1.37{140}	5.4	6.86{700}
RF05125	125											4.6	
RF05150	150											4.4	
RF08125	125	27.0	65.5	31.0	34.5	44.5	55.0	17.0	2.0	6.5	1.86{190}	6.2	7.84{800}
RF08150	150											5.8	
RF10125	125	30.0	69.0	33.0	36.0	50.8	65.0	18.5	2.3	7.0	2.40{240}	9.0	11.3{1150}
RF10150	150											8.3	
RF12200	200	37.1	83.5	40.5	43.0	65.0	80.0	22.0	3.0	8.0	3.84{390}	12.1	18.6{1900}
RF12250	250											10.8	
RF17200	200	51.4	109.5	51.5	58.0	80.0	100.0	32.0	4.0	12.0	6.87{700}	21.0	24.5{2500}
RF17250	250											18.0	
RF17300	300											16.0	
RF26250	250	57.2	116.5	55.5	61.0	100.0	125.0	36.0	5.0	13.0	9.59{980}	27.0	31.4{3200}
RF26300	300											24.0	
RF36300	300	66.7	146.0	68.0	78.0	125.0	150.0	43.0	6.0	15.5	13.0{1330}	42.0	47.6{4850}

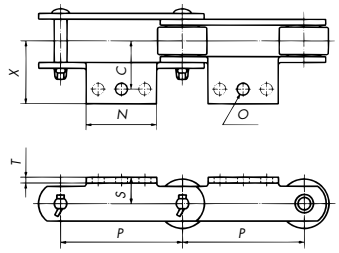
Note: 1. Contact a Tsubaki representative for imperial sizes.
2. The above dimensions are nominal dimensions and may differ from actual dimensions.

Attachment Dimensional Chart

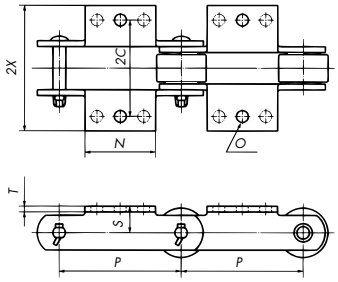
A1/K1 Attachments

Chain Size	Bearing Roller Type R Roller	Bearing Roller Type F Roller	Pitch P	S	C	2C	X	2X	N	T	O	Bolt Used	Additional Mass/Each kg
RF03075	○	○	75	20	30	60	46	92	55	3.2	10	M8	0.06
RF03100	○	○	100						65				0.07
RF05100	○	○	100	22	35	70	47	94	65	4.5	10	M8	0.07
RF05125	○	○	125						75				0.08
RF05150	○	○	150						85				0.10
RF08125	○	○	125	28	50	100	64	128	80	6.3	12	M10	0.19
RF08150	○	○	150						90				0.23
RF10100	○	–	100	28	50	100	67	134	70	6.3	12	M10	0.16
RF10125	○	○	125						80				0.18
RF10150	○	○	150						90				0.20
RF12200	○	○	200	38	60	120	79	158	120	7.9	15	M12	0.44
RF12250	○	○	250						170				0.61
RF17200	○	○	200	45	75	150	100	200	120	9.5	15	M12	0.64
RF17250	○	○	250						170				0.88
RF17300	○	○	300						220				1.26
RF26250	○	○	250	55	80	160	108	216	170	9.5	15	M12	1.01
RF26300	○	○	300						220				1.34

A1 Attachment



K1 Attachment

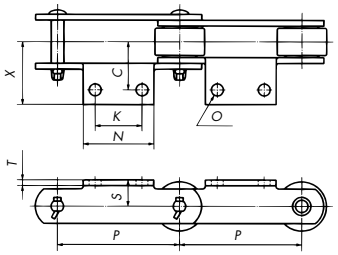


Note: 1. The weight of the A attachment in the table is the additional weight per attachment. This value should be double for K attachments.
2. Please contact a Tsubaki representative if the A or K attachment side face requires a guide.
3. When attaching a slat or the like between two strands of chain, the slats should be attached to either outer link–outer link or inner link–inner link.
4. Imperial sizes available upon request. 5. The above dimensions are nominal dimensions and may differ from actual dimensions.

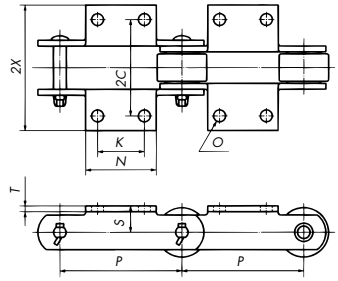
A2/K2 Attachments

Chain Size	Bearing Roller Type R Roller	Bearing Roller Type F Roller	Pitch P	S	C	2C	X	2X	N	K	T	O	Bolt Used	Additional Mass/Each kg
RF03075	○	○	75	20	30	60	46	92	55	30	3.2	10	M8	0.06
RF03100	○	○	100						65	40				0.07
RF05100	○	○	100	22	35	70	47	94	65	40	4.5	10	M8	0.07
RF05125	○	○	125						75	50				0.08
RF05150	○	○	150						85	60				0.10
RF08125	○	○	125	28	50	100	64	128	80	50	6.3	12	M10	0.19
RF08150	○	○	150						90	60				0.23
RF10100	○	–	100	28	50	100	67	134	70	40	6.3	12	M10	0.16
RF10125	○	○	125						80	50				0.18
RF10150	○	○	150						90	60				0.20
RF12200	○	○	200	38	60	120	79	158	120	80	7.9	15	M12	0.44
RF12250	○	○	250						170	125				0.61
RF17200	○	○	200	45	75	150	100	200	120	80	9.5	15	M12	0.64
RF17250	○	○	250						170	125				0.88
RF17300	○	○	300						220	180				1.26
RF26250	○	○	250	55	80	160	108	216	170	125	9.5	15	M12	1.01
RF26300	○	○	300						220	180				1.34

A2 Attachment



K2 Attachment

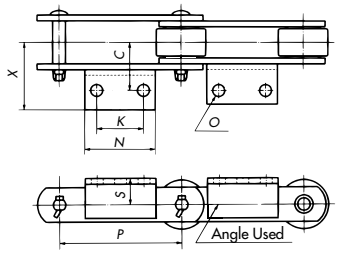


Note: 1. The weight of the A attachment in the table is the additional weight per attachment. This value should be double for K attachments.
2. Please contact a Tsubaki representative if the A or K attachment side face requires a guide.
3. When attaching a slat or the like between two strands of chain, the slats should be attached to either outer link–outer link or inner link–inner link.
4. Imperial sizes available upon request. 5. The above dimensions are nominal dimensions and may differ from actual dimensions.

YA2 (Welded) Attachments

Chain Size	Bearing Roller Type R Roller	Bearing Roller Type F Roller	Pitch P	S	C	2C	X	2X	N	K	O	Angle Used	Bolt Used	Additional Mass/Each kg
RF26450	○	○	450	55	80	160	123.5	247	320	280	15	L75 × 75 × 9	M12	3.19
RF36300	○	○	300	70	100	200	160	320	160	100	19	L100 × 100 × 10	M16	2.40
RF36450	○	○	450						330	280				4.90
RF36600	○	○	600						410	360				6.10

YA2 (Welded) Attachment



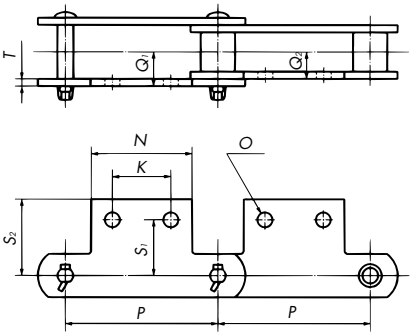
Note: 1. When attaching a slat or the like between two strands of chain, the slats should be attached to either outer link–outer link or inner link–inner link.
2. Imperial sizes available upon request. 3. The above dimensions are nominal dimensions and may differ from actual dimensions.

SA2/SK2 Attachments

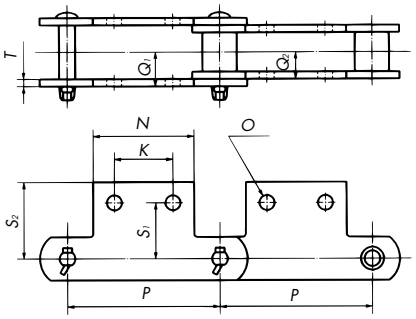
Chain Size	Bearing Roller Type		Pitch	S_1	S_2	Q_1	Q_2	N	K	T	O	Bolt Used	Additional Mass/Each
	R Roller	F Roller	P										kg
RF03075	○	–	75	33	49	15.5	11.5	55	30	3.2	10	M8	0.06
RF03100	○	–	100					65	40				0.07
RF05100	○	–	100	33.4	50.7	21	15.5	65	40	4.5	10	M8	0.07
RF05125	○	–	125					75	50				0.08
RF05150	○	–	150					85	60				0.10
RF08125	○	–	125	46.1	60.7	27	20	80	50	6.3	12	M10	0.19
RF08150	○	–	150					90	60				0.23
RF10100	○	–	100	46.1	63	28.5	21.5	70	40	6.3	12	M10	0.16
RF10125	○	–	125					80	50				0.18
RF10150	○	–	150					90	60				0.20
RF12200	○	–	200	55	75.7	35.5	26.5	120	80	7.9	15	M12	0.44
RF12250	○	–	250					170	125				0.61

Note: 1. When attaching a slat or the like between two strands of chain, the slats should be attached to either outer link–outer link or inner link–inner link.
2. Imperial sizes available upon request.
3. The above dimensions are nominal dimensions and may differ from actual dimensions.

SA2 Attachment



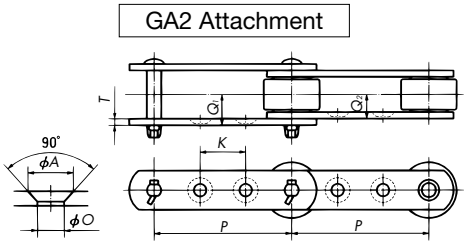
SK2 Attachment



GA2 Attachments

Chain Size	Bearing Roller Type		Pitch	K	T	Q_1	Q_2	A	O	Max. Length of Attached Bolt		Bolt Used
	R Roller	F Roller	P							Outer Link	Inner Link	
RF03075	○	–	75	30	3.2	15.5	11.5	13.5	8	26	19	M6
RF03100	○	–	100	50								
RF05100	○	–	100	40	4.5	21	15.5	15	10	36	26	M8
RF05125	○	○	125	50								
RF05150	○	○	150	60								
RF08150	○	○	150	60	6.3	27	20	20	12	45	31	M10
RF10100	–	–	100	30	6.3	28.5	21.5	20	12	49	35	M10
RF10125	○	–	125	40								
RF10150	○	○	150	60								
RF12200	○	○	200	80	7.9	35.5	26.5	26	15	63	45	M12
RF12250	○	○	250	125								
RF17200	○	○	200	70	9.5	45.5	35	26	15	81	61	M12
RF17250	○	○	250	110								
RF17300	○	○	300	150								
RF26300	○	○	300	140	9.5	48.5	38	26	15	88	67	M12
RF26450	○	○	450	220								
RF36450	○	○	450	220	12.7	60	46	32	19	105	75	M16
RF36600	○	○	600	300								

GA2 Attachment



Note: 1. The weight of a GA2 attachment is the same as the weight of the base chain.
2. When attaching a slat or the like between two strands of chain, the slats should be attached to either outer link–outer link or inner link–inner link.
3. Imperial sizes available upon request.
4. The above dimensions are nominal dimensions and may differ from actual dimensions.

Contact a Tsubaki representative regarding attachments for Completely Lube-Free Bearing Roller Conveyor Chain.

List of Series

Series Specification				Standard Series				Lube-Free Series					
				Standard Specs		Anti-Dust Specs		Standard Specs		Completely Lube-Free Specs		Water Resistant Specs	
Type				BR BF		DBR DBF		EBR EBF		AEBR AEBF		WEBR WEBF	
Operating Environment				Room temperature, away from water and dust		Dust may be present (cannot be used when chain will be buried in dust)		Room temperature, away from water and dust		Room temperature, away from water and dust		Room temperature, in contact with water	
Roller Lubrication				Requires regular lube		Requires regular lube		Can be used without lubricating the roller		Packaged and shipped lubed, no further lubing necessary		Packaged and shipped lubed, no further lubing necessary (cannot be used in dust environments)	
Operating Temperature Range				–20°C to 80°C (can be manufactured to withstand up to 150°C)		–10°C to 80°C		–20°C to 50°C		–20°C to 50°C		0°C to 50°C	
Roller Allowable Load	R Roller	Chain Size	RF03	1.96kN	{ 200kgf}	—	—	1.96kN	{ 200kgf}	—	—	1.37kN	{ 140kgf}
			RF05	3.04kN	{ 310kgf}	—	—	3.04kN	{ 310kgf}	3.04kN	{ 310kgf}	2.13kN	{ 220kgf}
			RF08	4.12kN	{ 420kgf}	—	—	4.12kN	{ 420kgf}	4.12kN	{ 420kgf}	2.88kN	{ 290kgf}
			RF10	5.49kN	{ 560kgf}	5.49kN	{ 560kgf}	5.49kN	{ 560kgf}	5.49kN	{ 560kgf}	3.84kN	{ 390kgf}
			RF12	8.34kN	{ 850kgf}	8.34kN	{ 850kgf}	8.34kN	{ 850kgf}	8.34kN	{ 850kgf}	5.84kN	{ 600kgf}
			RF17	14.1kN	{1440kgf}	14.1kN	{1440kgf}	14.1kN	{1440kgf}	14.1kN	{1440kgf}	9.87kN	{1010kgf}
			RF26	19.6kN	{2000kgf}	19.6kN	{2000kgf}	19.6kN	{2000kgf}	19.6kN	{2000kgf}	13.7kN	{1400kgf}
			RF36	27.5kN	{2800kgf}	27.5kN	{2800kgf}	27.5kN	{2800kgf}	27.5kN	{2800kgf}	19.3kN	{1970kgf}
	F Roller		RF03	1.27kN	{ 130kgf}	—	—	1.27kN	{ 130kgf}	—	—	0.89kN	{ 90kgf}
			RF05	1.96kN	{ 200kgf}	—	—	1.96kN	{ 200kgf}	1.96kN	{ 200kgf}	1.37kN	{ 140kgf}
			RF08	2.65kN	{ 270kgf}	—	—	2.65kN	{ 270kgf}	2.65kN	{ 270kgf}	1.86kN	{ 190kgf}
			RF10	3.43kN	{ 350kgf}	3.43kN	{ 350kgf}	3.43kN	{ 350kgf}	3.43kN	{ 350kgf}	2.40kN	{ 240kgf}
			RF12	5.49kN	{ 560kgf}	5.49kN	{ 560kgf}	5.49kN	{ 560kgf}	5.49kN	{ 560kgf}	3.84kN	{ 390kgf}
			RF17	9.81kN	{1000kgf}	9.81kN	{1000kgf}	9.81kN	{1000kgf}	9.81kN	{1000kgf}	6.87kN	{ 700kgf}
			RF26	13.7kN	{1400kgf}	13.7kN	{1400kgf}	13.7kN	{1400kgf}	13.7kN	{1400kgf}	9.59kN	{ 980kgf}
			RF36	18.6kN	{1900kgf}	18.6kN	{1900kgf}	18.6kN	{1900kgf}	18.6kN	{1900kgf}	13.0kN	{1330kgf}
Coefficient of Roller Rotation Friction				0.03		0.05*		0.03		0.03		0.03	
Chain Allowable Speed	Sprocket No. of Teeth		6	15m/min		15m/min		—		—		—	
			8	25m/min		25m/min		15m/min		15m/min		15m/min	
			10	30m/min		30m/min		20m/min		20m/min		20m/min	
			12	30m/min		30m/min		25m/min		25m/min		25m/min	

*As Anti-Dust Series chain is designed for use in dusty environments, its coefficient of friction is slightly higher.
• See the Tsubaki Large Size Conveyor Chains & Sprockets catalog for selection.

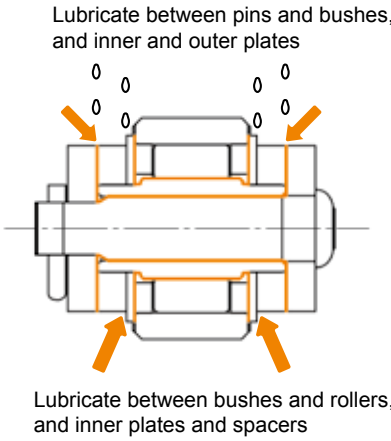
Q&A

1 What is the difference between Tsubaki Bearing Roller Conveyor Chain and competitor bearing roller conveyor chain?

Tsubaki Bearing Roller Conveyor Chain uses a unique construction with cylindrical bearings inside the roller. Competitor chains just use two standard ball bearings.
Although bush–roller life is roughly the same with both types of construction, ball bearings receive load on their point contact and so generally have a lower allowable load than cylindrical bearings and their linear contact. Cylindrical bearings are also tough against impacts—impacts will damage the retainer of ball bearings, which easily leads to poor rotation.

2 Should I lubricate Bearing Roller Conveyor Chain?

We apply grease to inside the bearing rollers before we ship your chain from our plant. Although lubrication frequency will vary with the operating conditions, you should lubricate between pins–bushes and bushes–rollers once every 1–3 months (before you start hearing abnormal noises). (See the diagram below.)



Grease nipples are also available upon request. (See pg. 6.) Consider Tsubaki's Lube-Free Bearing Roller Conveyor Chain when you wish to avoid additional lubrication or when you wish to avoid contaminating conveyed items with lube.

3 Setting the allowable speed and sprocket number of teeth (pg. 19)

Bearing Roller Conveyor Chain's allowable speed is established by the strength of the rollers (cylindrical bearings) when engaging the sprocket. The less teeth a sprocket has, the higher the force acting on the roller during engagement, and the rollers (cylindrical bearings) will not be able to handle the load.

4 What is stick-slip?

Stick-slip, also called "surging," is a type of self-induced oscillation where the chain repeatedly starts and stops, despite there being continuous drive from the drive source. Stick-slip generally happens on conveyors over 10m long and with chain speeds less than 15m/min. The causes of stick-slip include a fluctuating coefficient of friction between bushes and rollers, insufficient chain strength, or even insufficient rail or conveyor strength. In situations where it is caused by a fluctuating coefficient of friction, then using Bearing Roller Conveyor Chain can minimize this surging.

Q&A

5 Are the benefits of Bearing Roller Conveyor Chain worth the price?

When replacing existing chain, the initial costs will be higher but you will be able to reduce overall costs. (See table below.)

	AT Series Conveyor Chain	Standard Bearing Roller Conveyor Chain
Initial costs	**60**	**100**
Wear life	**1**	**3**
Replacement costs	5000 yen/hour x 4 people x 12 hours (half day) x **3** times = **JPY 720,000**	5000 yen/hour x 4 people x 12 hours (half day) x **1** time = **JPY 240,000**
Chain cost	60 x **3** replacements = **180**	100 x **1** replacement = **100**
Total costs	**180 + JPY 720,000 = 252**	HALF → **100 + JPY 240,000 = 124**

Note: Simulation with Bearing Roller Conveyor Chain costs as our benchmark of 100 and AT Series as 60.

Bearing Roller Conveyor Chain has half the total costs of standard conveyor chain.

Users can additionally reduce their electric bill thanks to the lower required motor kW and prevent production losses arising from stopping the line during replacement. (See the charts at the bottom of pg. 3.) And even with new installations, since Bearing Roller Conveyor Chain has a higher roller allowable load than standard conveyor chain users can go a chain size down. A smaller chain size means more compact equipment, which can lead to lower overall costs.

Notes on Use

1) **Allowable loads are determined by roller–rail contact surface wheel load and bearing bending strength. Use rails with SS400 or stronger material. Do not use bearing rollers with curved rails.**
2) **For lubed specifications, lack of lubrication will cause poor rotation. Use non-lubed or water resistant specifications in environments where the chain may come into contact with water.**
3) **Do not use in acidic or alkaline environments. Water resistant specifications (SUS400 Series parts) may rust in certain usage environments.**
4) **Poor rail installation, sprocket misalignment, or other equipment side operating conditions will cause an excessive thrust load to act on the chain in the direction of roller rotation. Adjust rails and sprockets to avoid this issue.**

For Safe Use

Warning Observe the following points to prevent hazardous situations.

- Do not use chains or accessories (peripheral devices and parts) for anything other than their original purpose.
- Never perform additional work on the chain.
  - Do not anneal the various parts of the chain.
  - Do not clean the chain with acids or alkalis, as they may cause cracking.
  - Never electroplate the chain or its parts, as this may cause cracking due to hydrogen embrittlement.
  - Do not weld the chain, as the heat may cause cracking or a reduction in strength.
  - When heating or cutting the chain with a torch, remove the links immediately adjacent and do not use them again.
- When there is a need to replace a damaged (fractured) portion of a chain, always replace the whole chain with a new product rather than replacing only the damaged or fractured portion.
- When using a chain and sprocket on suspension equipment, establish a safety fence and strictly prevent entry to the area directly below the suspended object.
- Always install hazard protection devices (safety covers, etc.) for the chain and sprocket.
- Immediately stop using the chain if it comes into contact with a substance that can cause embrittlement cracking (acid, strong alkali, battery fluid, etc.) and replace with a new chain.
- When installing, removing, inspecting, maintaining, and lubricating the chain:
  - Perform the work according to the instruction manual or this catalog.
  - Always turn off the power switch to the equipment beforehand and make sure that it cannot be turned on accidentally.
  - Secure the chain and sprocket so that they cannot move freely.
  - Use a press or other special tool to cut and connect chain, and cut and connect using the proper procedures.
  - Wear clothing and protective gear (safety glasses, gloves, safety shoes, etc.) that are appropriate for the work.
  - Only experienced personnel should replace chains and sprockets.
- Install hazard protection devices (safety equipment, etc.) on suspension equipment using Leaf Chain to prevent hazard or injury in the event of chain failure.
- Install protection equipment for safety on the equipment side when using chain on personnel transport devices or lifting equipment.

Caution Observe the following points to prevent accidents.

- Only handle chains and sprockets after thoroughly understanding their structure and specifications.
- When installing chains and sprockets, inspect them in advance to confirm that they have not been damaged in transport.
- Always regularly inspect and maintain your chains and sprockets.
- Chain strength varies according to manufacturer. When selecting a chain based on a Tsubaki catalog always use the corresponding Tsubaki product.
- Minimum tensile strength refers to the failure point when a load is applied to the chain once and does not refer to the allowable operational load.
- Lubricate connecting links (CL/OL) before assembling onto the base chain.
- Always ensure that the final customer receives the instruction manual.
  - If you do not have the instruction manual, contact a Tsubaki representative with the product name, series name, and chain/model number to receive the appropriate manual.
- The product information given in this catalog is mainly for selection purposes. Thoroughly read the instruction manual before actually using this product, and use the product properly.

Warranty

1. Warranty Period

Products manufactured by Tsubakimoto Chain Co. (“Products”) are warranted against defects in materials and workmanship for eighteen (18) months from the date of shipment from the factory or twelve (12) months from the date the Products are first placed into operation (calculated from the date the Products have been installed on the customer’s equipment), whichever comes first.

2. Scope of Warranty

During the warranty period, if defects arise in the Products when installed, used, and maintained correctly in accordance to Tsubakimoto Chain’s catalogs, installation manuals (including any documents specially prepared and provided to the customer) and the like, Tsubakimoto Chain will repair or replace such defective Products thereof free of charge upon confirmation of said defect by Tsubakimoto Chain. This warranty shall only apply to Products received, and Tsubakimoto Chain shall not be liable for the following costs and/or damages (including installation manuals or other documents specially prepared and provided to the customer):

(1) Costs required for removing the defective Products from or re-installing the replacement Products on the customer’s equipment for replacement or repair of the defective Product, as well as any associated installation costs.
(2) Costs required to transport the customer’s equipment, if needed, to a repair shop or the like.
(3) Any consequential or indirect damages or loss of profits or benefits the customer may incur due to the defects or repair of the Products.

3. Out of Warranty Service and Repair

Regardless of the warranty period, Tsubakimoto Chain will provide investigation, repair, and/or manufacture of the Products for a fee should the Products experience problems or anomalies under the following situations.

(1) Placement, installation (including connecting and disconnecting), lubrication, or maintenance of the Products not in accordance with Tsubakimoto Chain’s catalogs, installation manuals (including documents specially prepared and provided to the customer), or the like.
(2) Use of the Products (including operating conditions, environment, and allowances) not in accordance with Tsubakimoto Chain’s catalogs, installation manuals (including documents specially prepared and provided to the customer), or the like.
(3) Inappropriate disassembly, modification, or processing of the Products by the customer.
(4) Use of the Products with damaged or worn products. (Example: Use of the Products with a worn sprocket, drum, rail, or the like.)
(5) When the operating conditions exceed the performance of the Products as selected using the Tsubakimoto Chain selection method.
(6) Use of the Products in conditions other than what have been discussed.
(7) When consumables such as bearings, oil seals, and lubricant in the Products deplete, wear, or degrade.
(8) When secondary damage occurs to the Products due to initial or primary damage or failure to the customer’s equipment.
(9) Damage or failure of the Products due to forces majeure such as natural disasters.
(10) Damage or failure of the Products due to unlawful conduct by third parties.
(11) Damage or failure of the Products due to causes not attributable to Tsubakimoto Chain

TSUBAKIMOTO CHAIN CO.

Japan	Tsubakimoto Chain Co.	https://tsubakimoto.com/

Global Group Companies

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